Third Quarter 2020
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 2020

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List of Abbreviations

BC	Brown and Caldwell Associates
BTEX	Benzene, toluene, ethylbenzene and isomers of xylene
DUSR	Data Usability Summary Report
EDD	Electronic Data Deliverable
ELAP	Environmental Laboratory Approval Program
FER	Final Engineering Report
ISS	In-Situ Solidification
Lancaster	Eurofins Lancaster Laboratories Environmental
MGP	Manufactured Gas Plant
MS/MSD	Matrix Spike/Matrix Spike Duplicate
MTBE	Methyl tertiary-butyl ether
NAPL	Non-Aqueous Phase Liquid
NYCRR	New York State Code of Rules and Regulations
NYSDEC	New York Department of Environmental Conservation
NYSDOH	New York State Department of Health
PAHs	Polycyclic aromatic hydrocarbons
PVC	Polyvinyl Chloride
QA/QC	Quality Assurance/Quality Control
SIM	Selective Ion Monitoring
TOGS	Technical and Operational Guidance Series
µg/L	micrograms per liter
USEPA	United States Environmental Protection Agency

Section 1

Introduction

This Quarterly Groundwater Monitoring Report documents the implementation and summarizes the results of the groundwater monitoring activities conducted during the third quarter of 2020 at the Patchogue Former Manufactured Gas Plant (MGP) Site (hereinafter referred to as the "Site"). This monitoring event is the third to be conducted after completion of the implementation of the remedy 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 between National Grid and the New York State Department of Environmental Conservation (NYSDEC). Remedial construction activities were substantially completed in 2019. Restoration activities 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 September 2020 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 (Appendix D);
- Evaluation of Potential Impacts to River from Site Constituents in Groundwater – September 2020 Data (Appendix E); and
- Evaluation of Potential Impacts to River from Site Constituents in Groundwater – March and June 2020 Data (Appendix F).

1.1 Background

This report presents the results and findings associated with the September 2020 groundwater monitoring event, which is the third such event conducted following implementation of the Site remedy. Groundwater conditions prior to remedy implementation are documented and discussed in previous groundwater monitoring reports dating back to 2009 and in the "Final Remedial Investigation Report for

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

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

Groundwater monitoring prior to remedy implementation was conducted on a semi-annual basis; however, the sampling frequency has been temporarily increased to quarterly to evaluate the effectiveness of the remedy for Calendar Year 2020. The post-remediation groundwater monitoring results will be assessed after the 2020 quarterly groundwater monitoring program to determine whether a reduction in sampling locations and/or sampling frequency is warranted.

Section 2

Scope of Work

Field activities for the third quarter 2020 groundwater monitoring were conducted by BC from September 28 through September 30, 2020. 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 2020 sampling event from a surface water elevation control point (i.e., staff gauge SG-1), which was re-established in the river during the first quarter 2020 sampling event. 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, MW-4S, MW-4D, MW-7S, MW-7D, MW-8S, and MW-8D; 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 January 2010). 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 8260B, and polycyclic aromatic hydrocarbons (PAHs) using USEPA SW-846 Method 8270D. 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 Data Usability Summary Report (DUSR) was prepared for the groundwater data packages (see Appendix D). Overall, the analytical data for the groundwater monitoring were determined to be acceptable for the intended purposes and none of the data was rejected. As noted in the DUSR, some data was qualified as follows:

- Samples MW-1-20200928 and MW-11S-20200929 were diluted due to foaming at the time of purging during the original sample analysis. Elevated reporting limits are provided.

Section 3

Results and Findings

3.1 Water Level Data

Table 1 provides the water level data and calculated water elevations from the September 2020 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 gauge 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. 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 2020 groundwater monitoring event. NAPL was not identified in any of the site monitoring wells during the September 2020 gauging activities.

3.3 Groundwater Quality Data

Table 2 provides the results of the laboratory analyses of the groundwater samples collected during the September 2020 monitoring event and a comparison of the data to the New York State Class GA groundwater quality criteria (i.e., New York State Code of 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 in September 2020 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 2020 samples at locations MW-3, MW-4S, MW-11S, and MW-13S for one or more of the following tested constituents: benzene, ethylbenzene, acenaphthene, benzo(a)anthracene, chrysene, naphthalene and phenanthrene. Each of these locations are proximal to the ISS mass. The presence in groundwater of these constituents is an expected result of the disturbance of the subsurface during implementation of the ISS. Prior to remediation in the area downgradient of the MGP-related source materials, these constituents were either not detected or detected at concentrations below Class GA groundwater quality criteria in the wells that existed prior to remedy implementation. These concentrations are anticipated to decrease with time and will be evaluated during subsequent monitoring events. As described above in Section 3.1, groundwater flow is from the northwest to the south and southeast across the Site toward the Patchogue River. The concentrations of some of the constituents that were detected and potentially mobile in the dissolved phase (benzene and ethylbenzene) were below applicable surface water quality criteria listed in the New York State Ambient Water Quality Standards and Guidance Values (NYSDEC, June 1998 with Addenda dated April 2000 and June 2004) that are applicable to the Patchogue River

(the portion of the Patchogue River proximal to the Site is classified as a Class C water body per 6 NYCRR Part 897). Therefore, they do not have the potential to impact water quality the river. However, the concentration of 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 impact to surface water quality if they discharged to the river, 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, consistent with the analyses performed as part of the first and second quarter 2020 reports (BC, June 2020 and BC, October 2020) where it was determined that the calculated concentrations of acenaphthene, fluorene, naphthalene and pyrene in the river were below applicable surface water criteria. The evaluation was conducted by estimating the rate at which a mass of site-related constituents dissolved in groundwater may be contributing to the surface water in the Patchogue River (i.e., the mass flux of constituents from groundwater to surface water). The details of this constituent mass flux analysis are presented in Appendix E; the results are summarized below.

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 (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. However, due to increased concentrations of benzo(a)anthracene, fluorene, phenanthrene and pyrene in MW-3, an additional analysis was conducted for these constituents in this report.

The estimated concentrations of benzo(a)anthracene, fluorene, phenanthrene and pyrene in the Patchogue River resulting from the discharge of site groundwater to the river was calculated using conservative assumptions that bias the estimates toward higher concentrations. The results of the mass flux evaluation, the estimated concentrations of benzo(a)anthracene, fluorene, phenanthrene and pyrene in the Patchogue River adjacent to the Site during low-flow conditions are 0.0008 micrograms per liter (µg/L), 0.003 µg/L, 0.001 µg/L, and 0.007 µg/L, respectively (see Appendix E). These estimated concentrations are below the guidance values for these constituents. Based on the evaluation conducted, site-related constituents in shallow groundwater do not impact surface water quality in the Patchogue River.

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

Another noteworthy groundwater quality observation gleaned from the September 2020 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 2020 at these locations. Specifically, MW-3 increased from 9.02 to 10.01 and MW-13S increased slightly from 9.46 to 9.54. Additionally, the pH level in MW-3 prior to implementation of the remedy was considerably less than observed in September (6.9 in December 2018 and 10.01 in September 2020). MW-13S was not installed until after completion of the remedy and thus, pre-remediation pH data is not available for this location. The increased pH levels are considered a potential effect from implementation of ISS in the area. Although it is anticipated that conditions will improve with time (i.e., as ISS mass continues to fully cure), pH conditions will be monitored during subsequent sampling events.

Section 4

Summary and Conclusions

Provided below is a summary of the findings and conclusions associated with the September 2020 groundwater monitoring event.

- NAPL was not identified in any of the site monitoring wells during the September 2020 gauging activities.
- Constituent concentrations above Class GA groundwater quality criteria were detected in September 2020 samples at four shallow well locations proximal to the ISS mass (MW-3, MW-4S, MW-11S, and MW-13S). The exceedances in the wells were for one or more of the following constituents: benzene, ethylbenzene, acenaphthene, benzo(a)anthracene, chrysene, phenanthrene, and naphthalene. The presence of these constituents is an expected result of the disturbance of the subsurface during implementation of the ISS. These concentrations are anticipated to decrease with time and will be evaluated during subsequent monitoring events.
- The concentrations of Site-related constituents detected in groundwater at the Site do not have the potential to impact surface water quality in the Patchogue River based on an evaluation of the mass flux of constituents in groundwater to the river.

Section 5

References

Brown and Caldwell Associates, October 2020, Second Quarter 2020 Groundwater Monitoring Report, Patchogue Former MGP Site, Village of Patchogue, Suffolk County, New York, Site ID No. 1-52-182.

Brown and Caldwell Associates, June 2020, First Quarter 2020 Groundwater Monitoring Report, 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 January 2010. 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 2020 GROUNDWATER MONITORING EVENT
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

		9/28/2020			
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	5.91	5.56	NI	15.25
MW-3	5.56	1.72	3.84	NI	10.10
MW-4S	7.97	4.84	3.13	NI	12.28
MW-4D	7.79	4.57	3.22	NI	26.70
MW-7S	8.45	4.40	4.05	NI	12.45
MW-7D	8.31	4.25	4.06	NI	28.17
MW-8S	5.01	0.76	4.25	NI	9.90
MW-8D	4.99	0.72	4.27	NI	25.24
MW-10S	5.77	1.14	4.63	NI	15.51
MW-10D	5.73	1.17	4.56	NI	25.35
MW-11S	5.02	0.90	4.12	NI	13.80
MW-11D	5.14	1.02	4.12	NI	23.70
MW-12S	4.99	1.52	3.47	NI	13.90
MW-12D	4.92	1.41	3.51	NI	23.95
MW-13S	4.98	1.45	3.53	NI	13.32
MW-13D	4.96	1.43	3.53	NI	23.95
MW-14S	4.86	0.95	3.91	NI	12.63
MW-14D	4.82	1.00	3.82	NI	22.09
SG-1	5.38	3.81	1.57	--	NA
SG-2	5.25	NM	--	--	NA

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

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
THIRD QUARTER 2020 SEMI-ANNUAL 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 9/28/2020	MW-3 9/30/2020	MW-3 (Dup) 9/30/2020	MW-4S 9/29/2020	MW-4D 9/29/2020	MW-7S 9/28/2020	MW-7D 9/28/2020	MW-8S 9/28/2020	MW-8D 9/29/2020	MW-10S 9/28/2020	MW-10D 9/28/2020
Volatile Organic Compounds (VOCs)															
BTEX Compounds															
Benzene	NE	1	µg/L		1.0 U	**1.3**	**1.4**	**2.0**	0.20 U	0.44 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Toluene	NE	5	µg/L		1.0 U	1.3	1.4	0.20 U	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		2.0 U	**8.6**	**9.0**	0.40 U	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		7.0 U	9.2	9.7	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Total BTEX[(a)]	NE	NE	µg/L		ND	20	22	2.0	ND	0.4 J	ND	ND	ND	ND	ND
Other VOCs															
Methyl Tertiary Butyl Ether	10	NE	µg/L		1.0 U	0.2 U	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.20 U	0.2 U
Semi-Volatile Organic Compounds (SVOCs)															
Polycyclic Aromatic Hydrocarbons (PAHs)															
Acenaphthene	20	NE	µg/L		0.10 U	**46**	**47**	**23**	0.10 U	0.10 U	0.10 U	0.21 J	0.10 U	0.10 U	0.10 U
Acenaphthylene	NE	NE	µg/L		0.10 U	7.7	7.6	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Anthracene	50	NE	µg/L		0.10 U	1.7	1.6	0.48 J	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Benzo(a)anthracene	0.002	NE	µg/L		0.10 U	**4.8**	**4.8**	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Benzo(a)pyrene	NE	0	µg/L		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Benzo(b)fluoranthene	0.002	NE	µg/L		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Benzo(g,h,i)perylene	NE	NE	µg/L		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Benzo(k)fluoranthene	0.002	NE	µg/L		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chrysene	0.002	NE	µg/L		0.10 U	**3.1**	**2.5**	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Dibenzo(a,h)anthracene	NE	NE	µg/L		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Fluoranthene	50	NE	µg/L		0.10 U	23	23	2.9	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Fluorene	50	NE	µg/L		0.10 U	9.7	10.0	7.3	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Indeno(1,2,3-cd)pyrene	0.002	NE	µg/L		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Naphthalene	10	NE	µg/L		0.10 U	**200**	**200**	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Phenanthrene	50	NE	µg/L		0.10 U	5.4	5.9	3.3	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Pyrene	50	NE	µg/L		0.10 U	35	35	4.4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Total PAHs[(b)]	NE	NE	µg/L		ND	336	337	41 J	ND	ND	ND	0.21 J	ND	ND	ND

Notes:
BTEX - benzene, toluene, ethylbenzene and isomers of xylene.
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 are above New York State Class GA Groundwater Quality Criteria (Standards or Guidance values).

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
THIRD QUARTER 2020 SEMI-ANNUAL 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-11S 9/29/2020	MW-11D 9/30/2020	MW-12S 9/29/2020	MW-12D 9/29/2020	MW-13S 9/30/2020	MW-13D 9/30/2020	MW-14S 9/29/2020	MW-14D 9/29/2020
Volatile Organic Compounds (VOCs)												
BTEX Compounds												
Benzene	NE	1	µg/L		**1.9 J**	0.20 U	0.20 U	0.20 U	**2.8**	0.20 U	0.20 U	0.20 U
Toluene	NE	5	µg/L		1.0 U	0.20 U	0.20 U	0.20 U	1.4	0.20 U	0.20 U	0.20 U
Ethylbenzene	NE	5	µg/L		2.0 U	0.40 U	0.40 U	0.40 U	**12**	0.40 U	0.40 U	0.40 U
Xylenes, Total	NE	NE	µg/L		7.0 U	1.4 U	1.4 U	1.4 U	10	1.4 U	1.4 U	1.4 U
Total BTEX[(a)]	NE	NE	µg/L		1.9 J	ND	ND	ND	26	ND	ND	ND
Other VOCs												
Methyl Tertiary Butyl Ether	10	NE	µg/L		1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Semi-Volatile Organic Compounds (SVOCs)												
Polycyclic Aromatic Hydrocarbons (PAHs)												
Acenaphthene	20	NE	µg/L		**64**	0.10 U	0.10 U	0.10 U	**79**	0.10 U	0.12 J	0.10 U
Acenaphthylene	NE	NE	µg/L		0.10 U	0.10 U	0.10 U	0.10 U	3.6	0.10 U	0.10 U	0.10 U
Anthracene	50	NE	µg/L		4.9	0.10 U	0.10 U	0.10 U	11	0.10 U	0.10 U	0.10 U
Benzo(a)anthracene	0.002	NE	µg/L		**0.40 J**	0.10 U	0.10 U	0.10 U	**2.4**	0.10 U	0.10 U	0.10 U
Benzo(a)pyrene	NE	0	µg/L		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Benzo(b)fluoranthene	0.002	NE	µg/L		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Benzo(g,h,i)perylene	NE	NE	µg/L		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Benzo(k)fluoranthene	0.002	NE	µg/L		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chrysene	0.002	NE	µg/L		**0.45 J**	0.10 U	0.10 U	0.10 U	**1.3**	0.10 U	0.10 U	0.10 U
Dibenzo(a,h)anthracene	NE	NE	µg/L		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Fluoranthene	50	NE	µg/L		5.4	0.10 U	0.10 U	0.10 U	11	0.10 U	0.10 U	0.10 U
Fluorene	50	NE	µg/L		14	0.10 U	0.10 U	0.10 U	30	0.10 U	0.10 U	0.10 U
Indeno(1,2,3-cd)pyrene	0.002	NE	µg/L		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Naphthalene	10	NE	µg/L		4.5	0.10 U	0.10 U	0.10 U	**230**	0.10 U	0.10 U	0.10 U
Phenanthrene	50	NE	µg/L		26	0.10 U	0.10 U	0.10 U	**82**	0.10 U	0.10 U	0.10 U
Pyrene	50	NE	µg/L		7.0	0.10 U	0.10 U	0.10 U	17	0.10 U	0.10 U	0.10 U
Total PAHs[(b)]	NE	NE	µg/L		127 J	ND	ND	ND	467	ND	0.12 J	ND

Notes:
BTEX - benzene, toluene, ethylbenzene and isomers of xylene.
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 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]
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	2.8	0.9	0	971	10.1	0.2	0.4	0	0	1.4	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]
Minimum	0	0	2	0	0	0	25	0	0	0	0
Maximum	0	0	4.0	0	0	0	37	0	0.73	0	0
Mean	0	0	2.9	0	0	0	29	0	0.2	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 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													
	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]	0.00	0	0.21	0	-- [c]	-- [c]
Min	0	0	0	0	0	0	1774	0	0	0	0	0	0	0
Max	22	0	1	336	41	39	3373	214	3	2.6	22	1.2	396	5
Mean	0.9	0	0.1	30	3.8	4.1	2567	50	0.6	0.2	1.7	0.1	28	0.9

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]
Min	0	0	63	0	0	0	188	0	0	0	0
Max	0	0	127	2	14	0	467	0	1.8	0	0
Mean	0.1	0.1	95	0.5	4.6	0	350	0.1	0.8	0	0.3

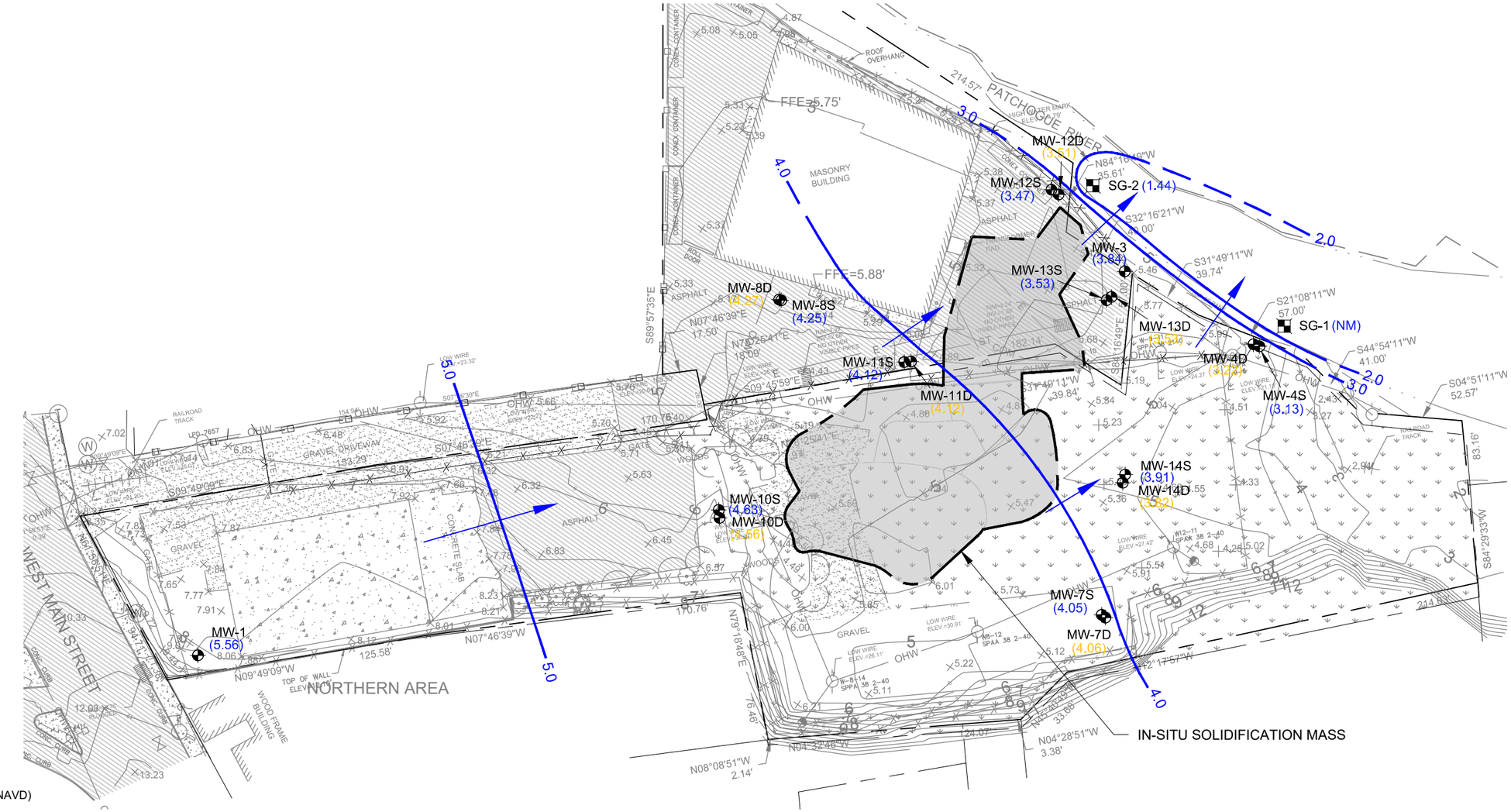
Notes:
PAH - Polycyclic aromatic hydrocarbons
µg/L - micrograms per liter
NS - Not sampled.
NI - Monitoring well or piezometer not installed at time of sampling.
(a) - To calculate total PAH concentration, a value of zero is used for non-detect values.
(b) - Monitoring well was decommissioned on 6/4/12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

Figures

Path: \\bcusrfp01\Projects\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-1-(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

1

Appendix A: Field Sampling Data Sheets

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-1
Sample I.D.: MW1-20200928 (if different from well no.)

Project: Patchogue
Personnel: RNP, RES

Date: 9/28/20 Time: 1045
Weather: cloudy/overcast Air Temp.: 72°

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: 5.91 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 RNP Is Inner Casing Intact? ☑ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☑ Yes ☐ No
VOLUME OF WATER: Standing in well: — To be purged: —

PURGE DATA:

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

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

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

SAMPLING DATA:

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

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

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

DUP : ☑ No ☐ Yes Name: [redacted]
MS/MSD : ☑ No ☐ Yes Name:

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

Signature: Radhika Patel Date: 9/28/20

Brown AND Caldwell

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

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

Project Name:		Project Number:	153021
Client:	National Grid	Date:	9/28/20
Personnel:	RNP, RES	Well ID:	MW-1
Purge/Sample Depth:	12 ft	Sample ID:	MW1-20200928

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1048	6.54	21.92	1.05	2.45	16.4	105	6.04	200	
1051	6.46	21.11	1.25	1.11	13.8	72	6.00 RNP	"	
1054	6.48	20.97	1.34	0.80	13.6	43	6.00		
1057	6.50	20.99	1.37	0.70	11.9	25	6.00	200	
1100	6.53	21.07	1.38	0.64	9.5	12	6.00	"	
1103	6.52	21.04	1.38	0.61	11.5	0	6.00	"	
1106	6.55	20.99	1.35	0.63	7.8	-5	6.00	"	
1109	6.53	20.96	1.33	0.56	6.8	-12	6.00	"	
1112	6.54	20.92	1.31	0.58	6.3	-18	6.00	200	
1115	6.58	20.99	1.31	0.56	5.2	-20	6.00	"	
1118	6.58	21.02	1.29	0.53	4.6	-23	6.00	200	
1121	Collect sample								

Certified Sample Information:

Time of Sample: 1121 Analyst Signature: Radhika Patel

Instrument Data:

Manufacturer/Model: ~~U-5000~~ Horiba U52

Serial No. Unit: J1M5HOAC Serial No. Handheld: XE501NTJ

Calibration Date/Time: Lab 9/28/20

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

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

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-105
Sample I.D.: MW-105-20200923 (if different from well no.)

Project: Patchogue
Personnel: RNP, RES

Date: 9/29/20 Time: 1245
Weather: overcast Air Temp.: 74°

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: 1.14 ft Bottom of Well: _____ ft
DATUM: ☐ Top of Protective Casing ☑ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☐ Yes ☑ No Is well clean to bottom? ☐ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☑ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☑ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☑ NA Is Inner Casing Intact? ☑ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☐ Yes ☐ No
VOLUME OF WATER: Standing in well: — To be purged: —

PURGE DATA:

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

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

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

SAMPLING DATA:

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

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

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

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

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

Signature: Radhika Patel Date: 9/28/20

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

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

Project Name: Patchogue
Client: National Grid
Personnel: RNP, RES
Purge/Sample Depth: 12 ft
Project Number: 153021
Date: 9/28/20
Well ID: MW-10S
Sample ID: ~~MW10S202~~ MW10S-20200928

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1248	6.58	23.34	0.525	2.43	107	44	1.13	200	
1251	6.42	20.96	0.536	1.19	122	-10	1.13	↓	
1254	6.54	20.56	0.527	0.99	114	-28	1.13	↓	
1257	6.58	20.38	0.523	1.05	109	-45	1.14	↓	
1300	6.58	20.28	0.520	1.02	101	-56	1.14	↓	
1303	6.67	20.27	0.515	1.01	105	-68	1.14	↓	
1306	6.73	20.08	0.503	0.95	118	-69	1.14	↓	
1309	6.70	19.76	0.491	1.06	95.6	-73	1.14	↓	
1312	6.68	19.57	0.480	1.09	85.6	-73	1.14	200	
1315	6.72	19.53	0.477	1.22	74.0	-75	1.13	↓	
1318	6.73	19.49	0.473	1.38	65.1	-80	1.13	200	
1321	collect sample								

Certified Sample Information:
Time of Sample: 1321
Analyst Signature: Pradhika Patel

Instrument Data:
Manufacturer/Model: Horiba U52
Serial No. Unit: J1M5HOAC
Serial No. Handheld: XE501NTJ
Calibration Date/Time: LAB 9/28/20

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

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

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-10D
Sample I.D.: MW-10D-20200928 (if different from well no.)

Project: Patchogue
Personnel: RNP, RES

Date: 9/28/20 Time: 1320
Weather: overcast Air Temp.: 73°

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: 1.14 ft Bottom of Well: ft
DATUM: ☐ Top of Protective Casing ☑ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☐ Yes ☑ No Is well clean to bottom? ☐ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☑ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☑ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☑ NA Is Inner Casing Intact? ☑ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☐ Yes ☐ No
VOLUME OF WATER: Standing in well: — To be purged: —

PURGE DATA:

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

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

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

SAMPLING DATA:

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

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

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

DUP : ☑ No ☐ Yes Name:
MS/MSD : ☐ No ☑ Yes Name: MW-10D-20200928-MS / MW-10D-20200928-MSD

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

Signature: Rachida Patel Date: 9/28/20

Brown AND Caldwell

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

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

Project Name:	Patchogue	Project Number:	153021
Client:	National Grid	Date:	9/28/20
Personnel:	RNP, RES	Well ID:	MW-10D
Purge/Sample Depth:	21 ft	Sample ID:	MW-10D-2020928

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (ms/cm)	DO (mg/L)	Turbidity (NTU)				
1324	7.40	19.74	0.311	3.94	73.2	-138	1.18	200	
1327	7.73	18.81	0.298	1.72	73.9	-108	1.18		
1330	7.26	18.62	0.293	1.32	62.4	-92	1.18		
1333	7.14	18.35	0.292	1.50	59.4	-82	1.18		
1336	7.12	18.36	0.292	1.48	57.6	-70	1.18		
1339	7.08	18.59	0.291	1.54	55.6	-66	1.18		
1342	7.11	18.53	0.291	1.55	48.3	-61	1.18		
1345	7.09	18.48	0.291	1.56	41.7	-59	1.18	200	
1348	7.07	18.46	0.291	1.56	31.6	-55	1.18		
1351	7.06	18.46	0.291	1.60	26.6	-51	1.18		
1354	7.11	18.50	0.292	1.58	21.2	-47	1.19	200	
1357	collect sample								

Certified Sample Information:

Time of Sample: 1357 Analyst Signature: Rondita Patel

Instrument Data:

Manufacturer/Model: Horiba U52

Serial No. Unit: J1M5H0AC Serial No. Handheld: XE501NTJ

Calibration Date/Time: LAB 9/29/20

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

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

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-7S
Sample I.D.: MW-7S-20200928 (if different from well no.)

Project: Patchogue
Personnel: ANP, RES

Date: 9/28/20 Time: 1426
Weather: overcast Air Temp.: 73°F

WELL DATA:

Casing Diameter: 4" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 4.40 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: 30min Volume Pumped: 2.25 gal
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

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

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

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

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

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

Signature: Radhika Patel Date: 9/28/20

Brown AND Caldwell

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

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

Project Name:	Patchogue	Project Number:	153021
Client:	National Grid	Date:	9/28/20
Personnel:	RNP, RES	Well ID:	MW-7S
Purge/Sample Depth:	9.5ft	Sample ID:	MW-7S-20200928

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1429	6.81	20.51	0.584	2.99	22.6	~~-136~~ -8	4.60	225	
1432	6.84	19.42	0.599	1.72	12.2	-73	4.60	↓	
1435	6.86	19.10	0.612	1.56	10.6	-94	4.60	↓	
1438	6.94	18.98	0.620	1.63	10.2	-107	4.59		
1441	6.92	18.90	0.627	1.86	11.1	-111	4.59	225	
1444	6.93	18.85	0.629	1.85	11.8	-123	4.60		
1447	6.97	18.84	0.630	2.04	20.6	-126	4.60	↓	
1450	6.99	18.79	0.631	2.18	16.2	-129	4.60	↓	
1453	6.98	18.75	0.631	2.48	16.7	-130	4.60	225	
1456	6.97	18.73	0.631	2.45	16.8	-133	4.60	↓	
1459	7.00	18.72	0.632	2.32	18.5	-134	4.60	225	
1502	collect sample								

Certified Sample Information:

Time of Sample: 1502 Analyst Signature: Radhika Patel

Instrument Data:

Manufacturer/Model: Horiba U52

Serial No. Unit: J1M5HOAC Serial No. Handheld: XE501NJJ

Calibration Date/Time: LAB 9/29/20

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

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

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-7D
Sample I.D.: MW-7D-20200922 (If different from well no.)

Project: Patchogue
Personnel: RNP, RES

Date: 9/28/20 Time: 1505
Weather: overcast Air Temp.: 73

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: 4.25 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: 260 mL/min Elapsed Time: 30 min Volume Pumped: 2 gal
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

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

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

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

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

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

Signature: Radhika Patel Date: 9/28/20

Brown AND Caldwell

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

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

Project Name: Patchogue
Client: National Grid
Personnel: RNP, RES
Purge/Sample Depth: 22 ft

Project Number: 153021
Date: 9/29/20
Well ID: MW-7D
Sample ID: MW-7D-20200928

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1507	6.98	18.72	0.435	4.73	12.9	-90	4.30	200	
1510	5.97	17.74	0.425	1.74	10.5	2	4.30		
1513	5.68	17.55	0.425	1.23	10.1	22	4.30		
1516	5.54	17.32	0.429	0.92	8.3	34	4.30		
1519	5.52	17.24	0.432	0.87	7.0	39	4.30		
1522	5.50	17.14	0.436	0.95	6.5	41	4.30		
1525	5.56	17.14	0.436	0.99	5.7	48	4.30		
1528	5.50	17.09	0.436	0.96	5.6	52	4.30		
1531	5.49	17.00	0.436	0.98	5.4	58	4.30		
1534	5.57	16.95	0.436	1.00	5.1	59	4.30		
1537	5.51	16.92	0.437	1.03	4.9	61	4.30		
1540	collect sample								

Certified Sample Information:
Time of Sample: 1540
Analyst Signature: Radhika Patel

Instrument Data:
Manufacturer/Model: Horiba U52
Serial No. Unit: I1M5HOAC
Serial No. Handheld: XE501NTJ
Calibration Date/Time: 9/29/20

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

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

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-8S
Sample I.D.: MW-8S-20200928 (If different from well no.)

Project: Patchogue
Personnel: RNP, RES

Date: 9/28/20 Time: 1550
Weather: overcast Air Temp.: 73°F

WELL DATA:

Casing Diameter: 8" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 0.76 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: 250 mL/min Elapsed Time: 30 min Volume Pumped: 2.5 gal
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

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

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

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

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

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

Signature: Radhika Patel Date: 9/28/20

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

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

Project Name:	Patchogue	Project Number:	153021
Client:	National Grid	Date:	9/28/20
Personnel:	RVP, RES	Well ID:	MW-85
Purge/Sample Depth:	7.5'	Sample ID:	MW-85-20200928

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (ms/cm)	DO (mg/L)	Turbidity (NTU)				
1602	5.92	21.49	0.539	2.99	46.9	57	0.80	250	
1605	6.21	20.58	0.547	0.84	100	35	0.80		
1608	6.26	20.25	0.549	0.51	86.5	22	0.80	↓	
1611	6.35	20.09	0.546	0.31	43.0	12	0.80		
1614	6.34	20.01	0.544	0.38	27.1	3	0.80	250	
1617	6.33	19.97	0.541	0.38	18.2	-5	0.80	↓	
1620	6.41	19.97	0.540	0.43	15.0	-4	0.80		
1623	6.43	19.93	0.540	0.45	12.4	-16	0.80	↓	
1626	6.45	19.92	0.540	0.45	11.5	-17	0.80		
1629	6.46	19.90	0.539	0.47	9.9	-19	0.80	250	
1632	6.46	19.88	0.538	0.50	9.7	-22	0.80	250	
1635	collect sample								

Certified Sample Information:
Time of Sample: 1635 Analyst Signature: Rachelle Patel

Instrument Data:
Manufacturer/Model: Horiba U52
Serial No. Unit: J1MSHOAC Serial No. Handheld: XE501NTJ
Calibration Date/Time: 9/28/20

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

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

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-8D
Sample I.D.: MW-8D-20200923 (If different from well no.)

Project: Patchogue
Personnel: RNP, RES

Date: 9/29/20 Time: 745
Weather: cloudy Air Temp.: 67°F

WELL DATA:

Casing Diameter: 8" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other:
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 0.77 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: 1.75 gal
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: —
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

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

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

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

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

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

Signature: Rachel Patt Date: 9/29/20

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

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

Project Name:	Patchogue	Project Number:	153021
Client:	National Grid	Date:	9/29/20
Personnel:	RNP, RES	Well ID:	MW-8D
Purge/Sample Depth:	22' ft	Sample ID:	MW-8D-20200929

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
0754	6.55	20.00	0.234	4.34	31.0	140	0.77	#175	
0757	6.11	19.15	0.220	3.35	29.8	159	0.77	↓	
0800	5.88	18.65	0.219	2.90	22.9	165	0.77	↓	
0803	5.85	18.41	0.225	2.66	23.1	171	0.77	↓	
0806	5.86	18.30	0.232	2.45	24.2	171	0.77	↓	
0809	5.78	18.22	0.241	2.30	23.1	174	0.77	175	
0812	5.74	18.17	0.249	2.14	21.8	173	0.77	↓	
0815	5.76	18.12	0.256	2.02	21.0	178	0.77	↓	
0818	5.69	18.11	0.261	1.97	21.4	177	0.77	↓	
0821	5.72	18.06	0.264	1.90	20.8	176	0.77	175	
0824	5.75	18.05	0.266	1.87	20.0	180	0.77	175	
0827	collected sample								

Certified Sample Information:
Time of Sample: 0827 Analyst Signature: Madhuba Patel

Instrument Data:
Manufacturer/Model: Horiba U52
Serial No. Unit: J1M5H0AC Serial No. Handheld: XE501NTJ
Calibration Date/Time: 9/29/20

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

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

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-14S
Sample I.D.: MW-14S-20200929 (If different from well no.)

Project: Parkrogue
Personnel: RNP, RES

Date: 9/29/20 Time: 0840
Weather: cloudy Air Temp.: 69°F

WELL DATA:

Casing Diameter: 2" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 1.02 ft Bottom of Well: _____ ft
DATUM: ☐ Top of Protective Casing ☑ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☐ Yes ☑ No Is well clean to bottom? ☐ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☑ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☑ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☑ NA Is Inner Casing Intact? ☑ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☑ Yes ☐ No
VOLUME OF WATER: Standing in well: — To be purged: —

PURGE DATA:

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

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

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

SAMPLING DATA:

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

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

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

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

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

Signature: Rradhika Patel Date: 9/29/20

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

NJ FIELD LAB ID# 02023

LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name:	Patchogue	Project Number:	153021
Client:	National Grid	Date:	9/29/20
Personnel:	BNP, RES	Well ID:	MW-145
Purge/Sample Depth:	10 ft	Sample ID:	MW-145-20200929

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
0845	6.18	19.46	0.593	2.11	16	159	1.07	200	
0848	6.92	19.21	0.593	0.83	19.6	142	1.07	↓	
0851	7.18	19.22	0.595	0.51	19.1	131	1.07		
0854	7.35	19.23	0.595	0.46	18.8	126	1.07	200	
0857	7.44	19.23	0.596	0.41	17.4	121	1.07		
0900	7.47	19.20	0.596	0.38	13.8	114	1.07		
0903	7.56	19.18	0.596	0.34	11.1	109	1.07		
0906	7.65	19.19	0.596	0.33	9.1	107	1.07	200	
0909	7.68	19.21	0.596	0.32	8.4	102	1.07	↓	
0912	7.67	19.19	0.597	0.31	7.7	94	1.07	260	
0915	7.69	19.20	0.597	0.30	7.2	93	1.07	200	
0918	collect sample								

Certified Sample Information:
Time of Sample: 0918 Analyst Signature: Pradhiba Patil

Instrument Data:
Manufacturer/Model: Horiba U52
Serial No. Unit: J1M5HOAC Serial No. Handheld: XE501NTJ
Calibration Date/Time: 9/29/20

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

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

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-14D
Sample I.D.: MW-14D-20200929 (if different from well no.)

Project: Patchogue
Personnel: RNP, RES

Date: 9/29/20 Time: 0923
Weather: cloudy Air Temp.: 69°F

WELL DATA:

Casing Diameter: 8" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other:
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 1.00 ft Bottom of Well: ft
DATUM: ☐ Top of Protective Casing ☑ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☐ Yes ☑ No Is well clean to bottom? ☐ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☑ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☑ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☑ NA Is Inner Casing Intact? ☑ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☑ Yes ☐ No
VOLUME OF WATER: Standing in well: To be purged:

PURGE DATA:

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

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

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

SAMPLING DATA:

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

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

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

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

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

Signature: Radhika Patel Date: 9/29/20

Brown AND Caldwell

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

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

Project Name:	Patchogue	Project Number:	153021
Client:	National Grid	Date:	9/29/20
Personnel:	RDP, RFS	Well ID:	MW-14D
Purge/Sample Depth:	19 ft	Sample ID:	MW-14D-20200929

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
0925	7.25	18.58	0.700	3.20	168	131	1.00	200	
0928	5.95	17.72	0.741	1.01	126	167	1.00		
0931	5.72	17.56	0.744	0.77	107	173	1.00	↓	
0934	5.51	17.45	0.744	0.65	62.8	174	1.00		
0937	5.46	17.43	0.744	0.59	58.4	178	1.00	200	
0940	5.43	17.45	0.744	0.57	58.4	180	1.00	↓	
0943	5.39	17.42	0.744	0.53	56.9	182	1.00		
0946	5.40	17.39	0.744	0.52	58.6	184	1.00		
0949	5.42	17.36	0.744	0.50	53.6	182	1.00	200	
0952	5.39	17.45	0.744	0.48	53.2	184	1.00	↓	
0955	5.37	17.44	0.744	0.47	53.4	183	1.00	200	
0958	collect sample								

Certified Sample Information:

Time of Sample: 0958 Analyst Signature: Radhika Patel

Instrument Data:

Manufacturer/Model: Horiba U52

Serial No. Unit: J1MSHOAC Serial No. Handheld: XE501NTJ

Calibration Date/Time: 9/29/20

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

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

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-12S
Sample I.D.: MW-12S-20200929 (If different from well no.)

Project: Patchogue
Personnel: RNP, RFS

Date: 9/29/20 Time: 1020
Weather: overcast Air Temp.: 71

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: 1.55 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: 150 mL/min Elapsed Time: 30 min Volume Pumped: 1.5 gal
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed:
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

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

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

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

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

Signature: Pradhita Patel Date: 9/29/20

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

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

Project Name: Patchogue
Project Number: ~~150~~ 153021
Client: National Grid
Date: 9/29/20
Personnel: RNP, RES
Well ID: MW-12S
Purge/Sample Depth: 10 ft
Sample ID: MW-12S-20200929

Actual Time	Certified Parameters: pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)	ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
1022	6.27	20.91	0.338	1.60	136	151	1.55	150	
1025	6.53	20.98	0.337	0.82	117	144	1.55	↓	
1028	6.58	20.95	0.342	0.58	110	143	1.55	↓	
1031	6.63	20.94	0.355	0.49	108	139	1.55	↓	
1034	6.63	20.89	0.363	0.44	106	138	1.55	150	
1037	6.67	20.87	0.369	0.45	95.7	137	1.55	↓	
1040	6.65	20.82	0.371	0.43	88.9	133	1.55	↓	
1043	6.71	20.79	0.373	0.41	88.2	131	1.55	↓	
1046	6.70	20.74	0.375	0.40	77.5	127	1.55	150	
1049	6.68	20.70	0.378	0.40	74.5	123	1.55	↓	
1052	6.73	20.65	0.379	0.40	77.8	112	1.55	150	
1055	collect sample								

Certified Sample Information:
Time of Sample: 1055
Analyst Signature: Radhika Patel

Instrument Data:
Manufacturer/Model: Horiba U52
Serial No. Unit: J1MSHOAC
Serial No. Handheld: XES01NTJ
Calibration Date/Time: 9/29/20

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

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

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-12D
Sample I.D.: MW-12D-20200929 (if different from well no.)

Project: Patchogue
Personnel: RNP, RES

Date: 9/29/20 Time: 1057
Weather: cloudy Air Temp.: 71

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: _____ ft Bottom of Well: _____ ft
DATUM: ☐ Top of Protective Casing ☑ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☑ Yes ☐ No Is well clean to bottom? ☐ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☑ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost-heaved) ☑ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☑ NA Is Inner Casing Intact? ☑ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☐ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

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

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

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

SAMPLING DATA:

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

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

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

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

Signature: Rodlinda Patel Date: 9/29/20

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

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

Project Name:	Patchogue	Project Number:	153021
Client:	National Grid	Date:	9/29/20
Personnel:	RNP, BES	Well ID:	MW-12D
Purge/Sample Depth:	20 ft	Sample ID:	MW-12D-20200929

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1100	6.57	20.79	0.494	4.22	28.5	117	1.37	200	
1103	5.74	18.52	0.539	0.92	29.9	157	1.38	↓	
1106	5.56	18.13	0.546	0.49	25.4	165	1.38	↓	
1109	5.41	17.87	0.549	0.37	23.6	169	1.38	↓	
1112	5.37	17.80	0.551	0.32	24.2	170	1.38	200	
1115	5.40	17.74	0.551	0.30	23.3	173	1.38	↓	
1118	5.36	17.64	0.552	0.28	23.4	174	1.38	↓	
1121	5.31	17.62	0.553	0.27	21.8	176	1.38	200	
1124	5.33	17.60	0.553	0.26	22.2	178	1.38	↓	
1127	5.34	17.60	0.553	0.26	21.9	179	1.38	↓	
1130	5.32	17.60	0.553	0.25	21.6	176	1.38	200	
1133	collect sample								

Certified Sample Information:
Time of Sample: 1133 Analyst Signature: RNP

Instrument Data:
Manufacturer/Model: Horiba U52
Serial No. Unit: ~~3AL~~ J1M5H0AC Serial No. Handheld: XE501NTJ
Calibration Date/Time: 9/29/20

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

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

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-45
Sample I.D.: MW-45-20200929 (If different from well no.)

Project: Patchogue
Personnel: RNP, RES

Date: 9/29/20 Time: 1236
Weather: cloudy Air Temp.: 72°F

WELL DATA:

Casing Diameter: 4" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 4.94 ft Bottom of Well: _____ ft
DATUM: ☐ Top of Protective Casing ☑ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☑ Yes ☐ No Is well clean to bottom? ☐ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☑ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☑ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☑ NA Is Inner Casing Intact? ☑ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☑ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

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

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

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

SAMPLING DATA:

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

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

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

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

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

Signature: Radhika Patel Date: 09/29/20

Brown AND Caldwell

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

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

Project Name:	Patchogue	Project Number:	153021
Client:	National Grid	Date:	9/29/20
Personnel:	RNP, RES	Well ID:	MW-4S
Purge/Sample Depth:	9 ft	Sample ID:	MW-4S-20200929

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1237	6.19	21.20	0.645	3.30	23.5	132	4.94	200	
1240	6.69	20.13	0.665	1.34	17.9	22	4.96		
1243	6.90	19.75	0.668	1.42	15.9	-33	5.00		
1246	6.88	19.67	0.668	1.69	15.4	-66	5.00		
1249	6.95	19.67	0.666	1.73	14.5	-86	5.00		
1252	7.00	19.63	0.667	1.74	14.2	-101	5.00	200	
1255	7.02	19.61	0.666	1.86	15.0	-107	5.00		
1258	7.00	19.60	0.667	2.07	14.2	-114	5.00		
1301	7.05	19.60	0.665	2.30	13.7	-120	5.00		
1304	7.05	19.59	0.665	2.15	13.9	-124	5.00		
1307	7.07	19.57	0.665	2.36	13.9	-129	5.00	200	
1310	collect sample								slight-mod onsite moth ball-like odor, slight sheen on purge water

Certified Sample Information:

Time of Sample: 1310 Analyst Signature: Radhaba Patel

Instrument Data:

Manufacturer/Model: Horiba U52

Serial No. Unit: J2M5HOAC Serial No. Handheld: XE501NTJ

Calibration Date/Time: 9/29/20

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

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

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-11D
Sample I.D.: MW-11D-20200930 (if different from well no.)

Project: Patchogue
Personnel: RNP, RES

Date: 9/30/20 Time: 748
Weather: drizzle, cloudy Air Temp.: 67°

WELL DATA:

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

PURGE DATA:

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

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

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

SAMPLING DATA:

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

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

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

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

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

Signature: Rachel Perott Date: 9/30/20

Brown AND Caldwell

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

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

Project Name: Patchogue
Client: National Grid
Personnel: RNP, RES
Purge/Sample Depth: 20 ft

Project Number: 153021
Date: 9/30/20
Well ID: MW-11D
Sample ID: MW-11D-20200930

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
0752	7.30	20.21	0.357	4.55	155	131	0.84	250	
0755	~~6.85~~	18.45	0.364	2.44	179	139	0.84	↓	
0758	6.81	18.23	0.369	2.25	152	127	0.84	↓	
0801	6.77	18.11	0.375	2.13	130	124	0.86	↓	
0804	6.72	17.97	0.381	2.00	101	110	0.86	↓	
0807	6.72	17.89	0.387	1.94	84.9	~~6.72~~	0.86	250	
0810	6.74	17.85	0.388	1.93	76.5	90	0.86	↓	
0813	6.74	17.78	0.393	1.86	66.4	72	0.85	↓	
0816	6.70	17.74	0.393	1.84	64.1	66	0.85	↓	
0819	6.75	17.66	0.398	1.88	54.4	52	0.85	↓	
0822	6.69	17.63	0.400	1.83	50.2	47	0.85	250	
0825	collect sample								

RP

Certified Sample Information:
Time of Sample: 0825
Analyst Signature: Radhika Patel

Instrument Data:
Manufacturer/Model: Horiba U52
Serial No. Unit: J1M5HOAC
Serial No. Handheld: XF501NTJ
Calibration Date/Time: 9/30/20

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

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

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-11S
Sample I.D.: MW-11S-20200929 (If different from well no.)

Project: Patchogue
Personnel: RNP, RES

Date: 9/29/20 Time: 1415
Weather: Overcast Air Temp.: 72° F

WELL DATA:

Casing Diameter: 2" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other:
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 0.9 ft Bottom of Well: ft
DATUM: ☐ Top of Protective Casing ☑ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☑ Yes ☐ No Is well clean to bottom? ☐ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☑ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☑ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☑ NA Is Inner Casing Intact? ☐ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☑ Yes ☐ No
VOLUME OF WATER: Standing in well: — To be purged: —

PURGE DATA:

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

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

Pumping Rate: 300 mL/min Elapsed Time: 33 min Volume Pumped: 3 gal
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed:
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

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

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

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

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

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

Signature: Radhika Patel Date: 9/29/20

Brown AND Caldwell

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

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

Project Name:	Patchogue	Project Number:	153021
Client:	National Grid	Date:	9/29/20
Personnel:	RNP, RES	Well ID:	MW-11S
Purge/Sample Depth:	9 ft	Sample ID:	MW-11S-20200929

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1417	6.50	22.29	0.550	1.01	226	10	0.90	300	
1420	6.63	22.24	0.574	0.98	190	-23	0.90		
1423	6.67	22.18	0.576	1.04	153	-40	0.90		
1426	6.68	22.11	0.574	1.31	125	-50	0.90		
1429	6.68	22.06	0.576	1.30	131	-57	0.90		
1432	6.68	22.00	0.577	1.43	131	-60	0.90		
1435	6.70	21.85	0.582	1.26	124	-67	0.90		
1438	6.71	21.71	0.584	1.82	119	-64	0.90		
1441	6.69	21.62	0.585	1.45	114	-71	0.90		
1444	6.70	21.51	0.585	1.54	53.7	-69	0.90		slight sheen on purge water
1447	6.70	21.46	0.584	1.38	44.2	-72	0.90		slight moth-ball like odor
1450	6.73	21.44	0.584	1.63	37.6	-72	0.90		
1453	collect sample								

Certified Sample Information:
Time of Sample: 1453 Analyst Signature: Radhika Patel

Instrument Data:
Manufacturer/Model: Horiba U52
Serial No. Unit: J1MSHDAC Serial No. Handheld: XE501NTJ
Calibration Date/Time: 9/29/20

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

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

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-4D
Sample I.D.: MW-4D-20200929 (If different from well no.)

Project: Patchogue
Personnel: RNP, RES

Date: 9/29/20 Time: 1313
Weather: overcast Air Temp.: 72°F

WELL DATA:

Casing Diameter: 4" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 4.6 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: 1.75 gal
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

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

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

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

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

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

Signature: Radhika Patel Date: 9/29/20

Brown AND Caldwell

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

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

Project Name: Patchogue
Client: National Grid
Personnel: RNP, RES
Purge/Sample Depth: 22 ft

Project Number: ~~150~~ 153021
Date: 9/29/20
Well ID: MW-4D
Sample ID: MW-4D-20200929

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1316	7.46	19.79	0.176	2.86	14.5	-113	4.60	175	
1319	6.98	19.03	0.174	1.87	14.7	-86	4.60		
1322	6.76	18.80	0.170	0.89	14.8	-55	4.60		
1325	6.56	18.51	0.170	0.57	14.9	-31	4.60		
1328	6.45	18.44	0.170	0.46	14.5	-23	4.60		
1331	6.44	18.36	0.171	0.42	13.7	-14	4.60	175	
1334	6.35	18.31	0.170	0.37	13.2	-12	4.60		
1337	6.33	18.24	0.171	0.32	13.1	-5	4.60		
1340	6.28	18.27	0.171	0.34	12.3	3	4.60		
1343	6.22	18.22	0.172	0.31	11.7	9	4.60		
1346	6.26	18.19	0.171	0.29	11.8	11	4.60	175	
1349	collect sample								

Certified Sample Information:
Time of Sample: 1349
Analyst Signature: Radhika Patel

Instrument Data:
Manufacturer/Model: Horiba U52
Serial No. Unit: J1M5HOAC
Serial No. Handheld: XES01NTJ
Calibration Date/Time: 9/29/20

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

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

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-3
Sample I.D.: MW-3-20200930 (If different from well no.)

Project: Patchogue
Personnel: RNP, RES

Date: 9/30/20 Time: 0935
Weather: rain Air Temp.: 66°F

WELL DATA:

Casing Diameter: 8" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other:
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 1.60 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: 250 mL/min Elapsed Time: 30 min Volume Pumped: 2.5 gal
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed:
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

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

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

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

DUP : RNP ☐ No ☑ Yes Name: DUP-20200930
MS/MSD : ☑ No ☐ Yes Name:

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

Signature: Rondika Patil Date: 9/30/20

Brown AND Caldwell

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

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

Project Name: Patchogue
Client: National Grid
Personnel: RNP, RFS
Purge/Sample Depth: 7.5 ft

Project Number: 153021
Date: 9/30/20
Well ID: MW-3
Sample ID: MW-3-20200930

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
0843	7.16	20.23	0.557	2.24	36.3	-27	1.63	250	
0846	8.67	20.60	0.591	3.49	35.2	-161	1.63		
0849	9.31	20.63	0.613	4.38	34.3	-194	1.63		
0852	9.60	20.63	0.632	3.74	34.1	-212	1.63		
0855	9.71	20.63	0.645	2.80	25.0	-229	1.63		
0858	9.80	20.65	0.655	2.04	23.6	-244	1.63		
0901	9.84	20.66	0.661	1.80	24.0	-252	1.63	250	
0904	9.90	20.67	0.664	1.59	25.6	-259	1.63		
0907	9.91	20.67	0.671	1.54	26.4	-272	1.62		
0910	10.01	20.67	0.676	1.46	27.0	-280	1.60		
0913	10.01	20.67	0.680	1.40	28.0	-289	1.60	250	
0916	collect sample								moderate moth-ball like odor

Certified Sample Information:
Time of Sample: 0916
Analyst Signature: Rnddiba Patel

Instrument Data:
Manufacturer/Model: Horiba U52
Serial No. Unit: J1MSHOAC
Serial No. Handheld: XE501NTJ
Calibration Date/Time: 9/30/20

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

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

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-13S
Sample I.D.: MW-13S-20200930 (if different from well no.)

Project: Patchogue
Personnel: RNP, RES

Date: 9/30/20 Time: 0925
Weather: rain Air Temp.: 63° F

WELL DATA:

Casing Diameter: 2" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other:
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 1.13 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: brown ☐ 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: Radhika Patel Date: 9/30/20

Brown AND Caldwell

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

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

Project Name: Patchogue
Client: National Grid
Personnel: RNP, AES
Purge/Sample Depth: 10 ft

Project Number: 153021
Date: 9/30/20
Well ID: MW-135
Sample ID: MW-135-20200930

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
0932	9.44	20.70	0.721	0.39	139	-132	1.18		
0935	9.34	20.51	0.723	1.19	148	-249	1.23		
0938	9.34	20.37	0.729	2.90	144	-294	1.23		
0941	9.35	20.30	0.737	4.05	162	-313	1.22		
0944	9.35	20.28	0.741	4.65	169	-324	1.20		
0947	9.45	20.27	0.743	5.01	170	-343	1.20		
0950	9.45	20.29	0.744	5.15	160	-348	1.20		
0953	9.53	20.33	0.746	5.30	161	-355	1.20		
0956	9.61	20.36	0.748	5.33	162	-362	1.20		
0959	9.57	20.35	0.750	5.22	157	-366			
1002	9.54	20.34	0.751	5.27	152	-371			
1005	collect sample								strong meth-like odor

Certified Sample Information:
Time of Sample: 1005
Analyst Signature: Radhika Patel

Instrument Data:
Manufacturer/Model: Horiba U52
Serial No. Unit: J1MSHOAC
Serial No. Handheld: XES01NTJ
Calibration Date/Time: 9/30/20

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

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

Brown AND Caldwell — Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-13D
Sample I.D.: MW-13D-20200930 (if different from well no.)

Project: Patchogue
Personnel: RVP, RES

Date: 9/30/20 Time: 1010
Weather: partly cloudy Air Temp.: 64°F

WELL DATA:

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

PURGE DATA:

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

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

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

SAMPLING DATA:

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

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

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

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

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

Signature: Radhika Patil Date: 9/30/20

Brown AND Caldwell

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

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

Project Name: Patchogue
Client: National Grid
Personnel: RNP, RES
Purge/Sample Depth: 20 ft

Project Number: 153021
Date: 9/30/20
Well ID: MW-13D
Sample ID: MW-13D-20200930

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1014	8.82	19.40	0.432	1.39	118	-169	1.19	225	
1017	7.68	17.88	0.417	0.43	153	-104	1.19	↓	
1020	7.35	17.66	0.411	0.35	138	-87	1.19	↓	
1023	7.13	17.56	0.411	0.32	110	-73	1.19	↓	
1026	6.96	17.47	0.408	0.31	76.1	-57	1.19	↓	
1029	6.86	17.39	0.408	0.31	61.4	-49	1.19	225	
1032	6.77	17.40	0.407	0.31	54.0	-43	1.19	↓	
1035	6.70	17.33	0.407	0.28	43.1	-36	1.19	↓	
1038	6.65	17.33	0.407	0.24	36.0	-29	1.19	↓	
1041	6.62	17.29	0.407	0.24	33.4	-25	1.19	↓	
1044	6.62	17.30	0.407	0.25	30.2	-22	1.19	225	
1047	collect sample								

Certified Sample Information:
Time of Sample: 1047
Analyst Signature: Radhika Patel

Instrument Data:
Manufacturer/Model: Horiba U52
Serial No. Unit: J1MSH0AC
Serial No. Handheld: XE501NTJ
Calibration Date/Time: 9/30/20

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: 410-15514-1

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
10/8/2020 9:18 AM

Barbara A Weyandt, Project Manager
2425 New Holland Pike, Lancaster, PA, 17601
(717)556-7264
barbaraweyandt@eurofinsus.com
10/08/2020

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: 410-15514-1

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 recoveries that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result.

* 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 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. 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 LANACASTER 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. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Job Narrative
410-15514-1

Receipt
The samples were received on 9/30/2020 10:34 AM; the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.8°C and 3.0°C

Receipt Exceptions
The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): MW-8S-20200928 (410-15514-6). The container labels list 16:35, while the COC lists 16:32.

GC/MS VOA
Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MW-1-20200928 (410-15514-1) and MW-11S-20200929 (410-15514-15). Elevated reporting limits (RLs) are provided.

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

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

Sample Summary

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

Job ID: 410-15514-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-15514-1	MW-1-20200928	Ground Water	09/28/20 11:21	09/30/20 10:34	
410-15514-2	MW-10S-20200928	Ground Water	09/28/20 13:21	09/30/20 10:34	
410-15514-3	MW-10D-20200928	Ground Water	09/28/20 13:57	09/30/20 10:34	
410-15514-4	MW-7S-20200928	Ground Water	09/28/20 15:02	09/30/20 10:34	
410-15514-5	MW-7D-20200928	Ground Water	09/28/20 15:40	09/30/20 10:34	
410-15514-6	MW-8S-20200928	Ground Water	09/28/20 16:32	09/30/20 10:34	
410-15514-7	MW-8D-20200929	Ground Water	09/29/20 08:27	09/30/20 10:34	
410-15514-8	MW-14S-20200929	Ground Water	09/29/20 09:18	09/30/20 10:34	
410-15514-9	MW-14D-20200929	Ground Water	09/29/20 09:58	09/30/20 10:34	
410-15514-10	FB-20200929	Water	09/29/20 10:10	09/30/20 10:34	
410-15514-11	MW-12S-20200929	Ground Water	09/29/20 10:55	09/30/20 10:34	
410-15514-12	MW-12D-20200929	Ground Water	09/29/20 11:33	09/30/20 10:34	
410-15514-13	MW-4S-20200929	Ground Water	09/29/20 13:10	09/30/20 10:34	
410-15514-14	MW-4D-20200929	Ground Water	09/29/20 13:49	09/30/20 10:34	
410-15514-15	MW-11S-20200929	Ground Water	09/29/20 14:53	09/30/20 10:34	
410-15514-16	TB-20200929	Water	09/29/20 00:00	09/30/20 10:34	

Detection Summary

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

Job ID: 410-15514-1

Client Sample ID: MW-1-20200928 — Lab Sample ID: 410-15514-1

No Detections.

Client Sample ID: MW-10S-20200928 — Lab Sample ID: 410-15514-2

No Detections.

Client Sample ID: MW-10D-20200928 — Lab Sample ID: 410-15514-3

No Detections.

Client Sample ID: MW-7S-20200928 — Lab Sample ID: 410-15514-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.44	J	1.0	0.20	ug/L	1		8260C	Total/NA

Client Sample ID: MW-7D-20200928 — Lab Sample ID: 410-15514-5

No Detections.

Client Sample ID: MW-8S-20200928 — Lab Sample ID: 410-15514-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.21	J	0.51	0.10	ug/L	1		8270D	Total/NA

Client Sample ID: MW-8D-20200929 — Lab Sample ID: 410-15514-7

No Detections.

Client Sample ID: MW-14S-20200929 — Lab Sample ID: 410-15514-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.12	J	0.50	0.10	ug/L	1		8270D	Total/NA

Client Sample ID: MW-14D-20200929 — Lab Sample ID: 410-15514-9

No Detections.

Client Sample ID: FB-20200929 — Lab Sample ID: 410-15514-10

No Detections.

Client Sample ID: MW-12S-20200929 — Lab Sample ID: 410-15514-11

No Detections.

Client Sample ID: MW-12D-20200929 — Lab Sample ID: 410-15514-12

No Detections.

Client Sample ID: MW-4S-20200929 — Lab Sample ID: 410-15514-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.0		1.0	0.20	ug/L	1		8260C	Total/NA
Acenaphthene	23		0.52	0.10	ug/L	1		8270D	Total/NA
Anthracene	0.48	J	0.52	0.10	ug/L	1		8270D	Total/NA
Fluoranthene	2.9		0.52	0.10	ug/L	1		8270D	Total/NA
Fluorene	7.3		0.52	0.10	ug/L	1		8270D	Total/NA
Phenanthrene	3.3		0.52	0.10	ug/L	1		8270D	Total/NA
Pyrene	4.4		0.52	0.10	ug/L	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 410-15514-1

Client Sample ID: MW-4D-20200929 — Lab Sample ID: 410-15514-14

No Detections.

Client Sample ID: MW-11S-20200929 — Lab Sample ID: 410-15514-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.9	J	5.0	1.0	ug/L	5		8260C	Total/NA
Acenaphthene	64		0.50	0.10	ug/L	1		8270D	Total/NA
Anthracene	4.9		0.50	0.10	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.40	J	0.50	0.10	ug/L	1		8270D	Total/NA
Chrysene	0.45	J	0.50	0.10	ug/L	1		8270D	Total/NA
Fluoranthene	5.4		0.50	0.10	ug/L	1		8270D	Total/NA
Fluorene	14		0.50	0.10	ug/L	1		8270D	Total/NA
Naphthalene	4.5		0.50	0.10	ug/L	1		8270D	Total/NA
Phenanthrene	26		0.50	0.10	ug/L	1		8270D	Total/NA
Pyrene	7.0		0.50	0.10	ug/L	1		8270D	Total/NA

Client Sample ID: TB-20200929 — Lab Sample ID: 410-15514-16

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 410-15514-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8270D	Semivolatile Organic Compounds (GC/MS)	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-1-20200928

Lab Sample ID: 410-15514-1

Date Collected: 09/28/20 11:21

Matrix: Ground Water

Date Received: 09/30/20 10:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0	1.0	ug/L			10/05/20 15:37	5
Ethylbenzene	ND		5.0	2.0	ug/L			10/05/20 15:37	5
Toluene	ND		5.0	1.0	ug/L			10/05/20 15:37	5
Xylenes, Total	ND		30	7.0	ug/L			10/05/20 15:37	5
Methyl tertiary butyl ether	ND		5.0	1.0	ug/L			10/05/20 15:37	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*10/05/20 15:37*	*5*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*10/05/20 15:37*	*5*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*10/05/20 15:37*	*5*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/05/20 15:37*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 20:59	1
Acenaphthylene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 20:59	1
Anthracene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 20:59	1
Benzo[a]anthracene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 20:59	1
Benzo[a]pyrene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 20:59	1
Benzo[b]fluoranthene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 20:59	1
Benzo[g,h,i]perylene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 20:59	1
Benzo[k]fluoranthene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 20:59	1
Chrysene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 20:59	1
Dibenz(a,h)anthracene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 20:59	1
Fluoranthene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 20:59	1
Fluorene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 20:59	1
Indeno[1,2,3-cd]pyrene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 20:59	1
Naphthalene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 20:59	1
Phenanthrene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 20:59	1
Pyrene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*44 - 102*	*10/05/20 09:20*	*10/06/20 20:59*	*1*
Nitrobenzene-d5 (Surr)	*83*		*38 - 113*	*10/05/20 09:20*	*10/06/20 20:59*	*1*
p-Terphenyl-d14 (Surr)	*81*		*34 - 128*	*10/05/20 09:20*	*10/06/20 20:59*	*1*

Client Sample ID: MW-10S-20200928

Lab Sample ID: 410-15514-2

Date Collected: 09/28/20 13:21

Matrix: Ground Water

Date Received: 09/30/20 10:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.20	ug/L			10/05/20 15:59	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/05/20 15:59	1
Toluene	ND		1.0	0.20	ug/L			10/05/20 15:59	1
Xylenes, Total	ND		6.0	1.4	ug/L			10/05/20 15:59	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/05/20 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*10/05/20 15:59*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*10/05/20 15:59*	*1*

Client Sample ID: MW-10S-20200928

Date Collected: 09/28/20 13:21
Date Received: 09/30/20 10:34

Lab Sample ID: 410-15514-2

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*		*10/05/20 15:59*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/05/20 15:59*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 21:28	1
Acenaphthylene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 21:28	1
Anthracene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 21:28	1
Benzo[a]anthracene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 21:28	1
Benzo[a]pyrene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 21:28	1
Benzo[b]fluoranthene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 21:28	1
Benzo[g,h,i]perylene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 21:28	1
Benzo[k]fluoranthene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 21:28	1
Chrysene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 21:28	1
Dibenz(a,h)anthracene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 21:28	1
Fluoranthene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 21:28	1
Fluorene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 21:28	1
Indeno[1,2,3-cd]pyrene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 21:28	1
Naphthalene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 21:28	1
Phenanthrene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 21:28	1
Pyrene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*79*		*44 - 102*	*10/05/20 09:20*	*10/06/20 21:28*	*1*
Nitrobenzene-d5 (Surr)	*92*		*38 - 113*	*10/05/20 09:20*	*10/06/20 21:28*	*1*
p-Terphenyl-d14 (Surr)	*65*		*34 - 128*	*10/05/20 09:20*	*10/06/20 21:28*	*1*

Client Sample ID: MW-10D-20200928

Date Collected: 09/28/20 13:57
Date Received: 09/30/20 10:34

Lab Sample ID: 410-15514-3

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	0.20	ug/L			10/05/20 16:21	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/05/20 16:21	1
Toluene	ND		1.0	0.20	ug/L			10/05/20 16:21	1
Xylenes, Total	ND		6.0	1.4	ug/L			10/05/20 16:21	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/05/20 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*10/05/20 16:21*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*10/05/20 16:21*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*10/05/20 16:21*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/05/20 16:21*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/05/20 23:55	1
Acenaphthylene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/05/20 23:55	1
Anthracene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/05/20 23:55	1

Client Sample ID: MW-10D-20200928

Date Collected: 09/28/20 13:57
Date Received: 09/30/20 10:34

Lab Sample ID: 410-15514-3

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/05/20 23:55	1
Benzo[a]pyrene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/05/20 23:55	1
Benzo[b]fluoranthene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/05/20 23:55	1
Benzo[g,h,i]perylene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/05/20 23:55	1
Benzo[k]fluoranthene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/05/20 23:55	1
Chrysene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/05/20 23:55	1
Dibenz(a,h)anthracene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/05/20 23:55	1
Fluoranthene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/05/20 23:55	1
Fluorene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/05/20 23:55	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/05/20 23:55	1
Naphthalene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/05/20 23:55	1
Phenanthrene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/05/20 23:55	1
Pyrene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/05/20 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*44 - 102*	*10/05/20 09:20*	*10/05/20 23:55*	*1*
Nitrobenzene-d5 (Surr)	*91*		*38 - 113*	*10/05/20 09:20*	*10/05/20 23:55*	*1*
p-Terphenyl-d14 (Surr)	*63*		*34 - 128*	*10/05/20 09:20*	*10/05/20 23:55*	*1*

Client Sample ID: MW-7S-20200928

Date Collected: 09/28/20 15:02
Date Received: 09/30/20 10:34

Lab Sample ID: 410-15514-4

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.44**	**J**	1.0	0.20	ug/L			10/05/20 17:28	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/05/20 17:28	1
Toluene	ND		1.0	0.20	ug/L			10/05/20 17:28	1
Xylenes, Total	ND		6.0	1.4	ug/L			10/05/20 17:28	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/05/20 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*10/05/20 17:28*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*10/05/20 17:28*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*10/05/20 17:28*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/05/20 17:28*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 21:57	1
Acenaphthylene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 21:57	1
Anthracene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 21:57	1
Benzo[a]anthracene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 21:57	1
Benzo[a]pyrene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 21:57	1
Benzo[b]fluoranthene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 21:57	1
Benzo[g,h,i]perylene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 21:57	1
Benzo[k]fluoranthene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 21:57	1
Chrysene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 21:57	1
Dibenz(a,h)anthracene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 21:57	1
Fluoranthene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 21:57	1
Fluorene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 21:57	1

Client Sample ID: MW-7S-20200928

Date Collected: 09/28/20 15:02
Date Received: 09/30/20 10:34

Lab Sample ID: 410-15514-4

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 21:57	1
Naphthalene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 21:57	1
Phenanthrene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 21:57	1
Pyrene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*44 - 102*	*10/05/20 09:20*	*10/06/20 21:57*	*1*
Nitrobenzene-d5 (Surr)	*96*		*38 - 113*	*10/05/20 09:20*	*10/06/20 21:57*	*1*
p-Terphenyl-d14 (Surr)	*62*		*34 - 128*	*10/05/20 09:20*	*10/06/20 21:57*	*1*

Client Sample ID: MW-7D-20200928

Date Collected: 09/28/20 15:40
Date Received: 09/30/20 10:34

Lab Sample ID: 410-15514-5

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	0.20	ug/L			10/05/20 17:50	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/05/20 17:50	1
Toluene	ND		1.0	0.20	ug/L			10/05/20 17:50	1
Xylenes, Total	ND		6.0	1.4	ug/L			10/05/20 17:50	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/05/20 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*10/05/20 17:50*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*10/05/20 17:50*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*10/05/20 17:50*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/05/20 17:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 22:26	1
Acenaphthylene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 22:26	1
Anthracene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 22:26	1
Benzo[a]anthracene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 22:26	1
Benzo[a]pyrene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 22:26	1
Benzo[b]fluoranthene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 22:26	1
Benzo[g,h,i]perylene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 22:26	1
Benzo[k]fluoranthene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 22:26	1
Chrysene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 22:26	1
Dibenz(a,h)anthracene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 22:26	1
Fluoranthene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 22:26	1
Fluorene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 22:26	1
Indeno[1,2,3-cd]pyrene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 22:26	1
Naphthalene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 22:26	1
Phenanthrene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 22:26	1
Pyrene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*44 - 102*	*10/05/20 09:20*	*10/06/20 22:26*	*1*
Nitrobenzene-d5 (Surr)	*83*		*38 - 113*	*10/05/20 09:20*	*10/06/20 22:26*	*1*
p-Terphenyl-d14 (Surr)	*48*		*34 - 128*	*10/05/20 09:20*	*10/06/20 22:26*	*1*

Client Sample ID: MW-8S-20200928

Date Collected: 09/28/20 16:32
Date Received: 09/30/20 10:34

Lab Sample ID: 410-15514-6

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	0.20	ug/L			10/05/20 18:12	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/05/20 18:12	1
Toluene	ND		1.0	0.20	ug/L			10/05/20 18:12	1
Xylenes, Total	ND		6.0	1.4	ug/L			10/05/20 18:12	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/05/20 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*10/05/20 18:12*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*10/05/20 18:12*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*10/05/20 18:12*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/05/20 18:12*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.21**	**J**	0.51	0.10	ug/L		10/05/20 09:20	10/06/20 22:55	1
Acenaphthylene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 22:55	1
Anthracene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 22:55	1
Benzo[a]anthracene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 22:55	1
Benzo[a]pyrene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 22:55	1
Benzo[b]fluoranthene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 22:55	1
Benzo[g,h,i]perylene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 22:55	1
Benzo[k]fluoranthene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 22:55	1
Chrysene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 22:55	1
Dibenz(a,h)anthracene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 22:55	1
Fluoranthene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 22:55	1
Fluorene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 22:55	1
Indeno[1,2,3-cd]pyrene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 22:55	1
Naphthalene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 22:55	1
Phenanthrene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 22:55	1
Pyrene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/06/20 22:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*85*		*44 - 102*	*10/05/20 09:20*	*10/06/20 22:55*	*1*
Nitrobenzene-d5 (Surr)	*96*		*38 - 113*	*10/05/20 09:20*	*10/06/20 22:55*	*1*
p-Terphenyl-d14 (Surr)	*77*		*34 - 128*	*10/05/20 09:20*	*10/06/20 22:55*	*1*

Client Sample ID: MW-8D-20200929

Date Collected: 09/29/20 08:27
Date Received: 09/30/20 10:34

Lab Sample ID: 410-15514-7

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	0.20	ug/L			10/05/20 18:34	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/05/20 18:34	1
Toluene	ND		1.0	0.20	ug/L			10/05/20 18:34	1
Xylenes, Total	ND		6.0	1.4	ug/L			10/05/20 18:34	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/05/20 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*10/05/20 18:34*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*10/05/20 18:34*	*1*

Client Sample ID: MW-8D-20200929

Date Collected: 09/29/20 08:27
Date Received: 09/30/20 10:34

Lab Sample ID: 410-15514-7

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*		*10/05/20 18:34*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/05/20 18:34*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/06/20 23:25	1
Acenaphthylene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/06/20 23:25	1
Anthracene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/06/20 23:25	1
Benzo[a]anthracene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/06/20 23:25	1
Benzo[a]pyrene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/06/20 23:25	1
Benzo[b]fluoranthene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/06/20 23:25	1
Benzo[g,h,i]perylene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/06/20 23:25	1
Benzo[k]fluoranthene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/06/20 23:25	1
Chrysene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/06/20 23:25	1
Dibenz(a,h)anthracene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/06/20 23:25	1
Fluoranthene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/06/20 23:25	1
Fluorene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/06/20 23:25	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/06/20 23:25	1
Naphthalene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/06/20 23:25	1
Phenanthrene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/06/20 23:25	1
Pyrene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/06/20 23:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*90*		*44 - 102*	*10/05/20 09:20*	*10/06/20 23:25*	*1*
Nitrobenzene-d5 (Surr)	*100*		*38 - 113*	*10/05/20 09:20*	*10/06/20 23:25*	*1*
p-Terphenyl-d14 (Surr)	*61*		*34 - 128*	*10/05/20 09:20*	*10/06/20 23:25*	*1*

Client Sample ID: MW-14S-20200929

Date Collected: 09/29/20 09:18
Date Received: 09/30/20 10:34

Lab Sample ID: 410-15514-8

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	0.20	ug/L			10/05/20 18:55	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/05/20 18:55	1
Toluene	ND		1.0	0.20	ug/L			10/05/20 18:55	1
Xylenes, Total	ND		6.0	1.4	ug/L			10/05/20 18:55	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/05/20 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*10/05/20 18:55*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*10/05/20 18:55*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*10/05/20 18:55*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/05/20 18:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.12**	**J**	0.50	0.10	ug/L		10/05/20 09:20	10/06/20 23:54	1
Acenaphthylene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/06/20 23:54	1
Anthracene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/06/20 23:54	1

Client Sample ID: MW-14S-20200929

Date Collected: 09/29/20 09:18
Date Received: 09/30/20 10:34

Lab Sample ID: 410-15514-8

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/06/20 23:54	1
Benzo[a]pyrene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/06/20 23:54	1
Benzo[b]fluoranthene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/06/20 23:54	1
Benzo[g,h,i]perylene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/06/20 23:54	1
Benzo[k]fluoranthene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/06/20 23:54	1
Chrysene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/06/20 23:54	1
Dibenz(a,h)anthracene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/06/20 23:54	1
Fluoranthene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/06/20 23:54	1
Fluorene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/06/20 23:54	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/06/20 23:54	1
Naphthalene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/06/20 23:54	1
Phenanthrene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/06/20 23:54	1
Pyrene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/06/20 23:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*44 - 102*	*10/05/20 09:20*	*10/06/20 23:54*	*1*
Nitrobenzene-d5 (Surr)	*83*		*38 - 113*	*10/05/20 09:20*	*10/06/20 23:54*	*1*
p-Terphenyl-d14 (Surr)	*78*		*34 - 128*	*10/05/20 09:20*	*10/06/20 23:54*	*1*

Client Sample ID: MW-14D-20200929

Date Collected: 09/29/20 09:58
Date Received: 09/30/20 10:34

Lab Sample ID: 410-15514-9

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	0.20	ug/L			10/05/20 19:18	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/05/20 19:18	1
Toluene	ND		1.0	0.20	ug/L			10/05/20 19:18	1
Xylenes, Total	ND		6.0	1.4	ug/L			10/05/20 19:18	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/05/20 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*10/05/20 19:18*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*10/05/20 19:18*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*10/05/20 19:18*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/05/20 19:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 00:23	1
Acenaphthylene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 00:23	1
Anthracene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 00:23	1
Benzo[a]anthracene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 00:23	1
Benzo[a]pyrene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 00:23	1
Benzo[b]fluoranthene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 00:23	1
Benzo[g,h,i]perylene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 00:23	1
Benzo[k]fluoranthene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 00:23	1
Chrysene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 00:23	1
Dibenz(a,h)anthracene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 00:23	1
Fluoranthene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 00:23	1
Fluorene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 00:23	1

Client Sample ID: MW-14D-20200929

Date Collected: 09/29/20 09:58
Date Received: 09/30/20 10:34

Lab Sample ID: 410-15514-9

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 00:23	1
Naphthalene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 00:23	1
Phenanthrene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 00:23	1
Pyrene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 00:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*44 - 102*	*10/05/20 09:20*	*10/07/20 00:23*	*1*
Nitrobenzene-d5 (Surr)	*89*		*38 - 113*	*10/05/20 09:20*	*10/07/20 00:23*	*1*
p-Terphenyl-d14 (Surr)	*38*		*34 - 128*	*10/05/20 09:20*	*10/07/20 00:23*	*1*

Client Sample ID: FB-20200929

Date Collected: 09/29/20 10:10
Date Received: 09/30/20 10:34

Lab Sample ID: 410-15514-10

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	0.20	ug/L			10/05/20 14:09	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/05/20 14:09	1
Toluene	ND		1.0	0.20	ug/L			10/05/20 14:09	1
Xylenes, Total	ND		6.0	1.4	ug/L			10/05/20 14:09	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/05/20 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*10/05/20 14:09*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*10/05/20 14:09*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*10/05/20 14:09*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/05/20 14:09*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 00:52	1
Acenaphthylene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 00:52	1
Anthracene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 00:52	1
Benzo[a]anthracene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 00:52	1
Benzo[a]pyrene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 00:52	1
Benzo[b]fluoranthene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 00:52	1
Benzo[g,h,i]perylene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 00:52	1
Benzo[k]fluoranthene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 00:52	1
Chrysene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 00:52	1
Dibenz(a,h)anthracene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 00:52	1
Fluoranthene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 00:52	1
Fluorene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 00:52	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 00:52	1
Naphthalene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 00:52	1
Phenanthrene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 00:52	1
Pyrene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 00:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*89*		*44 - 102*	*10/05/20 09:20*	*10/07/20 00:52*	*1*
Nitrobenzene-d5 (Surr)	*95*		*38 - 113*	*10/05/20 09:20*	*10/07/20 00:52*	*1*
p-Terphenyl-d14 (Surr)	*85*		*34 - 128*	*10/05/20 09:20*	*10/07/20 00:52*	*1*

Client Sample ID: MW-12S-20200929

Lab Sample ID: 410-15514-11

Date Collected: 09/29/20 10:55

Matrix: Ground Water

Date Received: 09/30/20 10:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.20	ug/L			10/05/20 19:40	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/05/20 19:40	1
Toluene	ND		1.0	0.20	ug/L			10/05/20 19:40	1
Xylenes, Total	ND		6.0	1.4	ug/L			10/05/20 19:40	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/05/20 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*10/05/20 19:40*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*10/05/20 19:40*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*10/05/20 19:40*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/05/20 19:40*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 01:21	1
Acenaphthylene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 01:21	1
Anthracene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 01:21	1
Benzo[a]anthracene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 01:21	1
Benzo[a]pyrene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 01:21	1
Benzo[b]fluoranthene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 01:21	1
Benzo[g,h,i]perylene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 01:21	1
Benzo[k]fluoranthene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 01:21	1
Chrysene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 01:21	1
Dibenz(a,h)anthracene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 01:21	1
Fluoranthene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 01:21	1
Fluorene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 01:21	1
Indeno[1,2,3-cd]pyrene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 01:21	1
Naphthalene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 01:21	1
Phenanthrene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 01:21	1
Pyrene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 01:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*44 - 102*	*10/05/20 09:20*	*10/07/20 01:21*	*1*
Nitrobenzene-d5 (Surr)	*92*		*38 - 113*	*10/05/20 09:20*	*10/07/20 01:21*	*1*
p-Terphenyl-d14 (Surr)	*34*		*34 - 128*	*10/05/20 09:20*	*10/07/20 01:21*	*1*

Client Sample ID: MW-12D-20200929

Lab Sample ID: 410-15514-12

Date Collected: 09/29/20 11:33

Matrix: Ground Water

Date Received: 09/30/20 10:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.20	ug/L			10/05/20 20:02	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/05/20 20:02	1
Toluene	ND		1.0	0.20	ug/L			10/05/20 20:02	1
Xylenes, Total	ND		6.0	1.4	ug/L			10/05/20 20:02	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/05/20 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*10/05/20 20:02*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*10/05/20 20:02*	*1*

Client Sample ID: MW-12D-20200929

Date Collected: 09/29/20 11:33
Date Received: 09/30/20 10:34

Lab Sample ID: 410-15514-12

Matrix: Ground Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*10/05/20 20:02*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/05/20 20:02*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 01:50	1
Acenaphthylene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 01:50	1
Anthracene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 01:50	1
Benzo[a]anthracene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 01:50	1
Benzo[a]pyrene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 01:50	1
Benzo[b]fluoranthene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 01:50	1
Benzo[g,h,i]perylene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 01:50	1
Benzo[k]fluoranthene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 01:50	1
Chrysene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 01:50	1
Dibenz(a,h)anthracene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 01:50	1
Fluoranthene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 01:50	1
Fluorene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 01:50	1
Indeno[1,2,3-cd]pyrene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 01:50	1
Naphthalene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 01:50	1
Phenanthrene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 01:50	1
Pyrene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 01:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*75*		*44 - 102*	*10/05/20 09:20*	*10/07/20 01:50*	*1*
Nitrobenzene-d5 (Surr)	*81*		*38 - 113*	*10/05/20 09:20*	*10/07/20 01:50*	*1*
p-Terphenyl-d14 (Surr)	*61*		*34 - 128*	*10/05/20 09:20*	*10/07/20 01:50*	*1*

Client Sample ID: MW-4S-20200929

Date Collected: 09/29/20 13:10
Date Received: 09/30/20 10:34

Lab Sample ID: 410-15514-13

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2.0**		1.0	0.20	ug/L			10/05/20 20:23	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/05/20 20:23	1
Toluene	ND		1.0	0.20	ug/L			10/05/20 20:23	1
Xylenes, Total	ND		6.0	1.4	ug/L			10/05/20 20:23	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/05/20 20:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*10/05/20 20:23*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*10/05/20 20:23*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*10/05/20 20:23*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/05/20 20:23*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**23**		0.52	0.10	ug/L		10/05/20 09:20	10/07/20 02:20	1
Acenaphthylene	ND		0.52	0.10	ug/L		10/05/20 09:20	10/07/20 02:20	1
Anthracene	**0.48**	**J**	0.52	0.10	ug/L		10/05/20 09:20	10/07/20 02:20	1

Client Sample ID: MW-4S-20200929

Date Collected: 09/29/20 13:10
Date Received: 09/30/20 10:34

Lab Sample ID: 410-15514-13

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.52	0.10	ug/L		10/05/20 09:20	10/07/20 02:20	1
Benzo[a]pyrene	ND		0.52	0.10	ug/L		10/05/20 09:20	10/07/20 02:20	1
Benzo[b]fluoranthene	ND		0.52	0.10	ug/L		10/05/20 09:20	10/07/20 02:20	1
Benzo[g,h,i]perylene	ND		0.52	0.10	ug/L		10/05/20 09:20	10/07/20 02:20	1
Benzo[k]fluoranthene	ND		0.52	0.10	ug/L		10/05/20 09:20	10/07/20 02:20	1
Chrysene	ND		0.52	0.10	ug/L		10/05/20 09:20	10/07/20 02:20	1
Dibenz(a,h)anthracene	ND		0.52	0.10	ug/L		10/05/20 09:20	10/07/20 02:20	1
Fluoranthene	**2.9**		0.52	0.10	ug/L		10/05/20 09:20	10/07/20 02:20	1
Fluorene	**7.3**		0.52	0.10	ug/L		10/05/20 09:20	10/07/20 02:20	1
Indeno[1,2,3-cd]pyrene	ND		0.52	0.10	ug/L		10/05/20 09:20	10/07/20 02:20	1
Naphthalene	ND		0.52	0.10	ug/L		10/05/20 09:20	10/07/20 02:20	1
Phenanthrene	**3.3**		0.52	0.10	ug/L		10/05/20 09:20	10/07/20 02:20	1
Pyrene	**4.4**		0.52	0.10	ug/L		10/05/20 09:20	10/07/20 02:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*79*		*44 - 102*	*10/05/20 09:20*	*10/07/20 02:20*	*1*
Nitrobenzene-d5 (Surr)	*95*		*38 - 113*	*10/05/20 09:20*	*10/07/20 02:20*	*1*
p-Terphenyl-d14 (Surr)	*55*		*34 - 128*	*10/05/20 09:20*	*10/07/20 02:20*	*1*

Client Sample ID: MW-4D-20200929

Date Collected: 09/29/20 13:49
Date Received: 09/30/20 10:34

Lab Sample ID: 410-15514-14

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	0.20	ug/L			10/05/20 20:45	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/05/20 20:45	1
Toluene	ND		1.0	0.20	ug/L			10/05/20 20:45	1
Xylenes, Total	ND		6.0	1.4	ug/L			10/05/20 20:45	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/05/20 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*10/05/20 20:45*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*10/05/20 20:45*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*10/05/20 20:45*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/05/20 20:45*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 02:49	1
Acenaphthylene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 02:49	1
Anthracene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 02:49	1
Benzo[a]anthracene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 02:49	1
Benzo[a]pyrene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 02:49	1
Benzo[b]fluoranthene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 02:49	1
Benzo[g,h,i]perylene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 02:49	1
Benzo[k]fluoranthene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 02:49	1
Chrysene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 02:49	1
Dibenz(a,h)anthracene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 02:49	1
Fluoranthene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 02:49	1
Fluorene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 02:49	1

Client Sample ID: MW-4D-20200929

Date Collected: 09/29/20 13:49
Date Received: 09/30/20 10:34

Lab Sample ID: 410-15514-14
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 02:49	1
Naphthalene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 02:49	1
Phenanthrene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 02:49	1
Pyrene	ND		0.51	0.10	ug/L		10/05/20 09:20	10/07/20 02:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*44 - 102*	*10/05/20 09:20*	*10/07/20 02:49*	*1*
Nitrobenzene-d5 (Surr)	*87*		*38 - 113*	*10/05/20 09:20*	*10/07/20 02:49*	*1*
p-Terphenyl-d14 (Surr)	*69*		*34 - 128*	*10/05/20 09:20*	*10/07/20 02:49*	*1*

Client Sample ID: MW-11S-20200929

Date Collected: 09/29/20 14:53
Date Received: 09/30/20 10:34

Lab Sample ID: 410-15514-15
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.9**	**J**	5.0	1.0	ug/L			10/05/20 21:07	5
Ethylbenzene	ND		5.0	2.0	ug/L			10/05/20 21:07	5
Toluene	ND		5.0	1.0	ug/L			10/05/20 21:07	5
Xylenes, Total	ND		30	7.0	ug/L			10/05/20 21:07	5
Methyl tertiary butyl ether	ND		5.0	1.0	ug/L			10/05/20 21:07	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*10/05/20 21:07*	*5*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*10/05/20 21:07*	*5*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*10/05/20 21:07*	*5*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/05/20 21:07*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**64**		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 03:18	1
Acenaphthylene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 03:18	1
Anthracene	**4.9**		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 03:18	1
Benzo[a]anthracene	**0.40**	**J**	0.50	0.10	ug/L		10/05/20 09:20	10/07/20 03:18	1
Benzo[a]pyrene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 03:18	1
Benzo[b]fluoranthene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 03:18	1
Benzo[g,h,i]perylene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 03:18	1
Benzo[k]fluoranthene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 03:18	1
Chrysene	**0.45**	**J**	0.50	0.10	ug/L		10/05/20 09:20	10/07/20 03:18	1
Dibenz(a,h)anthracene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 03:18	1
Fluoranthene	**5.4**		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 03:18	1
Fluorene	**14**		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 03:18	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 03:18	1
Naphthalene	**4.5**		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 03:18	1
Phenanthrene	**26**		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 03:18	1
Pyrene	**7.0**		0.50	0.10	ug/L		10/05/20 09:20	10/07/20 03:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*44 - 102*	*10/05/20 09:20*	*10/07/20 03:18*	*1*
Nitrobenzene-d5 (Surr)	*80*		*38 - 113*	*10/05/20 09:20*	*10/07/20 03:18*	*1*
p-Terphenyl-d14 (Surr)	*66*		*34 - 128*	*10/05/20 09:20*	*10/07/20 03:18*	*1*

Client Sample ID: TB-20200929

Date Collected: 09/29/20 00:00
Date Received: 09/30/20 10:34

Lab Sample ID: 410-15514-16

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	0.20	ug/L			10/05/20 14:31	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/05/20 14:31	1
Toluene	ND		1.0	0.20	ug/L			10/05/20 14:31	1
Xylenes, Total	ND		6.0	1.4	ug/L			10/05/20 14:31	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/05/20 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*10/05/20 14:31*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*10/05/20 14:31*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*10/05/20 14:31*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/05/20 14:31*	*1*

Surrogate Summary

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

Job ID: 410-15514-1

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)
410-15514-1	MW-1-20200928	101	95	99	98
410-15514-2	MW-10S-20200928	102	95	99	99
410-15514-3	MW-10D-20200928	102	95	100	99
410-15514-3 MS	MW-10D-20200928	101	99	99	99
410-15514-3 MSD	MW-10D-20200928	100	98	99	99
410-15514-4	MW-7S-20200928	101	96	99	99
410-15514-5	MW-7D-20200928	102	95	99	98
410-15514-6	MW-8S-20200928	101	95	99	99
410-15514-7	MW-8D-20200929	102	94	99	98
410-15514-8	MW-14S-20200929	101	95	100	99
410-15514-9	MW-14D-20200929	101	94	100	97
410-15514-11	MW-12S-20200929	103	95	100	99
410-15514-12	MW-12D-20200929	102	94	101	98
410-15514-13	MW-4S-20200929	102	96	100	98
410-15514-14	MW-4D-20200929	102	95	100	98
410-15514-15	MW-11S-20200929	102	96	101	98

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)
410-15514-10	FB-20200929	101	96	98	99
410-15514-16	TB-20200929	102	96	99	98
LCS 410-50869/4	Lab Control Sample	101	99	99	100
LCSD 410-50869/5	Lab Control Sample Dup	100	99	99	100
MB 410-50869/7	Method Blank	101	97	98	99

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(44-102)	(38-113)	(34-128)
410-15514-1	MW-1-20200928	76	83	81
410-15514-2	MW-10S-20200928	79	92	65
410-15514-3	MW-10D-20200928	78	91	63
410-15514-3 MS	MW-10D-20200928	87	106	67

Surrogate Summary

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

Job ID: 410-15514-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(44-102)	(38-113)	(34-128)
410-15514-3 MSD	MW-10D-20200928	89	98	64
410-15514-4	MW-7S-20200928	80	96	62
410-15514-5	MW-7D-20200928	72	83	48
410-15514-6	MW-8S-20200928	85	96	77
410-15514-7	MW-8D-20200929	90	100	61
410-15514-8	MW-14S-20200929	74	83	78
410-15514-9	MW-14D-20200929	82	89	38
410-15514-11	MW-12S-20200929	83	92	34
410-15514-12	MW-12D-20200929	75	81	61
410-15514-13	MW-4S-20200929	79	95	55
410-15514-14	MW-4D-20200929	71	87	69
410-15514-15	MW-11S-20200929	71	80	66

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(44-102)	(38-113)	(34-128)
410-15514-10	FB-20200929	89	95	85
LCS 410-50732/2-A	Lab Control Sample	84	103	87
MB 410-50732/1-A	Method Blank	77	99	89

Surrogate Legend

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

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

Lab Sample ID: MB 410-50869/7
Matrix: Water
Analysis Batch: 50869

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	0.20	ug/L			10/05/20 13:25	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/05/20 13:25	1
Toluene	ND		1.0	0.20	ug/L			10/05/20 13:25	1
Xylenes, Total	ND		6.0	1.4	ug/L			10/05/20 13:25	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/05/20 13:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*10/05/20 13:25*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*10/05/20 13:25*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*10/05/20 13:25*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/05/20 13:25*	*1*

Lab Sample ID: LCS 410-50869/4
Matrix: Water
Analysis Batch: 50869

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			20.0	20.0		ug/L		100	80 - 120		
Ethylbenzene			20.0	20.3		ug/L		102	80 - 120		
Toluene			20.0	20.0		ug/L		100	80 - 120		
Xylenes, Total			60.0	60.9		ug/L		102	80 - 120		
Methyl tertiary butyl ether			20.0	19.2		ug/L		96	69 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: LCSD 410-50869/5
Matrix: Water
Analysis Batch: 50869

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			20.0	20.0		ug/L		100	80 - 120	0	30
Ethylbenzene			20.0	20.5		ug/L		102	80 - 120	1	30
Toluene			20.0	20.0		ug/L		100	80 - 120	0	30
Xylenes, Total			60.0	61.2		ug/L		102	80 - 120	0	30
Methyl tertiary butyl ether			20.0	19.1		ug/L		95	69 - 122	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

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

Lab Sample ID: 410-15514-3 MS
Matrix: Ground Water
Analysis Batch: 50869

Client Sample ID: MW-10D-20200928
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		20.0	21.6		ug/L		108	80 - 120
Ethylbenzene	ND		20.0	21.9		ug/L		109	80 - 120
Toluene	ND		20.0	21.4		ug/L		107	80 - 120
Xylenes, Total	ND		60.0	65.4		ug/L		109	80 - 120
Methyl tertiary butyl ether	ND		20.0	19.7		ug/L		98	69 - 122

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

Lab Sample ID: 410-15514-3 MSD
Matrix: Ground Water
Analysis Batch: 50869

Client Sample ID: MW-10D-20200928
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	21.5		ug/L		108	80 - 120	0	30
Ethylbenzene	ND		20.0	21.9		ug/L		109	80 - 120	0	30
Toluene	ND		20.0	21.3		ug/L		106	80 - 120	0	30
Xylenes, Total	ND		60.0	65.1		ug/L		109	80 - 120	0	30
Methyl tertiary butyl ether	ND		20.0	19.8		ug/L		99	69 - 122	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

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

Lab Sample ID: MB 410-50732/1-A
Matrix: Water
Analysis Batch: 51042

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50732

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/05/20 22:28	1
Acenaphthylene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/05/20 22:28	1
Anthracene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/05/20 22:28	1
Benzo[a]anthracene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/05/20 22:28	1
Benzo[a]pyrene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/05/20 22:28	1
Benzo[b]fluoranthene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/05/20 22:28	1
Benzo[g,h,i]perylene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/05/20 22:28	1
Benzo[k]fluoranthene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/05/20 22:28	1
Chrysene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/05/20 22:28	1
Dibenz(a,h)anthracene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/05/20 22:28	1
Fluoranthene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/05/20 22:28	1
Fluorene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/05/20 22:28	1

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

Lab Sample ID: MB 410-50732/1-A
Matrix: Water
Analysis Batch: 51042

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50732

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/05/20 22:28	1
Naphthalene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/05/20 22:28	1
Phenanthrene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/05/20 22:28	1
Pyrene	ND		0.50	0.10	ug/L		10/05/20 09:20	10/05/20 22:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*44 - 102*	*10/05/20 09:20*	*10/05/20 22:28*	*1*
Nitrobenzene-d5 (Surr)	*99*		*38 - 113*	*10/05/20 09:20*	*10/05/20 22:28*	*1*
p-Terphenyl-d14 (Surr)	*89*		*34 - 128*	*10/05/20 09:20*	*10/05/20 22:28*	*1*

Lab Sample ID: LCS 410-50732/2-A
Matrix: Water
Analysis Batch: 51042

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 50732

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	50.1	44.6		ug/L		89	52 - 114
Acenaphthylene	50.2	44.5		ug/L		89	56 - 127
Anthracene	50.1	47.7		ug/L		95	67 - 116
Benzo[a]anthracene	50.0	49.3		ug/L		99	68 - 123
Benzo[a]pyrene	50.2	47.6		ug/L		95	71 - 117
Benzo[b]fluoranthene	50.1	47.9		ug/L		96	69 - 121
Benzo[g,h,i]perylene	50.1	50.9		ug/L		102	60 - 119
Benzo[k]fluoranthene	50.1	47.2		ug/L		94	69 - 122
Chrysene	50.0	46.9		ug/L		94	65 - 121
Dibenz(a,h)anthracene	50.2	53.4		ug/L		106	63 - 128
Fluoranthene	50.1	48.1		ug/L		96	63 - 122
Fluorene	50.1	44.0		ug/L		88	56 - 115
Indeno[1,2,3-cd]pyrene	50.2	50.0		ug/L		100	59 - 123
Naphthalene	50.4	41.2		ug/L		82	51 - 102
Phenanthrene	50.2	49.4		ug/L		98	65 - 113
Pyrene	50.4	46.6		ug/L		92	65 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*84*		*44 - 102*
Nitrobenzene-d5 (Surr)	*103*		*38 - 113*
p-Terphenyl-d14 (Surr)	*87*		*34 - 128*

Lab Sample ID: 410-15514-3 MS
Matrix: Ground Water
Analysis Batch: 51042

Client Sample ID: MW-10D-20200928
Prep Type: Total/NA
Prep Batch: 50732

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		50.5	45.3		ug/L		90	52 - 114
Acenaphthylene	ND		50.6	48.2		ug/L		95	56 - 127
Anthracene	ND		50.5	47.0		ug/L		93	67 - 116
Benzo[a]anthracene	ND		50.4	49.1		ug/L		97	68 - 123
Benzo[a]pyrene	ND		50.6	45.5		ug/L		90	71 - 117
Benzo[b]fluoranthene	ND		50.5	47.1		ug/L		93	69 - 121

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

Lab Sample ID: 410-15514-3 MS
Matrix: Ground Water
Analysis Batch: 51042

Client Sample ID: MW-10D-20200928
Prep Type: Total/NA
Prep Batch: 50732

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[g,h,i]perylene	ND		50.5	49.8		ug/L		99	60 - 119
Benzo[k]fluoranthene	ND		50.5	45.9		ug/L		91	69 - 122
Chrysene	ND		50.4	45.6		ug/L		90	65 - 121
Dibenz(a,h)anthracene	ND		50.6	51.4		ug/L		102	63 - 128
Fluoranthene	ND		50.5	48.0		ug/L		95	63 - 122
Fluorene	ND		50.5	44.9		ug/L		89	56 - 115
Indeno[1,2,3-cd]pyrene	ND		50.6	48.4		ug/L		96	59 - 123
Naphthalene	ND		50.8	42.1		ug/L		83	51 - 102
Phenanthrene	ND		50.6	48.7		ug/L		96	65 - 113
Pyrene	ND		50.8	47.7		ug/L		94	65 - 115

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*87*		*44 - 102*
Nitrobenzene-d5 (Surr)	*106*		*38 - 113*
p-Terphenyl-d14 (Surr)	*67*		*34 - 128*

Lab Sample ID: 410-15514-3 MSD
Matrix: Ground Water
Analysis Batch: 51485

Client Sample ID: MW-10D-20200928
Prep Type: Total/NA
Prep Batch: 50732

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		51.1	46.3		ug/L		91	52 - 114	2	30
Acenaphthylene	ND		51.2	48.0		ug/L		94	56 - 127	1	30
Anthracene	ND		51.2	46.3		ug/L		91	67 - 116	2	30
Benzo[a]anthracene	ND		51.1	50.1		ug/L		98	68 - 123	2	30
Benzo[a]pyrene	ND		51.2	47.4		ug/L		93	71 - 117	4	30
Benzo[b]fluoranthene	ND		51.2	47.4		ug/L		93	69 - 121	1	30
Benzo[g,h,i]perylene	ND		51.1	50.4		ug/L		99	60 - 119	1	30
Benzo[k]fluoranthene	ND		51.1	48.0		ug/L		94	69 - 122	4	30
Chrysene	ND		51.0	46.7		ug/L		92	65 - 121	2	30
Dibenz(a,h)anthracene	ND		51.2	52.0		ug/L		102	63 - 128	1	30
Fluoranthene	ND		51.1	46.4		ug/L		91	63 - 122	4	30
Fluorene	ND		51.2	46.6		ug/L		91	56 - 115	4	30
Indeno[1,2,3-cd]pyrene	ND		51.2	49.3		ug/L		96	59 - 123	2	30
Naphthalene	ND		51.4	41.8		ug/L		81	51 - 102	1	30
Phenanthrene	ND		51.2	48.6		ug/L		95	65 - 113	0	30
Pyrene	ND		51.5	47.0		ug/L		91	65 - 115	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*89*		*44 - 102*
Nitrobenzene-d5 (Surr)	*98*		*38 - 113*
p-Terphenyl-d14 (Surr)	*64*		*34 - 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
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
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: 50869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15514-1	MW-1-20200928	Total/NA	Ground Water	8260C	
410-15514-2	MW-10S-20200928	Total/NA	Ground Water	8260C	
410-15514-3	MW-10D-20200928	Total/NA	Ground Water	8260C	
410-15514-4	MW-7S-20200928	Total/NA	Ground Water	8260C	
410-15514-5	MW-7D-20200928	Total/NA	Ground Water	8260C	
410-15514-6	MW-8S-20200928	Total/NA	Ground Water	8260C	
410-15514-7	MW-8D-20200929	Total/NA	Ground Water	8260C	
410-15514-8	MW-14S-20200929	Total/NA	Ground Water	8260C	
410-15514-9	MW-14D-20200929	Total/NA	Ground Water	8260C	
410-15514-10	FB-20200929	Total/NA	Water	8260C	
410-15514-11	MW-12S-20200929	Total/NA	Ground Water	8260C	
410-15514-12	MW-12D-20200929	Total/NA	Ground Water	8260C	
410-15514-13	MW-4S-20200929	Total/NA	Ground Water	8260C	
410-15514-14	MW-4D-20200929	Total/NA	Ground Water	8260C	
410-15514-15	MW-11S-20200929	Total/NA	Ground Water	8260C	
410-15514-16	TB-20200929	Total/NA	Water	8260C	
MB 410-50869/7	Method Blank	Total/NA	Water	8260C	
LCS 410-50869/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 410-50869/5	Lab Control Sample Dup	Total/NA	Water	8260C	
410-15514-3 MS	MW-10D-20200928	Total/NA	Ground Water	8260C	
410-15514-3 MSD	MW-10D-20200928	Total/NA	Ground Water	8260C	

GC/MS Semi VOA

Prep Batch: 50732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15514-1	MW-1-20200928	Total/NA	Ground Water	3510C	
410-15514-2	MW-10S-20200928	Total/NA	Ground Water	3510C	
410-15514-3	MW-10D-20200928	Total/NA	Ground Water	3510C	
410-15514-4	MW-7S-20200928	Total/NA	Ground Water	3510C	
410-15514-5	MW-7D-20200928	Total/NA	Ground Water	3510C	
410-15514-6	MW-8S-20200928	Total/NA	Ground Water	3510C	
410-15514-7	MW-8D-20200929	Total/NA	Ground Water	3510C	
410-15514-8	MW-14S-20200929	Total/NA	Ground Water	3510C	
410-15514-9	MW-14D-20200929	Total/NA	Ground Water	3510C	
410-15514-10	FB-20200929	Total/NA	Water	3510C	
410-15514-11	MW-12S-20200929	Total/NA	Ground Water	3510C	
410-15514-12	MW-12D-20200929	Total/NA	Ground Water	3510C	
410-15514-13	MW-4S-20200929	Total/NA	Ground Water	3510C	
410-15514-14	MW-4D-20200929	Total/NA	Ground Water	3510C	
410-15514-15	MW-11S-20200929	Total/NA	Ground Water	3510C	
MB 410-50732/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-50732/2-A	Lab Control Sample	Total/NA	Water	3510C	
410-15514-3 MS	MW-10D-20200928	Total/NA	Ground Water	3510C	
410-15514-3 MSD	MW-10D-20200928	Total/NA	Ground Water	3510C	

Analysis Batch: 51042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15514-3	MW-10D-20200928	Total/NA	Ground Water	8270D	50732
MB 410-50732/1-A	Method Blank	Total/NA	Water	8270D	50732
LCS 410-50732/2-A	Lab Control Sample	Total/NA	Water	8270D	50732

GC/MS Semi VOA (Continued)

Analysis Batch: 51042 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15514-3 MS	MW-10D-20200928	Total/NA	Ground Water	8270D	50732

Analysis Batch: 51485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15514-1	MW-1-20200928	Total/NA	Ground Water	8270D	50732
410-15514-2	MW-10S-20200928	Total/NA	Ground Water	8270D	50732
410-15514-4	MW-7S-20200928	Total/NA	Ground Water	8270D	50732
410-15514-5	MW-7D-20200928	Total/NA	Ground Water	8270D	50732
410-15514-6	MW-8S-20200928	Total/NA	Ground Water	8270D	50732
410-15514-7	MW-8D-20200929	Total/NA	Ground Water	8270D	50732
410-15514-8	MW-14S-20200929	Total/NA	Ground Water	8270D	50732
410-15514-9	MW-14D-20200929	Total/NA	Ground Water	8270D	50732
410-15514-10	FB-20200929	Total/NA	Water	8270D	50732
410-15514-11	MW-12S-20200929	Total/NA	Ground Water	8270D	50732
410-15514-12	MW-12D-20200929	Total/NA	Ground Water	8270D	50732
410-15514-13	MW-4S-20200929	Total/NA	Ground Water	8270D	50732
410-15514-14	MW-4D-20200929	Total/NA	Ground Water	8270D	50732
410-15514-15	MW-11S-20200929	Total/NA	Ground Water	8270D	50732
410-15514-3 MSD	MW-10D-20200928	Total/NA	Ground Water	8270D	50732

Client Sample ID: MW-1-20200928
Lab Sample ID: 410-15514-1
Date Collected: 09/28/20 11:21
Matrix: Ground Water
Date Received: 09/30/20 10:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	50869	10/05/20 15:37	TQ4J	ELLE
Total/NA	Prep	3510C			50732	10/05/20 09:20	R9CT	ELLE
Total/NA	Analysis	8270D		1	51485	10/06/20 20:59	SJ89	ELLE

Client Sample ID: MW-10S-20200928
Lab Sample ID: 410-15514-2
Date Collected: 09/28/20 13:21
Matrix: Ground Water
Date Received: 09/30/20 10:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	50869	10/05/20 15:59	TQ4J	ELLE
Total/NA	Prep	3510C			50732	10/05/20 09:20	R9CT	ELLE
Total/NA	Analysis	8270D		1	51485	10/06/20 21:28	SJ89	ELLE

Client Sample ID: MW-10D-20200928
Lab Sample ID: 410-15514-3
Date Collected: 09/28/20 13:57
Matrix: Ground Water
Date Received: 09/30/20 10:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	50869	10/05/20 16:21	TQ4J	ELLE
Total/NA	Prep	3510C			50732	10/05/20 09:20	R9CT	ELLE
Total/NA	Analysis	8270D		1	51042	10/05/20 23:55	LW6J	ELLE

Client Sample ID: MW-7S-20200928
Lab Sample ID: 410-15514-4
Date Collected: 09/28/20 15:02
Matrix: Ground Water
Date Received: 09/30/20 10:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	50869	10/05/20 17:28	TQ4J	ELLE
Total/NA	Prep	3510C			50732	10/05/20 09:20	R9CT	ELLE
Total/NA	Analysis	8270D		1	51485	10/06/20 21:57	SJ89	ELLE

Client Sample ID: MW-7D-20200928
Lab Sample ID: 410-15514-5
Date Collected: 09/28/20 15:40
Matrix: Ground Water
Date Received: 09/30/20 10:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	50869	10/05/20 17:50	TQ4J	ELLE
Total/NA	Prep	3510C			50732	10/05/20 09:20	R9CT	ELLE
Total/NA	Analysis	8270D		1	51485	10/06/20 22:26	SJ89	ELLE

Client Sample ID: MW-8S-20200928
Lab Sample ID: 410-15514-6
Date Collected: 09/28/20 16:32
Matrix: Ground Water
Date Received: 09/30/20 10:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	50869	10/05/20 18:12	TQ4J	ELLE

Client Sample ID: MW-8S-20200928
Lab Sample ID: 410-15514-6
Date Collected: 09/28/20 16:32
Matrix: Ground Water
Date Received: 09/30/20 10:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			50732	10/05/20 09:20	R9CT	ELLE
Total/NA	Analysis	8270D		1	51485	10/06/20 22:55	SJ89	ELLE

Client Sample ID: MW-8D-20200929
Lab Sample ID: 410-15514-7
Date Collected: 09/29/20 08:27
Matrix: Ground Water
Date Received: 09/30/20 10:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	50869	10/05/20 18:34	TQ4J	ELLE
Total/NA	Prep	3510C			50732	10/05/20 09:20	R9CT	ELLE
Total/NA	Analysis	8270D		1	51485	10/06/20 23:25	SJ89	ELLE

Client Sample ID: MW-14S-20200929
Lab Sample ID: 410-15514-8
Date Collected: 09/29/20 09:18
Matrix: Ground Water
Date Received: 09/30/20 10:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	50869	10/05/20 18:55	TQ4J	ELLE
Total/NA	Prep	3510C			50732	10/05/20 09:20	R9CT	ELLE
Total/NA	Analysis	8270D		1	51485	10/06/20 23:54	SJ89	ELLE

Client Sample ID: MW-14D-20200929
Lab Sample ID: 410-15514-9
Date Collected: 09/29/20 09:58
Matrix: Ground Water
Date Received: 09/30/20 10:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	50869	10/05/20 19:18	TQ4J	ELLE
Total/NA	Prep	3510C			50732	10/05/20 09:20	R9CT	ELLE
Total/NA	Analysis	8270D		1	51485	10/07/20 00:23	SJ89	ELLE

Client Sample ID: FB-20200929
Lab Sample ID: 410-15514-10
Date Collected: 09/29/20 10:10
Matrix: Water
Date Received: 09/30/20 10:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	50869	10/05/20 14:09	TQ4J	ELLE
Total/NA	Prep	3510C			50732	10/05/20 09:20	R9CT	ELLE
Total/NA	Analysis	8270D		1	51485	10/07/20 00:52	SJ89	ELLE

Client Sample ID: MW-12S-20200929
Lab Sample ID: 410-15514-11
Date Collected: 09/29/20 10:55
Matrix: Ground Water
Date Received: 09/30/20 10:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	50869	10/05/20 19:40	TQ4J	ELLE

Client Sample ID: MW-12S-20200929
Lab Sample ID: 410-15514-11
Date Collected: 09/29/20 10:55
Matrix: Ground Water
Date Received: 09/30/20 10:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			50732	10/05/20 09:20	R9CT	ELLE
Total/NA	Analysis	8270D		1	51485	10/07/20 01:21	SJ89	ELLE

Client Sample ID: MW-12D-20200929
Lab Sample ID: 410-15514-12
Date Collected: 09/29/20 11:33
Matrix: Ground Water
Date Received: 09/30/20 10:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	50869	10/05/20 20:02	TQ4J	ELLE
Total/NA	Prep	3510C			50732	10/05/20 09:20	R9CT	ELLE
Total/NA	Analysis	8270D		1	51485	10/07/20 01:50	SJ89	ELLE

Client Sample ID: MW-4S-20200929
Lab Sample ID: 410-15514-13
Date Collected: 09/29/20 13:10
Matrix: Ground Water
Date Received: 09/30/20 10:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	50869	10/05/20 20:23	TQ4J	ELLE
Total/NA	Prep	3510C			50732	10/05/20 09:20	R9CT	ELLE
Total/NA	Analysis	8270D		1	51485	10/07/20 02:20	SJ89	ELLE

Client Sample ID: MW-4D-20200929
Lab Sample ID: 410-15514-14
Date Collected: 09/29/20 13:49
Matrix: Ground Water
Date Received: 09/30/20 10:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	50869	10/05/20 20:45	TQ4J	ELLE
Total/NA	Prep	3510C			50732	10/05/20 09:20	R9CT	ELLE
Total/NA	Analysis	8270D		1	51485	10/07/20 02:49	SJ89	ELLE

Client Sample ID: MW-11S-20200929
Lab Sample ID: 410-15514-15
Date Collected: 09/29/20 14:53
Matrix: Ground Water
Date Received: 09/30/20 10:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	50869	10/05/20 21:07	TQ4J	ELLE
Total/NA	Prep	3510C			50732	10/05/20 09:20	R9CT	ELLE
Total/NA	Analysis	8270D		1	51485	10/07/20 03:18	SJ89	ELLE

Client Sample ID: TB-20200929
Lab Sample ID: 410-15514-16
Date Collected: 09/29/20 00:00
Matrix: Water
Date Received: 09/30/20 10:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	50869	10/05/20 14:31	TQ4J	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: 410-15514-1

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	11-30-20
Alaska	State	PA00009	06-30-21
Alaska (UST)	State	17-027	01-31-21
Arizona	State	AZ0780	03-12-21
Arkansas DEQ	State	19-053-0	08-09-21
California	State	2792	01-31-21
Colorado	State	PA00009	06-30-21
Connecticut	State	PH-0746	12-26-20
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	10-31-20
Delaware (DW)	State	N/A	01-31-21
Florida	NELAP	E87997	07-01-21
Hawaii	State	N/A	01-31-21
Illinois	NELAP	004559	01-31-21
Iowa	State	361	03-02-22
Kansas	NELAP	E-10151	10-31-20
Kentucky (DW)	State	KY90088	12-31-20
Kentucky (UST)	State	1.01	11-30-20
Kentucky (WW)	State	KY90088	12-31-20
Louisiana	NELAP	02055	06-30-21
Maine	State	2019012	03-12-21
Maryland	State	100	06-30-21
Massachusetts	State	M-PA009	06-30-21
Michigan	State	9930	01-31-21
Missouri	State	450	01-31-22
Montana (DW)	State	0098	12-31-20
Nebraska	State	NE-OS-32-17	01-31-20 *
Nevada	State	PA000092019-3	07-31-21
New Hampshire	NELAP	273019	01-10-21
New Jersey	NELAP	PA011	06-30-21
New York	NELAP	10670	04-01-21
North Carolina (DW)	State	42705	07-31-21
North Carolina (WW/SW)	State	521	12-31-20
North Dakota	State	R-205	01-31-20 *
Oklahoma	NELAP	R-205	02-01-21
Oregon	NELAP	PA200001-018	09-12-21
PALA	Canada	1978	05-08-21
Pennsylvania	NELAP	36-00037	01-31-21
Rhode Island	State	LAO00338	12-30-20
South Carolina	State	89002002	01-31-21
Tennessee	State	02838	01-31-21
Texas	NELAP	T104704194-20-38	08-31-21
Utah	NELAP	PA000092019-16	02-28-21
Vermont	State	VT - 36037	10-28-20
Virginia	NELAP	10561	06-14-21
Washington	State	C457	04-11-21
West Virginia (DW)	State	9906 C	12-31-20
West Virginia DEP	State	055	12-31-20
Wyoming	State	8TMS-L	01-07-21
Wyoming (UST)	A2LA	1.01	11-30-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-15514-1

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-1-20200928	410-15514-1	99	101	98	95
MW-10S-20200928	410-15514-2	99	102	99	95
MW-10D-20200928	410-15514-3	100	102	99	95
MW-7S-20200928	410-15514-4	99	101	99	96
MW-7D-20200928	410-15514-5	99	102	98	95
MW-8S-20200928	410-15514-6	99	101	99	95
MW-8D-20200929	410-15514-7	99	102	98	94
MW-14S-20200929	410-15514-8	100	101	99	95
MW-14D-20200929	410-15514-9	100	101	97	94
FB-20200929	410-15514-10	98	101	99	96
MW-12S-20200929	410-15514-11	100	103	99	95
MW-12D-20200929	410-15514-12	101	102	98	94
MW-4S-20200929	410-15514-13	100	102	98	96
MW-4D-20200929	410-15514-14	100	102	98	95
MW-11S-20200929	410-15514-15	101	102	98	96
TB-20200929	410-15514-16	99	102	98	96
	MB 410-50869/7	98	101	99	97
	LCS 410-50869/4	99	101	100	99
	LCSD 410-50869/5	99	100	100	99
MW-10D-20200928 MS	410-15514-3 MS	99	101	99	99
MW-10D-20200928 MSD	410-15514-3 MSD	99	100	99	98

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

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-15514-1

SDG No.:

Matrix: Water Level: Low Lab File ID: YC05L01.D

Lab ID: LCS 410-50869/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Benzene	20.0	20.0	100	80-120	
Ethylbenzene	20.0	20.3	102	80-120	
Toluene	20.0	20.0	100	80-120	
Xylenes, Total	60.0	60.9	102	80-120	
Methyl tertiary butyl ether	20.0	19.2	96	69-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-15514-1

SDG No.:

Matrix: Water Level: Low Lab File ID: YC05L02.D

Lab ID: LCSD 410-50869/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Benzene	20.0	20.0	100	0	30	80-120	
Ethylbenzene	20.0	20.5	102	1	30	80-120	
Toluene	20.0	20.0	100	0	30	80-120	
Xylenes, Total	60.0	61.2	102	0	30	80-120	
Methyl tertiary butyl ether	20.0	19.1	95	1	30	69-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-15514-1

SDG No.:

Matrix: Water Level: Low Lab File ID: YC05S09.D

Lab ID: 410-15514-3 MS Client ID: MW-10D-20200928 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Benzene	20.0	ND	21.6	108	80-120	
Ethylbenzene	20.0	ND	21.9	109	80-120	
Toluene	20.0	ND	21.4	107	80-120	
Xylenes, Total	60.0	ND	65.4	109	80-120	
Methyl tertiary butyl ether	20.0	ND	19.7	98	69-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-15514-1

SDG No.:

Matrix: Water Level: Low Lab File ID: YC05S10.D

Lab ID: 410-15514-3 MSD Client ID: MW-10D-20200928 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Benzene	20.0	21.5	108	0	30	80-120	
Ethylbenzene	20.0	21.9	109	0	30	80-120	
Toluene	20.0	21.3	106	0	30	80-120	
Xylenes, Total	60.0	65.1	109	0	30	80-120	
Methyl tertiary butyl ether	20.0	19.8	99	1	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.: 410-15514-1

SDG No.:

Lab File ID: YC05B01.D Lab Sample ID: MB 410-50869/7

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

Instrument ID: 9355 Date Analyzed: 10/05/2020 13:25

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 410-50869/4	YC05L01.D	10/05/2020 12:19
	LCSD 410-50869/5	YC05L02.D	10/05/2020 12:41
FB-20200929	410-15514-10	YC05S02.D	10/05/2020 14:09
TB-20200929	410-15514-16	YC05S03.D	10/05/2020 14:31
MW-1-20200928	410-15514-1	YC05S06.D	10/05/2020 15:37
MW-10S-20200928	410-15514-2	YC05S07.D	10/05/2020 15:59
MW-10D-20200928	410-15514-3	YC05S08.D	10/05/2020 16:21
MW-10D-20200928 MS	410-15514-3 MS	YC05S09.D	10/05/2020 16:43
MW-10D-20200928 MSD	410-15514-3 MSD	YC05S10.D	10/05/2020 17:05
MW-7S-20200928	410-15514-4	YC05S11.D	10/05/2020 17:28
MW-7D-20200928	410-15514-5	YC05S12.D	10/05/2020 17:50
MW-8S-20200928	410-15514-6	YC05S13.D	10/05/2020 18:12
MW-8D-20200929	410-15514-7	YC05S14.D	10/05/2020 18:34
MW-14S-20200929	410-15514-8	YC05S15.D	10/05/2020 18:55
MW-14D-20200929	410-15514-9	YC05S16.D	10/05/2020 19:18
MW-12S-20200929	410-15514-11	YC05S17.D	10/05/2020 19:40
MW-12D-20200929	410-15514-12	YC05S18.D	10/05/2020 20:02
MW-4S-20200929	410-15514-13	YC05S19.D	10/05/2020 20:23
MW-4D-20200929	410-15514-14	YC05S20.D	10/05/2020 20:45
MW-11S-20200929	410-15514-15	YC05S21.D	10/05/2020 21:07

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15514-1

SDG No.:

Lab File ID: Ys21T01.D BFB Injection Date: 09/21/2020

Instrument ID: 9355 BFB Injection Time: 13:28

Analysis Batch No.: 46013

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
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	83.4	
175	5.0 - 9.0 % of mass 174	5.8	(7.0) 1
176	95.0 - 101.0 % of mass 174	79.8	(95.7) 1
177	5.0 - 9.0 % of mass 176	5.4	(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 410-46013/3	Ys21I01.D	09/21/2020	14:04
	IC 410-46013/4	Ys21I02.D	09/21/2020	14:26
	ICIS 410-46013/5	Ys21I03.D	09/21/2020	14:48
	IC 410-46013/6	Ys21I04.D	09/21/2020	15:10
	IC 410-46013/7	Ys21I05.D	09/21/2020	15:32
	IC 410-46013/8	Ys21I06.D	09/21/2020	15:53
	IC 410-46013/9	Ys21I07.D	09/21/2020	16:16
	ICV 410-46013/11	Ys21v01.D	09/21/2020	17:00

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15514-1

SDG No.:

Lab File ID: YC05T01.D BFB Injection Date: 10/05/2020

Instrument ID: 9355 BFB Injection Time: 11:18

Analysis Batch No.: 50869

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.3	
75	30.0 - 60.0 % of mass 95	47.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.3	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	74.0	
175	5.0 - 9.0 % of mass 174	5.6	(7.6) 1
176	95.0 - 101.0 % of mass 174	74.0	(99.9) 1
177	5.0 - 9.0 % of mass 176	4.7	(6.3) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-50869/3	YC05C01.D	10/05/2020	11:57
	LCS 410-50869/4	YC05L01.D	10/05/2020	12:19
	LCSD 410-50869/5	YC05L02.D	10/05/2020	12:41
	MB 410-50869/7	YC05B01.D	10/05/2020	13:25
FB-20200929	410-15514-10	YC05S02.D	10/05/2020	14:09
TB-20200929	410-15514-16	YC05S03.D	10/05/2020	14:31
MW-1-20200928	410-15514-1	YC05S06.D	10/05/2020	15:37
MW-10S-20200928	410-15514-2	YC05S07.D	10/05/2020	15:59
MW-10D-20200928	410-15514-3	YC05S08.D	10/05/2020	16:21
MW-10D-20200928 MS	410-15514-3 MS	YC05S09.D	10/05/2020	16:43
MW-10D-20200928 MSD	410-15514-3 MSD	YC05S10.D	10/05/2020	17:05
MW-7S-20200928	410-15514-4	YC05S11.D	10/05/2020	17:28
MW-7D-20200928	410-15514-5	YC05S12.D	10/05/2020	17:50
MW-8S-20200928	410-15514-6	YC05S13.D	10/05/2020	18:12
MW-8D-20200929	410-15514-7	YC05S14.D	10/05/2020	18:34
MW-14S-20200929	410-15514-8	YC05S15.D	10/05/2020	18:55
MW-14D-20200929	410-15514-9	YC05S16.D	10/05/2020	19:18
MW-12S-20200929	410-15514-11	YC05S17.D	10/05/2020	19:40
MW-12D-20200929	410-15514-12	YC05S18.D	10/05/2020	20:02
MW-4S-20200929	410-15514-13	YC05S19.D	10/05/2020	20:23
MW-4D-20200929	410-15514-14	YC05S20.D	10/05/2020	20:45
MW-11S-20200929	410-15514-15	YC05S21.D	10/05/2020	21:07

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15514-1

SDG No.:

Sample No.: ICIS 410-46013/5 Date Analyzed: 09/21/2020 14:48

Instrument ID: 9355 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): Ys21I03.D Heated Purge: (Y/N) N

Calibration ID: 11387

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		390698	4.34	1236687	7.86	901388	11.30
UPPER LIMIT		781396	4.84	2473374	8.36	1802776	11.80
LOWER LIMIT		195349	3.84	618344	7.36	450694	10.80
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-46013/11		375114	4.34	1220222	7.85	896783	11.30
CCVIS 410-50869/3		540259	4.36	1463635	7.86	1074019	11.30

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.: 410-15514-1

SDG No.:

Sample No.: ICIS 410-46013/5 Date Analyzed: 09/21/2020 14:48

Instrument ID: 9355 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): Ys21I03.D Heated Purge: (Y/N) N

Calibration ID: 11387

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		490868	13.17				
UPPER LIMIT		981736	13.67				
LOWER LIMIT		245434	12.67				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-46013/11		483606	13.17				
CCVIS 410-50869/3		564292	13.17				

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.: 410-15514-1

SDG No.:

Sample No.: CCVIS 410-50869/3 Date Analyzed: 10/05/2020 11:57

Instrument ID: 9355 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): YC05C01.D Heated Purge: (Y/N) N

Calibration ID: 11387

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		540259	4.36	1463635	7.86	1074019	11.30
UPPER LIMIT		1080518	4.86	2927270	8.36	2148038	11.80
LOWER LIMIT		270130	3.86	731818	7.36	537010	10.80
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-50869/4		521802	4.36	1444169	7.86	1057842	11.30
LCSD 410-50869/5		523529	4.36	1441335	7.86	1055665	11.30
MB 410-50869/7		508134	4.36	1432239	7.86	1034786	11.30
410-15514-10	FB-20200929	473139	4.36	1413588	7.86	1033022	11.30
410-15514-16	TB-20200929	468062	4.36	1407983	7.86	1023427	11.30
410-15514-1	MW-1-20200928	469098	4.36	1372456	7.86	1009679	11.30
410-15514-2	MW-10S-20200928	459020	4.36	1350491	7.85	984858	11.30
410-15514-3	MW-10D-20200928	447238	4.36	1341374	7.86	983785	11.30
410-15514-3 MS	MW-10D-20200928 MS	477327	4.37	1368394	7.86	1011308	11.30
410-15514-3 MSD	MW-10D-20200928 MSD	487732	4.36	1374173	7.86	1019050	11.30
410-15514-4	MW-7S-20200928	490476	4.36	1366769	7.86	997505	11.30
410-15514-5	MW-7D-20200928	458899	4.37	1350073	7.86	995144	11.30
410-15514-6	MW-8S-20200928	438362	4.37	1334356	7.86	973937	11.30
410-15514-7	MW-8D-20200929	431920	4.36	1328608	7.86	981365	11.30
410-15514-8	MW-14S-20200929	433938	4.37	1315064	7.86	961345	11.30
410-15514-9	MW-14D-20200929	399676	4.37	1222002	7.86	895167	11.30
410-15514-11	MW-12S-20200929	437154	4.36	1293076	7.86	944642	11.30
410-15514-12	MW-12D-20200929	419062	4.37	1296214	7.86	946538	11.30
410-15514-13	MW-4S-20200929	441150	4.37	1299299	7.86	952468	11.30
410-15514-14	MW-4D-20200929	435845	4.36	1286593	7.85	943679	11.30
410-15514-15	MW-11S-20200929	435652	4.36	1260157	7.85	923123	11.30

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.: 410-15514-1

SDG No.:

Sample No.: CCVIS 410-50869/3 Date Analyzed: 10/05/2020 11:57

Instrument ID: 9355 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): YC05C01.D Heated Purge: (Y/N) N

Calibration ID: 11387

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		564292	13.17				
UPPER LIMIT		1128584	13.67				
LOWER LIMIT		282146	12.67				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-50869/4		549931	13.17				
LCSD 410-50869/5		548314	13.17				
MB 410-50869/7		537811	13.17				
410-15514-10	FB-20200929	530414	13.17				
410-15514-16	TB-20200929	533278	13.17				
410-15514-1	MW-1-20200928	522127	13.17				
410-15514-2	MW-10S-20200928	508222	13.17				
410-15514-3	MW-10D-20200928	512517	13.17				
410-15514-3 MS	MW-10D-20200928 MS	532087	13.17				
410-15514-3 MSD	MW-10D-20200928 MSD	528809	13.17				
410-15514-4	MW-7S-20200928	520744	13.18				
410-15514-5	MW-7D-20200928	511965	13.17				
410-15514-6	MW-8S-20200928	504961	13.17				
410-15514-7	MW-8D-20200929	503305	13.17				
410-15514-8	MW-14S-20200929	502263	13.17				
410-15514-9	MW-14D-20200929	464865	13.17				
410-15514-11	MW-12S-20200929	493225	13.17				
410-15514-12	MW-12D-20200929	497544	13.17				
410-15514-13	MW-4S-20200929	504685	13.17				
410-15514-14	MW-4D-20200929	492944	13.17				
410-15514-15	MW-11S-20200929	488122	13.17				

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.: 410-15514-1

SDG No.:

Client Sample ID: MW-1-20200928 Lab Sample ID: 410-15514-1

Matrix: Ground Water Lab File ID: YC05S06.D

Analysis Method: 8260C Date Collected: 09/28/2020 11:21

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2020 15:37

Soil Aliquot Vol: Dilution Factor: 5

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 50869 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		5.0	1.0
100-41-4	Ethylbenzene	ND		5.0	2.0
108-88-3	Toluene	ND		5.0	1.0
1330-20-7	Xylenes, Total	ND		30	7.0
1634-04-4	Methyl tertiary butyl ether	ND		5.0	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S06.D
Lims ID: 410-15514-A-1
Client ID: MW-1-20200928
Sample Type: Client
Inject. Date: 05-Oct-2020 15:37:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Sample Info: 410-0012071-013
Operator ID: kas02648 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2020 13:38:01 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1008

First Level Reviewer: mellingerc Date: 06-Oct-2020 13:08:31

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	26 t-Butyl alcohol-d10 (IS)	65	4.362	4.361	0.001	29	469098	250.0	
	31 Methyl tert-butyl ether	73		4.793				ND	
$	50 Dibromofluoromethane (Surr)	113	6.959	6.965	-0.006	94	306715	49.7	
$	56 1,2-Dichloroethane-d4 (Surr)	102	7.422	7.428	-0.006	98	85454	50.4	
	57 Benzene	78		7.464				ND	
*	62 Fluorobenzene (IS)	96	7.860	7.859	0.001	99	1372456	50.0	
$	77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	93	1340299	49.0	
	78 Toluene	92		9.928				ND	7
S	90 Xylenes, Total	106		11.245				ND	7
*	91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	86	1009679	50.0	
	95 Ethylbenzene	91	11.412	11.406	0.006	0	484	0.0118	7M
	96 m-Xylene & p-Xylene	106		11.522				ND	7
	97 o-Xylene	106		11.844				ND	
$	103 4-Bromofluorobenzene (Surr)	95	12.295	12.294	0.001	89	486317	47.4	
*	119 1,4-Dichlorobenzene-d4	152	13.171	13.170	0.001	95	522127	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSV_HP20_ISSS_00026 Amount Added: 1.00 Units: uL Run Reagent

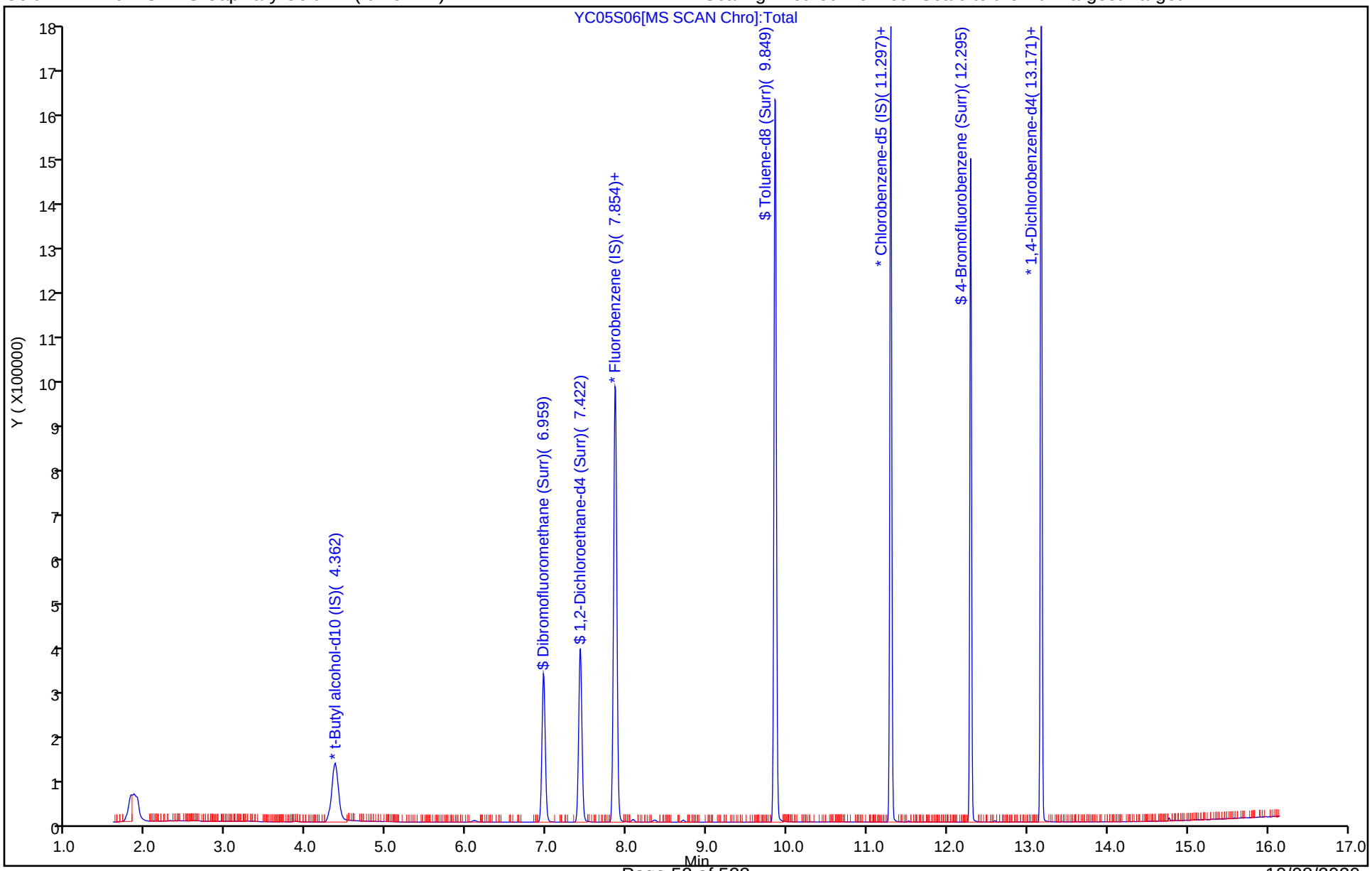
Report Date: 06-Oct-2020 22:51:30 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S06.D

Injection Date:	05-Oct-2020 15:37:30	Instrument ID:	9355	Operator ID:	kas02648
Lims ID:	410-15514-A-1	Lab Sample ID:	410-15514-1	Worklist Smp#:	13
Client ID:	MW-1-20200928				
Purge Vol:	5.000 mL	Dil. Factor:	5.0000	ALS Bottle#:	13
Method:	MSVoa_9355	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

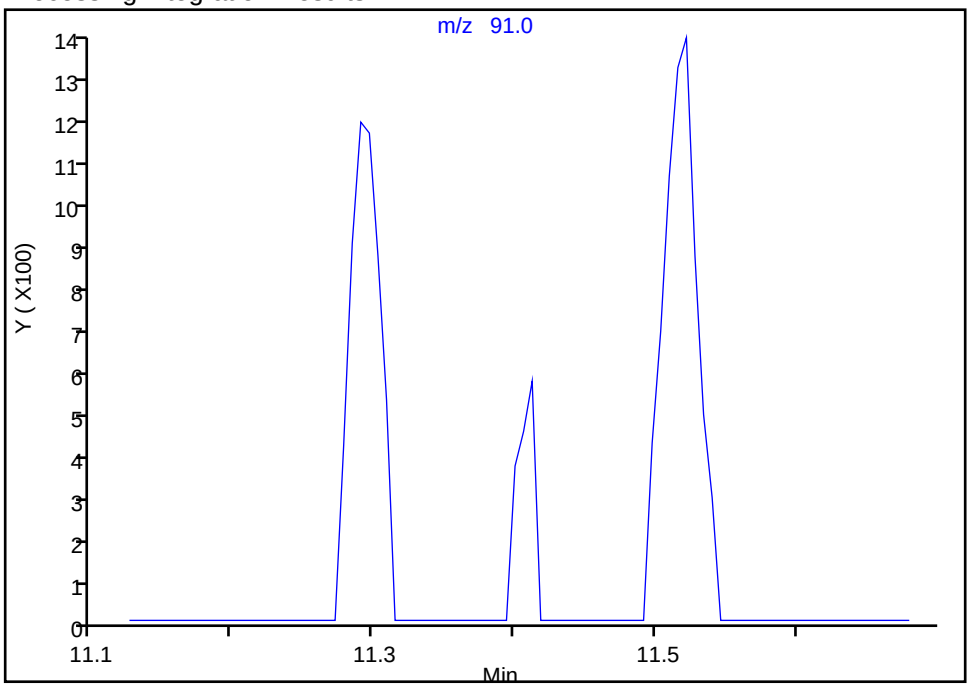
Data File:	\\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S06.D				
Injection Date:	05-Oct-2020 15:37:30	Instrument ID:	9355		
Lims ID:	410-15514-A-1	Lab Sample ID:	410-15514-1		
Client ID:	MW-1-20200928				
Operator ID:	kas02648	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

95 Ethylbenzene, CAS: 100-41-4

Signal: 1

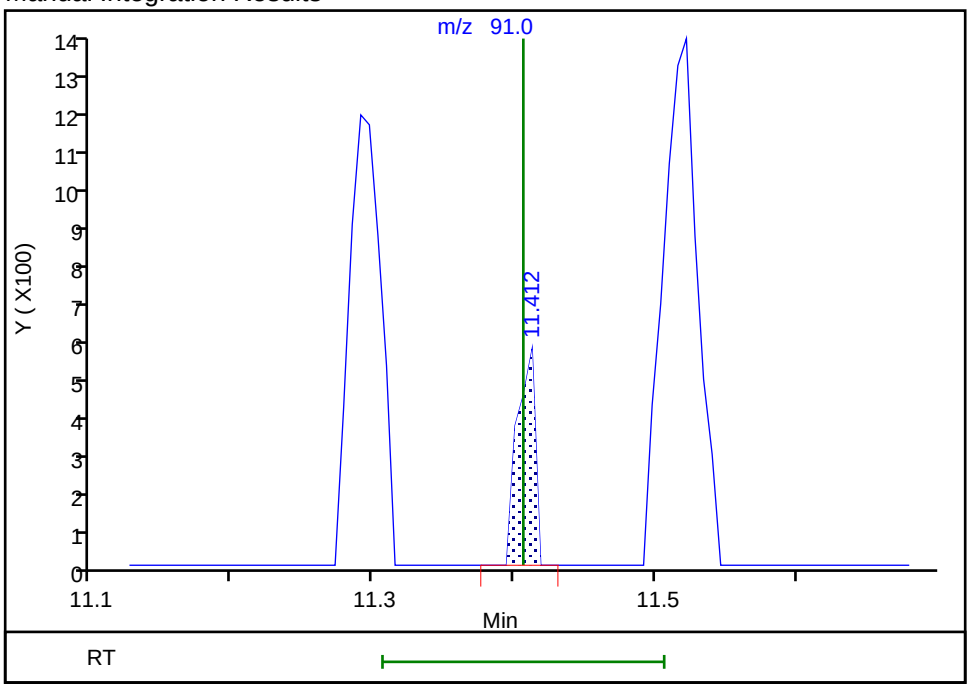
Not Detected
Expected RT: 11.41

Processing Integration Results



Manual Integration Results

RT: 11.41
Area: 484
Amount: 0.011846
Amount Units: ug/l



Reviewer: mellingerc, 06-Oct-2020 13:08:27
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15514-1

SDG No.:

Client Sample ID: MW-10S-20200928 Lab Sample ID: 410-15514-2

Matrix: Ground Water Lab File ID: YC05S07.D

Analysis Method: 8260C Date Collected: 09/28/2020 13:21

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2020 15:59

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.: 50869 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		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\9355\20201005-12071.b\YC05S07.D
Lims ID: 410-15514-A-2
Client ID: MW-10S-20200928
Sample Type: Client
Inject. Date: 05-Oct-2020 15:59:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0012071-014
Operator ID: kas02648 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2020 13:22:14 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1018

First Level Reviewer: mellingerc Date: 06-Oct-2020 13:08:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.355	4.361	-0.006	29	459020	250.0	
31 Methyl tert-butyl ether	73		4.793				ND	
$ 50 Dibromofluoromethane (Surr)	113	6.959	6.965	-0.006	93	301359	49.6	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.422	7.428	-0.006	98	85217	51.1	
57 Benzene	78		7.464				ND	
* 62 Fluorobenzene (IS)	96	7.853	7.859	-0.006	99	1350491	50.0	
$ 77 Toluene-d8 (Surr)	98	9.849	9.855	-0.006	94	1320347	49.5	
78 Toluene	92		9.928				ND	
S 90 Xylenes, Total	106		11.245				ND	7
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	86	984858	50.0	
95 Ethylbenzene	91		11.406				ND	
96 m-Xylene & p-Xylene	106		11.522				ND	
97 o-Xylene	106		11.844				ND	
$ 103 4-Bromofluorobenzene (Surr)	95	12.288	12.294	-0.006	89	477515	47.7	
* 119 1,4-Dichlorobenzene-d4	152	13.170	13.170	0.000	96	508222	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP20_ISSS_00026 Amount Added: 1.00 Units: uL Run Reagent

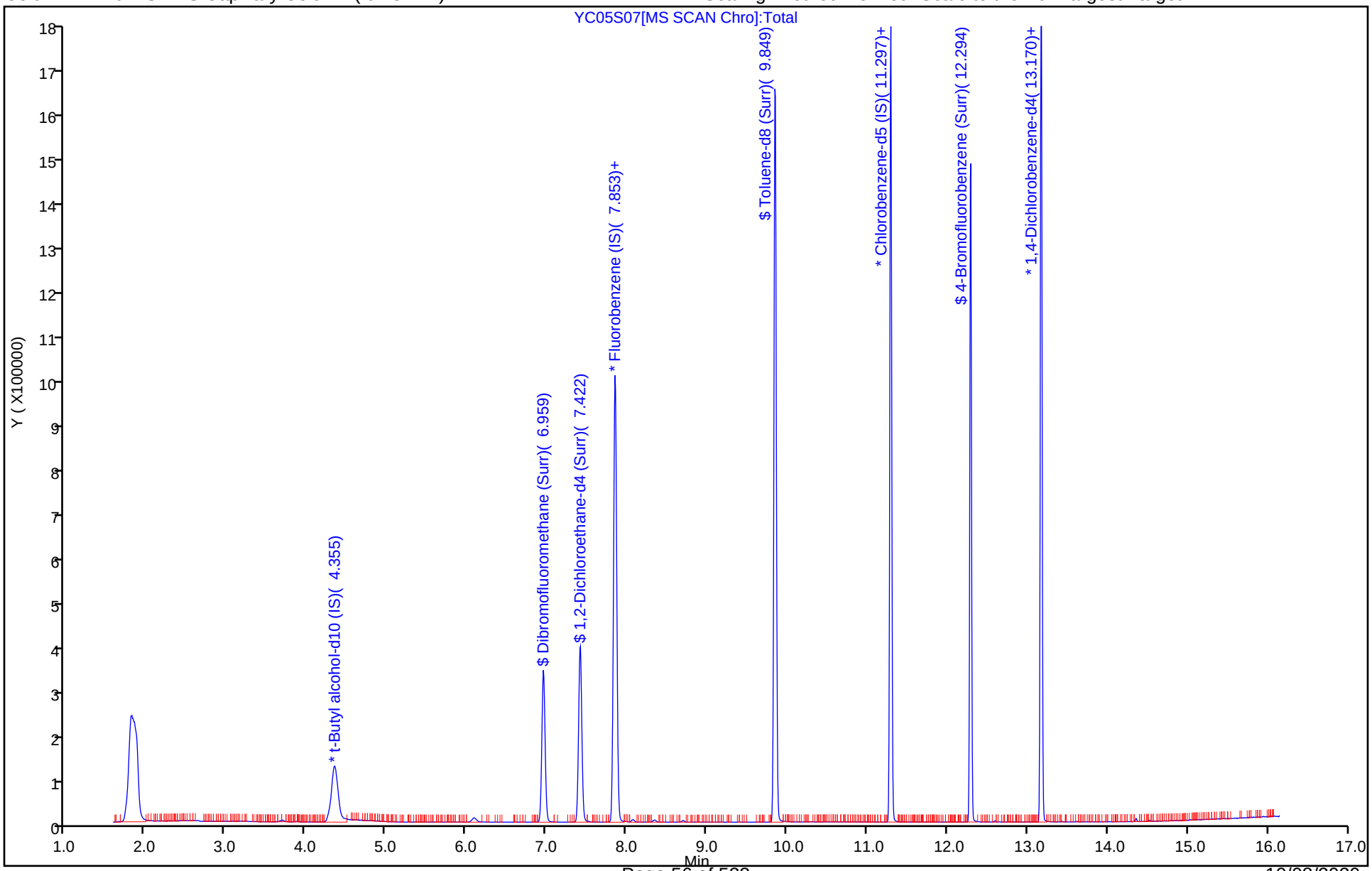
Report Date: 06-Oct-2020 13:23:27 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S07.D

Injection Date:	05-Oct-2020 15:59:30	Instrument ID:	9355	Operator ID:	kas02648
Lims ID:	410-15514-A-2	Lab Sample ID:	410-15514-2	Worklist Smp#:	14
Client ID:	MW-10S-20200928				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MSVoa_9355	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.: 410-15514-1

SDG No.:

Client Sample ID: MW-10D-20200928 Lab Sample ID: 410-15514-3

Matrix: Ground Water Lab File ID: YC05S08.D

Analysis Method: 8260C Date Collected: 09/28/2020 13:57

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2020 16:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 50869 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		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\9355\20201005-12071.b\YC05S08.D
Lims ID: 410-15514-A-3
Client ID: MW-10D-20200928
Sample Type: Client
Inject. Date: 05-Oct-2020 16:21:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0012071-015
Operator ID: kas02648 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2020 13:22:14 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1018

First Level Reviewer: mellingerc Date: 06-Oct-2020 13:11:10

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1	Chlorotrifluoroethene	116		2.001				ND	
3	Chlorodifluoromethane	51		2.062				ND	
2	Dichlorodifluoromethane	85		2.062				ND	
4	Chloromethane	50		2.269				ND	
5	Butadiene	39		2.384				ND	
6	Vinyl chloride	62		2.384				ND	
7	2-Chloro-1,1,1-Trifluoroethane	118		2.439				ND	
8	Bromomethane	94		2.719				ND	
9	Chloroethane	64		2.810				ND	
10	Dichlorofluoromethane	67		3.023				ND	
11	Trichlorofluoromethane	101		3.120				ND	
12	Pentane	43		3.157				ND	
13	Ethanol	45		3.205				ND	
14	Ethyl ether	59		3.376				ND	
15	1,2-Dichloro-1,1,2-trifluoroetha	67		3.449				ND	
16	Acrolein	56		3.540				ND	
17	1,1-Dichloroethene	96		3.698				ND	
18	Acetone	58		3.710				ND	
19	112TCTFE	101		3.735				ND	
20	Isopropyl alcohol	45		3.875				ND	7
21	Iodomethane	142		3.911				ND	
22	Carbon disulfide	76		4.033				ND	
23	Acetonitrile	41		4.063				ND	
24	Methyl acetate	43		4.142				ND	
25	3-Chloro-1-propene	41		4.185				ND	
* 26	t-Butyl alcohol-d10 (IS)	65	4.361	4.361	0.000	29	447238	250.0	
27	Methylene Chloride	84		4.380				ND	
28	2-Methyl-2-propanol	59		4.489				ND	
30	Acrylonitrile	53		4.690				ND	
31	Methyl tert-butyl ether	73		4.793				ND	
32	trans-1,2-Dichloroethene	96		4.812				ND	
33	Hexane	57		5.225				ND	

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
	35 Vinyl acetate	43		5.432				ND	
	36 1,1-Dichloroethane	63		5.450				ND	
	37 Isopropyl ether	45		5.505				ND	
	38 2-Chloro-1,3-butadiene	53		5.560				ND	
	39 Tert-butyl ethyl ether	59		6.040				ND	7
S	40 1,2-Dichloroethene, Total	100		6.155				ND	7
	41 2-Butanone (MEK)	43		6.229				ND	
	42 cis-1,2-Dichloroethene	96		6.272				ND	
	43 Ethyl acetate	43		6.290				ND	
	44 2,2-Dichloropropane	77		6.296				ND	
	45 Propionitrile	54		6.302				ND	
	46 Methacrylonitrile	67		6.527				ND	
	47 Chlorobromomethane	128		6.606				ND	
	48 Tetrahydrofuran	71		6.625				ND	
	49 Chloroform	83		6.752				ND	
$	50 Dibromofluoromethane (Surr)	113	6.965	6.965	0.000	94	301054	49.9	
	51 1,1,1-Trichloroethane	97		6.990				ND	
	52 Cyclohexane	56		7.099				ND	
	53 1,1-Dichloropropene	75		7.202				ND	
	54 Carbon tetrachloride	117		7.209				ND	
	55 Isobutyl alcohol	41		7.306				ND	
$	56 1,2-Dichloroethane-d4 (Surr)	102	7.428	7.428	0.000	98	84509	51.0	
	57 Benzene	78		7.464				ND	
	58 Isopropyl acetate	43		7.519				ND	
	59 1,2-Dichloroethane	62		7.531				ND	7
	60 Tert-amyl methyl ether	73		7.647				ND	
	61 t-Amyl alcohol	73	7.860	7.842	0.018	34	16073	NC	
*	62 Fluorobenzene (IS)	96	7.860	7.859	0.001	99	1341374	50.0	
	63 n-Heptane	43		7.878				ND	
	64 n-Butanol	56		8.188				ND	
	65 Trichloroethene	95		8.346				ND	
	66 Methylcyclohexane	83		8.663				ND	
	67 1,2-Dichloropropane	63		8.675				ND	
	34 2-ethoxy-2-methyl butane	87		8.675				ND	
	68 Methyl methacrylate	69		8.742				ND	
	69 1,4-Dioxane	88		8.754				ND	
	70 Dibromomethane	93		8.784				ND	
	71 n-Propyl acetate	61		8.815				ND	
	72 Dichlorobromomethane	83		9.015				ND	
	73 2-Nitropropane	41		9.253				ND	
	74 2-Chloroethyl vinyl ether	63		9.356				ND	
	75 cis-1,3-Dichloropropene	75		9.545				ND	
	76 4-Methyl-2-pentanone (MIBK)	43		9.703				ND	
$	77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	94	1320445	49.5	
	78 Toluene	92		9.928				ND	
S	79 1,3-Dichloropropene, Total	100		10.060				ND	7
	80 trans-1,3-Dichloropropene	75		10.171				ND	
	81 Ethyl methacrylate	69		10.232				ND	
	82 1,1,2-Trichloroethane	97		10.378				ND	
	83 Tetrachloroethene	166		10.475				ND	
	84 1,3-Dichloropropane	76		10.536				ND	
	86 2-Hexanone	43		10.579				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
85 3,4-Dichloro-1-butene	75		10.579				ND	
87 n-Butyl acetate	43		10.700				ND	
88 Chlorodibromomethane	129		10.761				ND	
89 Ethylene Dibromide	107		10.871				ND	
S 90 Xylenes, Total	106		11.245				ND	7
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	86	983785	50.0	
92 1-Chlorohexane	91	11.297	11.297	0.000	33	1743	0.1512	
93 Chlorobenzene	112		11.321				ND	
94 1,1,1,2-Tetrachloroethane	131		11.406				ND	
95 Ethylbenzene	91		11.406				ND	
96 m-Xylene & p-Xylene	106		11.522				ND	
97 o-Xylene	106		11.844				ND	
98 Styrene	104		11.862				ND	
99 Bromoform	173		12.027				ND	
100 Isopropylbenzene	105		12.148				ND	
101 cis-1,4-Dichloro-2-butene	88		12.185				ND	
102 Cyclohexanone	55		12.215				ND	
$ 103 4-Bromofluorobenzene (Surr)	95	12.294	12.294	0.000	90	475751	47.6	
104 1,1,2,2-Tetrachloroethane	83		12.380				ND	
106 trans-1,4-Dichloro-2-butene	53		12.404				ND	
105 Bromobenzene	156		12.410				ND	
107 1,2,3-Trichloropropane	110		12.428				ND	
108 N-Propylbenzene	91		12.471				ND	
109 2-Chlorotoluene	126		12.550				ND	
110 1,3,5-Trimethylbenzene	105		12.605				ND	
111 4-Chlorotoluene	126		12.641				ND	
112 2,3,4-Trichlorobutene	109		12.659				ND	
113 tert-Butylbenzene	134		12.848				ND	
114 Pentachloroethane	167		12.885				ND	
115 1,2,4-Trimethylbenzene	105		12.891				ND	
116 sec-Butylbenzene	105		13.012				ND	
117 1,3-Dichlorobenzene	146		13.116				ND	
118 4-Isopropyltoluene	119		13.122				ND	
* 119 1,4-Dichlorobenzene-d4	152	13.170	13.170	0.000	95	512517	50.0	
121 1,4-Dichlorobenzene	146		13.189				ND	
120 1,2,3-Trimethylbenzene	105		13.195				ND	
122 Benzyl chloride	91		13.262				ND	7
123 1,3-Diethylbenzene	119		13.323				ND	
124 p-Diethylbenzene	119		13.396				ND	
125 n-Butylbenzene	92		13.414				ND	
126 1,2-Dichlorobenzene	146		13.450				ND	
127 o-diethylbenzene	119		13.462				ND	
128 Hexachloroethane	201		13.560				ND	
129 1,2-Dibromo-3-Chloropropane	75		13.986				ND	
130 1,3,5-Trichlorobenzene	180		14.119				ND	
131 1,2,4-Trichlorobenzene	180		14.539				ND	
132 Hexachlorobutadiene	225		14.624				ND	
133 Naphthalene	128		14.722				ND	
134 1,2,3-Trichlorobenzene	180		14.868				ND	
135 2-Methylnaphthalene	142		15.513				ND	
136 C4-C10	1		0.000				ND	
175 Vinyl bromide TIC	1		0.000				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
176 Epichlorohydrin TIC	1		0.000				ND	
177 2-Bromo-3-chloropropene TIC	1		0.000				ND	
178 Ethylene oxide TIC	1		0.000				ND	
179 2,3-Dibromopropene TIC	1		0.000				ND	
180 3-Chloro-1,2-propanediol TIC	1		0.000				ND	
181 1-Bromo-2-chloroethane TIC	1		0.000				ND	
182 1,2,3,4-Diepoxybutane (TIC)	1		0.000				ND	
183 N-Nitrosodi-n-butylamine TIC	1		0.000				ND	
184 1,3-Dichloro-2-propanol TIC	1		0.000				ND	
185 n-Propylamine (TIC)	1		0.000				ND	
186 beta-Propiolactone TIC	1		0.000				ND	
187 Propargyl alcohol TIC	1		0.000				ND	
188 Propanol TIC	1		0.000				ND	
204 Ethanol TIC	1		0.000				ND	
173 Epibromohydrin TIC	1		0.000				ND	
191 2-Pentanone (TIC)	1		0.000				ND	
192 Malononitrile (TIC)	1		0.000				ND	
193 2-Picoline (TIC)	1		0.000				ND	
194 Vinyl acetate (TIC)	1		0.000				ND	
195 Allyl Alcohol TIC	1		0.000				ND	
196 1-Bromopropane TIC	1		0.000				ND	
197 Pentafluorobenzene TIC	1		0.000				ND	
198 Bis(2-chloroethyl)sulfide (TIC)	1		0.000				ND	
199 Paraldehyde TIC	1		0.000				ND	
200 Bromoacetone (TIC)	1		0.000				ND	
201 Methanol TIC	1		0.000				ND	
202 Chloral hydrate (TIC)	1		0.000				ND	
203 Pentachloroethane TIC	1		0.000				ND	
174 Chloroacetaldehyde TIC	1		0.000				ND	
189 Hexachloroethane TIC	1		0.000				ND	
190 Nitrobenzene TIC	1		0.000				ND	
171 Monochloroacetic acid TIC	1		0.000				ND	
143 Methyl acrylate	1		0.000				ND	
158 Propene oxide	1		0.000				ND	
157 C4-C12	1		0.000				ND	
156 1-Chlorobutane	1		0.000				ND	
155 1,4-Divinylbenzene	1		0.000				ND	
154 trans-1,2,3-Trichlorobutene-2	1		0.000				ND	
153 1,1-Dichloro-1-fluoroethane	1		0.000				ND	
152 cis-1,2,3-Trichlorobutene-2	1		0.000				ND	
151 2,3-Dichloro-1,3-butadiene	1		0.000				ND	
150 Diethoxymethane	1		0.000				ND	
149 C5-C12	1		0.000				ND	
148 1-Bromo-2-chloroethane	1		0.000				ND	
147 C6-C12	1		0.000				ND	
S 146 Total Diethylbenzene	1		0.000				ND	7
145 3-chloro-1-Butene	1		0.000				ND	
206 1,1,2,2-Tetrachloro-1,2-difluoro	1		0.000				ND	
159 1,3-Dichlorobutene-2(total)	1		0.000				ND	
142 tert-Butyl Formate	1		0.000				ND	
141 1,3-Divinylbenzene	1		0.000				ND	
140 Ethyl bromide	1		0.000				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
139 Chloroacetonitrile	1		0.000				ND	
S 138 divinyl benzene	1		0.000				ND	7
137 Methylal	1		0.000				ND	
160 n-Decane	57		0.000				ND	
161 Dodecane	57		0.000				ND	
167 Butane	1		0.000				ND	
168 2,3-Dibromo-1-propanol TIC	1		0.000				ND	
169 1-Methyl-2-pyrrilidinone TIC	1		0.000				ND	
170 2-Bromoethanol TIC	1		0.000				ND	
172 2-Chloroethanol TIC	1		0.000				ND	
205 o-toluidine TIC	1		0.000				ND	
144 C6-C10	1		0.000				ND	
207 Ethyl acrylate	55		0.000				ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

Reagents:

MSV_HP20_ISSS_00026 Amount Added: 1.00 Units: uL Run Reagent

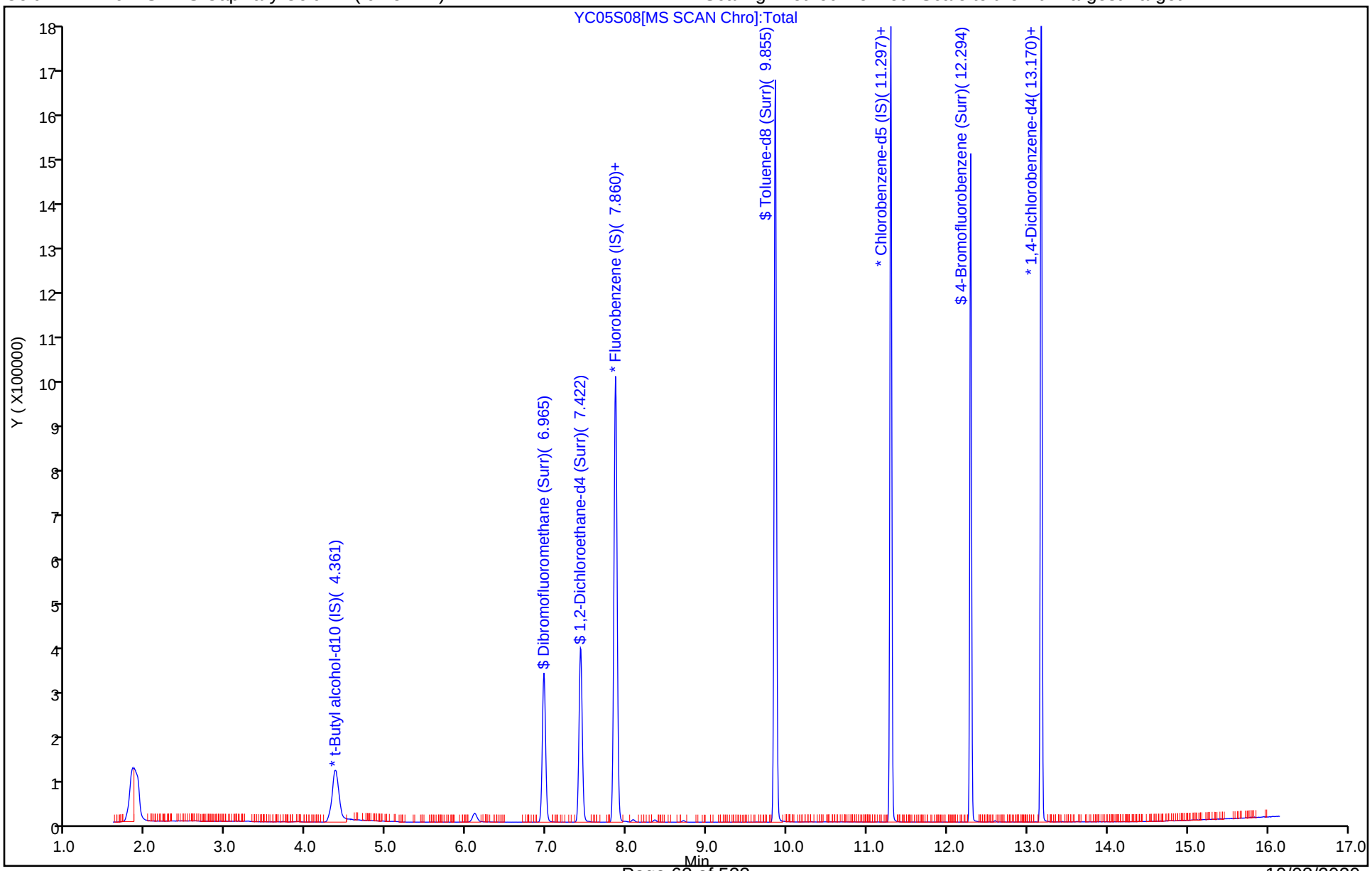
Report Date: 06-Oct-2020 13:23:28 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S08.D

Injection Date:	05-Oct-2020 16:21:30	Instrument ID:	9355	Operator ID:	kas02648
Lims ID:	410-15514-A-3	Lab Sample ID:	410-15514-3	Worklist Smp#:	15
Client ID:	MW-10D-20200928				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MSVoa_9355	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.: 410-15514-1

SDG No.:

Client Sample ID: MW-7S-20200928 Lab Sample ID: 410-15514-4

Matrix: Ground Water Lab File ID: YC05S11.D

Analysis Method: 8260C Date Collected: 09/28/2020 15:02

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2020 17:28

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.: 50869 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.44	J	1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		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\9355\20201005-12071.b\YC05S11.D
Lims ID: 410-15514-A-4
Client ID: MW-7S-20200928
Sample Type: Client
Inject. Date: 05-Oct-2020 17:28:30 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0012071-018
Operator ID: kas02648 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2020 13:22:14 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1018

First Level Reviewer: mellingerc Date: 06-Oct-2020 13:17:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.355	4.361	-0.006	31	490476	250.0	
31 Methyl tert-butyl ether	73		4.793				ND	
$ 50 Dibromofluoromethane (Surr)	113	6.959	6.965	-0.006	94	304332	49.5	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.421	7.428	-0.007	98	85251	50.5	
57 Benzene	78	7.458	7.464	-0.006	91	15194	0.4379	
* 62 Fluorobenzene (IS)	96	7.859	7.859	0.000	99	1366769	50.0	
$ 77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	94	1336914	49.4	
78 Toluene	92		9.928				ND	7
S 90 Xylenes, Total	106		11.245				ND	7
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	86	997505	50.0	
95 Ethylbenzene	91		11.406				ND	
96 m-Xylene & p-Xylene	106		11.522				ND	7
97 o-Xylene	106		11.844				ND	
$ 103 4-Bromofluorobenzene (Surr)	95	12.294	12.294	0.000	89	487544	48.1	
* 119 1,4-Dichlorobenzene-d4	152	13.176	13.170	0.006	95	520744	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP20_ISSS_00026 Amount Added: 1.00 Units: uL Run Reagent

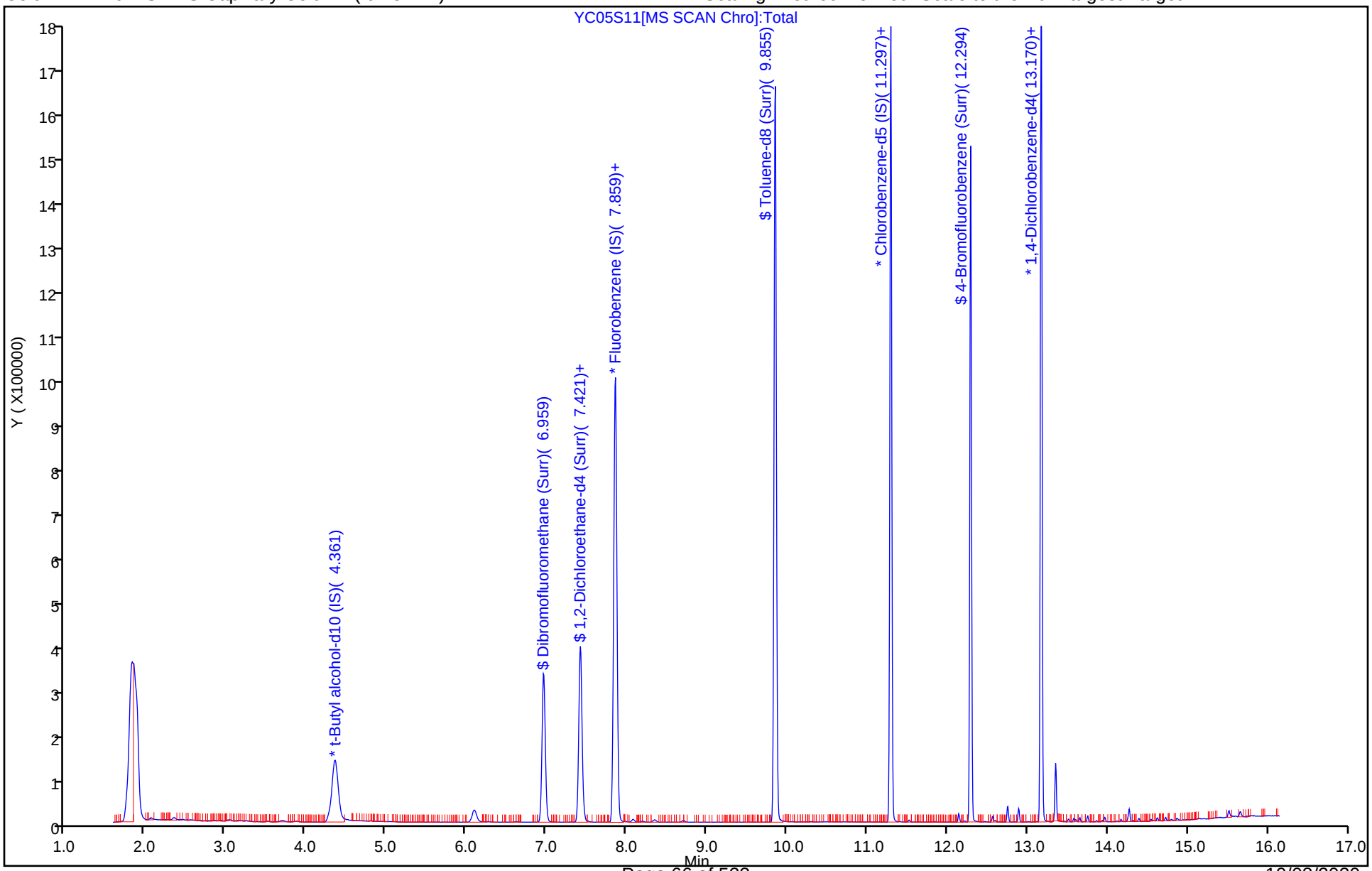
Report Date: 06-Oct-2020 13:23:42 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S11.D

Injection Date:	05-Oct-2020 17:28:30	Instrument ID:	9355	Operator ID:	kas02648
Lims ID:	410-15514-A-4	Lab Sample ID:	410-15514-4	Worklist Smp#:	18
Client ID:	MW-7S-20200928				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

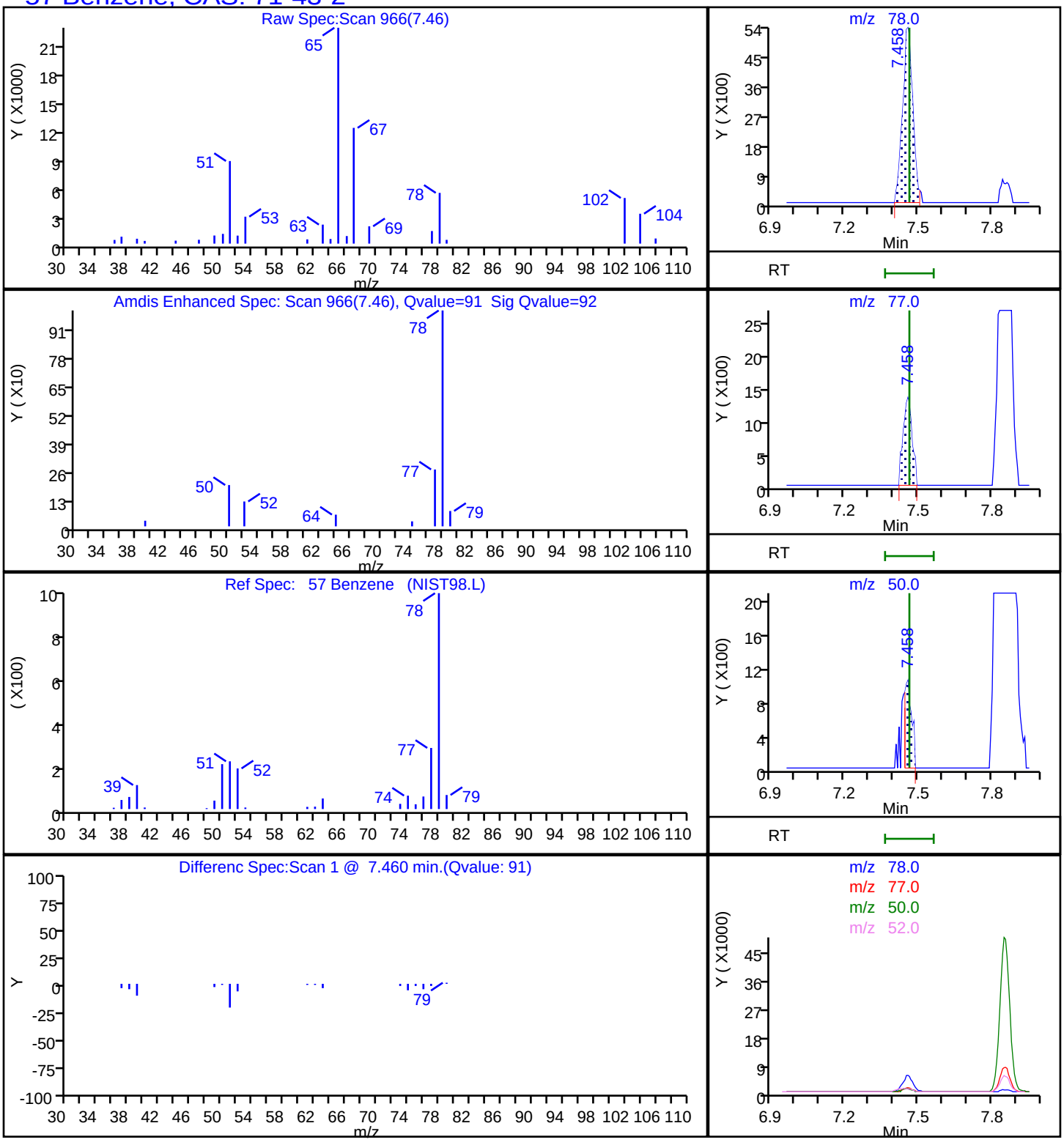
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S11.D				
Injection Date:	05-Oct-2020 17:28:30	Instrument ID:	9355		
Lims ID:	410-15514-A-4	Lab Sample ID:	410-15514-4		
Client ID:	MW-7S-20200928				
Operator ID:	kas02648	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

57 Benzene, CAS: 71-43-2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15514-1

SDG No.:

Client Sample ID: MW-7D-20200928 Lab Sample ID: 410-15514-5

Matrix: Ground Water Lab File ID: YC05S12.D

Analysis Method: 8260C Date Collected: 09/28/2020 15:40

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2020 17:50

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.: 50869 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S12.D
Lims ID: 410-15514-A-5
Client ID: MW-7D-20200928
Sample Type: Client
Inject. Date: 05-Oct-2020 17:50:30 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0012071-019
Operator ID: kas02648 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2020 13:22:14 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1018

First Level Reviewer: mellingerc Date: 06-Oct-2020 13:17:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.368	4.361	0.007	29	458899	250.0	
31 Methyl tert-butyl ether	73		4.793				ND	
$ 50 Dibromofluoromethane (Surr)	113	6.965	6.965	0.000	93	299579	49.4	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.428	7.428	0.000	98	84947	50.9	
57 Benzene	78		7.464				ND	
* 62 Fluorobenzene (IS)	96	7.860	7.859	0.001	99	1350073	50.0	
$ 77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	94	1324695	49.1	
78 Toluene	92		9.928				ND	
S 90 Xylenes, Total	106		11.245				ND	7
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	86	995144	50.0	
95 Ethylbenzene	91		11.406				ND	
96 m-Xylene & p-Xylene	106		11.522				ND	
97 o-Xylene	106		11.844				ND	
$ 103 4-Bromofluorobenzene (Surr)	95	12.289	12.294	-0.006	89	480401	47.5	
* 119 1,4-Dichlorobenzene-d4	152	13.171	13.170	0.001	96	511965	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP20_ISSS_00026 Amount Added: 1.00 Units: uL Run Reagent

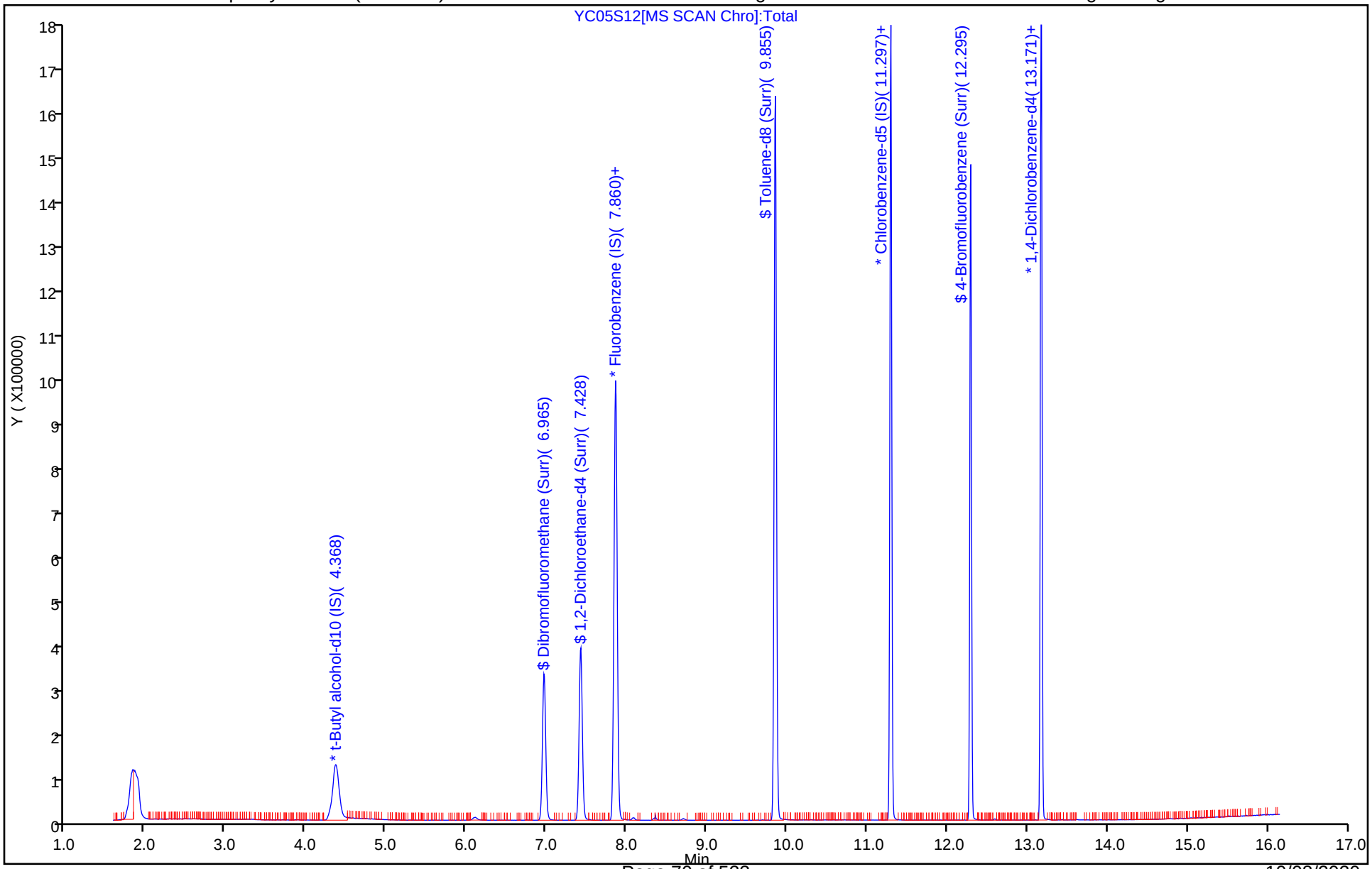
Report Date: 06-Oct-2020 13:23:43 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S12.D

Injection Date:	05-Oct-2020 17:50:30	Instrument ID:	9355	Operator ID:	kas02648
Lims ID:	410-15514-A-5	Lab Sample ID:	410-15514-5	Worklist Smp#:	19
Client ID:	MW-7D-20200928				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	MSVoa_9355	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.: 410-15514-1

SDG No.:

Client Sample ID: MW-8S-20200928 Lab Sample ID: 410-15514-6

Matrix: Ground Water Lab File ID: YC05S13.D

Analysis Method: 8260C Date Collected: 09/28/2020 16:32

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2020 18:12

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.: 50869 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		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\9355\20201005-12071.b\YC05S13.D
Lims ID: 410-15514-A-6
Client ID: MW-8S-20200928
Sample Type: Client
Inject. Date: 05-Oct-2020 18:12:30 ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0012071-020
Operator ID: kas02648 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2020 13:22:14 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1018

First Level Reviewer: mellingerc Date: 06-Oct-2020 13:17:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.368	4.361	0.007	29	438362	250.0	
31 Methyl tert-butyl ether	73	4.806	4.793	0.013	78	2958	0.1193	M
$ 50 Dibromofluoromethane (Surr)	113	6.965	6.965	0.000	94	298091	49.7	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.428	7.428	0.000	98	83205	50.5	
57 Benzene	78		7.464				ND	
* 62 Fluorobenzene (IS)	96	7.860	7.859	0.001	99	1334356	50.0	
$ 77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	94	1302501	49.3	
78 Toluene	92		9.928				ND	
S 90 Xylenes, Total	106		11.245				ND	7
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	86	973937	50.0	
95 Ethylbenzene	91		11.406				ND	
96 m-Xylene & p-Xylene	106		11.522				ND	
97 o-Xylene	106		11.844				ND	
$ 103 4-Bromofluorobenzene (Surr)	95	12.295	12.294	0.001	89	470526	47.5	
* 119 1,4-Dichlorobenzene-d4	152	13.171	13.170	0.001	96	504961	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSV_HP20_ISSS_00026 Amount Added: 1.00 Units: uL Run Reagent

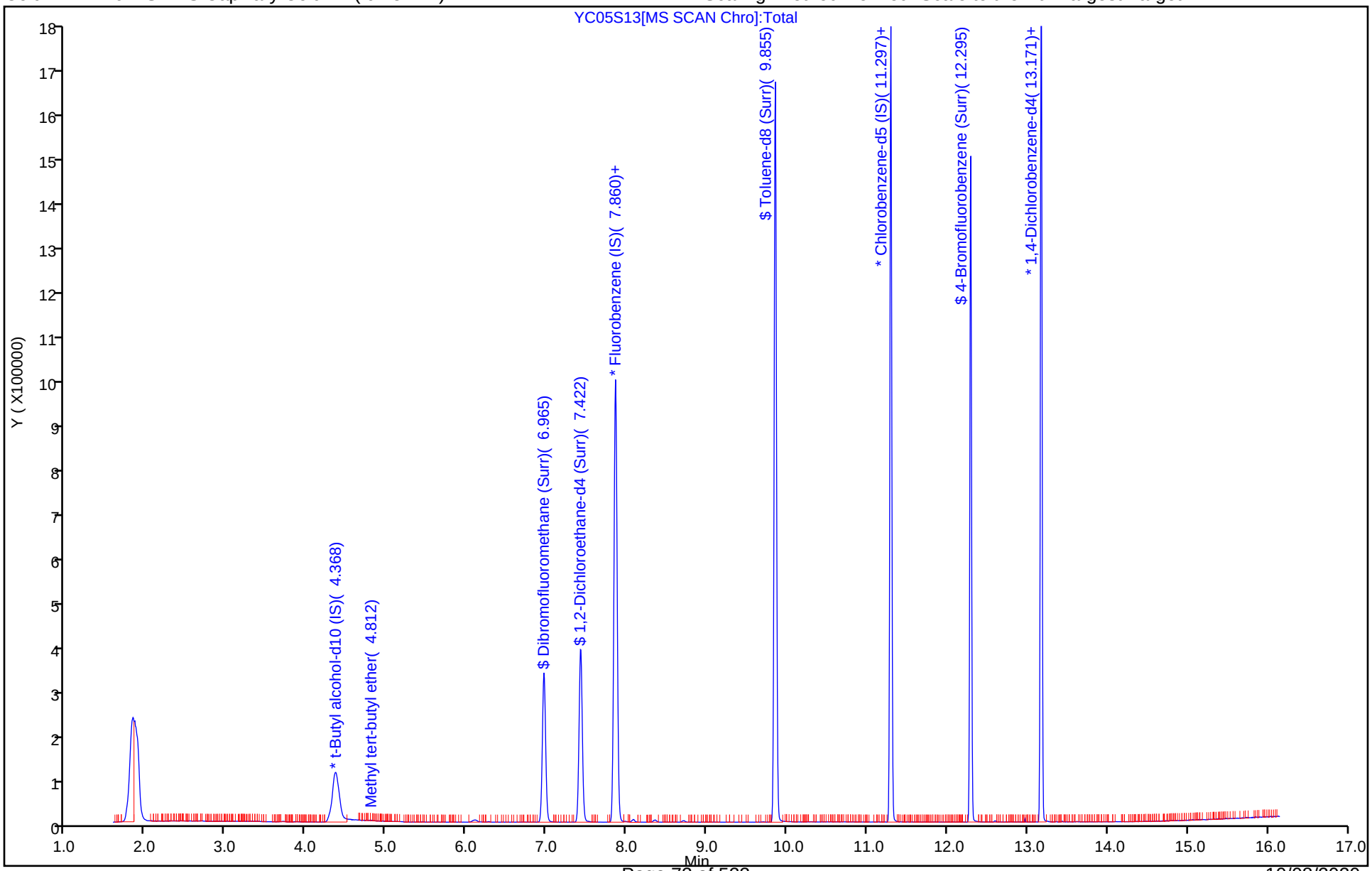
Report Date: 06-Oct-2020 13:23:44 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S13.D

Injection Date:	05-Oct-2020 18:12:30	Instrument ID:	9355	Operator ID:	kas02648
Lims ID:	410-15514-A-6	Lab Sample ID:	410-15514-6	Worklist Smp#:	20
Client ID:	MW-8S-20200928				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	MSVoa_9355	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

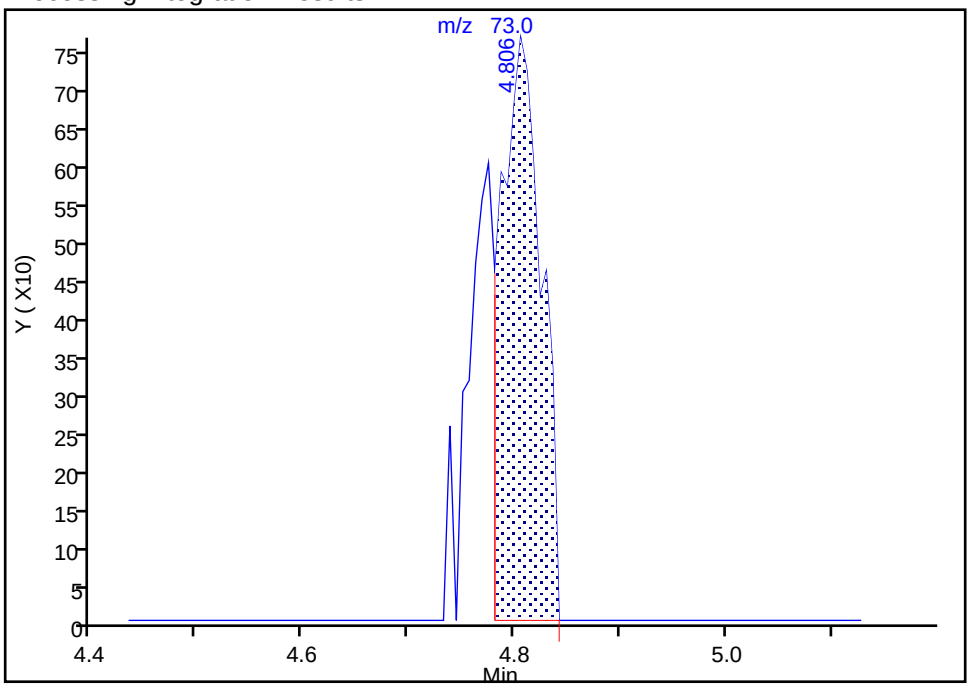
Data File:	\\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S13.D				
Injection Date:	05-Oct-2020 18:12:30	Instrument ID:	9355		
Lims ID:	410-15514-A-6	Lab Sample ID:	410-15514-6		
Client ID:	MW-8S-20200928				
Operator ID:	kas02648	ALS Bottle#:	20	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

31 Methyl tert-butyl ether, CAS: 1634-04-4

Signal: 1

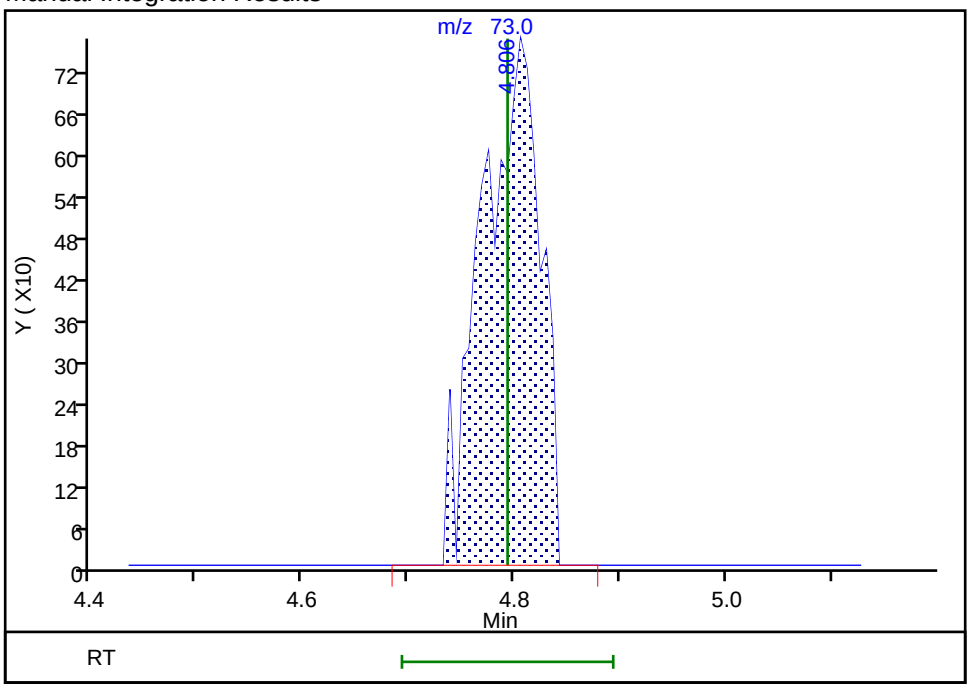
Processing Integration Results

RT: 4.81
Area: 2045
Amount: 0.082466
Amount Units: ug/l



Manual Integration Results

RT: 4.81
Area: 2958
Amount: 0.119283
Amount Units: ug/l



Reviewer: mellingerc, 06-Oct-2020 13:17:50

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15514-1

SDG No.:

Client Sample ID: MW-8D-20200929 Lab Sample ID: 410-15514-7

Matrix: Ground Water Lab File ID: YC05S14.D

Analysis Method: 8260C Date Collected: 09/29/2020 08:27

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2020 18:34

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.: 50869 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
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)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S14.D
Lims ID: 410-15514-A-7
Client ID: MW-8D-20200929
Sample Type: Client
Inject. Date: 05-Oct-2020 18:34:30 ALS Bottle#: 21 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0012071-021
Operator ID: kas02648 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2020 13:22:14 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1018

First Level Reviewer: mellingerc Date: 06-Oct-2020 13:18:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.362	4.361	0.001	29	431920	250.0	
31 Methyl tert-butyl ether	73		4.793				ND	
$ 50 Dibromofluoromethane (Surr)	113	6.959	6.965	-0.006	93	295575	49.5	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.422	7.428	-0.006	98	83407	50.8	
57 Benzene	78		7.464				ND	
* 62 Fluorobenzene (IS)	96	7.860	7.859	0.001	99	1328608	50.0	
$ 77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	94	1300938	48.9	
78 Toluene	92	9.928	9.928	0.000	0	96	0.004503	7M
S 90 Xylenes, Total	106		11.245				ND	7
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	86	981365	50.0	
95 Ethylbenzene	91		11.406				ND	
96 m-Xylene & p-Xylene	106		11.522				ND	
97 o-Xylene	106		11.844				ND	
$ 103 4-Bromofluorobenzene (Surr)	95	12.288	12.294	-0.006	89	469409	47.1	
* 119 1,4-Dichlorobenzene-d4	152	13.171	13.170	0.001	96	503305	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSV_HP20_ISSS_00026 Amount Added: 1.00 Units: uL Run Reagent

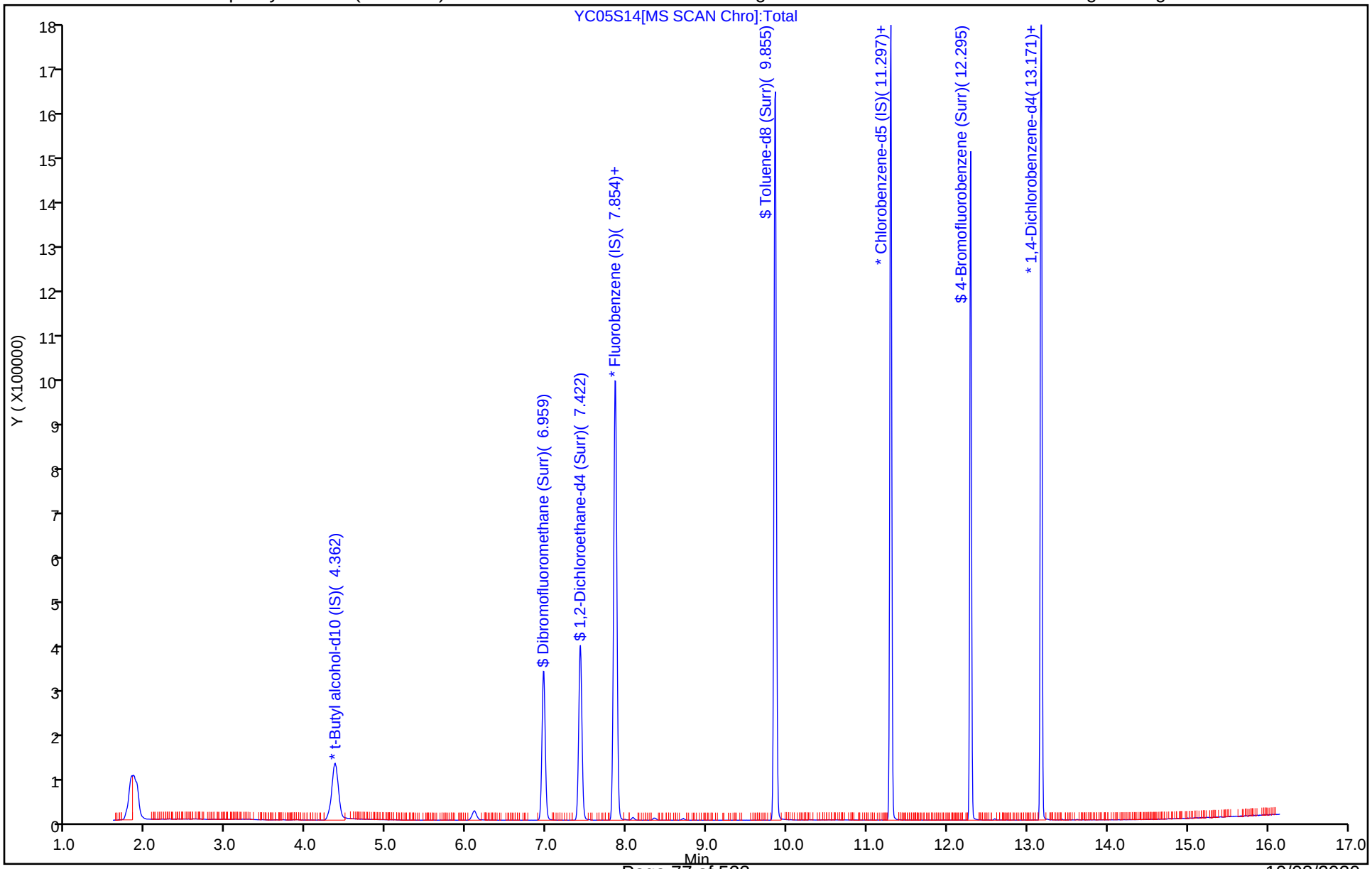
Report Date: 06-Oct-2020 13:23:45 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S14.D

Injection Date:	05-Oct-2020 18:34:30	Instrument ID:	9355	Operator ID:	kas02648
Lims ID:	410-15514-A-7	Lab Sample ID:	410-15514-7	Worklist Smp#:	21
Client ID:	MW-8D-20200929				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	MSVoa_9355	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

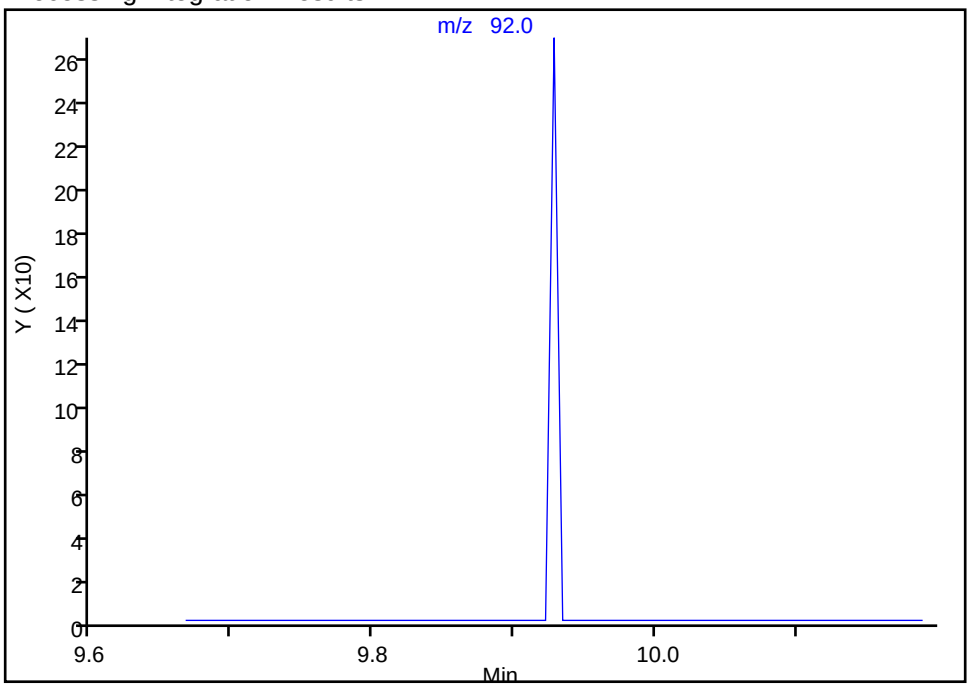
Data File:	\\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S14.D				
Injection Date:	05-Oct-2020 18:34:30	Instrument ID:	9355		
Lims ID:	410-15514-A-7	Lab Sample ID:	410-15514-7		
Client ID:	MW-8D-20200929				
Operator ID:	kas02648	ALS Bottle#:	21	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

78 Toluene, CAS: 108-88-3

Signal: 1

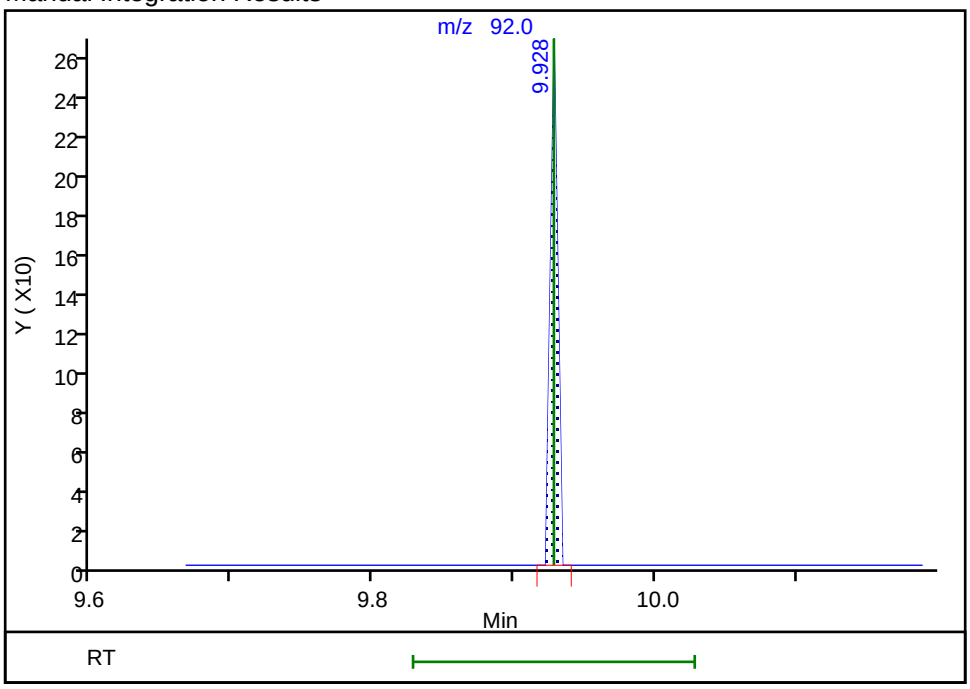
Not Detected
Expected RT: 9.93

Processing Integration Results



Manual Integration Results

RT: 9.93
Area: 96
Amount: 0.004503
Amount Units: ug/l



Reviewer: mellingerc, 06-Oct-2020 13:18:38
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15514-1

SDG No.:

Client Sample ID: MW-14S-20200929 Lab Sample ID: 410-15514-8

Matrix: Ground Water Lab File ID: YC05S15.D

Analysis Method: 8260C Date Collected: 09/29/2020 09:18

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2020 18:55

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.: 50869 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		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\9355\20201005-12071.b\YC05S15.D
Lims ID: 410-15514-A-8
Client ID: MW-14S-20200929
Sample Type: Client
Inject. Date: 05-Oct-2020 18:55:30 ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0012071-022
Operator ID: kas02648 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2020 13:22:14 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1018

First Level Reviewer: mellingerc Date: 06-Oct-2020 13:19:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.368	4.361	0.007	29	433938	250.0	
31 Methyl tert-butyl ether	73		4.793				ND	
$ 50 Dibromofluoromethane (Surr)	113	6.965	6.965	0.000	94	295123	49.9	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.422	7.428	-0.006	98	82042	50.5	
57 Benzene	78		7.464				ND	
* 62 Fluorobenzene (IS)	96	7.860	7.859	0.001	99	1315064	50.0	
$ 77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	94	1284255	49.3	
78 Toluene	92		9.928				ND	
S 90 Xylenes, Total	106		11.245				ND	7
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	86	961345	50.0	
95 Ethylbenzene	91		11.406				ND	
96 m-Xylene & p-Xylene	106		11.522				ND	
97 o-Xylene	106		11.844				ND	
$ 103 4-Bromofluorobenzene (Surr)	95	12.295	12.294	0.001	90	465153	47.6	
* 119 1,4-Dichlorobenzene-d4	152	13.171	13.170	0.001	95	502263	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP20_ISSS_00026 Amount Added: 1.00 Units: uL Run Reagent

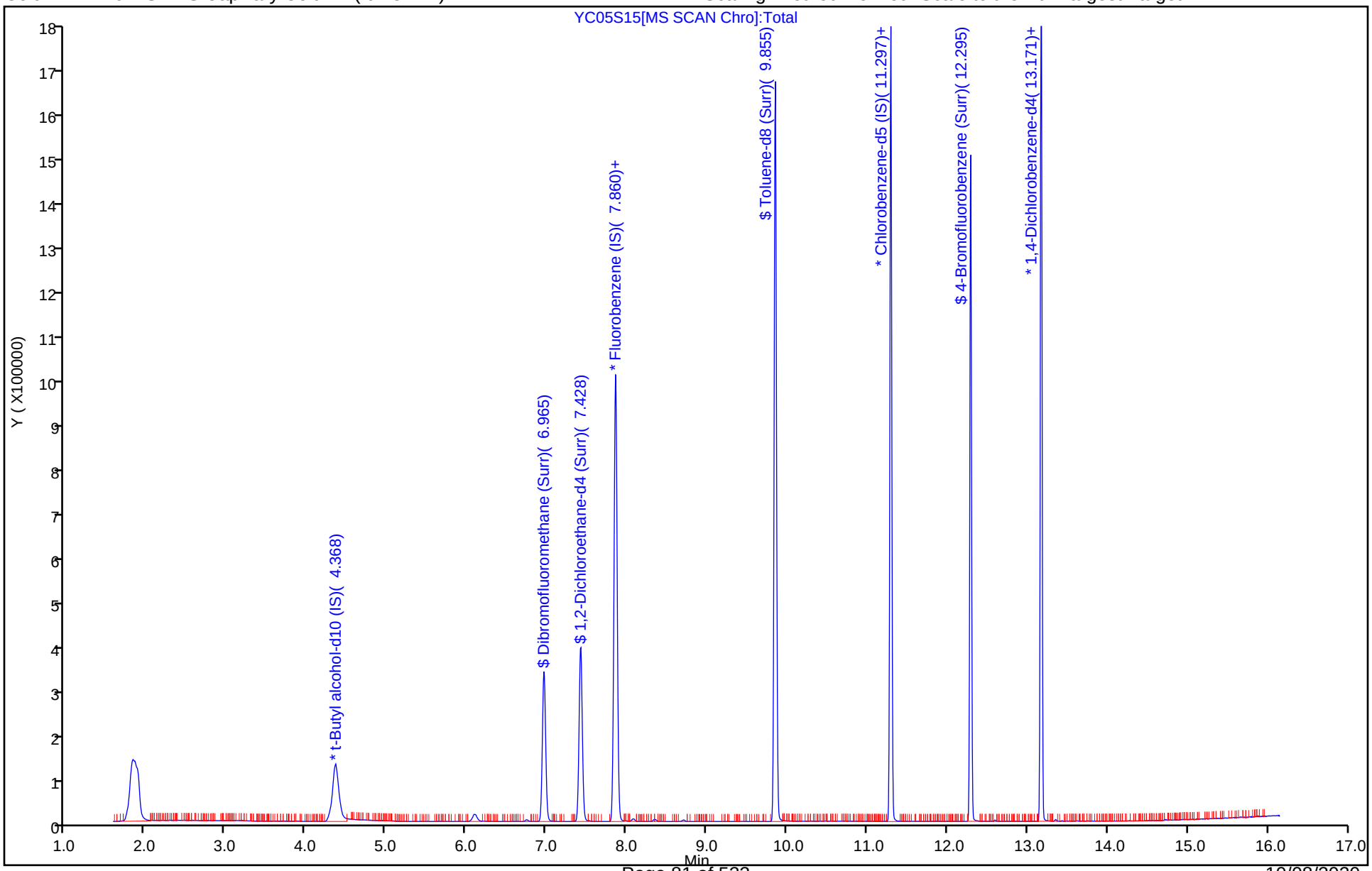
Report Date: 06-Oct-2020 13:23:47 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S15.D

Injection Date:	05-Oct-2020 18:55:30	Instrument ID:	9355	Operator ID:	kas02648
Lims ID:	410-15514-A-8	Lab Sample ID:	410-15514-8	Worklist Smp#:	22
Client ID:	MW-14S-20200929				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	MSVoa_9355	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.: 410-15514-1

SDG No.:

Client Sample ID: MW-14D-20200929 Lab Sample ID: 410-15514-9

Matrix: Ground Water Lab File ID: YC05S16.D

Analysis Method: 8260C Date Collected: 09/29/2020 09:58

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2020 19:18

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.: 50869 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		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\9355\20201005-12071.b\YC05S16.D
Lims ID: 410-15514-A-9
Client ID: MW-14D-20200929
Sample Type: Client
Inject. Date: 05-Oct-2020 19:18:30 ALS Bottle#: 23 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0012071-023
Operator ID: kas02648 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2020 13:22:14 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1018

First Level Reviewer: mellingerc Date: 06-Oct-2020 13:19:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.368	4.361	0.007	30	399676	250.0	
31 Methyl tert-butyl ether	73		4.793				ND	
$ 50 Dibromofluoromethane (Surr)	113	6.965	6.965	0.000	93	273850	49.8	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.421	7.428	-0.007	98	76275	50.5	
57 Benzene	78		7.464				ND	
* 62 Fluorobenzene (IS)	96	7.859	7.859	0.000	99	1222002	50.0	
$ 77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	94	1181441	48.7	
78 Toluene	92		9.928				ND	
S 90 Xylenes, Total	106		11.245				ND	7
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	86	895167	50.0	
95 Ethylbenzene	91		11.406				ND	
96 m-Xylene & p-Xylene	106		11.522				ND	
97 o-Xylene	106		11.844				ND	
$ 103 4-Bromofluorobenzene (Surr)	95	12.294	12.294	0.000	89	428264	47.1	
* 119 1,4-Dichlorobenzene-d4	152	13.170	13.170	0.000	95	464865	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP20_ISSS_00026 Amount Added: 1.00 Units: uL Run Reagent

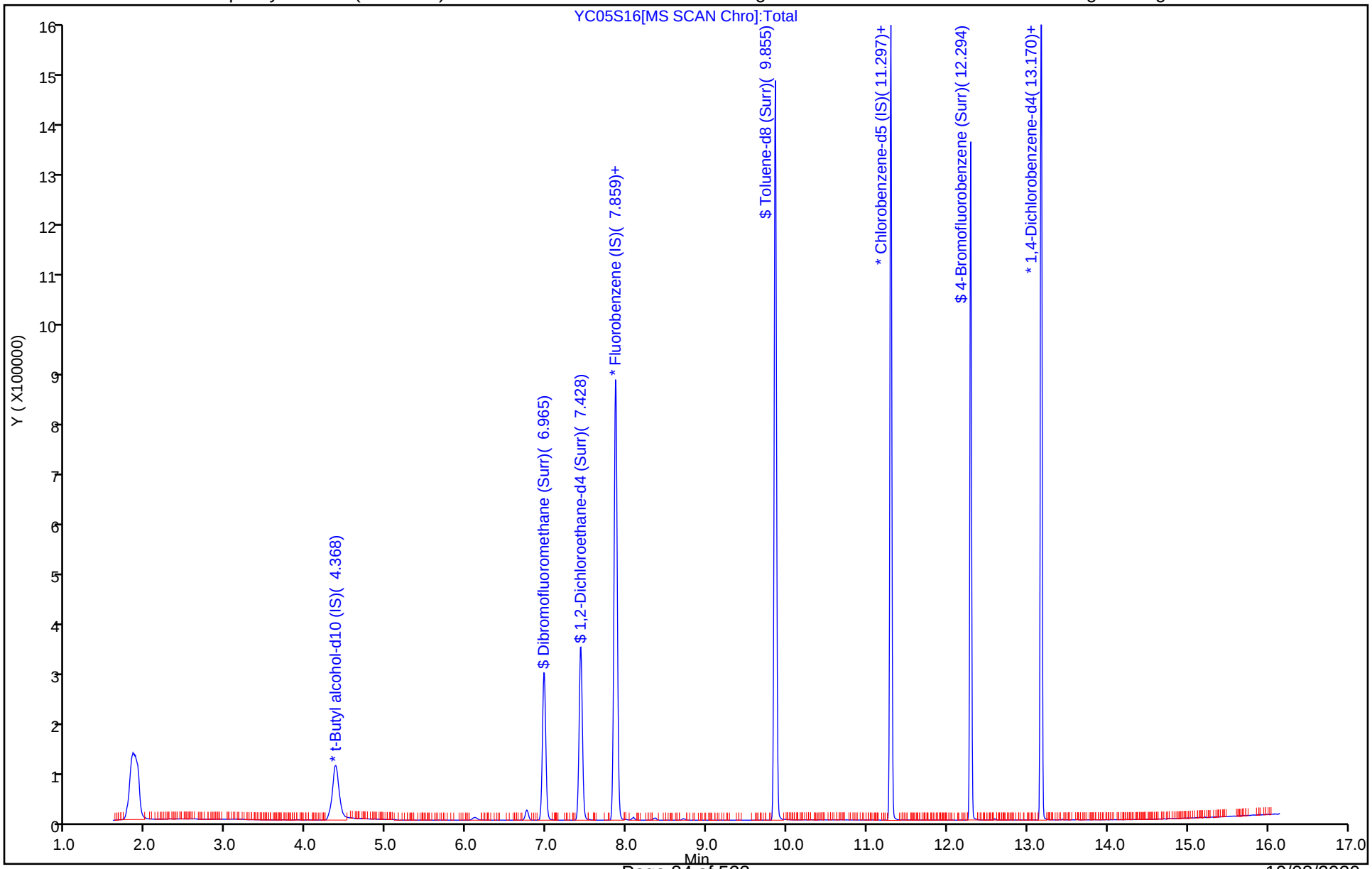
Report Date: 06-Oct-2020 13:23:48 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S16.D

Injection Date:	05-Oct-2020 19:18:30	Instrument ID:	9355	Operator ID:	kas02648
Lims ID:	410-15514-A-9	Lab Sample ID:	410-15514-9	Worklist Smp#:	23
Client ID:	MW-14D-20200929				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	MSVoa_9355	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.: 410-15514-1

SDG No.:

Client Sample ID: FB-20200929 Lab Sample ID: 410-15514-10

Matrix: Water Lab File ID: YC05S02.D

Analysis Method: 8260C Date Collected: 09/29/2020 10:10

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2020 14:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 50869 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		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\9355\20201005-12071.b\YC05S02.D
Lims ID: 410-15514-A-10
Client ID: FB-20200929
Sample Type: Client
Inject. Date: 05-Oct-2020 14:09:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0012071-009
Operator ID: kas02648 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2020 13:22:14 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1018

First Level Reviewer: mellingerc Date: 06-Oct-2020 12:26:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.361	4.361	0.000	78	473139	250.0	
31 Methyl tert-butyl ether	73		4.793				ND	
$ 50 Dibromofluoromethane (Surr)	113	6.965	6.965	0.000	94	310937	48.9	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.422	7.428	-0.006	98	87977	50.4	
57 Benzene	78		7.464				ND	
* 62 Fluorobenzene (IS)	96	7.860	7.859	0.001	99	1413588	50.0	
$ 77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	94	1379341	49.3	
78 Toluene	92		9.928				ND	
S 90 Xylenes, Total	106		11.245				ND	7
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	86	1033022	50.0	
95 Ethylbenzene	91		11.406				ND	
96 m-Xylene & p-Xylene	106		11.522				ND	
97 o-Xylene	106		11.844				ND	
$ 103 4-Bromofluorobenzene (Surr)	95	12.294	12.294	0.000	90	503903	48.0	
* 119 1,4-Dichlorobenzene-d4	152	13.171	13.170	0.000	96	530414	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP20_ISSS_00026 Amount Added: 1.00 Units: uL Run Reagent

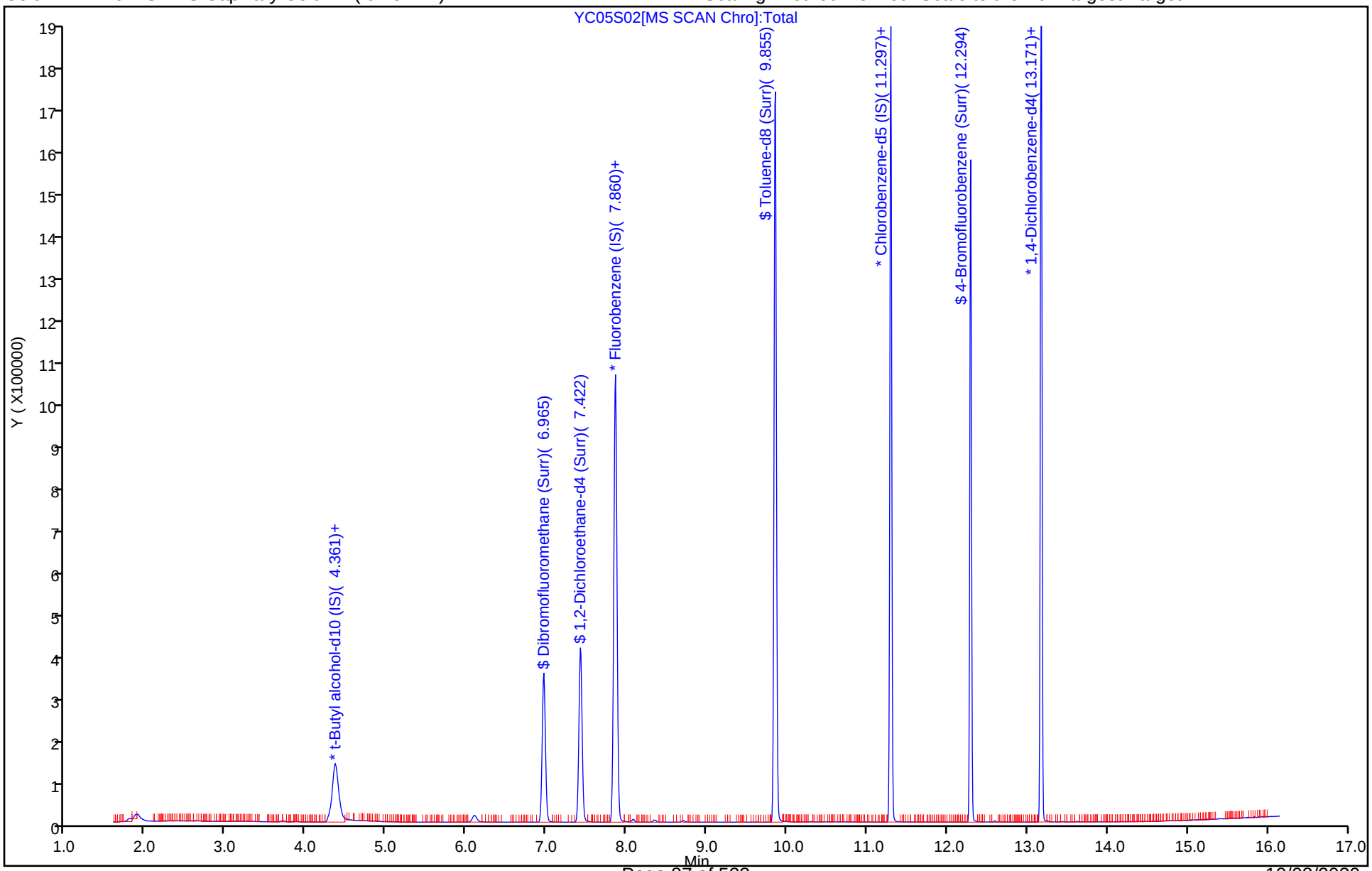
Report Date: 06-Oct-2020 13:23:21 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S02.D

Injection Date:	05-Oct-2020 14:09:30	Instrument ID:	9355	Operator ID:	kas02648
Lims ID:	410-15514-A-10	Lab Sample ID:	410-15514-10	Worklist Smp#:	9
Client ID:	FB-20200929				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MSVoa_9355	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.: 410-15514-1

SDG No.:

Client Sample ID: MW-12S-20200929 Lab Sample ID: 410-15514-11

Matrix: Ground Water Lab File ID: YC05S17.D

Analysis Method: 8260C Date Collected: 09/29/2020 10:55

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2020 19:40

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.: 50869 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
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)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		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\9355\20201005-12071.b\YC05S17.D
Lims ID: 410-15514-A-11
Client ID: MW-12S-20200929
Sample Type: Client
Inject. Date: 05-Oct-2020 19:40:30 ALS Bottle#: 24 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0012071-024
Operator ID: kas02648 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2020 13:22:14 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1018

First Level Reviewer: mellingerc Date: 06-Oct-2020 13:19:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.362	4.361	0.001	29	437154	250.0	
31 Methyl tert-butyl ether	73		4.793				ND	
$ 50 Dibromofluoromethane (Surr)	113	6.965	6.965	0.000	94	291357	50.1	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.422	7.428	-0.006	98	81955	51.3	
57 Benzene	78		7.464				ND	
* 62 Fluorobenzene (IS)	96	7.860	7.859	0.001	99	1293076	50.0	
$ 77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	94	1266119	49.4	
78 Toluene	92		9.928				ND	
S 90 Xylenes, Total	106		11.245				ND	7
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	86	944642	50.0	
95 Ethylbenzene	91		11.406				ND	
96 m-Xylene & p-Xylene	106		11.522				ND	
97 o-Xylene	106		11.844				ND	
$ 103 4-Bromofluorobenzene (Surr)	95	12.295	12.294	0.000	90	454978	47.4	
* 119 1,4-Dichlorobenzene-d4	152	13.171	13.170	0.001	95	493225	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP20_ISSS_00026 Amount Added: 1.00 Units: uL Run Reagent

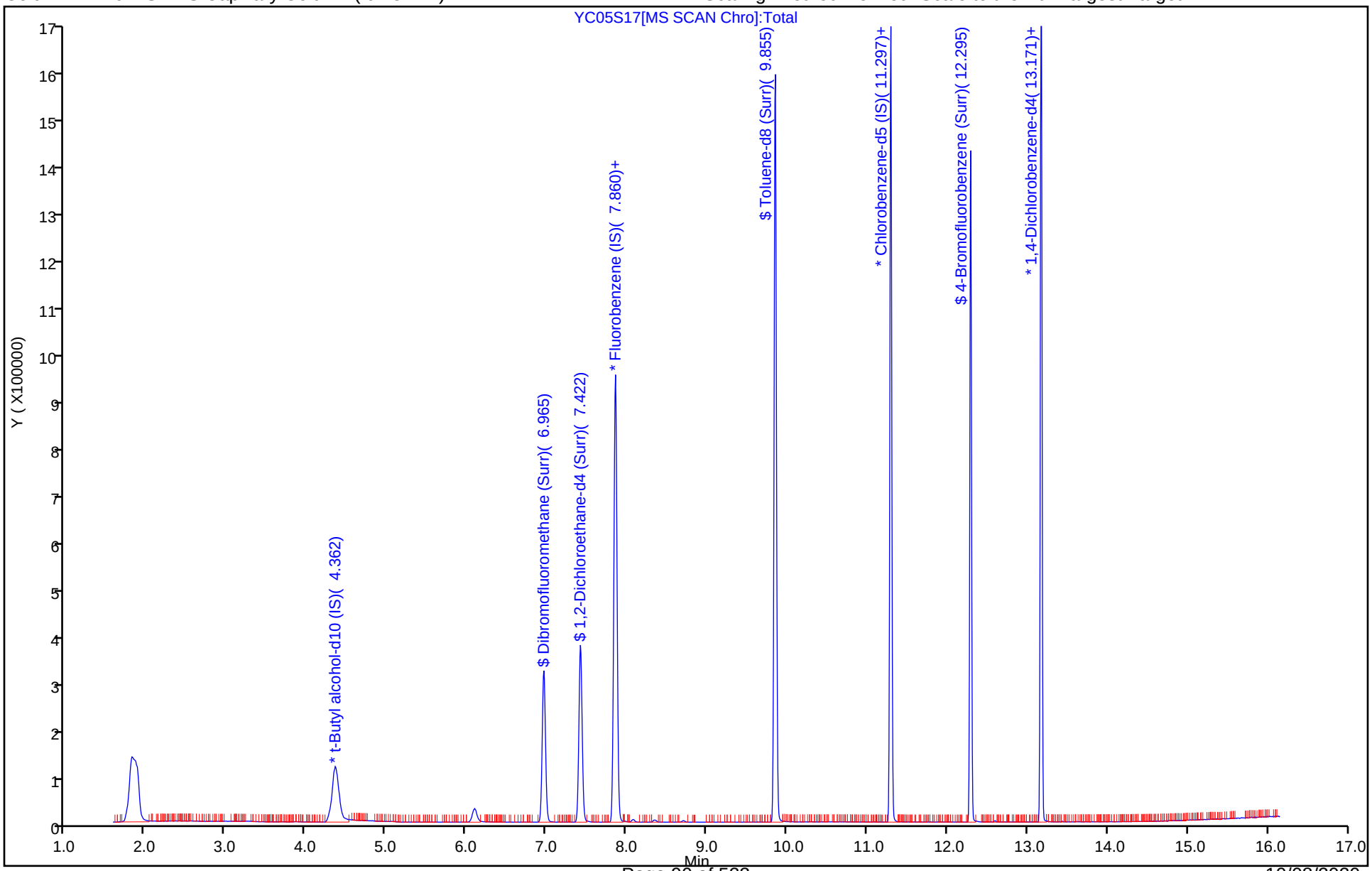
Report Date: 06-Oct-2020 13:23:49 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S17.D

Injection Date:	05-Oct-2020 19:40:30	Instrument ID:	9355	Operator ID:	kas02648
Lims ID:	410-15514-A-11	Lab Sample ID:	410-15514-11	Worklist Smp#:	24
Client ID:	MW-12S-20200929				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	MSVoa_9355	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.: 410-15514-1

SDG No.:

Client Sample ID: MW-12D-20200929 Lab Sample ID: 410-15514-12

Matrix: Ground Water Lab File ID: YC05S18.D

Analysis Method: 8260C Date Collected: 09/29/2020 11:33

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2020 20:02

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.: 50869 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
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)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S18.D
Lims ID: 410-15514-A-12
Client ID: MW-12D-20200929
Sample Type: Client
Inject. Date: 05-Oct-2020 20:02:30 ALS Bottle#: 25 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0012071-025
Operator ID: kas02648 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2020 13:22:14 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1018

First Level Reviewer: mellingerc Date: 06-Oct-2020 13:20:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.368	4.361	0.007	29	419062	250.0	
31 Methyl tert-butyl ether	73	4.787	4.793	-0.006	1	542	0.0225	7M
$ 50 Dibromofluoromethane (Surr)	113	6.965	6.965	0.000	93	295476	50.7	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.428	7.428	0.000	98	81661	51.0	
57 Benzene	78		7.464				ND	
* 62 Fluorobenzene (IS)	96	7.859	7.859	0.000	99	1296214	50.0	
$ 77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	94	1258023	49.0	
78 Toluene	92		9.928				ND	
S 90 Xylenes, Total	106		11.245				ND	7
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	86	946538	50.0	
95 Ethylbenzene	91		11.406				ND	
96 m-Xylene & p-Xylene	106		11.522				ND	
97 o-Xylene	106		11.844				ND	
$ 103 4-Bromofluorobenzene (Surr)	95	12.294	12.294	0.000	90	453887	47.2	
* 119 1,4-Dichlorobenzene-d4	152	13.170	13.170	0.000	95	497544	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSV_HP20_ISSS_00026 Amount Added: 1.00 Units: uL Run Reagent

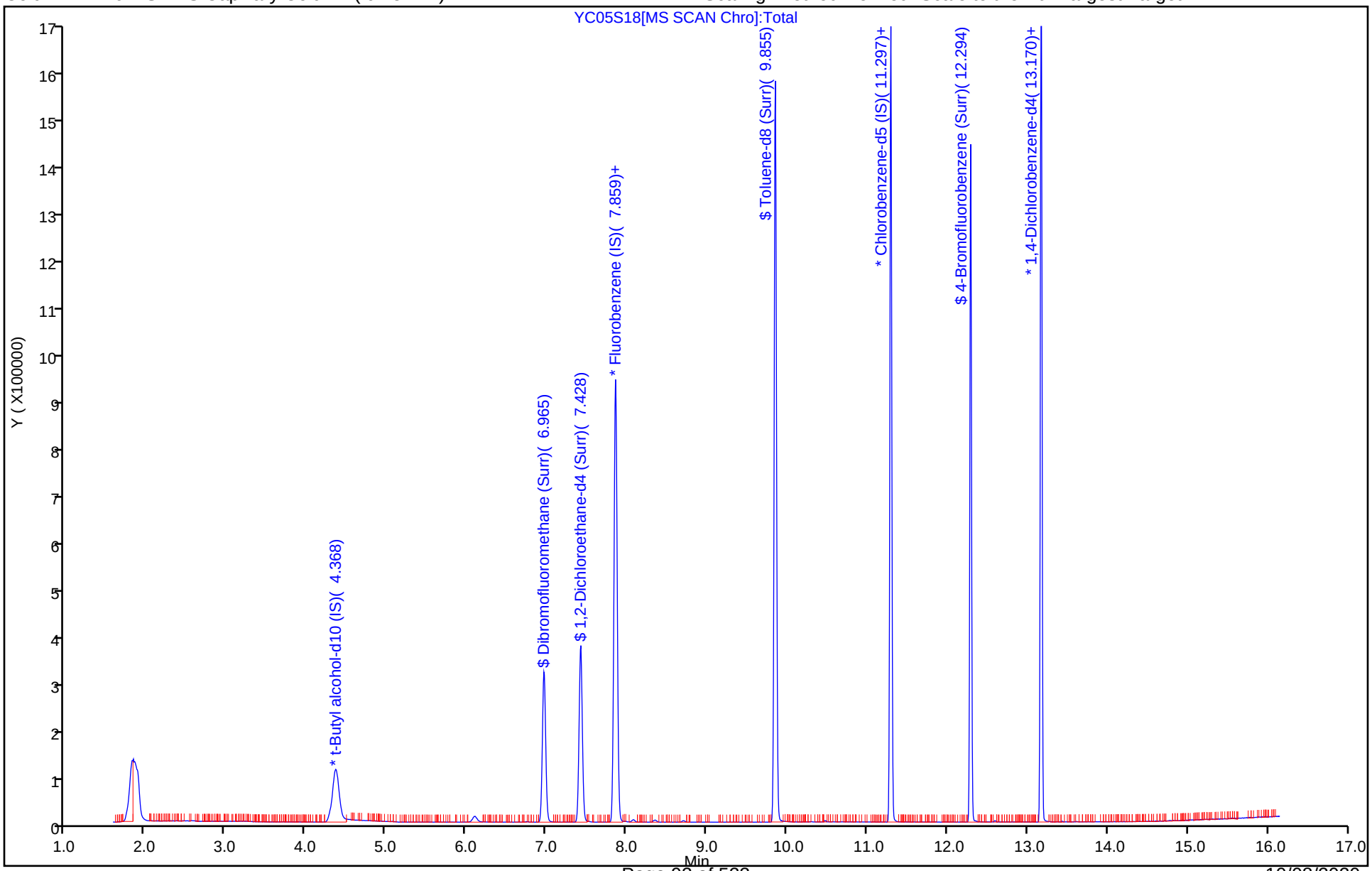
Report Date: 06-Oct-2020 13:23:51 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S18.D

Injection Date:	05-Oct-2020 20:02:30	Instrument ID:	9355	Operator ID:	kas02648
Lims ID:	410-15514-A-12	Lab Sample ID:	410-15514-12	Worklist Smp#:	25
Client ID:	MW-12D-20200929				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	MSVoa_9355	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

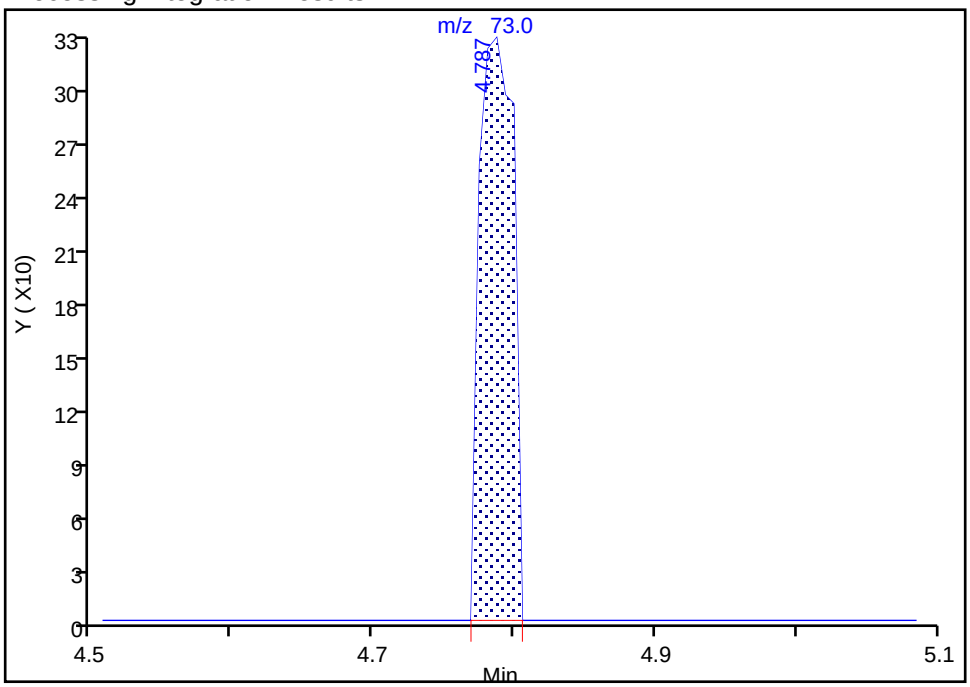
Data File:	\\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S18.D				
Injection Date:	05-Oct-2020 20:02:30	Instrument ID:	9355		
Lims ID:	410-15514-A-12	Lab Sample ID:	410-15514-12		
Client ID:	MW-12D-20200929				
Operator ID:	kas02648	ALS Bottle#:	25	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

31 Methyl tert-butyl ether, CAS: 1634-04-4

Signal: 1

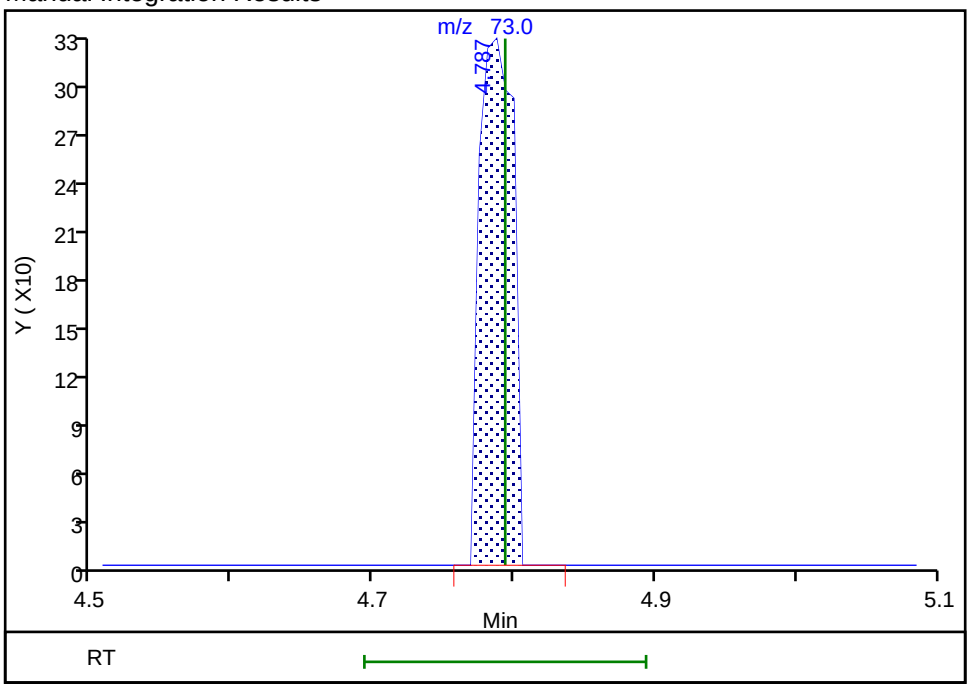
Processing Integration Results

RT: 4.79
Area: 542
Amount: 0.022500
Amount Units: ug/l



Manual Integration Results

RT: 4.79
Area: 542
Amount: 0.022500
Amount Units: ug/l



Reviewer: mellingerc, 06-Oct-2020 13:20:22

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15514-1

SDG No.:

Client Sample ID: MW-4S-20200929 Lab Sample ID: 410-15514-13

Matrix: Ground Water Lab File ID: YC05S19.D

Analysis Method: 8260C Date Collected: 09/29/2020 13:10

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2020 20:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 50869 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	2.0		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S19.D
Lims ID: 410-15514-A-13
Client ID: MW-4S-20200929
Sample Type: Client
Inject. Date: 05-Oct-2020 20:23:30 ALS Bottle#: 26 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0012071-026
Operator ID: kas02648 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2020 13:22:14 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1018

First Level Reviewer: mellingerc Date: 06-Oct-2020 13:21:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.368	4.361	0.007	30	441150	250.0	
31 Methyl tert-butyl ether	73		4.793				ND	
$ 50 Dibromofluoromethane (Surr)	113	6.965	6.965	0.000	94	291876	50.0	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.428	7.428	0.000	98	81696	50.9	
57 Benzene	78	7.464	7.464	0.000	92	64768	1.96	
* 62 Fluorobenzene (IS)	96	7.860	7.859	0.001	99	1299299	50.0	
$ 77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	94	1269652	49.2	
78 Toluene	92	9.922	9.928	-0.006	75	384	0.0186	7M
S 90 Xylenes, Total	106		11.245				ND	7
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	86	952468	50.0	
95 Ethylbenzene	91	11.412	11.406	0.006	0	846	0.0220	7M
96 m-Xylene & p-Xylene	106		11.522				ND	7
97 o-Xylene	106		11.844				ND	
$ 103 4-Bromofluorobenzene (Surr)	95	12.295	12.294	0.001	90	465137	48.0	
* 119 1,4-Dichlorobenzene-d4	152	13.171	13.170	0.001	95	504685	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSV_HP20_ISSS_00026 Amount Added: 1.00 Units: uL Run Reagent

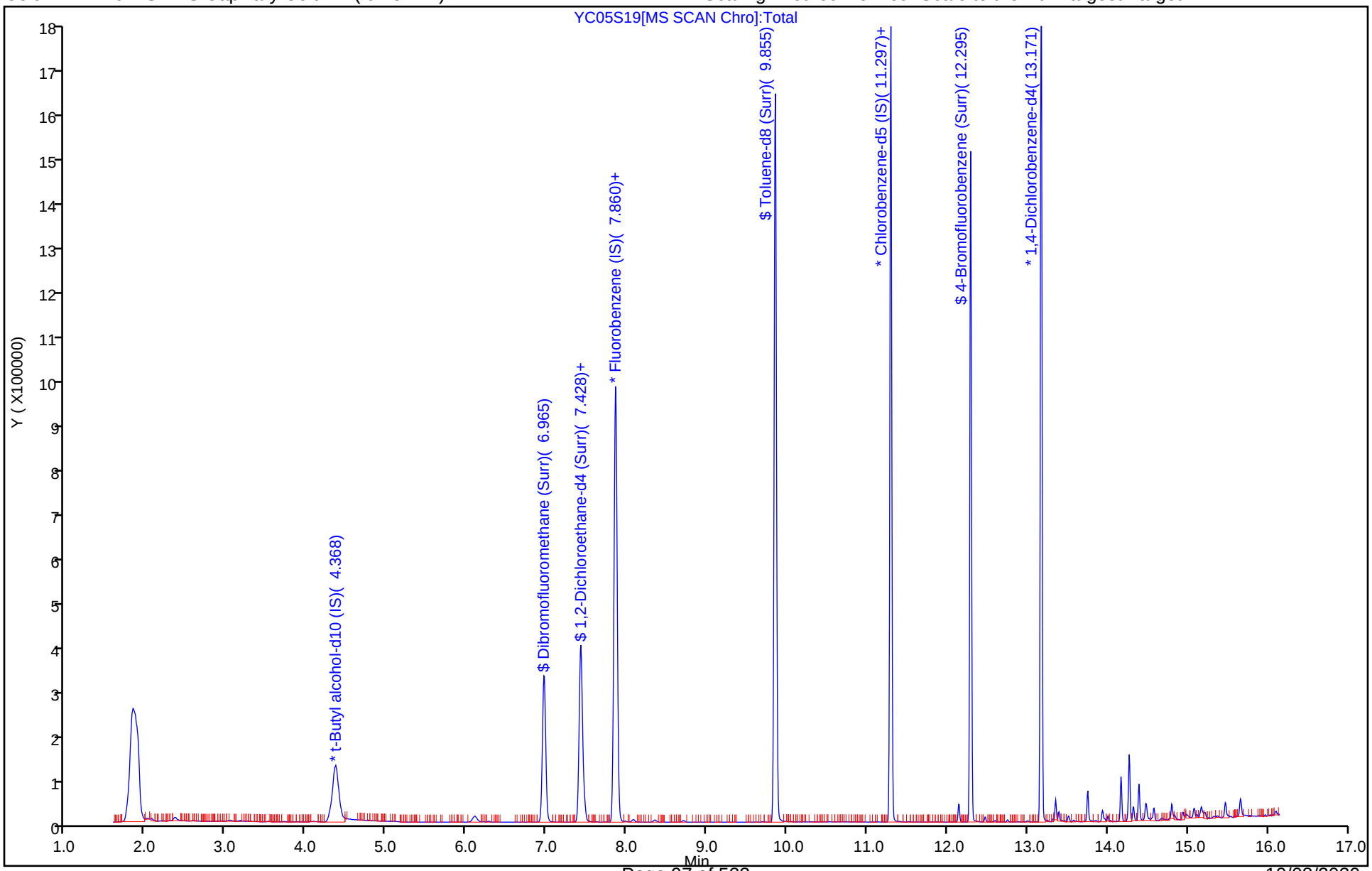
Report Date: 06-Oct-2020 13:23:52 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S19.D

Injection Date:	05-Oct-2020 20:23:30	Instrument ID:	9355	Operator ID:	kas02648
Lims ID:	410-15514-A-13	Lab Sample ID:	410-15514-13	Worklist Smp#:	26
Client ID:	MW-4S-20200929				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

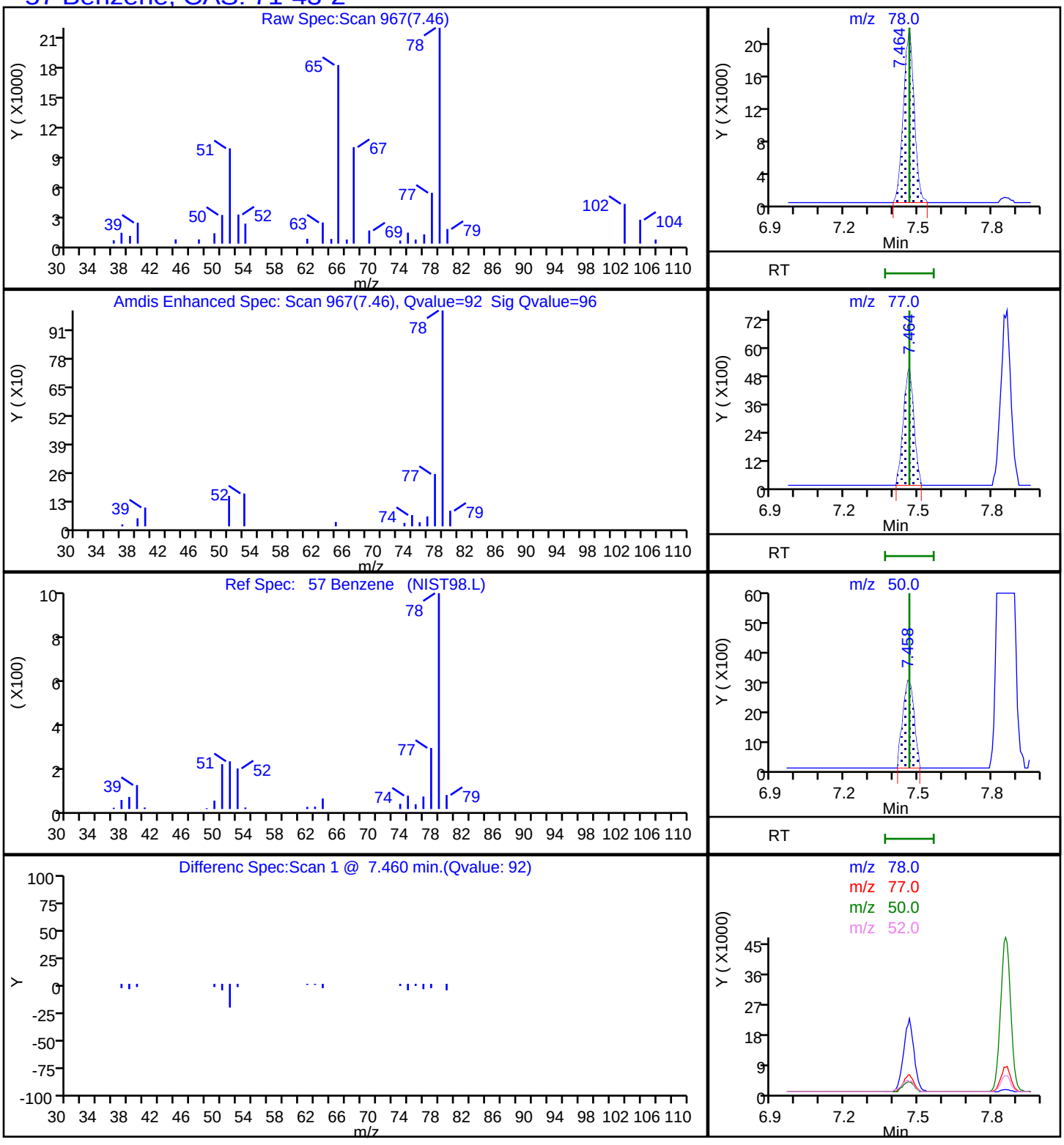
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S19.D				
Injection Date:	05-Oct-2020 20:23:30	Instrument ID:	9355		
Lims ID:	410-15514-A-13	Lab Sample ID:	410-15514-13		
Client ID:	MW-4S-20200929				
Operator ID:	kas02648	ALS Bottle#:	26	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

57 Benzene, CAS: 71-43-2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

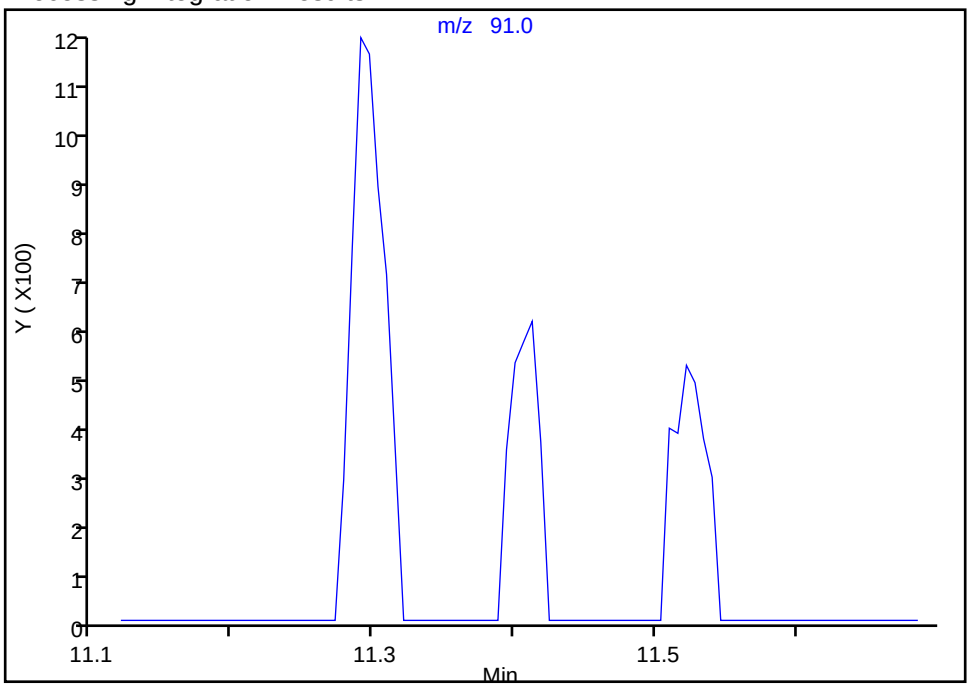
Data File:	\\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S19.D				
Injection Date:	05-Oct-2020 20:23:30	Instrument ID:	9355		
Lims ID:	410-15514-A-13	Lab Sample ID:	410-15514-13		
Client ID:	MW-4S-20200929				
Operator ID:	kas02648	ALS Bottle#:	26	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

95 Ethylbenzene, CAS: 100-41-4

Signal: 1

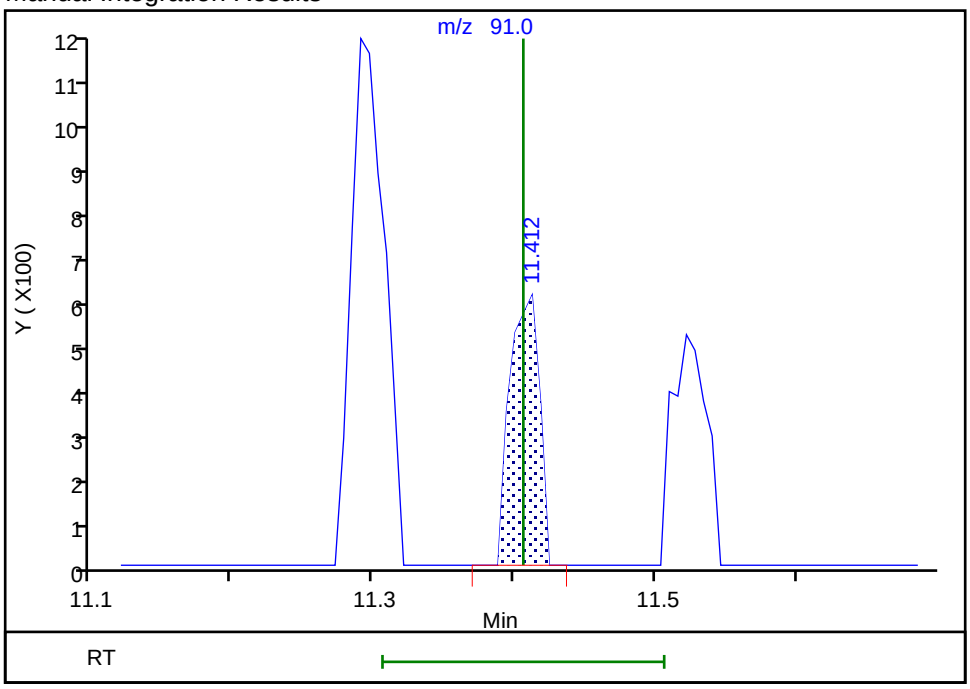
Not Detected
Expected RT: 11.41

Processing Integration Results



Manual Integration Results

RT: 11.41
Area: 846
Amount: 0.021950
Amount Units: ug/l



Reviewer: mellingerc, 06-Oct-2020 13:21:04
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

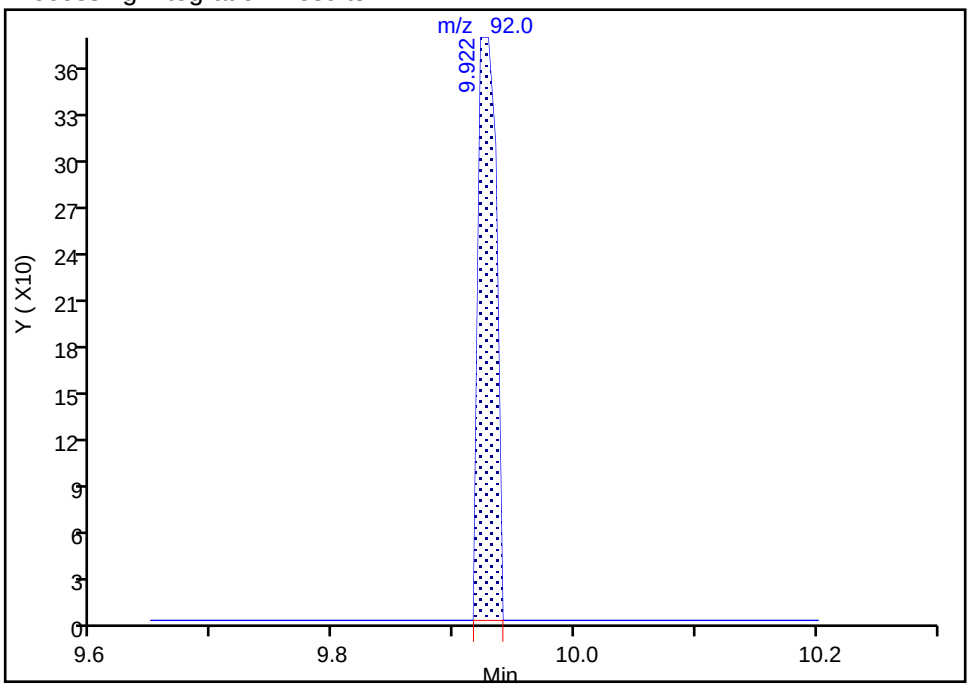
Data File:	\\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S19.D				
Injection Date:	05-Oct-2020 20:23:30	Instrument ID:	9355		
Lims ID:	410-15514-A-13	Lab Sample ID:	410-15514-13		
Client ID:	MW-4S-20200929				
Operator ID:	kas02648	ALS Bottle#:	26	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

78 Toluene, CAS: 108-88-3

Signal: 1

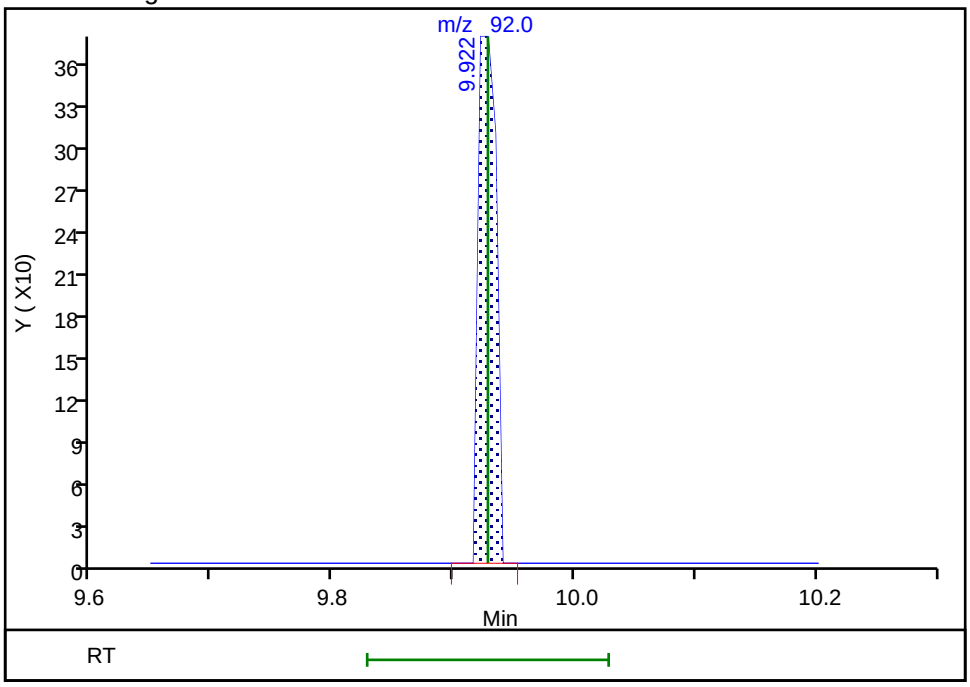
RT: 9.92
Area: 384
Amount: 0.018557
Amount Units: ug/l

Processing Integration Results



Manual Integration Results

RT: 9.92
Area: 384
Amount: 0.018557
Amount Units: ug/l



Reviewer: mellingerc, 06-Oct-2020 13:20:57

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15514-1

SDG No.:

Client Sample ID: MW-4D-20200929 Lab Sample ID: 410-15514-14

Matrix: Ground Water Lab File ID: YC05S20.D

Analysis Method: 8260C Date Collected: 09/29/2020 13:49

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2020 20:45

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.: 50869 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S20.D
Lims ID: 410-15514-A-14
Client ID: MW-4D-20200929
Sample Type: Client
Inject. Date: 05-Oct-2020 20:45:30 ALS Bottle#: 27 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0012071-027
Operator ID: kas02648 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2020 13:22:14 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1018

First Level Reviewer: mellingerc Date: 06-Oct-2020 13:21:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.355	4.361	-0.006	39	435845	250.0	
31 Methyl tert-butyl ether	73		4.793				ND	
$ 50 Dibromofluoromethane (Surr)	113	6.959	6.965	-0.006	93	289448	50.0	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.422	7.428	-0.006	98	80841	50.8	
57 Benzene	78		7.464				ND	
* 62 Fluorobenzene (IS)	96	7.854	7.859	-0.005	99	1286593	50.0	
$ 77 Toluene-d8 (Surr)	98	9.849	9.855	-0.006	94	1259080	49.2	
78 Toluene	92		9.928				ND	
S 90 Xylenes, Total	106		11.245				ND	7
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	86	943679	50.0	
95 Ethylbenzene	91		11.406				ND	
96 m-Xylene & p-Xylene	106		11.522				ND	
97 o-Xylene	106		11.844				ND	
$ 103 4-Bromofluorobenzene (Surr)	95	12.295	12.294	0.001	90	455347	47.5	
* 119 1,4-Dichlorobenzene-d4	152	13.171	13.170	0.001	95	492944	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP20_ISSS_00026 Amount Added: 1.00 Units: uL Run Reagent

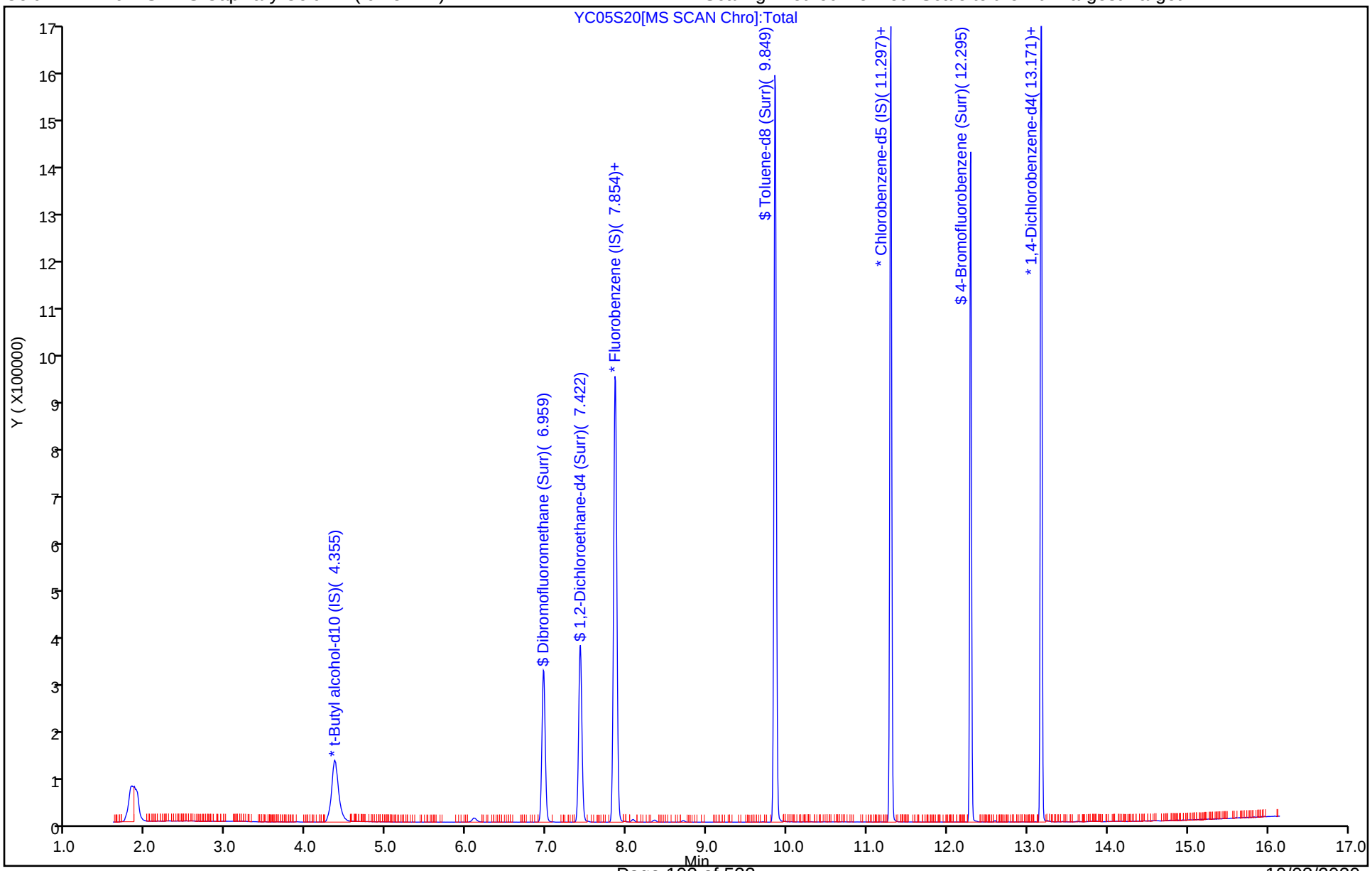
Report Date: 06-Oct-2020 13:23:54 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S20.D

Injection Date:	05-Oct-2020 20:45:30	Instrument ID:	9355	Operator ID:	kas02648
Lims ID:	410-15514-A-14	Lab Sample ID:	410-15514-14	Worklist Smp#:	27
Client ID:	MW-4D-20200929				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	MSVoa_9355	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.: 410-15514-1

SDG No.:

Client Sample ID: MW-11S-20200929 Lab Sample ID: 410-15514-15

Matrix: Ground Water Lab File ID: YC05S21.D

Analysis Method: 8260C Date Collected: 09/29/2020 14:53

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2020 21:07

Soil Aliquot Vol: Dilution Factor: 5

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 50869 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1.9	J	5.0	1.0
100-41-4	Ethylbenzene	ND		5.0	2.0
108-88-3	Toluene	ND		5.0	1.0
1330-20-7	Xylenes, Total	ND		30	7.0
1634-04-4	Methyl tertiary butyl ether	ND		5.0	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S21.D
Lims ID: 410-15514-A-15
Client ID: MW-11S-20200929
Sample Type: Client
Inject. Date: 05-Oct-2020 21:07:30 ALS Bottle#: 28 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Sample Info: 410-0012071-028
Operator ID: kas02648 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2020 13:38:01 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1008

First Level Reviewer: mellingerc Date: 06-Oct-2020 13:22:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.355	4.361	-0.006	29	435652	250.0	
31 Methyl tert-butyl ether	73		4.793				ND	
$ 50 Dibromofluoromethane (Surr)	113	6.959	6.965	-0.006	93	285820	50.5	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.422	7.428	-0.006	98	79805	51.2	
57 Benzene	78	7.458	7.464	-0.006	90	12134	0.3793	
* 62 Fluorobenzene (IS)	96	7.853	7.859	-0.006	99	1260157	50.0	
$ 77 Toluene-d8 (Surr)	98	9.849	9.855	-0.006	94	1229904	49.1	
78 Toluene	92		9.928				ND	7
S 90 Xylenes, Total	106		11.245				ND	7
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	86	923123	50.0	
95 Ethylbenzene	91	11.406	11.406	0.000	0	1033	0.0277	7M
96 m-Xylene & p-Xylene	106		11.522				ND	7
97 o-Xylene	106		11.844				ND	7
$ 103 4-Bromofluorobenzene (Surr)	95	12.294	12.294	0.000	90	448459	47.8	
* 119 1,4-Dichlorobenzene-d4	152	13.170	13.170	0.000	95	488122	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSV_HP20_ISSS_00026 Amount Added: 1.00 Units: uL Run Reagent

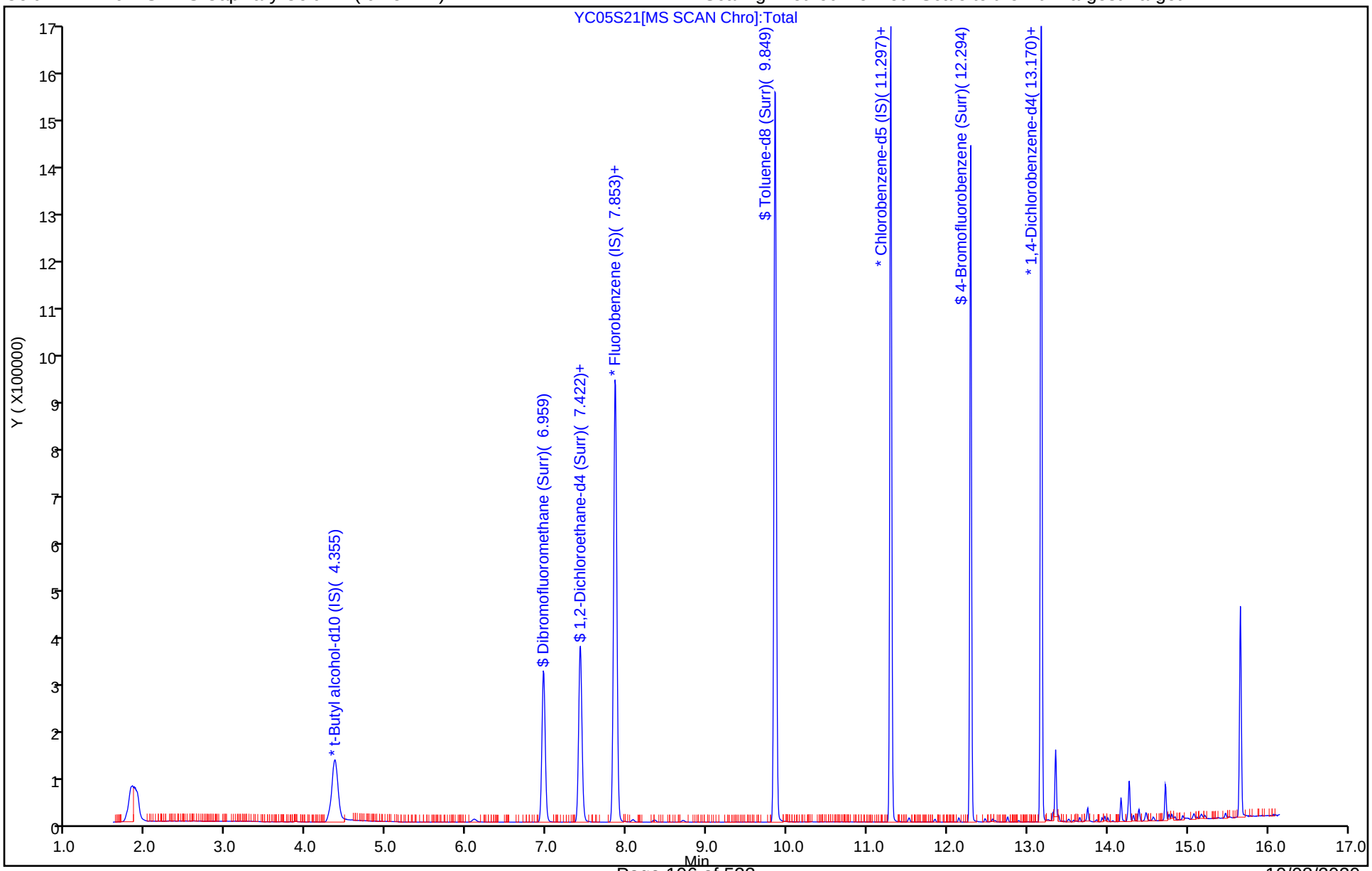
Report Date: 06-Oct-2020 22:51:31 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S21.D

Injection Date:	05-Oct-2020 21:07:30	Instrument ID:	9355	Operator ID:	kas02648
Lims ID:	410-15514-A-15	Lab Sample ID:	410-15514-15	Worklist Smp#:	28
Client ID:	MW-11S-20200929				
Purge Vol:	5.000 mL	Dil. Factor:	5.0000	ALS Bottle#:	28
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

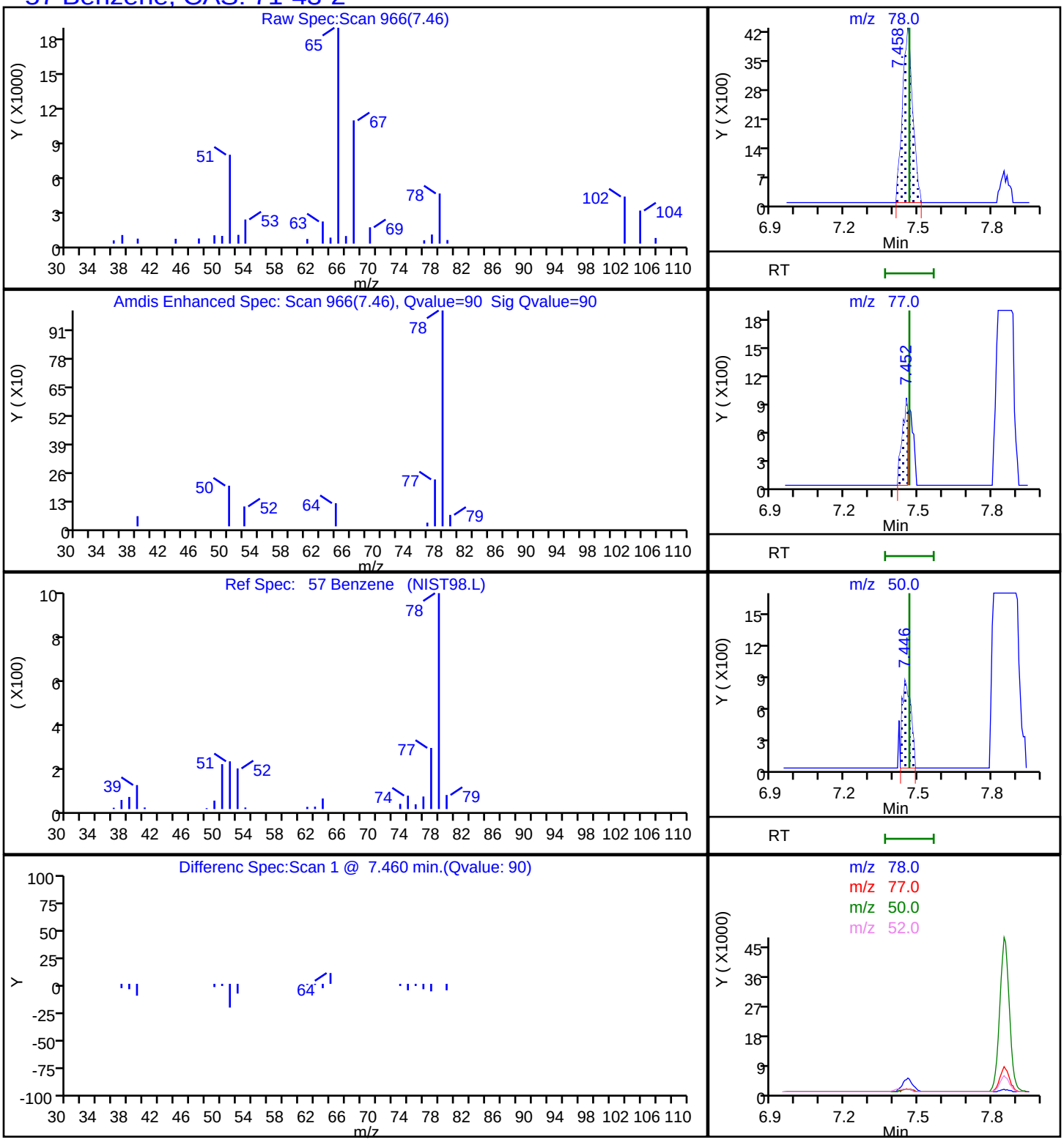
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S21.D				
Injection Date:	05-Oct-2020 21:07:30	Instrument ID:	9355		
Lims ID:	410-15514-A-15	Lab Sample ID:	410-15514-15		
Client ID:	MW-11S-20200929				
Operator ID:	kas02648	ALS Bottle#:	28	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

57 Benzene, CAS: 71-43-2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

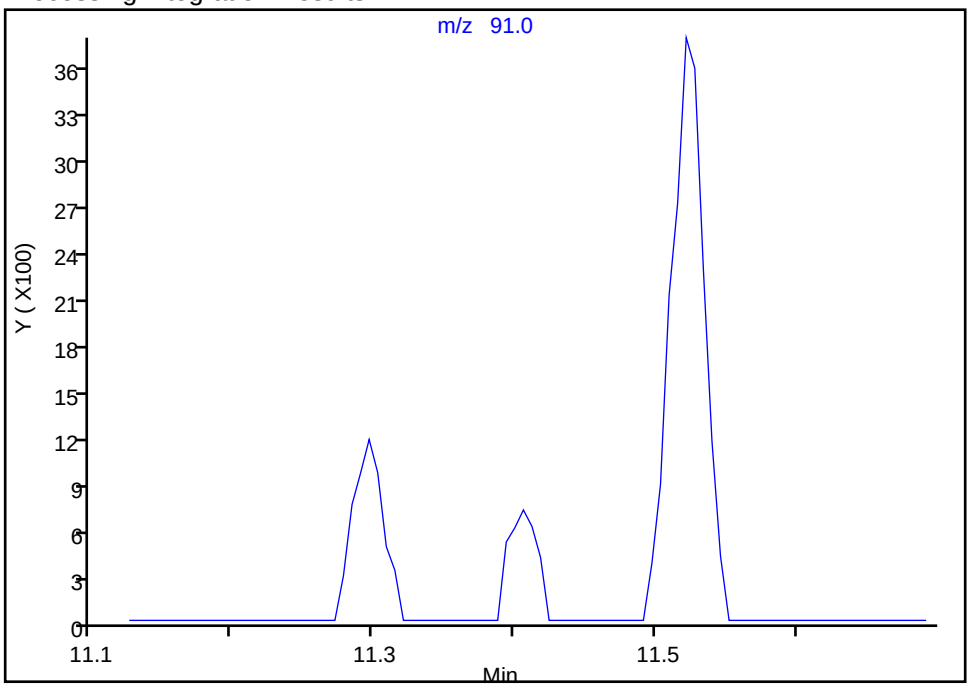
Data File:	\\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S21.D				
Injection Date:	05-Oct-2020 21:07:30	Instrument ID:	9355		
Lims ID:	410-15514-A-15	Lab Sample ID:	410-15514-15		
Client ID:	MW-11S-20200929				
Operator ID:	kas02648	ALS Bottle#:	28	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

95 Ethylbenzene, CAS: 100-41-4

Signal: 1

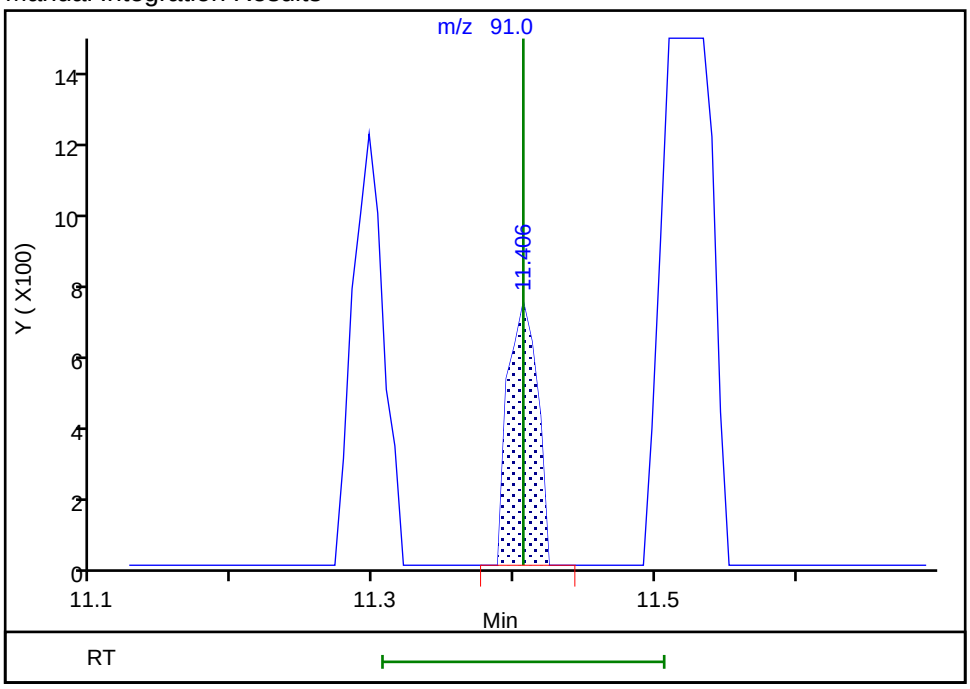
Not Detected
Expected RT: 11.41

Processing Integration Results



Manual Integration Results

RT: 11.41
Area: 1033
Amount: 0.027654
Amount Units: ug/l



Reviewer: mellingerc, 06-Oct-2020 13:22:09
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15514-1

SDG No.:

Client Sample ID: TB-20200929 Lab Sample ID: 410-15514-16

Matrix: Water Lab File ID: YC05S03.D

Analysis Method: 8260C Date Collected: 09/29/2020 00:00

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2020 14:31

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.: 50869 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S03.D
Lims ID: 410-15514-A-16
Client ID: TB-20200929
Sample Type: Client
Inject. Date: 05-Oct-2020 14:31:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0012071-010
Operator ID: kas02648 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2020 13:22:14 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1018

First Level Reviewer: mellingerc Date: 06-Oct-2020 12:27:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.362	4.361	0.001	29	468062	250.0	
31 Methyl tert-butyl ether	73		4.793				ND	
$ 50 Dibromofluoromethane (Surr)	113	6.965	6.965	0.000	94	311867	49.3	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.422	7.428	-0.006	98	88659	51.0	
57 Benzene	78		7.464				ND	
* 62 Fluorobenzene (IS)	96	7.860	7.859	0.001	99	1407983	50.0	
$ 77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	94	1364487	49.2	
78 Toluene	92		9.928				ND	7
S 90 Xylenes, Total	106		11.245				ND	7
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	86	1023427	50.0	
95 Ethylbenzene	91		11.406				ND	
96 m-Xylene & p-Xylene	106		11.522				ND	
97 o-Xylene	106		11.844				ND	
$ 103 4-Bromofluorobenzene (Surr)	95	12.288	12.294	-0.006	89	499831	48.0	
* 119 1,4-Dichlorobenzene-d4	152	13.171	13.170	0.001	96	533278	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP20_ISSS_00026 Amount Added: 1.00 Units: uL Run Reagent

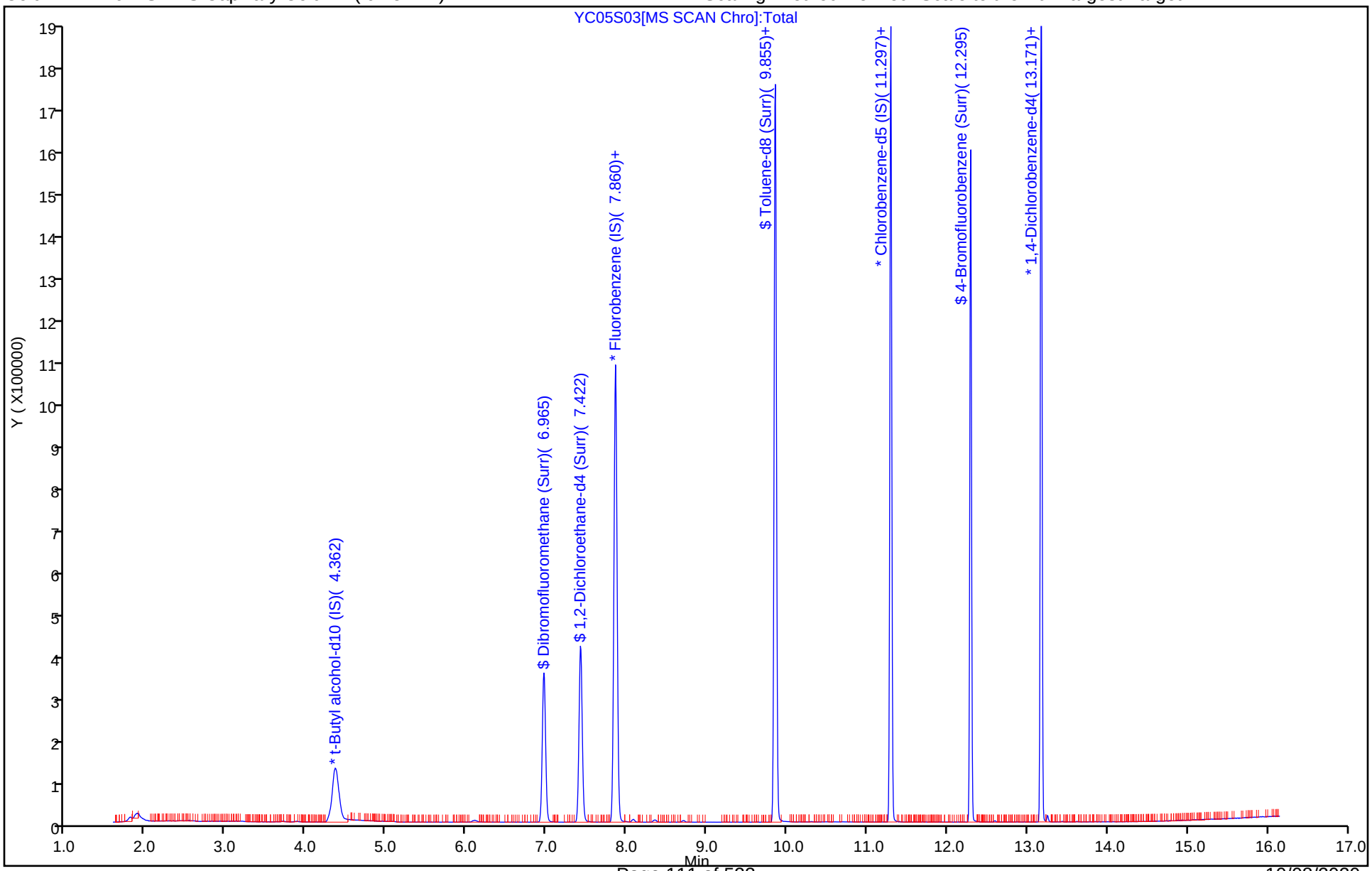
Report Date: 06-Oct-2020 13:23:22 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S03.D

Injection Date:	05-Oct-2020 14:31:30	Instrument ID:	9355	Operator ID:	kas02648
Lims ID:	410-15514-A-16	Lab Sample ID:	410-15514-16	Worklist Smp#:	10
Client ID:	TB-20200929				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	MSVoa_9355	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.: 410-15514-1 Analy Batch No.: 46013

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/21/2020 14:04 Calibration End Date: 09/21/2020 16:16 Calibration ID: 11387

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-46013/9	Ys21I07.D
Level 2	IC 410-46013/8	Ys21I06.D
Level 3	IC 410-46013/7	Ys21I05.D
Level 4	IC 410-46013/6	Ys21I04.D
Level 5	ICIS 410-46013/5	Ys21I03.D
Level 6	IC 410-46013/4	Ys21I02.D
Level 7	IC 410-46013/3	Ys21I01.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	0.2699 0.3577	0.3428 0.3779	0.3445	0.3284	0.3535	Ave		0.3392			0.1000	10.1		20.0			
Chloromethane	0.3380 0.3475	0.3647 0.3511	0.3780	0.3427	0.3410	Ave		0.3519			0.1000	4.1		20.0			
1,3-Butadiene	0.2667 0.2543	0.2524 0.2454	0.2260	0.2452	0.2424	Ave		0.2475				5.1		20.0			
Vinyl chloride	0.2980 0.3310	0.3409 0.3258	0.3442	0.3223	0.3262	Ave		0.3269			0.1000	4.6		20.0			
Bromomethane	0.2118 0.2203	0.2429 0.2172	0.2482	0.2328	0.2248	Ave		0.2283			0.1000	5.9		20.0			
Chloroethane	0.1903 0.1962	0.2155 0.1897	0.2194	0.2031	0.2008	Ave		0.2021			0.1000	5.7		20.0			
Dichlorofluoromethane	0.4153 0.4483	0.4725 0.4454	0.5003	0.4604	0.4545	Ave		0.4567			0.1000	5.7		20.0			
Trichlorofluoromethane	0.3583 0.4114	0.4214 0.4226	0.4179	0.3957	0.4120	Ave		0.4056			0.1000	5.6		20.0			
n-Pentane	0.4082 0.4129	0.4152 0.3977	0.3448	0.4092	0.4076	Ave		0.3994				6.2		20.0			
Ethyl ether	0.3055 0.3018	0.3096 0.2982	0.2983	0.3058	0.3006	Ave		0.3028				1.4		20.0			
Freon 123a	0.3069 0.3364	0.3386 0.3370	0.3247	0.3387	0.3342	Ave		0.3309				3.5		20.0			
Acrolein	1.9356 2.0094	1.7878 2.0688	2.2846	2.1867	2.0460	Ave		2.0456				7.9		20.0			
1,1-Dichloroethene	0.2109 0.2472	0.2449 0.2442	0.2386	0.2466	0.2416	Ave		0.2391			0.1000	5.3		20.0			
Acetone	0.9693 1.0160	1.0434 1.0937	1.1699	1.1270	0.9990	Ave		1.0598			0.1000	6.9		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.: 410-15514-1 Analy Batch No.: 46013

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/21/2020 14:04 Calibration End Date: 09/21/2020 16:16 Calibration ID: 11387

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	0.2189 0.2610	0.2513 0.2606	0.2284	0.2547	0.2528	Ave		0.2468			0.1000	6.7		20.0			
2-Propanol	0.7562 0.7992	0.7198 0.7942	0.7265	0.7550	0.7799	Ave		0.7615				4.1		20.0			
Methyl iodide	0.3808 0.4439	0.4360 0.4450	0.4292	0.4421	0.4396	Ave		0.4309				5.3		20.0			
Carbon disulfide	0.7507 0.8806	0.8519 0.8792	0.8186	0.8590	0.8584	Ave		0.8426			0.1000	5.4		20.0			
Methyl acetate	0.4099 0.4377	0.4235 0.4394	0.4276	0.4250	0.4298	Ave		0.4276			0.1000	2.3		20.0			
Allyl chloride	0.4014 0.4818	0.4483 0.4671	0.4322	0.4583	0.4702	Ave		0.4513				6.0		20.0			
Methylene Chloride	0.3102 0.3014	0.3047 0.3007	0.3014	0.3065	0.2990	Ave		0.3034			0.1000	1.3		20.0			
t-Butyl alcohol	1.2929 1.4245	1.2826 1.3722	1.3258	1.3550	1.4115	Ave		1.3521				4.1		20.0			
Acrylonitrile	0.1957 0.2361	0.2206 0.2402	0.2489	0.2471	0.2393	Ave		0.2326				8.0		20.0			
Methyl tertiary butyl ether	0.8513 0.9624	0.9050 0.9430	0.9238	0.9581	0.9608	Ave		0.9292			0.1000	4.4		20.0			
trans-1,2-Dichloroethene	0.2607 0.2913	0.2901 0.2855	0.2817	0.2904	0.2869	Ave		0.2838			0.1000	3.8		20.0			
n-Hexane	0.3552 0.5010	0.4416 0.5008	0.3792	0.4732	0.4824	Ave		0.4476				13.2		20.0			
1,1-Dichloroethane	0.4850 0.5366	0.5300 0.5274	0.5185	0.5387	0.5282	Ave		0.5235			0.2000	3.5		20.0			
di-Isopropyl ether	0.8520 1.0322	0.9480 0.9909	0.9741	1.0211	1.0200	Ave		0.9769				6.4		20.0			
2-Chloro-1,3-butadiene	0.3160 0.4738	0.4101 0.4683	0.4181	0.4489	0.4577	Ave		0.4276				12.8		20.0			
Ethyl t-butyl ether	0.7685 0.9578	0.8538 0.9300	0.8970	0.9429	0.9466	Ave		0.8995				7.6		20.0			
2-Butanone	0.2812 0.3162	0.2904 0.3181	0.3390	0.3286	0.3241	Ave		0.3140			0.1000	6.6		20.0			
cis-1,2-Dichloroethene	0.2889 0.3330	0.3314 0.3218	0.3258	0.3339	0.3256	Ave		0.3229			0.1000	4.8		20.0			
2,2-Dichloropropane	0.3254 0.4099	0.3871 0.4011	0.3795	0.3988	0.3996	Ave		0.3859				7.4		20.0			
Propionitrile	1.4468 1.5527	1.5175 1.5926	1.5391	1.5485	1.5265	Ave		1.5319				2.9		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.: 410-15514-1 Analy Batch No.: 46013

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/21/2020 14:04 Calibration End Date: 09/21/2020 16:16 Calibration ID: 11387

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								
Methacrylonitrile	0.2037 0.2314	0.2210 0.2280	0.2256	0.2345	0.2331	Ave		0.2253				4.7		20.0			
Bromochloromethane	0.1463 0.1681	0.1577 0.1648	0.1582	0.1639	0.1689	Ave		0.1611				4.9		20.0			
Tetrahydrofuran	1.1620 1.4691	1.3200 1.5322	1.4925	1.4473	1.4058	Ave		1.4041				9.0		20.0			
Chloroform	0.4536 0.5062	0.4914 0.5011	0.4854	0.5037	0.4995	Ave		0.4916			0.2000	3.7		20.0			
1,1,1-Trichloroethane	0.3652 0.4292	0.4101 0.4286	0.3939	0.4148	0.4153	Ave		0.4081			0.1000	5.5		20.0			
Cyclohexane	0.4303 0.5810	0.5234 0.5689	0.4759	0.5577	0.5649	Ave		0.5289			0.1000	10.6		20.0			
1,1-Dichloropropene	0.3471 0.4369	0.4089 0.4223	0.3979	0.4307	0.4245	Ave		0.4097				7.5		20.0			
Carbon tetrachloride	0.2851 0.3659	0.3325 0.3616	0.3218	0.3480	0.3535	Ave		0.3383			0.1000	8.3		20.0			
Isobutyl alcohol	0.4034 0.4935	0.4113 0.4729	0.4402	0.4471	0.4706	Ave		0.4484				7.4		20.0			
Benzene	1.2106 1.2923	1.3045 1.2462	1.2608	1.2945	1.2754	Ave		1.2692			0.5000	2.6		20.0			
1,2-Dichloroethane	0.4264 0.4134	0.4181 0.4120	0.4048	0.4175	0.4125	Ave		0.4150			0.1000	1.6		20.0			
t-Amyl methyl ether	0.7616 0.9402	0.8392 0.8991	0.8805	0.9311	0.9348	Ave		0.8838				7.3		20.0			
n-Heptane	0.4578 0.5660	0.5308 0.5514	0.4185	0.5306	0.5387	Ave		0.5134				10.5		20.0			
n-Butanol	0.3201 0.4564	0.3623 0.4084	0.3977	0.4073	0.4276	Ave		0.3971				11.2		20.0			
Trichloroethene	0.2828 0.3229	0.3126 0.3202	0.3027	0.3175	0.3169	Ave		0.3108			0.2000	4.5		20.0			
Methylcyclohexane	0.4381 0.6059	0.5379 0.5679	0.4796	0.5806	0.5958	Ave		0.5437			0.1000	11.6		20.0			
1,2-Dichloropropane	0.3036 0.3376	0.3346 0.3115	0.3292	0.3421	0.3387	Ave		0.3282			0.1000	4.5		20.0			
t-Amyl ethyl ether	0.3661 0.4781	0.4260 0.4457	0.4429	0.4657	0.4679	Ave		0.4418				8.5		20.0			
Methyl methacrylate	0.2544 0.3654	0.3065 0.3660	0.3246	0.3437	0.3580	Ave		0.3312				12.2		20.0			
1,4-Dioxane	0.0675 0.0942	0.0831 0.0853	0.0875	0.0897	0.0919	Ave		0.0856			0.0050	10.3		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.: 410-15514-1 Analy Batch No.: 46013

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/21/2020 14:04 Calibration End Date: 09/21/2020 16:16 Calibration ID: 11387

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								
Dibromomethane	0.1823 0.2084	0.2004 0.2075	0.2005	0.2063	0.2051	Ave		0.2015				4.5		20.0			
Bromodichloromethane	0.3049 0.3948	0.3365 0.4025	0.3488	0.3710	0.3825	Ave		0.3630			0.2000	9.6		20.0			
2-Nitropropane	1.7047 2.3966	1.8377 2.5330	2.2546	2.3204	2.2772	Ave		2.1892				13.8		20.0			
2-Chloroethyl vinyl ether	0.1820 0.2944	0.2177 0.2829	0.2530	0.2725	0.2835	Ave		0.2551				16.1		20.0			
cis-1,3-Dichloropropene	0.3989 0.5523	0.4628 0.5448	0.4946	0.5271	0.5370	Ave		0.5025			0.2000	11.0		20.0			
4-Methyl-2-pentanone	0.4332 0.6053	0.5222 0.5721	0.6359	0.6378	0.6304	Ave		0.5767			0.1000	13.1		20.0			
Toluene	1.0477 1.1085	1.0948 1.0814	1.0685	1.1049	1.0981	Ave		1.0863			0.4000	2.0		20.0			
trans-1,3-Dichloropropene	0.4926 0.7026	0.5759 0.7125	0.6153	0.6572	0.6812	Ave		0.6339			0.1000	12.4		20.0			
Ethyl methacrylate	0.4965 0.8097	0.5903 0.8055	0.6874	0.7482	0.7892	Ave		0.7038				17.1		20.0			
1,1,2-Trichloroethane	0.3753 0.4322	0.4147 0.4308	0.4131	0.4237	0.4296	Ave		0.4171			0.1000	4.8		20.0			
Tetrachloroethene	0.4715 0.5467	0.5363 0.4968	0.4959	0.5210	0.5420	Ave		0.5158			0.2000	5.5		20.0			
1,3-Dichloropropane	0.6683 0.7616	0.7195 0.7465	0.7277	0.7568	0.7533	Ave		0.7334				4.4		20.0			
2-Hexanone	0.4784 0.6635	0.5473 0.6347	0.6885	0.6857	0.6985	Ave		0.6281			0.1000	13.3		20.0			
Dibromochloromethane	0.3169 0.4588	0.3636 0.4737	0.3884	0.4184	0.4389	Ave		0.4084				13.6		20.0			
1,2-Dibromoethane	0.3788 0.4785	0.4282 0.4852	0.4405	0.4587	0.4705	Ave		0.4486			0.1000	8.2		20.0			
1-Chlorohexane	0.5647 0.6217	0.5780 0.6045	0.5305	0.5949	0.6072	Ave		0.5859				5.3		20.0			
Chlorobenzene	1.1732 1.2307	1.2387 1.1694	1.2049	1.2338	1.2228	Ave		1.2105			0.5000	2.4		20.0			
1,1,1,2-Tetrachloroethane	0.3355 0.4083	0.3752 0.3953	0.3856	0.3975	0.4064	Ave		0.3862				6.5		20.0			
Ethylbenzene	1.8276 2.1301	2.0583 1.9222	1.9968	2.1157	2.1120	Ave		2.0233			0.1000	5.6		20.0			
m&p-Xylene	0.6950 0.8314	0.8075 0.7473	0.7964	0.8344	0.8324	Ave		0.7921			0.1000	6.7		20.0			

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1 Analy Batch No.: 46013

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/21/2020 14:04 Calibration End Date: 09/21/2020 16:16 Calibration ID: 11387

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								
o-Xylene	0.6570 0.8119	0.7619 0.7439	0.7699	0.8154	0.8072	Ave		0.7667			0.3000	7.3		20.0			
Styrene	0.9563 1.3872	1.1986 1.2735	1.2581	1.3445	1.3744	Ave		1.2561			0.3000	11.8		20.0			
Bromoform	0.2199 0.3617	0.2555 0.3730	0.2803	0.3109	0.3416	Ave		0.3061			0.1000	18.6		20.0			
Isopropylbenzene	1.6008 2.1118	1.9744 1.9021	1.9302	2.0969	2.0885	Ave		1.9578			0.1000	9.1		20.0			
Cyclohexanone	0.3319 0.4382	0.3981 0.3334	0.3990	0.4212	0.4394	Ave		0.3944				11.5		20.0			
1,1,2,2-Tetrachloroethane	1.2038 1.3918	1.2811 1.3095	1.3444	1.3618	1.3828	Ave		1.3250			0.3000	5.0		20.0			
trans-1,4-Dichloro-2-butene	0.3956 0.4865	0.4323 0.4380	0.4510	0.4702	0.4840	Ave		0.4511				7.2		20.0			
Bromobenzene	0.9079 0.9688	0.9747 0.8653	0.9583	0.9833	0.9770	Ave		0.9479				4.7		20.0			
1,2,3-Trichloropropane	0.3984 0.4232	0.4114 0.4014	0.4143	0.4140	0.4232	Ave		0.4123				2.3		20.0			
N-Propylbenzene	4.0926 4.6124	4.5860 3.9516	4.3129	4.6589	4.5984	Ave		4.4018				6.5		20.0			
2-Chlorotoluene	0.8307 0.9446	0.9348 0.9057	0.8879	0.9462	0.9360	Ave		0.9123				4.6		20.0			
1,3,5-Trimethylbenzene	2.6731 3.3664	3.1991 3.0780	3.1280	3.3873	3.3365	Ave		3.1669				7.9		20.0			
4-Chlorotoluene	0.8226 0.9890	0.9599 0.9434	0.9396	0.9907	0.9828	Ave		0.9469				6.2		20.0			
tert-Butylbenzene	0.5517 0.7151	0.6524 0.6730	0.6343	0.7007	0.7069	Ave		0.6620				8.6		20.0			
Pentachloroethane	0.3318 0.4581	0.3839 0.4910	0.4096	0.4496	0.4325	Ave		0.4224				12.5		20.0			
1,2,4-Trimethylbenzene	2.6752 3.4948	3.2747 3.1034	3.2581	3.4995	3.4777	Ave		3.2548				9.1		20.0			
sec-Butylbenzene	3.4224 4.3662	4.1858 3.7260	3.8716	4.3789	4.3326	Ave		4.0405				9.2		20.0			
1,3-Dichlorobenzene	1.7776 1.8687	1.9040 1.6578	1.8480	1.9056	1.8847	Ave		1.8352			0.6000	4.9		20.0			
p-Isopropyltoluene	2.8012 3.7163	3.4979 3.1769	3.3280	3.7512	3.7178	Ave		3.4271				10.3		20.0			
1,4-Dichlorobenzene	1.9004 1.9205	1.9529 1.7020	1.8891	1.9715	1.9278	Ave		1.8949			0.5000	4.7		20.0			

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1 Analy Batch No.: 46013

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/21/2020 14:04 Calibration End Date: 09/21/2020 16:16 Calibration ID: 11387

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-Trimethylbenzene	3.0121 3.4234	3.2440 2.9765	3.2177	3.4230	3.4348	Ave		3.2474				6.0		20.0			
Benzyl chloride	1.9724 2.9714	2.2683 2.7979	2.5490	2.7674	2.9102	Ave		2.6052				14.1		20.0			
1,3-Diethylbenzene	1.6837 2.2449	2.0405 2.0110	2.0156	2.2121	2.2298	Ave		2.0625				9.5		20.0			
1,4-Diethylbenzene	1.7391 2.3459	2.1777 2.0580	2.1413	2.3470	2.3532	Ave		2.1660				10.2		20.0			
n-Butylbenzene	1.6265 1.9344	1.9097 1.7234	1.7340	1.9457	1.9363	Ave		1.8300				7.2		20.0			
1,2-Dichlorobenzene	1.8017 1.8172	1.8377 1.6460	1.8090	1.8619	1.8314	Ave		1.8007			0.4000	3.9		20.0			
1,2-Diethylbenzene	1.5220 1.8251	1.7296 1.6246	1.7217	1.8396	1.8407	Ave		1.7290				7.0		20.0			
1,2-Dibromo-3-Chloropropane	0.2572 0.3696	0.2770 0.3571	0.3240	0.3396	0.3598	Ave		0.3263			0.0500	13.3		20.0			
1,3,5-Trichlorobenzene	1.3576 1.4723	1.4179 1.3592	1.3495	1.4885	1.4676	Ave		1.4161				4.3		20.0			
1,2,4-Trichlorobenzene	1.2498 1.3888	1.2868 1.2830	1.2649	1.3794	1.3881	Ave		1.3201			0.2000	4.7		20.0			
Hexachlorobutadiene	0.6101 0.6463	0.6220 0.6017	0.5033	0.6499	0.6364	Ave		0.6100				8.3		20.0			
Naphthalene	3.7785 4.7727	4.1471 3.9099	4.5829	4.9011	4.9253	Ave		4.4311				10.8		20.0			
1,2,3-Trichlorobenzene	1.2360 1.3148	1.2665 1.2327	1.2586	1.3483	1.3438	Ave		1.2858				3.8		20.0			
2-Methylnaphthalene	1.9506 2.7550	2.1470 2.5263	2.4055	2.7921	2.9169	Ave		2.4991				14.2		20.0			
Dibromofluoromethane (Surr)	0.2232 0.2250	0.2237 0.2282	0.2237	0.2238	0.2259	Ave		0.2248				0.8		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0614 0.0613	0.0622 0.0620	0.0615	0.0622	0.0620	Ave		0.0618				0.6		20.0			
Toluene-d8 (Surr)	1.3345 1.3559	1.3474 1.4069	1.3490	1.3397	1.3548	Ave		1.3555				1.8		20.0			
4-Bromofluorobenzene (Surr)	0.5038 0.5068	0.5099 0.5287	0.5075	0.4992	0.5019	Ave		0.5083				1.9		20.0			

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1 Analy Batch No.: 46013

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/21/2020 14:04 Calibration End Date: 09/21/2020 16:16 Calibration ID: 11387

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-46013/9	Ys21I07.D
Level 2	IC 410-46013/8	Ys21I06.D
Level 3	IC 410-46013/7	Ys21I05.D
Level 4	IC 410-46013/6	Ys21I04.D
Level 5	ICIS 410-46013/5	Ys21I03.D
Level 6	IC 410-46013/4	Ys21I02.D
Level 7	IC 410-46013/3	Ys21I01.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	6631 883268	33679 2746005	84757	160331	437139	1.00 100	4.00 300	10.0	20.0	50.0
Chloromethane	FB	Ave	8305 858020	35831 2551175	93002	167351	421728	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Butadiene	FB	Ave	6553 627958	24795 1783243	55600	119708	299784	1.00 100	4.00 300	10.0	20.0	50.0
Vinyl chloride	FB	Ave	7321 817374	33492 2367430	84678	157364	403407	1.00 100	4.00 300	10.0	20.0	50.0
Bromomethane	FB	Ave	5203 543994	23864 1577960	61068	113648	277955	1.00 100	4.00 300	10.0	20.0	50.0
Chloroethane	FB	Ave	4676 484348	21170 1378299	53986	99150	248271	1.00 100	4.00 300	10.0	20.0	50.0
Dichlorofluoromethane	FB	Ave	10204 1106831	46420 3236600	123086	224811	562074	1.00 100	4.00 300	10.0	20.0	50.0
Trichlorofluoromethane	FB	Ave	8804 1015757	41394 3070694	102811	193221	509501	1.00 100	4.00 300	10.0	20.0	50.0
n-Pentane	FB	Ave	10030 1019425	40784 2889956	84823	199789	504087	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl ether	FB	Ave	7504 745197	30413 2166313	73378	149303	371639	1.000 100.0	4.00 300	10.00	20.0	50.0
Freon 123a	FB	Ave	7539 830542	33259 2448461	79901	165381	413279	1.00 100	4.00 300	10.0	20.0	50.0
Acrolein	TBAd 10	Ave	29639 2979872	108315 8786392	344988	665218	1601740	10.0 1002	40.1 3006	100	200	501
1,1-Dichloroethene	FB	Ave	5182 610322	24056 1774225	58695	120415	298740	1.00 100	4.00 300	10.0	20.0	50.0
Acetone	TBAd 10	Ave	2963 300779	12620 927285	35265	68443	156121	2.00 200	8.00 600	20.0	40.0	100
Freon 113	FB	Ave	5379 644448	24687 1893636	56207	124363	312624	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.: 410-15514-1 Analy Batch No.: 46013

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/21/2020 14:04 Calibration End Date: 09/21/2020 16:16 Calibration ID: 11387

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
2-Propanol	TBAd10	Ave	23116 591468	87057 1683387	109505	229246	304713	20.0 500	80.0 1500	100	200	250
Methyl iodide	FB	Ave	9355 1095964	42828 3233189	105603	215846	543675	1.00 100	4.00 300	10.0	20.0	50.0
Carbon disulfide	FB	Ave	18443 2174260	83692 6388629	201411	419442	1061601	1.00 100	4.00 300	10.0	20.0	50.0
Methyl acetate	FB	Ave	10070 1080650	41607 3192626	105217	207527	531542	1.00 100	4.00 300	10.0	20.0	50.0
Allyl chloride	FB	Ave	9863 1189766	44038 3393905	106333	223781	581430	1.00 100	4.00 300	10.0	20.0	50.0
Methylene Chloride	FB	Ave	7622 744240	29935 2184708	74168	149641	369720	1.00 100	4.00 300	10.0	20.0	50.0
t-Butyl alcohol	TBAd10	Ave	39521 1054249	155131 2908575	199824	411431	551476	20.0 500	80.0 1500	100	200	250
Acrylonitrile	FB	Ave	4808 583093	21667 1745454	61244	120634	295912	1.00 100	4.00 300	10.0	20.0	50.0
Methyl tertiary butyl ether	FB	Ave	20916 2376331	88909 6851927	227295	467846	1188208	1.00 100	4.00 300	10.0	20.0	50.0
trans-1,2-Dichloroethene	FB	Ave	6405 719313	28500 2074235	69318	141817	354795	1.00 100	4.00 300	10.0	20.0	50.0
n-Hexane	FB	Ave	8726 1236979	43381 3638767	93288	231063	596571	1.00 100	4.00 300	10.0	20.0	50.0
1,1-Dichloroethane	FB	Ave	11915 1324935	52063 3832233	127564	263028	653161	1.00 100	4.00 300	10.0	20.0	50.0
di-Isopropyl ether	FB	Ave	20932 2548766	93126 7199734	239657	498606	1261425	1.00 100	4.00 300	10.0	20.0	50.0
2-Chloro-1,3-butadiene	FB	Ave	7764 1169812	40290 3402602	102873	219195	565979	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl t-butyl ether	FB	Ave	18880 2365040	83871 6757627	220707	460384	1170641	1.00 100	4.00 300	10.0	20.0	50.0
2-Butanone	FB	Ave	13817 1561731	57059 4622510	166833	320888	801701	2.00 200	8.00 600	20.0	40.0	100
cis-1,2-Dichloroethene	FB	Ave	7099 822263	32554 2338387	80157	163013	402618	1.00 100	4.00 300	10.0	20.0	50.0
2,2-Dichloropropane	FB	Ave	7995 1012041	38029 2914508	93377	194711	494182	1.00 100	4.00 300	10.0	20.0	50.0
Propionitrile	TBAd10	Ave	44226 1149182	183530 3375653	231969	470188	596390	20.0 500	80.0 1500	100	200	250
Methacrylonitrile	FB	Ave	50043 1428517	217105 4142014	277573	572519	720629	10.0 250	40.0 750	50.0	100	125
Bromochloromethane	FB	Ave	3595 415125	15491 1197452	38928	80022	208833	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.: 410-15514-1 Analy Batch No.: 46013

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/21/2020 14:04 Calibration End Date: 09/21/2020 16:16 Calibration ID: 11387

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
Tetrahydrofuran	TBAd10	Ave	3552 434920	15965 1299067	44990	87891	219701	2.00 200	8.00 600	20.0	40.0	100
Chloroform	FB	Ave	11144 1249872	48275 3641271	119436	245951	617781	1.00 100	4.00 300	10.0	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	8972 1059676	40287 3113940	96903	202560	513591	1.00 100	4.00 300	10.0	20.0	50.0
Cyclohexane	FB	Ave	10573 1434533	51418 4133632	117085	272325	698591	1.00 100	4.00 300	10.0	20.0	50.0
1,1-Dichloropropene	FB	Ave	8527 1078676	40165 3068317	97899	210325	524933	1.00 100	4.00 300	10.0	20.0	50.0
Carbon tetrachloride	FB	Ave	7005 903400	32660 2627127	79176	169902	437125	1.00 100	4.00 300	10.0	20.0	50.0
Isobutyl alcohol	TBAd10	Ave	30830 913062	124373 2505985	165884	339385	459671	50.0 1250	200 3750	250	500	625
Benzene	FB	Ave	29742 3191034	128150 9055166	310218	632101	1577265	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichloroethane	FB	Ave	10477 1020740	41077 2993959	99585	203835	510142	1.00 100	4.00 300	10.0	20.0	50.0
t-Amyl methyl ether	FB	Ave	18711 2321429	82444 6532991	216627	454614	1156023	1.00 100	4.00 300	10.0	20.0	50.0
n-Heptane	FB	Ave	11247 1397602	52144 4006320	102969	259083	666191	1.00 100	4.00 300	10.0	20.0	50.0
n-Butanol	TBAd10	Ave	48928 1689053	219077 4328465	299744	618334	835300	100 2500	400 7500	500	1000	1250
Trichloroethene	FB	Ave	6949 797314	30711 2326396	74480	155041	391925	1.00 100	4.00 300	10.0	20.0	50.0
Methylcyclohexane	FB	Ave	10763 1496146	52845 4126219	117995	283474	736788	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichloropropane	FB	Ave	7458 833575	32869 2263549	81002	167063	418875	1.00 100	4.00 300	10.0	20.0	50.0
t-Amyl ethyl ether	FB	Ave	8995 1180426	41848 3238689	108966	227369	578656	1.00 100	4.00 300	10.0	20.0	50.0
Methyl methacrylate	FB	Ave	6249 902323	30114 2659710	79874	167800	442675	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Dioxane	TBAd10	Ave	5160 174260	25132 451834	32965	68071	89794	50.0 1250	200 3750	250	500	625
Dibromomethane	FB	Ave	4479 514484	19686 1507989	49343	100721	253622	1.00 100	4.00 300	10.0	20.0	50.0
Bromodichloromethane	FB	Ave	7491 974790	33057 2924690	85822	181143	473007	1.00 100	4.00 300	10.0	20.0	50.0
2-Nitropropane	TBAd10	Ave	5211 709478	22226 2147634	67963	140913	355882	2.00 200	8.00 600	20.0	40.0	100

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1 Analy Batch No.: 46013

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/21/2020 14:04 Calibration End Date: 09/21/2020 16:16 Calibration ID: 11387

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
2-Chloroethyl vinyl ether	FB	Ave	4472 727002	21388 2055304	62241	133079	350593	1.00 100	4.00 300	10.0	20.0	50.0
cis-1,3-Dichloropropene	FB	Ave	9801 1363728	45462 3958803	121689	257357	664131	1.00 100	4.00 300	10.0	20.0	50.0
4-Methyl-2-pentanone	FB	Ave	21288 2989218	102602 8314275	312890	622840	1559111	2.00 200	8.00 600	20.0	40.0	100
Toluene	CBZd5	Ave	18779 1998468	78111 5631593	191009	396678	989811	1.00 100	4.00 300	10.0	20.0	50.0
trans-1,3-Dichloropropene	CBZd5	Ave	8829 1266619	41090 3710453	109996	235951	614061	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl methacrylate	CBZd5	Ave	8899 1459727	42116 4194753	122874	268605	711339	1.00 100	4.00 300	10.0	20.0	50.0
1,1,2-Trichloroethane	CBZd5	Ave	6728 779148	29588 2243513	73851	152127	387230	1.00 100	4.00 300	10.0	20.0	50.0
Tetrachloroethene	CBZd5	Ave	8452 985559	38264 2587272	88652	187061	488589	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Dichloropropane	CBZd5	Ave	11979 1373048	51335 3887370	130080	271681	679043	1.00 100	4.00 300	10.0	20.0	50.0
2-Hexanone	CBZd5	Ave	17149 2392257	78100 6610429	246169	492316	1259274	2.00 200	8.00 600	20.0	40.0	100
Dibromochloromethane	CBZd5	Ave	5681 827168	25942 2467107	69438	150207	395627	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dibromoethane	CBZd5	Ave	6789 862703	30549 2526625	78744	164693	424079	1.00 100	4.00 300	10.0	20.0	50.0
1-Chlorohexane	CBZd5	Ave	10122 1120872	41239 3148232	94831	213580	547359	1.00 100	4.00 300	10.0	20.0	50.0
Chlorobenzene	CBZd5	Ave	21030 2218802	88376 6089776	215395	442946	1102173	1.00 100	4.00 300	10.0	20.0	50.0
1,1,1,2-Tetrachloroethane	CBZd5	Ave	6013 736059	26771 2058443	68933	142692	366359	1.00 100	4.00 300	10.0	20.0	50.0
Ethylbenzene	CBZd5	Ave	32759 3840223	146854 10010518	356947	759572	1903758	1.00 100	4.00 300	10.0	20.0	50.0
m&p-Xylene	CBZd5	Ave	24914 2997830	115223 7783240	284736	599144	1500680	2.00 200	8.00 600	20.0	40.0	100
o-Xylene	CBZd5	Ave	11777 1463748	54358 3873954	137624	292724	727624	1.00 100	4.00 300	10.0	20.0	50.0
Styrene	CBZd5	Ave	17141 2500873	85518 6632146	224901	482706	1238906	1.00 100	4.00 300	10.0	20.0	50.0
Bromoform	CBZd5	Ave	3941 652070	18229 1942528	50108	111608	307903	1.00 100	4.00 300	10.0	20.0	50.0
Isopropylbenzene	CBZd5	Ave	28693 3807297	140862 9905647	345051	752800	1882519	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.: 410-15514-1 Analy Batch No.: 46013

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/21/2020 14:04 Calibration End Date: 09/21/2020 16:16 Calibration ID: 11387

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
Cyclohexanone	TBAd 10	Ave	25361 810730	120358 1766458	150352	319693	429112	50.0 1250	200 3750	250	500	625
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	11913 1365620	50576 3701640	131522	265291	678786	1.00 100	4.00 300	10.0	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	39148 1193300	170675 3095441	220629	458012	593997	10.0 250	40.0 750	50.0	100	125
Bromobenzene	DCBd 4	Ave	8985 950570	38480 2445940	93751	191563	479583	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	3943 415277	16243 1134658	40529	80660	207755	1.00 100	4.00 300	10.0	20.0	50.0
N-Propylbenzene	DCBd 4	Ave	40502 4525639	181045 11169896	421938	907607	2257212	1.00 100	4.00 300	10.0	20.0	50.0
2-Chlorotoluene	DCBd 4	Ave	8221 926878	36904 2560219	86860	184322	459461	1.00 100	4.00 300	10.0	20.0	50.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	26454 3303117	126291 8700354	306013	659883	1637790	1.00 100	4.00 300	10.0	20.0	50.0
4-Chlorotoluene	DCBd 4	Ave	8141 970376	37896 2666645	91927	193000	482415	1.00 100	4.00 300	10.0	20.0	50.0
tert-Butylbenzene	DCBd 4	Ave	5460 701688	25754 1902452	62050	136501	347019	1.00 100	4.00 300	10.0	20.0	50.0
Pentachloroethane	DCBd 4	Ave	3284 449477	15154 1387883	40076	87585	212303	1.00 100	4.00 300	10.0	20.0	50.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	26475 3429071	129276 8772386	318745	681735	1707072	1.00 100	4.00 300	10.0	20.0	50.0
sec-Butylbenzene	DCBd 4	Ave	33870 4284058	165245 10532028	378760	853050	2126711	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Dichlorobenzene	DCBd 4	Ave	17592 1833532	75167 4686177	180796	371225	925150	1.00 100	4.00 300	10.0	20.0	50.0
p-Isopropyltoluene	DCBd 4	Ave	27722 3646411	138087 8980030	325587	730779	1824960	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Dichlorobenzene	DCBd 4	Ave	18807 1884428	77097 4810936	184814	384061	946277	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	29809 3358984	128067 8413636	314791	666830	1686053	1.00 100	4.00 300	10.0	20.0	50.0
Benzyl chloride	DCBd 4	Ave	19520 2915475	89546 7908676	249368	539113	1428546	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Diethylbenzene	DCBd 4	Ave	16663 2202657	80554 5684502	197193	430945	1094557	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Diethylbenzene	DCBd 4	Ave	17211 2301764	85969 5817375	209487	457223	1155096	1.00 100	4.00 300	10.0	20.0	50.0
n-Butylbenzene	DCBd 4	Ave	16097 1898046	75389 4871567	169637	379050	950445	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.: 410-15514-1 Analy Batch No.: 46013

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/21/2020 14:04 Calibration End Date: 09/21/2020 16:16 Calibration ID: 11387

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
1,2-Dichlorobenzene	DCBd 4	Ave	17830 1783037	72547 4652551	176976	362710	898969	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Diethylbenzene	DCBd 4	Ave	15062 1790766	68281 4592150	168434	358370	903553	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	2545 362697	10936 1009341	31701	66152	176605	1.00 100	4.00 300	10.0	20.0	50.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	13435 1444574	55977 3841929	132019	289970	720406	1.00 100	4.00 300	10.0	20.0	50.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	12369 1362645	50801 3626613	123751	268731	681392	1.00 100	4.00 300	10.0	20.0	50.0
Hexachlorobutadiene	DCBd 4	Ave	6038 634116	24556 1700929	49237	126602	312402	1.00 100	4.00 300	10.0	20.0	50.0
Naphthalene	DCBd 4	Ave	37394 4682947	163716 11051928	448351	954779	2417681	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	12232 1290041	49997 3484288	123129	262663	659629	1.00 100	4.00 300	10.0	20.0	50.0
2-Methylnaphthalene	DCBd 4	Ave	19304 2703230	84757 7140927	235336	543926	1431828	1.00 100	4.00 300	10.0	20.0	50.0
Dibromofluoromethane (Surr)	FB	Ave	274168 277810	274708 276366	275143	273195	279306	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	75441 75682	76362 75082	75625	75896	76694	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBZd 5	Ave	1196006 1222224	1201608 1221109	1205739	1202459	1221242	50.0 50.0	50.0 50.0	50.0	50.0	50.0
4-Bromofluorobenzene (Surr)	CBZd 5	Ave	451548 456853	454722 458896	453590	448059	452437	50.0 50.0	50.0 50.0	50.0	50.0	50.0

Curve Type Legend:
Ave = Average ISTD

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I01.D
Lims ID: IC level7 300
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 21-Sep-2020 14:04:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0010935-003
Misc. Info.: IC LEVEL7 300
Operator ID: kas02648 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub2

Method: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 21-Sep-2020 18:07:47 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1029

First Level Reviewer: campbellme Date: 21-Sep-2020 16:25:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.037	2.044	-0.007	99	2746005	300.0	334.2	
4 Chloromethane	50	2.250	2.257	-0.007	99	2551175	300.0	299.3	
5 Butadiene	39	2.360	2.366	-0.006	91	1783243	300.0	297.5	
6 Vinyl chloride	62	2.372	2.378	-0.006	98	2367430	300.0	299.0	
8 Bromomethane	94	2.695	2.701	-0.007	90	1577960	300.0	285.4	
9 Chloroethane	64	2.786	2.792	-0.006	100	1378299	300.0	281.5	
10 Dichlorofluoromethane	67	3.029	3.029	0.000	97	3236600	300.0	292.6	
11 Trichlorofluoromethane	101	3.114	3.121	-0.007	98	3070694	300.0	312.6	
12 Pentane	43	3.139	3.151	-0.012	96	2889956	300.0	298.8	
14 Ethyl ether	59	3.352	3.364	-0.012	91	2166313	300.0	295.4	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.431	3.431	0.000	95	2448461	300.0	305.5	
16 Acrolein	56	3.516	3.528	-0.012	99	8786392	3005.6	3039.7	
17 1,1-Dichloroethene	96	3.680	3.680	0.000	98	1774225	300.0	306.3	
18 Acetone	58	3.686	3.692	-0.006	100	927285	600.0	619.2	
19 112TCTFE	101	3.717	3.723	-0.006	93	1893636	300.0	316.8	
20 Isopropyl alcohol	45	3.856	3.863	-0.007	100	1683387	1500.0	1564.3	
21 Iodomethane	142	3.887	3.893	-0.006	98	3233189	300.0	309.8	
22 Carbon disulfide	76	4.009	4.009	0.000	99	6388629	300.0	313.0	
24 Methyl acetate	43	4.124	4.137	-0.013	98	3192626	300.0	308.3	
25 3-Chloro-1-propene	41	4.161	4.173	-0.012	94	3393905	300.0	310.5	
* 26 t-Butyl alcohol-d10 (IS)	65	4.349	4.356	-0.007	87	353269	250.0	250.0	
27 Methylene Chloride	84	4.355	4.368	-0.013	92	2184708	300.0	297.3	
28 2-Methyl-2-propanol	59	4.477	4.477	0.000	99	2908575	1500.0	1522.3	
30 Acrylonitrile	53	4.672	4.684	-0.012	99	1745454	300.0	309.9	
31 Methyl tert-butyl ether	73	4.775	4.781	-0.006	95	6851927	300.0	304.4	
32 trans-1,2-Dichloroethene	96	4.787	4.800	-0.013	99	2074235	300.0	301.8	
33 Hexane	57	5.207	5.219	-0.012	92	3638767	300.0	335.6	
36 1,1-Dichloroethane	63	5.432	5.444	-0.012	96	3832233	300.0	302.3	
37 Isopropyl ether	45	5.493	5.499	-0.006	94	7199734	300.0	304.3	
38 2-Chloro-1,3-butadiene	53	5.548	5.554	-0.006	90	3402602	300.0	328.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	6.034	6.035	-0.001	97	6757627	300.0	310.2	
S 40 1,2-Dichloroethene, Total	100				0			600.7	
41 2-Butanone (MEK)	43	6.223	6.229	-0.006	99	4622510	600.0	607.9	
42 cis-1,2-Dichloroethene	96	6.259	6.266	-0.007	83	2338387	300.0	299.0	
44 2,2-Dichloropropane	77	6.284	6.284	0.000	87	2914508	300.0	311.8	
45 Propionitrile	54	6.296	6.296	0.000	99	3375653	1500.0	1559.4	
46 Methacrylonitrile	67	6.521	6.521	0.000	92	4142014	750.0	758.9	
47 Chlorobromomethane	128	6.600	6.600	0.000	95	1197452	300.0	306.8	
48 Tetrahydrofuran	71	6.618	6.619	-0.001	90	1299067	600.0	654.7	
49 Chloroform	83	6.740	6.746	-0.006	93	3641271	300.0	305.8	
$ 50 Dibromofluoromethane (Surr)	113	6.959	6.959	0.000	94	276366	50.0	50.8	
51 1,1,1-Trichloroethane	97	6.983	6.984	-0.001	98	3113940	300.0	315.0	
52 Cyclohexane	56	7.093	7.093	0.000	90	4133632	300.0	322.7	
53 1,1-Dichloropropene	75	7.190	7.197	-0.007	98	3068317	300.0	309.2	
54 Carbon tetrachloride	117	7.202	7.203	-0.001	97	2627127	300.0	320.6	
55 Isobutyl alcohol	41	7.312	7.306	0.006	95	2505985	3750.0	3954.6	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.421	7.422	-0.001	96	75082	50.0	50.2	
57 Benzene	78	7.458	7.458	0.000	96	9055166	300.0	294.6	
59 1,2-Dichloroethane	62	7.525	7.525	0.000	97	2993959	300.0	297.9	
60 Tert-amyl methyl ether	73	7.647	7.647	0.000	98	6532991	300.0	305.2	
* 62 Fluorobenzene (IS)	96	7.853	7.860	-0.007	99	1211019	50.0	50.0	
63 n-Heptane	43	7.872	7.878	-0.006	92	4006320	300.0	322.2	
64 n-Butanol	56	8.188	8.182	0.006	88	4328465	7500.0	7713.3	
65 Trichloroethene	95	8.340	8.340	0.000	100	2326396	300.0	309.0	
66 Methylcyclohexane	83	8.656	8.657	-0.001	97	4126219	300.0	313.4	
67 1,2-Dichloropropane	63	8.669	8.669	0.000	73	2263549	300.0	284.8	
34 2-ethoxy-2-methyl butane	87	8.675	8.675	0.000	91	3238689	300.0	302.7	
68 Methyl methacrylate	69	8.742	8.736	0.006	92	2659710	300.0	331.5	
69 1,4-Dioxane	88	8.754	8.754	0.000	34	451834	3750.0	3735.5	M
70 Dibromomethane	93	8.784	8.784	0.000	97	1507989	300.0	309.0	
72 Dichlorobromomethane	83	9.009	9.009	0.000	100	2924690	300.0	332.7	
73 2-Nitropropane	41	9.259	9.253	0.006	97	2147634	600.0	694.2	
74 2-Chloroethyl vinyl ether	63	9.362	9.356	0.006	91	2055304	300.0	332.6	
75 cis-1,3-Dichloropropene	75	9.545	9.545	0.000	96	3958803	300.0	325.3	
76 4-Methyl-2-pentanone (MIBK)	43	9.703	9.697	0.006	96	8314275	600.0	595.2	
$ 77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	93	1221109	50.0	51.9	
78 Toluene	92	9.928	9.928	0.000	98	5631593	300.0	298.6	
S 79 1,3-Dichloropropene, Total	100				0			662.5	
80 trans-1,3-Dichloropropene	75	10.177	10.171	0.006	92	3710453	300.0	337.2	
81 Ethyl methacrylate	69	10.232	10.232	0.000	89	4194753	300.0	343.3	
82 1,1,2-Trichloroethane	97	10.378	10.378	0.000	90	2243513	300.0	309.9	
83 Tetrachloroethene	166	10.475	10.476	-0.001	96	2587272	300.0	289.0	
84 1,3-Dichloropropane	76	10.542	10.536	0.006	90	3887370	300.0	305.3	
86 2-Hexanone	43	10.579	10.579	0.000	95	6610429	600.0	606.3	
88 Chlorodibromomethane	129	10.761	10.762	-0.001	90	2467107	300.0	348.0	
89 Ethylene Dibromide	107	10.877	10.871	0.006	98	2526625	300.0	324.4	
S 90 Xylenes, Total	106				0			857.1	
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	86	867964	50.0	50.0	
92 1-Chlorohexane	91	11.303	11.297	0.006	98	3148232	300.0	309.5	
93 Chlorobenzene	112	11.327	11.321	0.006	95	6089776	300.0	289.8	
94 1,1,1,2-Tetrachloroethane	131	11.406	11.400	0.006	96	2058443	300.0	307.0	
95 Ethylbenzene	91	11.406	11.406	0.000	98	10010518	300.0	285.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
96 m-Xylene & p-Xylene	106	11.522	11.522	0.000	97	7783240	600.0	566.1	
97 o-Xylene	106	11.850	11.844	0.006	96	3873954	300.0	291.1	
98 Styrene	104	11.862	11.863	-0.001	92	6632146	300.0	304.2	
99 Bromoform	173	12.027	12.027	0.000	97	1942528	300.0	365.5	
100 Isopropylbenzene	105	12.148	12.143	0.006	97	9905647	300.0	291.5	
102 Cyclohexanone	55	12.215	12.216	-0.001	92	1766458	3749.8	3169.2	
$ 103 4-Bromofluorobenzene (Surr)	95	12.294	12.295	-0.001	89	458896	50.0	52.0	
104 1,1,2,2-Tetrachloroethane	83	12.386	12.380	0.006	93	3701640	300.0	296.5	
106 trans-1,4-Dichloro-2-butene	53	12.410	12.404	0.006	84	3095441	750.0	728.3	
105 Bromobenzene	156	12.410	12.410	0.000	91	2445940	300.0	273.9	
107 1,2,3-Trichloropropane	110	12.434	12.428	0.006	83	1134658	300.0	292.1	
108 N-Propylbenzene	91	12.477	12.471	0.006	97	11169896	300.0	269.3	
109 2-Chlorotoluene	126	12.556	12.550	0.006	97	2560219	300.0	297.9	
110 1,3,5-Trimethylbenzene	105	12.611	12.605	0.006	94	8700354	300.0	291.6	
111 4-Chlorotoluene	126	12.647	12.641	0.006	97	2666645	300.0	298.9	
113 tert-Butylbenzene	134	12.854	12.848	0.006	92	1902452	300.0	305.0	
114 Pentachloroethane	167	12.885	12.885	-0.001	94	1387883	300.0	348.8	
115 1,2,4-Trimethylbenzene	105	12.897	12.891	0.006	97	8772386	300.0	286.1	
116 sec-Butylbenzene	105	13.018	13.012	0.006	95	10532028	300.0	276.6	
117 1,3-Dichlorobenzene	146	13.116	13.116	0.000	97	4686177	300.0	271.0	
118 4-Isopropyltoluene	119	13.122	13.122	0.000	95	8980030	300.0	278.1	
* 119 1,4-Dichlorobenzene-d4	152	13.177	13.171	0.005	87	471110	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.195	13.189	0.006	93	4810936	300.0	269.5	
120 1,2,3-Trimethylbenzene	105	13.201	13.195	0.006	98	8413636	300.0	275.0	
122 Benzyl chloride	91	13.262	13.262	0.000	99	7908676	300.0	322.2	
123 1,3-Diethylbenzene	119	13.323	13.323	0.000	94	5684502	300.0	292.5	
124 p-Diethylbenzene	119	13.396	13.396	0.000	92	5817375	300.0	285.0	
125 n-Butylbenzene	92	13.414	13.414	0.000	97	4871567	300.0	282.5	
126 1,2-Dichlorobenzene	146	13.450	13.450	0.000	97	4652551	300.0	274.2	
127 o-diethylbenzene	119	13.469	13.463	0.006	96	4592150	300.0	281.9	
129 1,2-Dibromo-3-Chloropropane	75	13.992	13.986	0.006	87	1009341	300.0	328.3	
130 1,3,5-Trichlorobenzene	180	14.119	14.120	-0.001	98	3841929	300.0	287.9	
131 1,2,4-Trichlorobenzene	180	14.545	14.546	-0.001	95	3626613	300.0	291.6	
132 Hexachlorobutadiene	225	14.624	14.625	-0.001	98	1700929	300.0	296.0	
133 Naphthalene	128	14.728	14.722	0.006	98	11051928	300.0	264.7	
134 1,2,3-Trichlorobenzene	180	14.868	14.868	0.000	96	3484288	300.0	287.6	
135 2-Methylnaphthalene	142	15.513	15.513	0.000	91	7140927	300.0	303.3	
S 146 Total Diethylbenzene	1				0			859.4	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_VCYC_00005	Amount Added:	30.00	Units: uL	
MSV_V_EE_00003	Amount Added:	15.00	Units: uL	
MSV_DCFM_00022	Amount Added:	7.50	Units: uL	
MSV_V_2CEVE_00106	Amount Added:	15.00	Units: uL	
MSV_V_VOA1_00094	Amount Added:	15.00	Units: uL	
MSV_V_VOA3_00047	Amount Added:	6.00	Units: uL	
MSV_V_VOA6_00053	Amount Added:	15.00	Units: uL	
MSV_V_Gas_00146	Amount Added:	7.50	Units: uL	
MSV_HP20_ISSS_00025	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 21-Sep-2020 18:07:49 Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I01.D

Injection Date: 21-Sep-2020 14:04:30 Instrument ID: 9355 Operator ID: kas02648

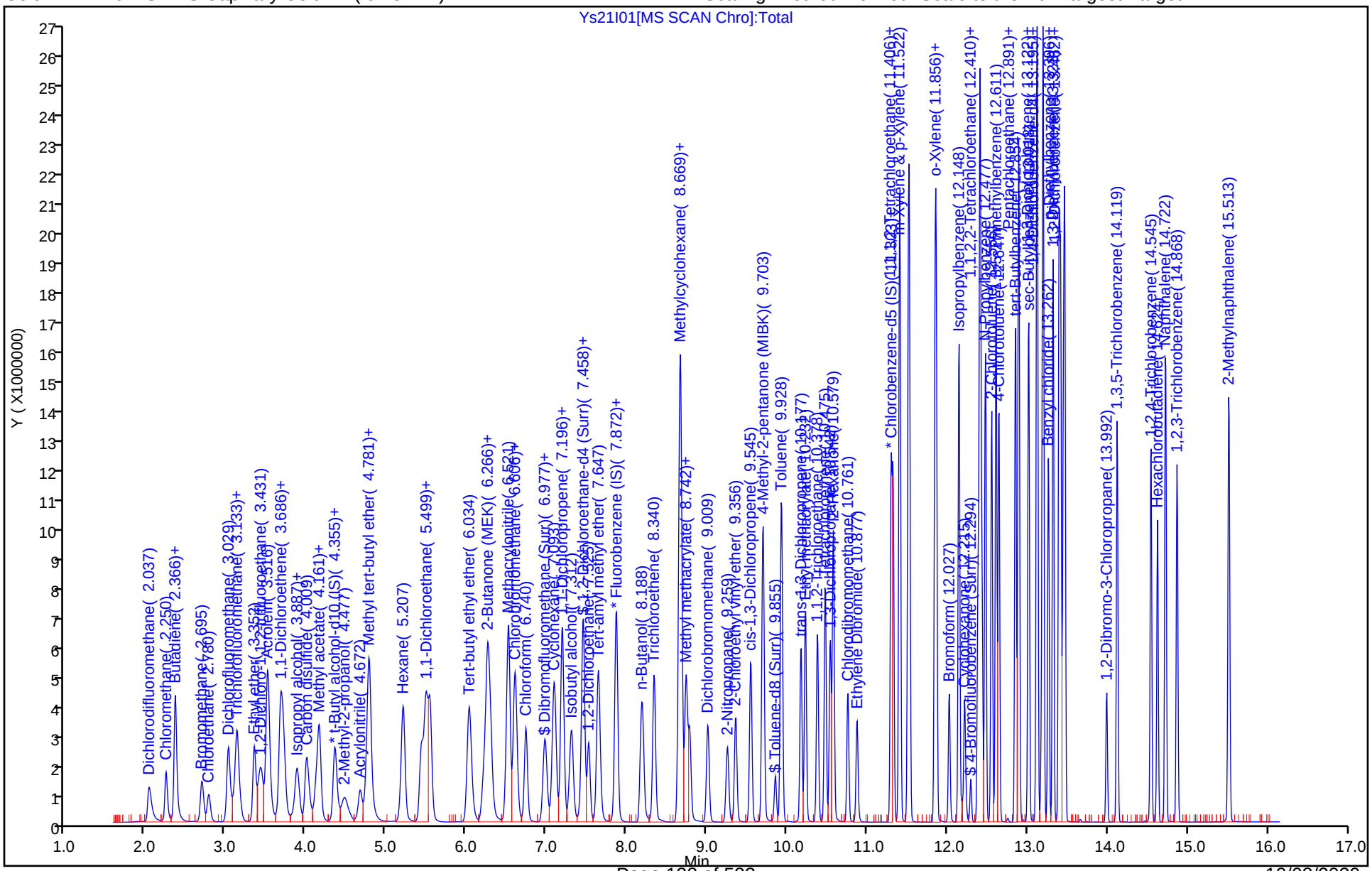
Lims ID: IC level7 300 Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: MSVoa_9355 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

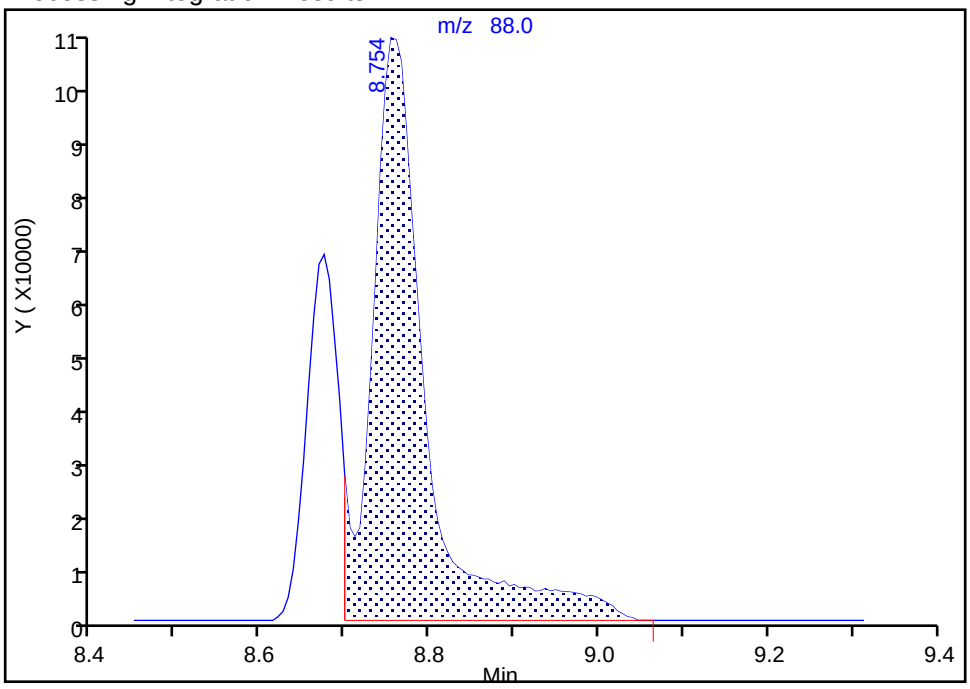
Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I01.D
Injection Date: 21-Sep-2020 14:04:30 Instrument ID: 9355
Lims ID: IC level7 300
Client ID:
Operator ID: kas02648 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

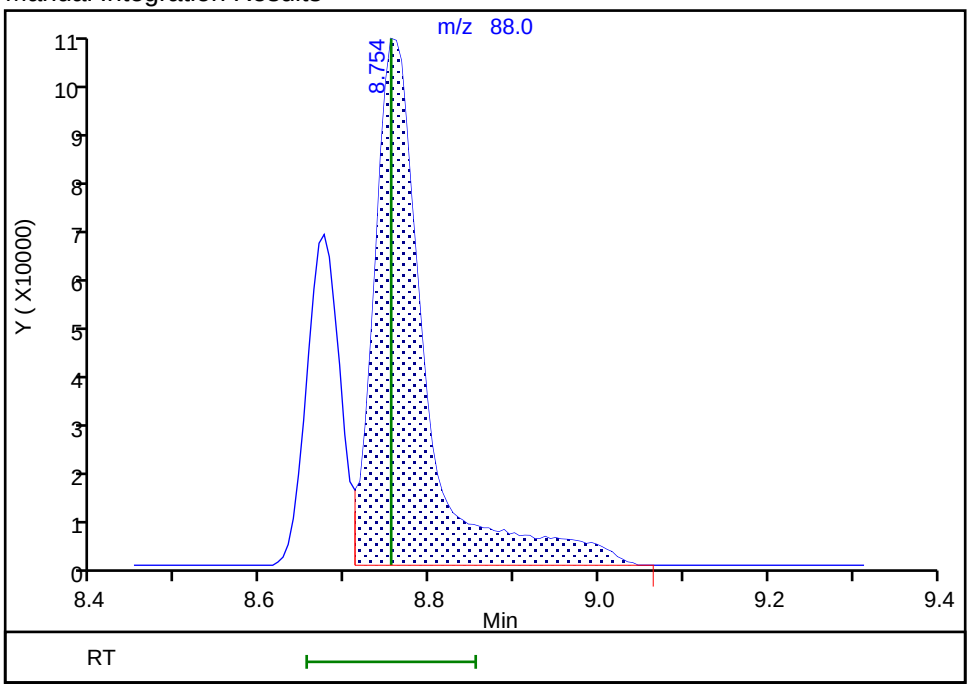
Processing Integration Results

RT: 8.75
Area: 467684
Amount: 3809.3223
Amount Units: ug/l



Manual Integration Results

RT: 8.75
Area: 451834
Amount: 3735.5434
Amount Units: ug/l



Reviewer: campbellme, 21-Sep-2020 16:25:19
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I02.D
Lims ID: IC std6 100
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 21-Sep-2020 14:26:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0010935-004
Misc. Info.: IC STD6 100
Operator ID: kas02648 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub2

Method: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 21-Sep-2020 18:08:00 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1029

First Level Reviewer: campbellme Date: 21-Sep-2020 16:27:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.038	2.044	-0.006	99	883268	100.0	105.4	M
4 Chloromethane	50	2.251	2.257	-0.006	99	858020	100.0	98.8	
5 Butadiene	39	2.366	2.366	0.000	91	627958	100.0	102.8	
6 Vinyl chloride	62	2.372	2.378	-0.006	98	817374	100.0	101.3	
8 Bromomethane	94	2.701	2.701	0.000	90	543994	100.0	96.5	
9 Chloroethane	64	2.786	2.792	-0.006	100	484348	100.0	97.0	
10 Dichlorofluoromethane	67	3.029	3.029	0.000	97	1106831	100.0	98.2	
11 Trichlorofluoromethane	101	3.114	3.121	-0.007	98	1015757	100.0	101.4	
12 Pentane	43	3.145	3.151	-0.006	96	1019425	100.0	103.4	
14 Ethyl ether	59	3.358	3.364	-0.006	92	745197	100.0	99.7	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.425	3.431	-0.006	93	830542	100.0	101.6	
16 Acrolein	56	3.522	3.528	-0.006	99	2979872	1001.9	984.2	
17 1,1-Dichloroethene	96	3.680	3.680	0.000	98	610322	100.0	103.4	
18 Acetone	58	3.686	3.692	-0.006	100	300779	200.0	191.7	
19 112TCTFE	101	3.717	3.723	-0.006	93	644448	100.0	105.7	
20 Isopropyl alcohol	45	3.857	3.863	-0.006	100	591468	500.0	524.7	
21 Iodomethane	142	3.887	3.893	-0.006	97	1095964	100.0	103.0	
22 Carbon disulfide	76	4.009	4.009	0.000	99	2174260	100.0	104.5	
24 Methyl acetate	43	4.130	4.137	-0.007	98	1080650	100.0	102.4	
25 3-Chloro-1-propene	41	4.167	4.173	-0.006	94	1189766	100.0	106.8	
* 26 t-Butyl alcohol-d10 (IS)	65	4.349	4.356	-0.007	90	370049	250.0	250.0	
27 Methylene Chloride	84	4.356	4.368	-0.012	93	744240	100.0	99.3	
28 2-Methyl-2-propanol	59	4.477	4.477	0.000	99	1054249	500.0	526.8	
30 Acrylonitrile	53	4.678	4.684	-0.006	99	583093	100.0	101.5	
31 Methyl tert-butyl ether	73	4.775	4.781	-0.006	95	2376331	100.0	103.6	
32 trans-1,2-Dichloroethene	96	4.787	4.800	-0.013	99	719313	100.0	102.6	
33 Hexane	57	5.213	5.219	-0.006	92	1236979	100.0	111.9	
36 1,1-Dichloroethane	63	5.438	5.444	-0.006	96	1324935	100.0	102.5	
37 Isopropyl ether	45	5.499	5.499	0.000	94	2548766	100.0	105.7	
38 2-Chloro-1,3-butadiene	53	5.548	5.554	-0.006	90	1169812	100.0	110.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	6.035	6.035	0.000	98	2365040	100.0	106.5	
S 40 1,2-Dichloroethene, Total	100				0			205.8	
41 2-Butanone (MEK)	43	6.223	6.229	-0.006	100	1561731	200.0	201.5	
42 cis-1,2-Dichloroethene	96	6.266	6.266	0.000	82	822263	100.0	103.1	
44 2,2-Dichloropropane	77	6.284	6.284	0.000	89	1012041	100.0	106.2	
45 Propionitrile	54	6.296	6.296	0.000	99	1149182	500.0	506.8	
46 Methacrylonitrile	67	6.521	6.521	0.000	92	1428517	250.0	256.7	
47 Chlorobromomethane	128	6.600	6.600	0.000	96	415125	100.0	104.3	
48 Tetrahydrofuran	71	6.619	6.619	0.000	92	434920	200.0	209.3	
49 Chloroform	83	6.746	6.746	0.000	93	1249872	100.0	103.0	
$ 50 Dibromofluoromethane (Surr)	113	6.959	6.959	0.000	93	277810	50.0	50.1	
51 1,1,1-Trichloroethane	97	6.984	6.984	0.000	98	1059676	100.0	105.1	
52 Cyclohexane	56	7.093	7.093	0.000	90	1434533	100.0	109.9	
53 1,1-Dichloropropene	75	7.197	7.197	0.000	98	1078676	100.0	106.6	
54 Carbon tetrachloride	117	7.203	7.203	0.000	96	903400	100.0	108.1	
55 Isobutyl alcohol	41	7.306	7.306	0.000	95	913062	1250.0	1375.5	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.422	7.422	0.000	97	75682	50.0	49.6	
57 Benzene	78	7.458	7.458	0.000	96	3191034	100.0	101.8	
59 1,2-Dichloroethane	62	7.525	7.525	0.000	97	1020740	100.0	99.6	
60 Tert-amyl methyl ether	73	7.647	7.647	0.000	98	2321429	100.0	106.4	
* 62 Fluorobenzene (IS)	96	7.860	7.860	0.000	99	1234597	50.0	50.0	
63 n-Heptane	43	7.872	7.878	-0.006	92	1397602	100.0	110.2	
64 n-Butanol	56	8.182	8.182	0.000	89	1689053	2500.0	2873.4	
65 Trichloroethene	95	8.340	8.340	0.000	99	797314	100.0	103.9	
66 Methylcyclohexane	83	8.657	8.657	0.000	96	1496146	100.0	111.5	
67 1,2-Dichloropropane	63	8.669	8.669	0.000	71	833575	100.0	102.9	
34 2-ethoxy-2-methyl butane	87	8.675	8.675	0.000	90	1180426	100.0	108.2	
68 Methyl methacrylate	69	8.736	8.736	0.000	92	902323	100.0	110.3	
69 1,4-Dioxane	88	8.754	8.754	0.000	92	174260	1250.0	1375.4	M
70 Dibromomethane	93	8.784	8.784	0.000	97	514484	100.0	103.4	
72 Dichlorobromomethane	83	9.009	9.009	0.000	100	974790	100.0	108.8	
73 2-Nitropropane	41	9.253	9.253	0.000	97	709478	200.0	218.9	
74 2-Chloroethyl vinyl ether	63	9.356	9.356	0.000	91	727002	100.0	115.4	
75 cis-1,3-Dichloropropene	75	9.545	9.545	0.000	96	1363728	100.0	109.9	
76 4-Methyl-2-pentanone (MIBK)	43	9.697	9.697	0.000	96	2989218	200.0	209.9	
$ 77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	93	1222224	50.0	50.0	
78 Toluene	92	9.928	9.928	0.000	98	1998468	100.0	102.0	
S 79 1,3-Dichloropropene, Total	100				0			220.7	
80 trans-1,3-Dichloropropene	75	10.171	10.171	0.000	92	1266619	100.0	110.8	
81 Ethyl methacrylate	69	10.232	10.232	0.000	90	1459727	100.0	115.0	
82 1,1,2-Trichloroethane	97	10.378	10.378	0.000	90	779148	100.0	103.6	
83 Tetrachloroethene	166	10.476	10.476	0.000	97	985559	100.0	106.0	
84 1,3-Dichloropropane	76	10.536	10.536	0.000	91	1373048	100.0	103.8	
86 2-Hexanone	43	10.579	10.579	0.000	95	2392257	200.0	211.3	
88 Chlorodibromomethane	129	10.755	10.762	-0.007	90	827168	100.0	112.3	
89 Ethylene Dibromide	107	10.871	10.871	0.000	98	862703	100.0	106.7	
S 90 Xylenes, Total	106				0			315.8	
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	86	901413	50.0	50.0	
92 1-Chlorohexane	91	11.297	11.297	0.000	98	1120872	100.0	106.1	
93 Chlorobenzene	112	11.321	11.321	0.000	94	2218802	100.0	101.7	
94 1,1,1,2-Tetrachloroethane	131	11.400	11.400	0.000	97	736059	100.0	105.7	
95 Ethylbenzene	91	11.406	11.406	0.000	98	3840223	100.0	105.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
96 m-Xylene & p-Xylene	106	11.522	11.522	0.000	100	2997830	200.0	209.9	
97 o-Xylene	106	11.844	11.844	0.000	96	1463748	100.0	105.9	
98 Styrene	104	11.863	11.863	0.000	94	2500873	100.0	110.4	
99 Bromoform	173	12.027	12.027	0.000	98	652070	100.0	118.2	
100 Isopropylbenzene	105	12.149	12.143	0.007	96	3807297	100.0	107.9	
102 Cyclohexanone	55	12.216	12.216	0.000	91	810730	1249.9	1388.6	
$ 103 4-Bromofluorobenzene (Surr)	95	12.295	12.295	0.000	90	456853	50.0	49.9	
104 1,1,2,2-Tetrachloroethane	83	12.380	12.380	0.000	93	1365620	100.0	105.0	
106 trans-1,4-Dichloro-2-butene	53	12.404	12.404	0.000	82	1193300	250.0	269.6	
105 Bromobenzene	156	12.410	12.410	0.000	92	950570	100.0	102.2	
107 1,2,3-Trichloropropane	110	12.435	12.428	0.007	83	415277	100.0	102.7	
108 N-Propylbenzene	91	12.477	12.471	0.006	99	4525639	100.0	104.8	
109 2-Chlorotoluene	126	12.556	12.550	0.006	97	926878	100.0	103.5	
110 1,3,5-Trimethylbenzene	105	12.611	12.605	0.006	94	3303117	100.0	106.3	
111 4-Chlorotoluene	126	12.641	12.641	0.000	97	970376	100.0	104.4	
113 tert-Butylbenzene	134	12.854	12.848	0.006	93	701688	100.0	108.0	
114 Pentachloroethane	167	12.885	12.885	0.000	88	449477	100.0	108.5	
115 1,2,4-Trimethylbenzene	105	12.891	12.891	0.000	97	3429071	100.0	107.4	
116 sec-Butylbenzene	105	13.012	13.012	0.000	94	4284058	100.0	108.1	
117 1,3-Dichlorobenzene	146	13.116	13.116	0.000	97	1833532	100.0	101.8	
118 4-Isopropyltoluene	119	13.122	13.122	0.000	97	3646411	100.0	108.4	
* 119 1,4-Dichlorobenzene-d4	152	13.171	13.171	0.000	95	490596	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.189	13.189	0.000	94	1884428	100.0	101.4	
120 1,2,3-Trimethylbenzene	105	13.195	13.195	0.000	98	3358984	100.0	105.4	
122 Benzyl chloride	91	13.262	13.262	0.000	98	2915475	100.0	114.1	
123 1,3-Diethylbenzene	119	13.323	13.323	0.000	95	2202657	100.0	108.8	
124 p-Diethylbenzene	119	13.396	13.396	0.000	93	2301764	100.0	108.3	
125 n-Butylbenzene	92	13.414	13.414	0.000	97	1898046	100.0	105.7	
126 1,2-Dichlorobenzene	146	13.450	13.450	0.000	98	1783037	100.0	100.9	
127 o-diethylbenzene	119	13.463	13.463	0.000	96	1790766	100.0	105.6	
129 1,2-Dibromo-3-Chloropropane	75	13.986	13.986	0.000	87	362697	100.0	113.3	
130 1,3,5-Trichlorobenzene	180	14.120	14.120	0.000	98	1444574	100.0	104.0	
131 1,2,4-Trichlorobenzene	180	14.546	14.546	0.000	94	1362645	100.0	105.2	
132 Hexachlorobutadiene	225	14.625	14.625	0.000	97	634116	100.0	106.0	
133 Naphthalene	128	14.722	14.722	0.000	97	4682947	100.0	107.7	
134 1,2,3-Trichlorobenzene	180	14.868	14.868	0.000	96	1290041	100.0	102.3	
135 2-Methylnaphthalene	142	15.513	15.513	0.000	92	2703230	100.0	110.2	
S 146 Total Diethylbenzene	1				0			322.7	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_VCYC_00005	Amount Added:	10.00	Units: uL	
MSV_V_EE_00003	Amount Added:	5.00	Units: uL	
MSV_DCFM_00022	Amount Added:	2.50	Units: uL	
MSV_V_VOA1_00094	Amount Added:	5.00	Units: uL	
MSV_V_VOA3_00047	Amount Added:	2.00	Units: uL	
MSV_V_VOA6_00053	Amount Added:	5.00	Units: uL	
MSV_V_2CEVE_00106	Amount Added:	5.00	Units: uL	
MSV_V_Gas_00146	Amount Added:	2.50	Units: uL	
MSV_HP20_ISSS_00025	Amount Added:	1.00	Units: uL	Run Reagent

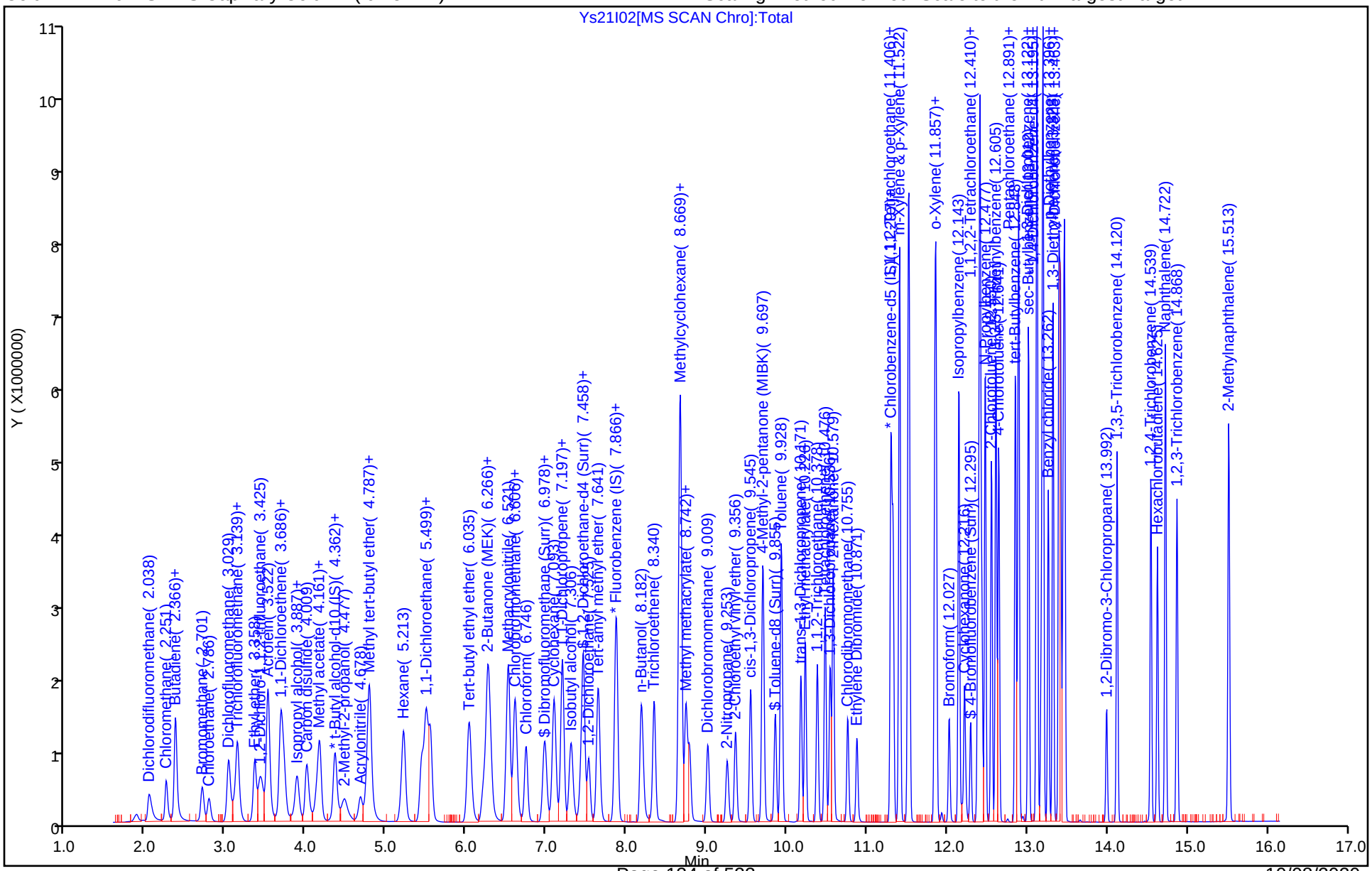
Report Date: 21-Sep-2020 18:08:01 Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I02.D

Injection Date:	21-Sep-2020 14:26:30	Instrument ID:	9355	Operator ID:	kas02648
Lims ID:	IC std6 100			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSVoa_9355	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

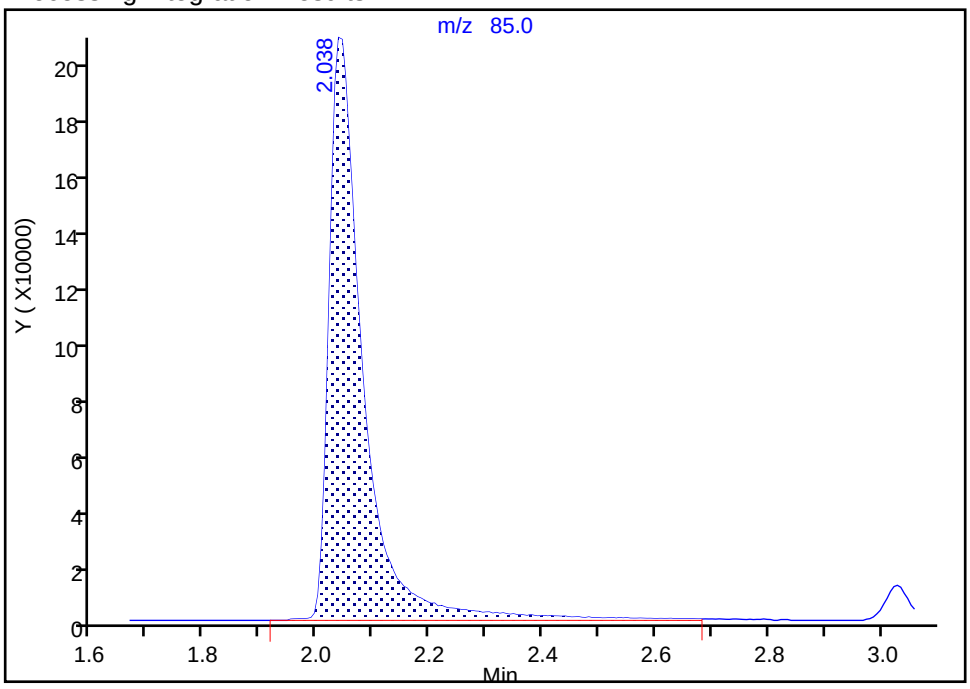
Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I02.D
Injection Date: 21-Sep-2020 14:26:30 Instrument ID: 9355
Lims ID: IC std6 100
Client ID:
Operator ID: kas02648 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

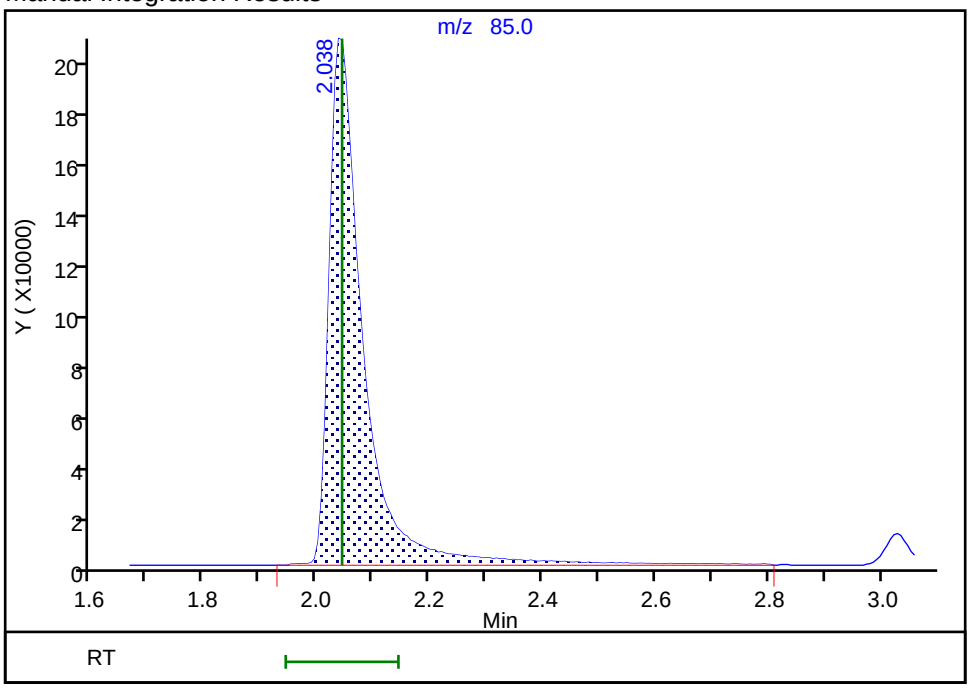
Processing Integration Results

RT: 2.04
Area: 880192
Amount: 101.6770
Amount Units: ug/l



Manual Integration Results

RT: 2.04
Area: 883268
Amount: 105.4459
Amount Units: ug/l



Reviewer: campbellme, 21-Sep-2020 16:26:42
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

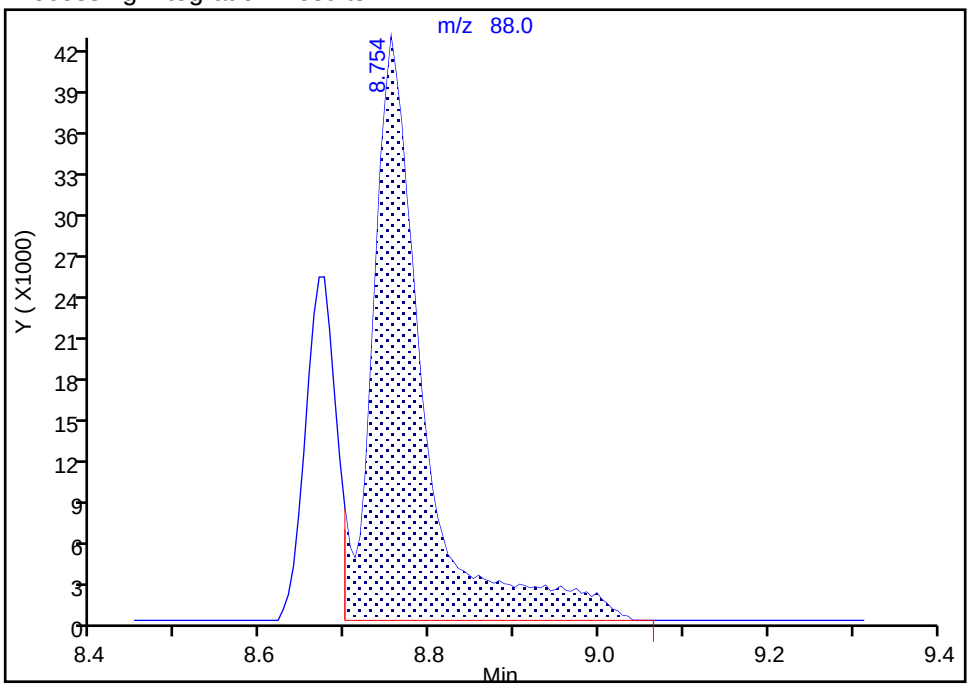
Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I02.D
Injection Date: 21-Sep-2020 14:26:30 Instrument ID: 9355
Lims ID: IC std6 100
Client ID:
Operator ID: kas02648 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

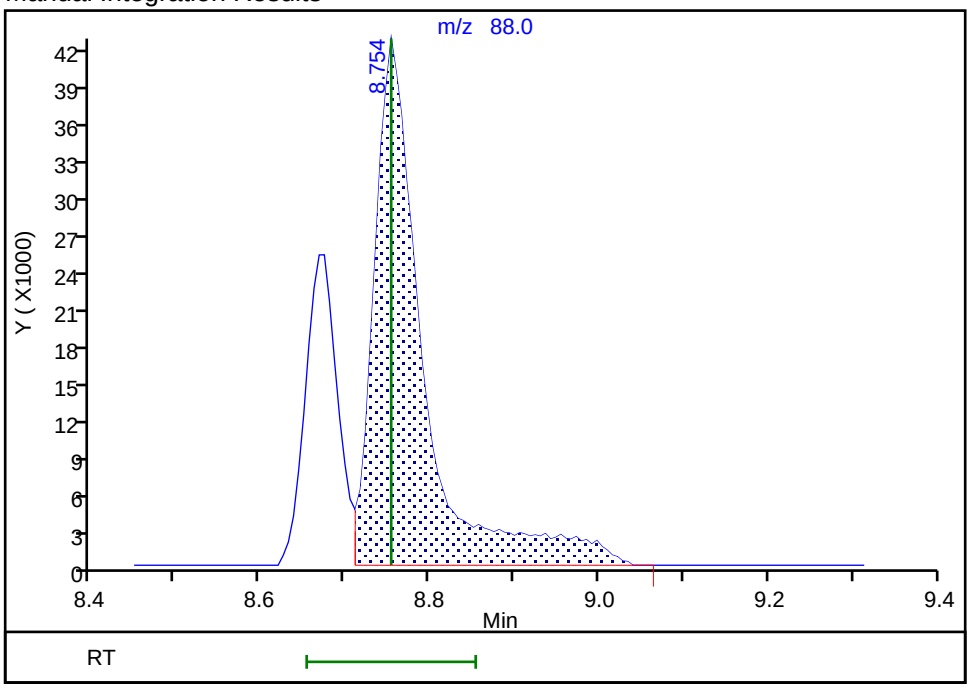
Processing Integration Results

RT: 8.75
Area: 179233
Amount: 1401.7111
Amount Units: ug/l



Manual Integration Results

RT: 8.75
Area: 174260
Amount: 1375.3679
Amount Units: ug/l



Reviewer: campbellme, 21-Sep-2020 16:27:10
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I03.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 21-Sep-2020 14:48:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0010935-005
Misc. Info.: ICIS
Operator ID: kas02648 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub2

Method: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 21-Sep-2020 18:08:14 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1029

First Level Reviewer: campbellme Date: 21-Sep-2020 17:56:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.038	2.038	0.000	99	437139	50.0	52.1	
4 Chloromethane	50	2.251	2.251	0.000	99	421728	50.0	48.5	
5 Butadiene	39	2.366	2.366	0.000	91	299784	50.0	49.0	
6 Vinyl chloride	62	2.372	2.372	0.000	98	403407	50.0	49.9	
8 Bromomethane	94	2.701	2.701	0.000	90	277955	50.0	49.2	
9 Chloroethane	64	2.786	2.786	0.000	100	248271	50.0	49.7	
10 Dichlorofluoromethane	67	3.029	3.029	0.000	97	562074	50.0	49.8	
11 Trichlorofluoromethane	101	3.114	3.114	0.000	98	509501	50.0	50.8	
12 Pentane	43	3.145	3.145	0.000	97	504087	50.0	51.0	
14 Ethyl ether	59	3.358	3.358	0.000	92	371639	50.0	49.6	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.425	3.425	0.000	93	413279	50.0	50.5	
16 Acrolein	56	3.522	3.522	0.000	99	1601740	500.9	501.0	
17 1,1-Dichloroethene	96	3.680	3.680	0.000	98	298740	50.0	50.5	
18 Acetone	58	3.692	3.692	0.000	100	156121	100.0	94.3	
19 112TCTFE	101	3.717	3.717	0.000	93	312624	50.0	51.2	
20 Isopropyl alcohol	45	3.863	3.863	0.000	100	304713	250.0	256.0	
21 Iodomethane	142	3.887	3.887	0.000	97	543675	50.0	51.0	
22 Carbon disulfide	76	4.009	4.009	0.000	99	1061601	50.0	50.9	
24 Methyl acetate	43	4.130	4.130	0.000	98	531542	50.0	50.3	
25 3-Chloro-1-propene	41	4.167	4.167	0.000	94	581430	50.0	52.1	
* 26 t-Butyl alcohol-d10 (IS)	65	4.343	4.343	0.000	96	390698	250.0	250.0	
27 Methylene Chloride	84	4.362	4.362	0.000	93	369720	50.0	49.3	
28 2-Methyl-2-propanol	59	4.477	4.477	0.000	99	551476	250.0	261.0	
30 Acrylonitrile	53	4.678	4.678	0.000	99	295912	50.0	51.4	
31 Methyl tert-butyl ether	73	4.775	4.775	0.000	95	1188208	50.0	51.7	
32 trans-1,2-Dichloroethene	96	4.794	4.794	0.000	99	354795	50.0	50.5	
33 Hexane	57	5.213	5.213	0.000	92	596571	50.0	53.9	
36 1,1-Dichloroethane	63	5.438	5.438	0.000	96	653161	50.0	50.4	
37 Isopropyl ether	45	5.493	5.493	0.000	94	1261425	50.0	52.2	
38 2-Chloro-1,3-butadiene	53	5.548	5.548	0.000	90	565979	50.0	53.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	6.028	6.028	0.000	98	1170641	50.0	52.6	
41 2-Butanone (MEK)	43	6.223	6.223	0.000	100	801701	100.0	103.2	
42 cis-1,2-Dichloroethene	96	6.266	6.266	0.000	82	402618	50.0	50.4	
44 2,2-Dichloropropane	77	6.284	6.284	0.000	89	494182	50.0	51.8	
45 Propionitrile	54	6.296	6.296	0.000	99	596390	250.0	249.1	
46 Methacrylonitrile	67	6.521	6.521	0.000	92	720629	125.0	129.3	
47 Chlorobromomethane	128	6.600	6.600	0.000	96	208833	50.0	52.4	
48 Tetrahydrofuran	71	6.619	6.619	0.000	93	219701	100.0	100.1	
49 Chloroform	83	6.740	6.740	0.000	93	617781	50.0	50.8	
$ 50 Dibromofluoromethane (Surr)	113	6.959	6.959	0.000	94	279306	50.0	50.2	
51 1,1,1-Trichloroethane	97	6.978	6.978	0.000	99	513591	50.0	50.9	
52 Cyclohexane	56	7.093	7.093	0.000	90	698591	50.0	53.4	
53 1,1-Dichloropropene	75	7.197	7.197	0.000	98	524933	50.0	51.8	
54 Carbon tetrachloride	117	7.197	7.197	0.000	97	437125	50.0	52.2	
55 Isobutyl alcohol	41	7.306	7.306	0.000	96	459671	625.0	655.9	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.422	7.422	0.000	98	76694	50.0	50.2	
57 Benzene	78	7.458	7.458	0.000	96	1577265	50.0	50.2	
59 1,2-Dichloroethane	62	7.525	7.525	0.000	97	510142	50.0	49.7	
60 Tert-amyl methyl ether	73	7.641	7.641	0.000	98	1156023	50.0	52.9	
* 62 Fluorobenzene (IS)	96	7.860	7.860	0.000	99	1236687	50.0	50.0	
63 n-Heptane	43	7.872	7.872	0.000	93	666191	50.0	52.5	
64 n-Butanol	56	8.182	8.182	0.000	88	835300	1250.0	1345.9	
65 Trichloroethene	95	8.340	8.340	0.000	99	391925	50.0	51.0	
66 Methylcyclohexane	83	8.657	8.657	0.000	97	736788	50.0	54.8	
67 1,2-Dichloropropane	63	8.669	8.669	0.000	71	418875	50.0	51.6	
34 2-ethoxy-2-methyl butane	87	8.675	8.675	0.000	94	578656	50.0	53.0	
68 Methyl methacrylate	69	8.736	8.736	0.000	91	442675	50.0	54.0	
69 1,4-Dioxane	88	8.754	8.754	0.000	91	89794	625.0	671.3	M
70 Dibromomethane	93	8.784	8.784	0.000	97	253622	50.0	50.9	
72 Dichlorobromomethane	83	9.009	9.009	0.000	100	473007	50.0	52.7	
73 2-Nitropropane	41	9.253	9.253	0.000	97	355882	100.0	104.0	
74 2-Chloroethyl vinyl ether	63	9.356	9.356	0.000	91	350593	50.0	55.6	
75 cis-1,3-Dichloropropene	75	9.545	9.545	0.000	96	664131	50.0	53.4	
76 4-Methyl-2-pentanone (MIBK)	43	9.697	9.697	0.000	96	1559111	100.0	109.3	
$ 77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	93	1221242	50.0	50.0	
78 Toluene	92	9.928	9.928	0.000	98	989811	50.0	50.5	
80 trans-1,3-Dichloropropene	75	10.171	10.171	0.000	92	614061	50.0	53.7	
81 Ethyl methacrylate	69	10.226	10.226	0.000	90	711339	50.0	56.1	
82 1,1,2-Trichloroethane	97	10.378	10.378	0.000	90	387230	50.0	51.5	
83 Tetrachloroethene	166	10.476	10.476	0.000	97	488589	50.0	52.5	
84 1,3-Dichloropropane	76	10.536	10.536	0.000	91	679043	50.0	51.4	
86 2-Hexanone	43	10.573	10.573	0.000	96	1259274	100.0	111.2	
88 Chlorodibromomethane	129	10.755	10.755	0.000	90	395627	50.0	53.7	
89 Ethylene Dibromide	107	10.871	10.871	0.000	98	424079	50.0	52.4	
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	87	901388	50.0	50.0	
92 1-Chlorohexane	91	11.297	11.297	0.000	97	547359	50.0	51.8	
93 Chlorobenzene	112	11.321	11.321	0.000	95	1102173	50.0	50.5	
94 1,1,1,2-Tetrachloroethane	131	11.400	11.400	0.000	97	366359	50.0	52.6	
95 Ethylbenzene	91	11.406	11.406	0.000	98	1903758	50.0	52.2	
96 m-Xylene & p-Xylene	106	11.522	11.522	0.000	100	1500680	100.0	105.1	
97 o-Xylene	106	11.844	11.844	0.000	96	727624	50.0	52.6	
98 Styrene	104	11.863	11.863	0.000	95	1238906	50.0	54.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 Bromoform	173	12.027	12.027	0.000	97	307903	50.0	55.8	
100 Isopropylbenzene	105	12.142	12.142	0.000	96	1882519	50.0	53.3	
102 Cyclohexanone	55	12.215	12.215	0.000	91	429112	625.0	696.1	
$ 103 4-Bromofluorobenzene (Surr)	95	12.295	12.295	0.000	90	452437	50.0	49.4	
104 1,1,2,2-Tetrachloroethane	83	12.380	12.380	0.000	93	678786	50.0	52.2	
106 trans-1,4-Dichloro-2-butene	53	12.404	12.404	0.000	82	593997	125.0	134.1	
105 Bromobenzene	156	12.410	12.410	0.000	91	479583	50.0	51.5	
107 1,2,3-Trichloropropane	110	12.435	12.435	0.000	83	207755	50.0	51.3	
108 N-Propylbenzene	91	12.471	12.471	0.000	99	2257212	50.0	52.2	
109 2-Chlorotoluene	126	12.550	12.550	0.000	97	459461	50.0	51.3	
110 1,3,5-Trimethylbenzene	105	12.611	12.611	0.000	94	1637790	50.0	52.7	
111 4-Chlorotoluene	126	12.641	12.641	0.000	97	482415	50.0	51.9	
113 tert-Butylbenzene	134	12.848	12.848	0.000	93	347019	50.0	53.4	
114 Pentachloroethane	167	12.885	12.885	0.000	90	212303	50.0	51.2	
115 1,2,4-Trimethylbenzene	105	12.891	12.891	0.000	97	1707072	50.0	53.4	
116 sec-Butylbenzene	105	13.012	13.012	0.000	94	2126711	50.0	53.6	
117 1,3-Dichlorobenzene	146	13.116	13.116	0.000	97	925150	50.0	51.3	
118 4-Isopropyltoluene	119	13.122	13.122	0.000	97	1824960	50.0	54.2	
* 119 1,4-Dichlorobenzene-d4	152	13.171	13.171	0.000	95	490868	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.189	13.189	0.000	94	946277	50.0	50.9	
120 1,2,3-Trimethylbenzene	105	13.195	13.195	0.000	98	1686053	50.0	52.9	
122 Benzyl chloride	91	13.262	13.262	0.000	98	1428546	50.0	55.9	
123 1,3-Diethylbenzene	119	13.323	13.323	0.000	95	1094557	50.0	54.1	
124 p-Diethylbenzene	119	13.396	13.396	0.000	94	1155096	50.0	54.3	
125 n-Butylbenzene	92	13.414	13.414	0.000	97	950445	50.0	52.9	
126 1,2-Dichlorobenzene	146	13.450	13.450	0.000	98	898969	50.0	50.9	
127 o-diethylbenzene	119	13.463	13.463	0.000	96	903553	50.0	53.2	
129 1,2-Dibromo-3-Chloropropane	75	13.986	13.986	0.000	86	176605	50.0	55.1	
130 1,3,5-Trichlorobenzene	180	14.120	14.120	0.000	98	720406	50.0	51.8	
131 1,2,4-Trichlorobenzene	180	14.546	14.546	0.000	94	681392	50.0	52.6	
132 Hexachlorobutadiene	225	14.625	14.625	0.000	97	312402	50.0	52.2	
133 Naphthalene	128	14.722	14.722	0.000	97	2417681	50.0	55.6	
134 1,2,3-Trichlorobenzene	180	14.868	14.868	0.000	96	659629	50.0	52.3	
135 2-Methylnaphthalene	142	15.513	15.513	0.000	92	1431828	50.0	58.4	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_VCYC_00005	Amount Added:	10.00	Units: uL	
MSV_V_EE_00003	Amount Added:	5.00	Units: uL	
MSV_DCFM_00022	Amount Added:	2.50	Units: uL	
MSV_V_2CEVE_00106	Amount Added:	5.00	Units: uL	
MSV_V_VOA1_00094	Amount Added:	5.00	Units: uL	
MSV_V_VOA3_00047	Amount Added:	2.00	Units: uL	
MSV_V_VOA6_00053	Amount Added:	5.00	Units: uL	
MSV_V_Gas_00146	Amount Added:	2.50	Units: uL	
MSV_HP20_ISSS_00025	Amount Added:	1.00	Units: uL	Run Reagent

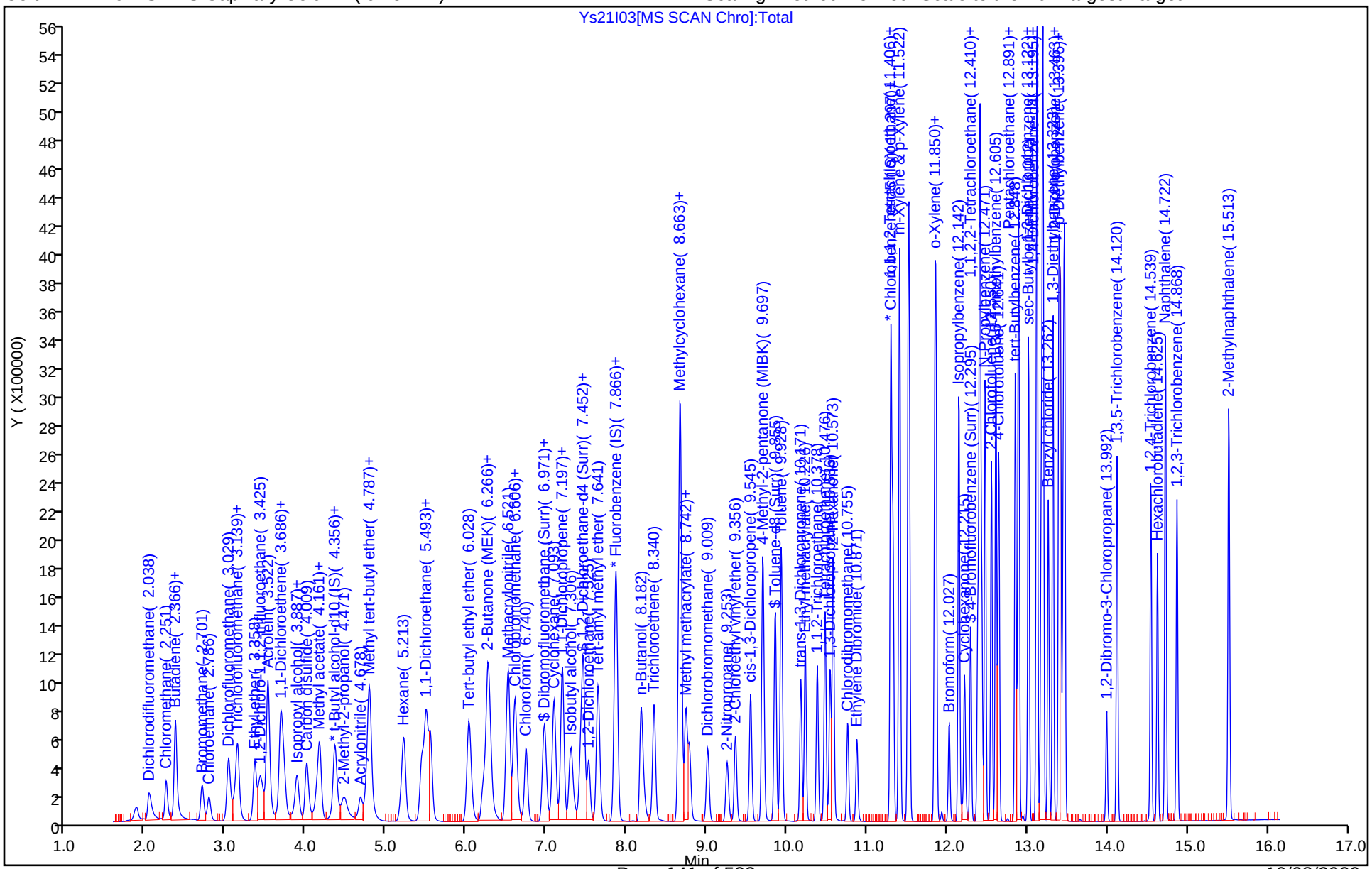
Report Date: 21-Sep-2020 18:08:16 Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I03.D

Injection Date:	21-Sep-2020 14:48:30	Instrument ID:	9355	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_9355	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

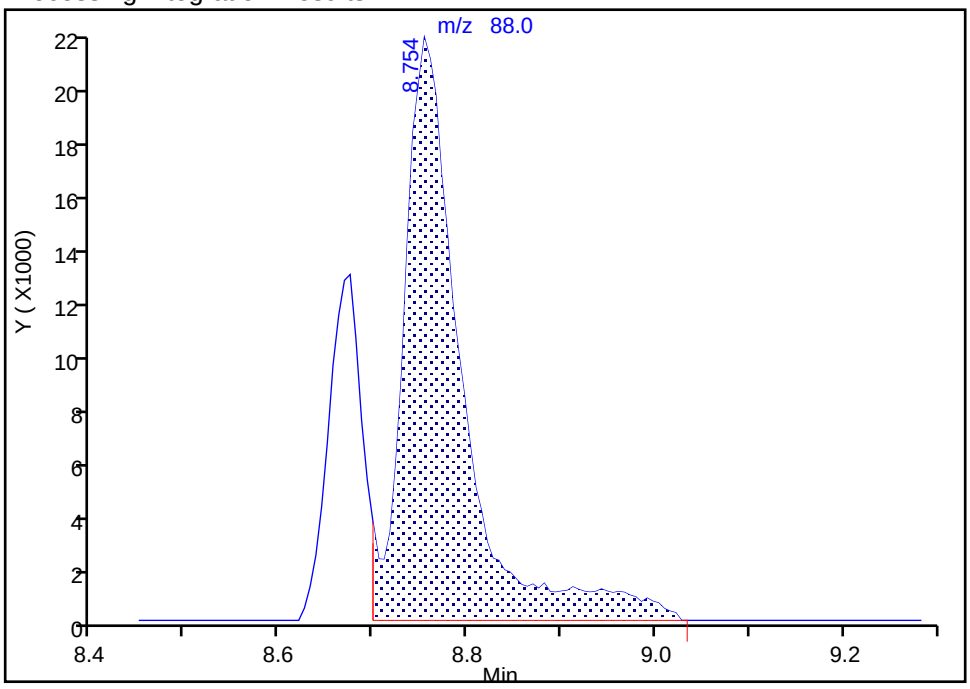
Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I03.D
Injection Date: 21-Sep-2020 14:48:30 Instrument ID: 9355
Lims ID: ICIS
Client ID:
Operator ID: kas02648 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

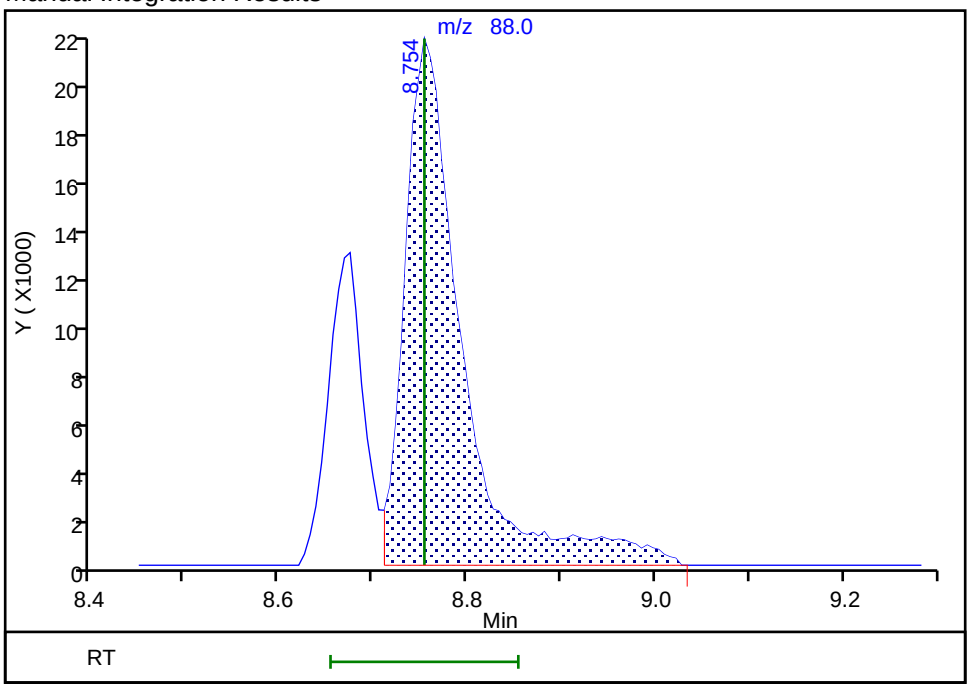
Processing Integration Results

RT: 8.75
Area: 91913
Amount: 684.3740
Amount Units: ug/l



Manual Integration Results

RT: 8.75
Area: 89794
Amount: 671.2535
Amount Units: ug/l



Reviewer: campbellme, 21-Sep-2020 16:28:19
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I04.D
Lims ID: IC std4 20
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 21-Sep-2020 15:10:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0010935-006
Misc. Info.: IC STD4 20
Operator ID: kas02648 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub2

Method: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 21-Sep-2020 18:08:27 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1029

First Level Reviewer: campbellme Date: 21-Sep-2020 16:30:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.044	2.044	0.000	99	160331	20.0	19.4	
4 Chloromethane	50	2.257	2.257	0.000	99	167351	20.0	19.5	
5 Butadiene	39	2.366	2.366	0.000	91	119708	20.0	19.8	
6 Vinyl chloride	62	2.378	2.378	0.000	98	157364	20.0	19.7	
8 Bromomethane	94	2.701	2.701	0.000	89	113648	20.0	20.4	
9 Chloroethane	64	2.792	2.792	0.000	100	99150	20.0	20.1	
10 Dichlorofluoromethane	67	3.029	3.029	0.000	97	224811	20.0	20.2	
11 Trichlorofluoromethane	101	3.121	3.121	0.000	98	193221	20.0	19.5	M
12 Pentane	43	3.151	3.151	0.000	97	199789	20.0	20.5	
14 Ethyl ether	59	3.364	3.364	0.000	91	149303	20.0	20.2	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.431	3.431	0.000	94	165381	20.0	20.5	
16 Acrolein	56	3.528	3.528	0.000	100	665218	200.4	214.2	
17 1,1-Dichloroethene	96	3.680	3.680	0.000	98	120415	20.0	20.6	
18 Acetone	58	3.692	3.692	0.000	100	68443	40.0	42.5	
19 112TCTFE	101	3.723	3.723	0.000	93	124363	20.0	20.6	
20 Isopropyl alcohol	45	3.863	3.863	0.000	100	229246	200.0	198.3	
21 Iodomethane	142	3.893	3.893	0.000	97	215846	20.0	20.5	
22 Carbon disulfide	76	4.009	4.009	0.000	99	419442	20.0	20.4	
24 Methyl acetate	43	4.137	4.137	0.000	98	207527	20.0	19.9	
25 3-Chloro-1-propene	41	4.173	4.173	0.000	94	223781	20.0	20.3	
* 26 t-Butyl alcohol-d10 (IS)	65	4.356	4.356	0.000	97	379549	250.0	250.0	
27 Methylene Chloride	84	4.368	4.368	0.000	93	149641	20.0	20.2	
28 2-Methyl-2-propanol	59	4.477	4.477	0.000	99	411431	200.0	200.4	
30 Acrylonitrile	53	4.684	4.684	0.000	100	120634	20.0	21.2	
31 Methyl tert-butyl ether	73	4.781	4.781	0.000	95	467846	20.0	20.6	
32 trans-1,2-Dichloroethene	96	4.800	4.800	0.000	99	141817	20.0	20.5	
33 Hexane	57	5.219	5.219	0.000	92	231063	20.0	21.1	
36 1,1-Dichloroethane	63	5.444	5.444	0.000	96	263028	20.0	20.6	
37 Isopropyl ether	45	5.499	5.499	0.000	95	498606	20.0	20.9	
38 2-Chloro-1,3-butadiene	53	5.554	5.554	0.000	90	219195	20.0	21.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	6.035	6.035	0.000	98	460384	20.0	21.0	
S 40 1,2-Dichloroethene, Total	100				0			41.1	
41 2-Butanone (MEK)	43	6.229	6.229	0.000	100	320888	40.0	41.9	
42 cis-1,2-Dichloroethene	96	6.266	6.266	0.000	82	163013	20.0	20.7	
44 2,2-Dichloropropane	77	6.284	6.284	0.000	91	194711	20.0	20.7	
45 Propionitrile	54	6.296	6.296	0.000	100	470188	200.0	202.2	
46 Methacrylonitrile	67	6.521	6.521	0.000	92	572519	100.0	104.1	
47 Chlorobromomethane	128	6.600	6.600	0.000	96	80022	20.0	20.3	
48 Tetrahydrofuran	71	6.619	6.619	0.000	90	87891	40.0	41.2	
49 Chloroform	83	6.746	6.746	0.000	93	245951	20.0	20.5	
$ 50 Dibromofluoromethane (Surr)	113	6.959	6.959	0.000	94	273195	50.0	49.8	
51 1,1,1-Trichloroethane	97	6.984	6.984	0.000	98	202560	20.0	20.3	
52 Cyclohexane	56	7.093	7.093	0.000	90	272325	20.0	21.1	
53 1,1-Dichloropropene	75	7.197	7.197	0.000	97	210325	20.0	21.0	
54 Carbon tetrachloride	117	7.203	7.203	0.000	96	169902	20.0	20.6	
55 Isobutyl alcohol	41	7.306	7.306	0.000	95	339385	500.0	498.5	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.422	7.422	0.000	98	75896	50.0	50.3	
57 Benzene	78	7.458	7.458	0.000	96	632101	20.0	20.4	
59 1,2-Dichloroethane	62	7.525	7.525	0.000	97	203835	20.0	20.1	
60 Tert-amyl methyl ether	73	7.647	7.647	0.000	98	454614	20.0	21.1	
* 62 Fluorobenzene (IS)	96	7.860	7.860	0.000	99	1220702	50.0	50.0	
63 n-Heptane	43	7.878	7.878	0.000	92	259083	20.0	20.7	
64 n-Butanol	56	8.182	8.182	0.000	89	618334	1000.0	1025.6	
65 Trichloroethene	95	8.340	8.340	0.000	99	155041	20.0	20.4	
66 Methylcyclohexane	83	8.657	8.657	0.000	97	283474	20.0	21.4	
67 1,2-Dichloropropane	63	8.669	8.669	0.000	71	167063	20.0	20.9	
34 2-ethoxy-2-methyl butane	87	8.675	8.675	0.000	94	227369	20.0	21.1	
68 Methyl methacrylate	69	8.736	8.736	0.000	92	167800	20.0	20.8	
69 1,4-Dioxane	88	8.754	8.754	0.000	94	68071	500.0	523.8	M
70 Dibromomethane	93	8.784	8.784	0.000	97	100721	20.0	20.5	
72 Dichlorobromomethane	83	9.009	9.009	0.000	100	181143	20.0	20.4	
73 2-Nitropropane	41	9.253	9.253	0.000	98	140913	40.0	42.4	
74 2-Chloroethyl vinyl ether	63	9.356	9.356	0.000	91	133079	20.0	21.4	
75 cis-1,3-Dichloropropene	75	9.545	9.545	0.000	96	257357	20.0	21.0	
76 4-Methyl-2-pentanone (MIBK)	43	9.697	9.697	0.000	96	622840	40.0	44.2	
$ 77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	94	1202459	50.0	49.4	
78 Toluene	92	9.928	9.928	0.000	98	396678	20.0	20.3	
S 79 1,3-Dichloropropene, Total	100				0			41.7	
80 trans-1,3-Dichloropropene	75	10.171	10.171	0.000	92	235951	20.0	20.7	
81 Ethyl methacrylate	69	10.232	10.232	0.000	90	268605	20.0	21.3	
82 1,1,2-Trichloroethane	97	10.378	10.378	0.000	90	152127	20.0	20.3	
83 Tetrachloroethene	166	10.476	10.476	0.000	97	187061	20.0	20.2	
84 1,3-Dichloropropane	76	10.536	10.536	0.000	90	271681	20.0	20.6	
86 2-Hexanone	43	10.579	10.579	0.000	95	492316	40.0	43.7	
88 Chlorodibromomethane	129	10.762	10.762	0.000	90	150207	20.0	20.5	
89 Ethylene Dibromide	107	10.871	10.871	0.000	99	164693	20.0	20.5	
S 90 Xylenes, Total	106				0			63.4	
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	87	897525	50.0	50.0	
92 1-Chlorohexane	91	11.297	11.297	0.000	98	213580	20.0	20.3	
93 Chlorobenzene	112	11.321	11.321	0.000	96	442946	20.0	20.4	
94 1,1,1,2-Tetrachloroethane	131	11.400	11.400	0.000	96	142692	20.0	20.6	
95 Ethylbenzene	91	11.406	11.406	0.000	98	759572	20.0	20.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
96 m-Xylene & p-Xylene	106	11.522	11.522	0.000	100	599144	40.0	42.1	
97 o-Xylene	106	11.844	11.844	0.000	96	292724	20.0	21.3	
98 Styrene	104	11.863	11.863	0.000	95	482706	20.0	21.4	
99 Bromoform	173	12.027	12.027	0.000	97	111608	20.0	20.3	
100 Isopropylbenzene	105	12.143	12.143	0.000	96	752800	20.0	21.4	
102 Cyclohexanone	55	12.216	12.216	0.000	91	319693	500.0	533.8	
$ 103 4-Bromofluorobenzene (Surr)	95	12.295	12.295	0.000	90	448059	50.0	49.1	
104 1,1,2,2-Tetrachloroethane	83	12.380	12.380	0.000	93	265291	20.0	20.6	
106 trans-1,4-Dichloro-2-butene	53	12.404	12.404	0.000	90	458012	100.0	104.2	
105 Bromobenzene	156	12.410	12.410	0.000	72	191563	20.0	20.7	
107 1,2,3-Trichloropropane	110	12.428	12.428	0.000	81	80660	20.0	20.1	
108 N-Propylbenzene	91	12.471	12.471	0.000	99	907607	20.0	21.2	
109 2-Chlorotoluene	126	12.550	12.550	0.000	97	184322	20.0	20.7	
110 1,3,5-Trimethylbenzene	105	12.605	12.605	0.000	94	659883	20.0	21.4	
111 4-Chlorotoluene	126	12.641	12.641	0.000	97	193000	20.0	20.9	
113 tert-Butylbenzene	134	12.848	12.848	0.000	93	136501	20.0	21.2	
114 Pentachloroethane	167	12.885	12.885	0.000	84	87585	20.0	21.3	
115 1,2,4-Trimethylbenzene	105	12.891	12.891	0.000	97	681735	20.0	21.5	
116 sec-Butylbenzene	105	13.012	13.012	0.000	96	853050	20.0	21.7	
117 1,3-Dichlorobenzene	146	13.116	13.116	0.000	97	371225	20.0	20.8	
118 4-Isopropyltoluene	119	13.122	13.122	0.000	97	730779	20.0	21.9	
* 119 1,4-Dichlorobenzene-d4	152	13.171	13.171	0.000	95	487027	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.189	13.189	0.000	94	384061	20.0	20.8	
120 1,2,3-Trimethylbenzene	105	13.195	13.195	0.000	98	666830	20.0	21.1	
122 Benzyl chloride	91	13.262	13.262	0.000	98	539113	20.0	21.2	
123 1,3-Diethylbenzene	119	13.323	13.323	0.000	95	430945	20.0	21.5	
124 p-Diethylbenzene	119	13.396	13.396	0.000	94	457223	20.0	21.7	
125 n-Butylbenzene	92	13.414	13.414	0.000	96	379050	20.0	21.3	
126 1,2-Dichlorobenzene	146	13.450	13.450	0.000	98	362710	20.0	20.7	
127 o-diethylbenzene	119	13.463	13.463	0.000	95	358370	20.0	21.3	
129 1,2-Dibromo-3-Chloropropane	75	13.986	13.986	0.000	86	66152	20.0	20.8	
130 1,3,5-Trichlorobenzene	180	14.120	14.120	0.000	98	289970	20.0	21.0	
131 1,2,4-Trichlorobenzene	180	14.546	14.546	0.000	94	268731	20.0	20.9	
132 Hexachlorobutadiene	225	14.625	14.625	0.000	97	126602	20.0	21.3	
133 Naphthalene	128	14.722	14.722	0.000	97	954779	20.0	22.1	
134 1,2,3-Trichlorobenzene	180	14.868	14.868	0.000	96	262663	20.0	21.0	
135 2-Methylnaphthalene	142	15.513	15.513	0.000	92	543926	20.0	22.3	
S 146 Total Diethylbenzene	1				0			64.4	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_VCYC_00005	Amount Added:	16.00	Units: uL	
MSV_V_EE_00003	Amount Added:	4.00	Units: uL	
MSV_DCFM_00022	Amount Added:	2.00	Units: uL	
MSV_V_2CEVE_00106	Amount Added:	4.00	Units: uL	
MSV_V_VOA1_00094	Amount Added:	4.00	Units: uL	
MSV_V_VOA3_00047	Amount Added:	1.60	Units: uL	
MSV_V_VOA6_00053	Amount Added:	4.00	Units: uL	
MSV_V_VOA2_00050	Amount Added:	4.00	Units: uL	
MSV_V_Gas_00146	Amount Added:	2.00	Units: uL	
MSV_HP20_ISSS_00025	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 21-Sep-2020 18:08:29 Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I04.D

Injection Date: 21-Sep-2020 15:10:30 Instrument ID: 9355 Operator ID: kas02648

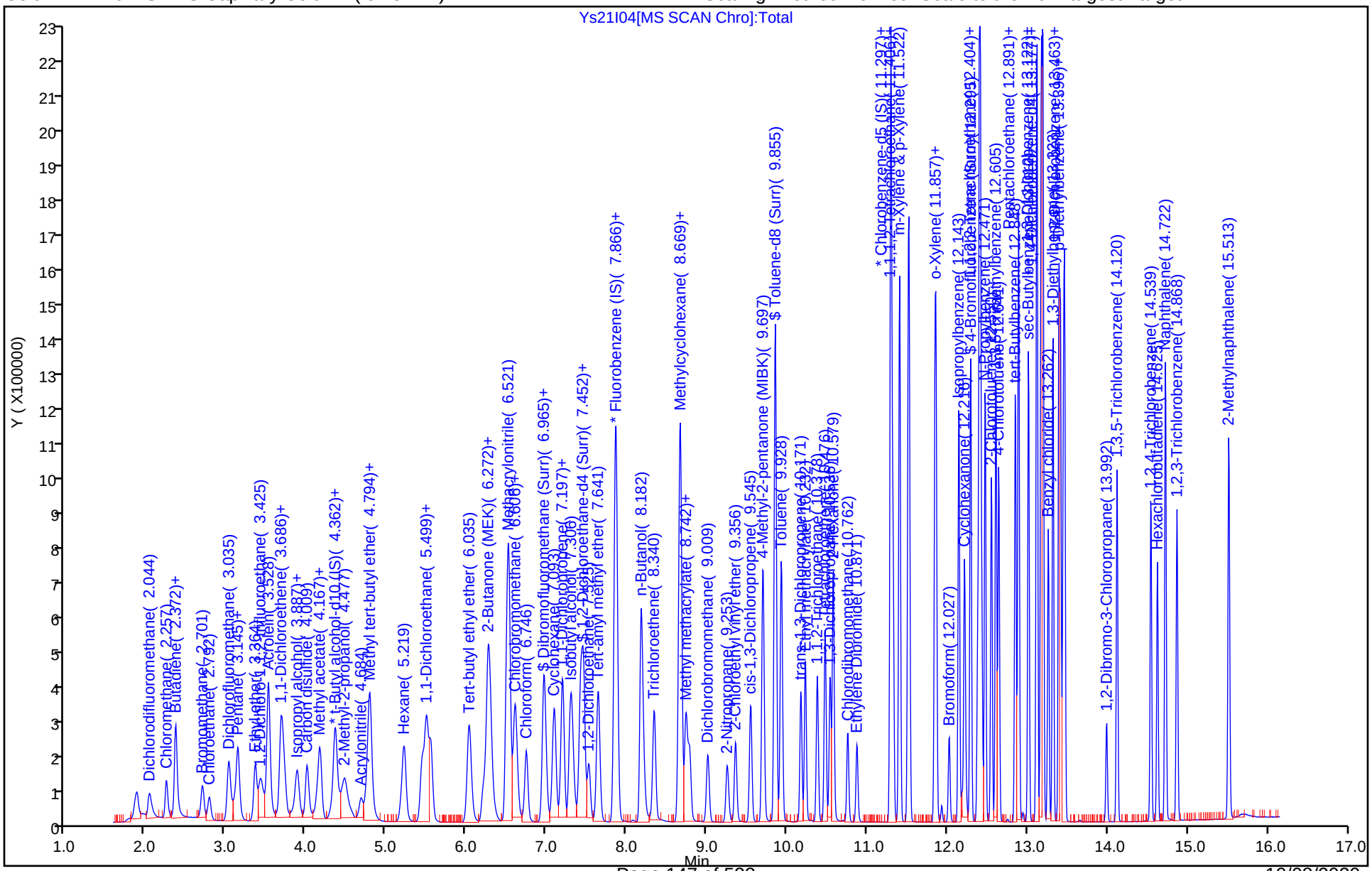
Lims ID: IC std4 20 Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 6

Method: MSVoa_9355 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

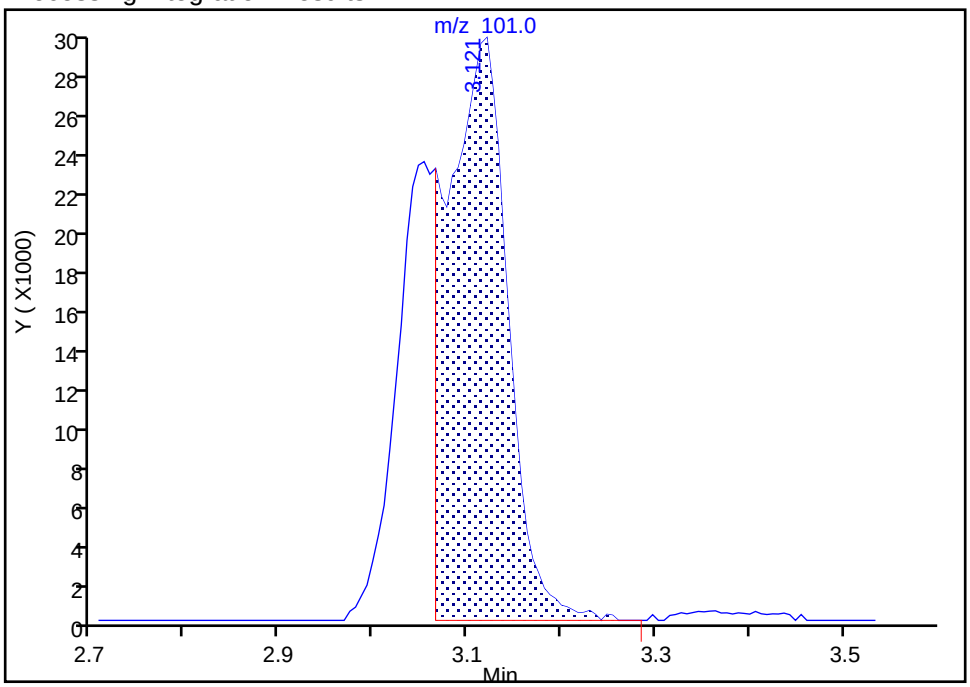
Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I04.D
Injection Date: 21-Sep-2020 15:10:30 Instrument ID: 9355
Lims ID: IC std4 20
Client ID:
Operator ID: kas02648 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

11 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

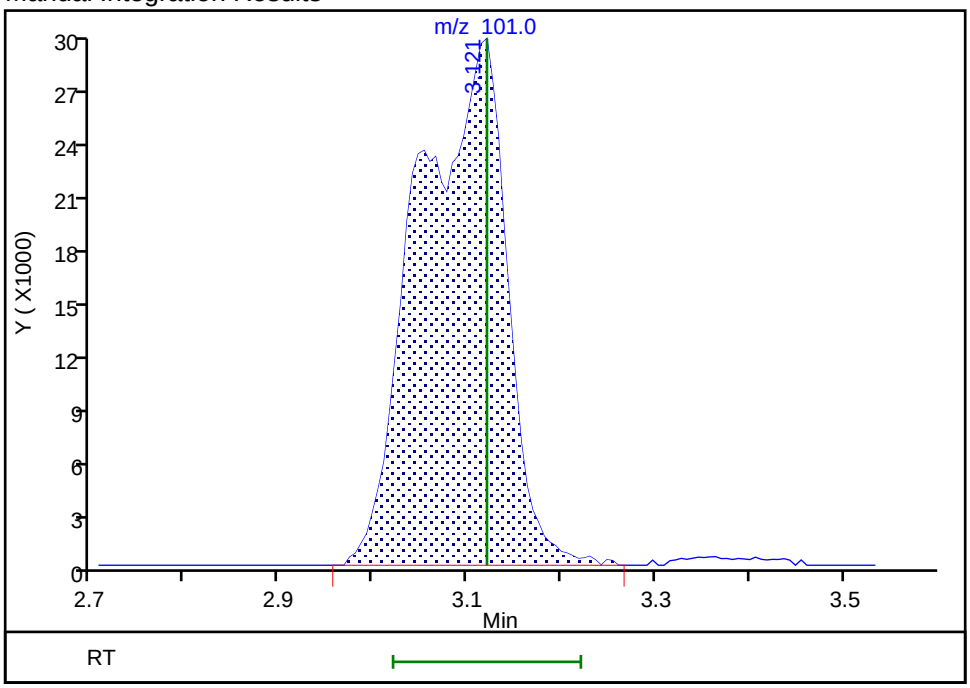
Processing Integration Results

RT: 3.12
Area: 133806
Amount: 16.085106
Amount Units: ug/l



Manual Integration Results

RT: 3.12
Area: 193221
Amount: 19.512285
Amount Units: ug/l



Reviewer: campbellme, 21-Sep-2020 16:29:10
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

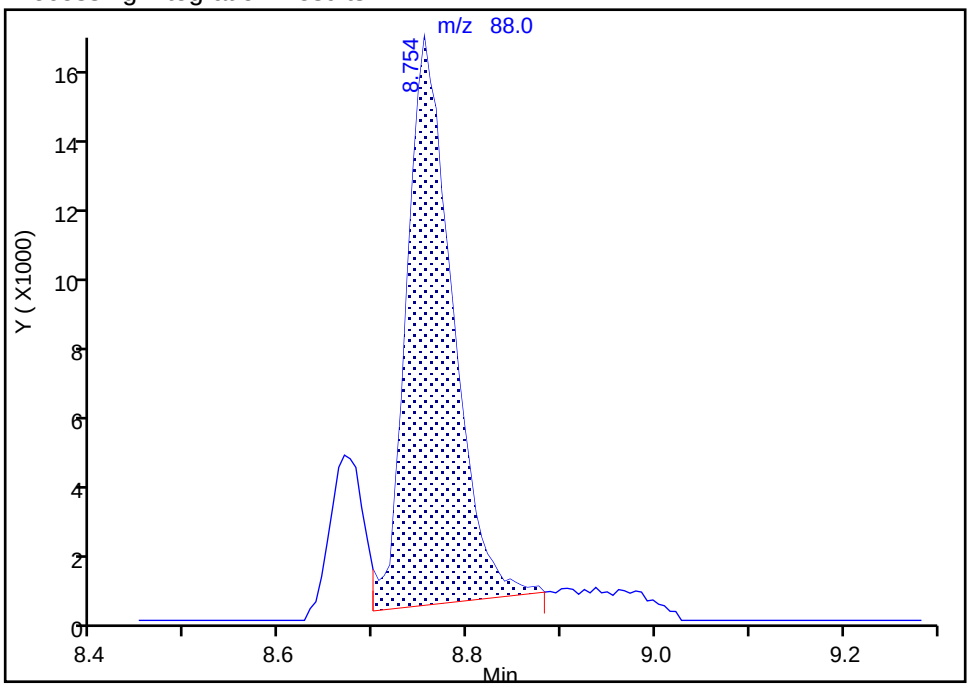
Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I04.D
Injection Date: 21-Sep-2020 15:10:30 Instrument ID: 9355
Lims ID: IC std4 20
Client ID:
Operator ID: kas02648 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

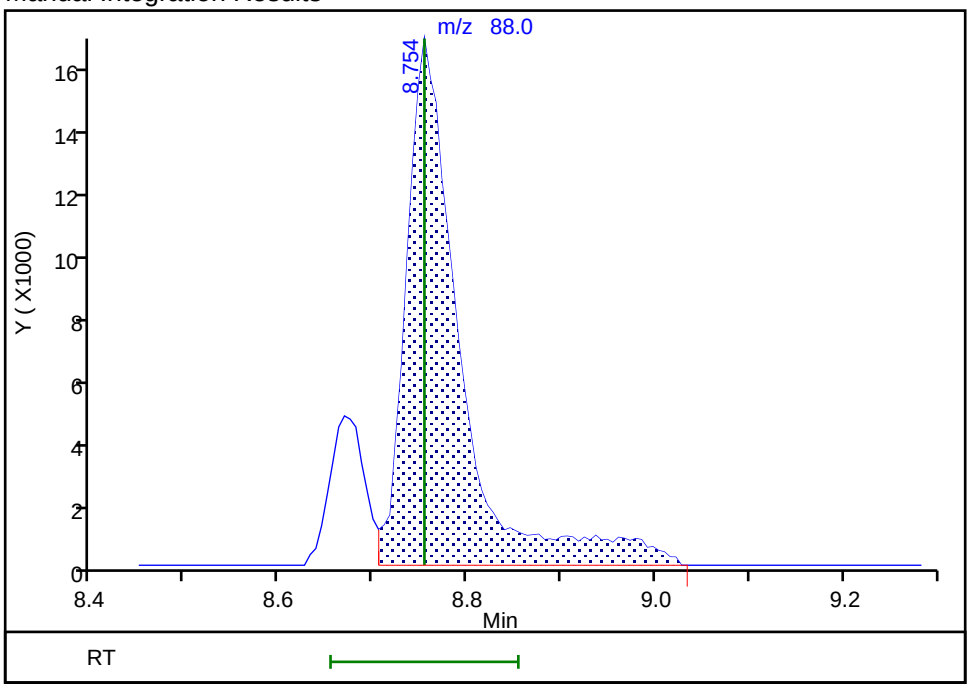
Processing Integration Results

RT: 8.75
Area: 56193
Amount: 432.5170
Amount Units: ug/l



Manual Integration Results

RT: 8.75
Area: 68071
Amount: 523.8111
Amount Units: ug/l



Reviewer: campbellme, 21-Sep-2020 16:29:38
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I05.D
Lims ID: IC std3 10
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 21-Sep-2020 15:32:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0010935-007
Misc. Info.: IC STD3 10
Operator ID: kas02648 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub2

Method: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 21-Sep-2020 18:08:40 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1029

First Level Reviewer: campbellme Date: 21-Sep-2020 16:32:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.044	2.044	0.000	99	84757	10.0	10.2	
4 Chloromethane	50	2.257	2.257	0.000	99	93002	10.0	10.7	
5 Butadiene	39	2.366	2.366	0.000	92	55600	10.0	9.13	
6 Vinyl chloride	62	2.378	2.378	0.000	98	84678	10.0	10.5	M
8 Bromomethane	94	2.701	2.701	0.000	91	61068	10.0	10.9	
9 Chloroethane	64	2.792	2.792	0.000	100	53986	10.0	10.9	
10 Dichlorofluoromethane	67	3.029	3.029	0.000	97	123086	10.0	11.0	
11 Trichlorofluoromethane	101	3.114	3.121	-0.007	98	102811	10.0	10.3	M
12 Pentane	43	3.145	3.151	-0.006	96	84823	10.0	8.63	
14 Ethyl ether	59	3.364	3.364	0.000	92	73378	10.0	9.85	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.425	3.431	-0.006	93	79901	10.0	9.81	
16 Acrolein	56	3.528	3.528	0.000	100	344988	100.2	111.9	
17 1,1-Dichloroethene	96	3.680	3.680	0.000	98	58695	10.0	9.98	
18 Acetone	58	3.692	3.692	0.000	99	35265	20.0	22.1	
19 112TCTFE	101	3.717	3.723	-0.006	92	56207	10.0	9.26	
20 Isopropyl alcohol	45	3.869	3.863	0.006	99	109505	100.0	95.4	
21 Iodomethane	142	3.887	3.893	-0.006	97	105603	10.0	9.96	
22 Carbon disulfide	76	4.009	4.009	0.000	99	201411	10.0	9.71	
24 Methyl acetate	43	4.136	4.137	-0.001	98	105217	10.0	10.0	
25 3-Chloro-1-propene	41	4.173	4.173	0.000	94	106333	10.0	9.58	
* 26 t-Butyl alcohol-d10 (IS)	65	4.355	4.356	-0.001	86	376801	250.0	250.0	
27 Methylene Chloride	84	4.361	4.368	-0.007	92	74168	10.0	9.94	
28 2-Methyl-2-propanol	59	4.483	4.477	0.006	98	199824	100.0	98.1	
30 Acrylonitrile	53	4.684	4.684	0.000	99	61244	10.0	10.7	
31 Methyl tert-butyl ether	73	4.775	4.781	-0.006	96	227295	10.0	9.94	
32 trans-1,2-Dichloroethene	96	4.800	4.800	0.000	99	69318	10.0	9.93	
33 Hexane	57	5.219	5.219	0.000	92	93288	10.0	8.47	
36 1,1-Dichloroethane	63	5.444	5.444	0.000	96	127564	10.0	9.90	
37 Isopropyl ether	45	5.499	5.499	0.000	94	239657	10.0	9.97	
38 2-Chloro-1,3-butadiene	53	5.554	5.554	0.000	90	102873	10.0	9.78	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	6.034	6.035	-0.001	97	220707	10.0	9.97	
S 40 1,2-Dichloroethene, Total	100				0			20.0	
41 2-Butanone (MEK)	43	6.223	6.229	-0.006	100	166833	20.0	21.6	
42 cis-1,2-Dichloroethene	96	6.266	6.266	0.000	82	80157	10.0	10.1	
44 2,2-Dichloropropane	77	6.290	6.284	0.006	90	93377	10.0	9.83	
45 Propionitrile	54	6.296	6.296	0.000	99	231969	100.0	100.5	
46 Methacrylonitrile	67	6.521	6.521	0.000	92	277573	50.0	50.1	
47 Chlorobromomethane	128	6.600	6.600	0.000	95	38928	10.0	9.82	
48 Tetrahydrofuran	71	6.625	6.619	0.006	92	44990	20.0	21.3	
49 Chloroform	83	6.746	6.746	0.000	93	119436	10.0	9.88	
$ 50 Dibromofluoromethane (Surr)	113	6.965	6.959	0.006	94	275143	50.0	49.8	
51 1,1,1-Trichloroethane	97	6.984	6.984	0.000	99	96903	10.0	9.65	
52 Cyclohexane	56	7.093	7.093	0.000	90	117085	10.0	9.00	
53 1,1-Dichloropropene	75	7.196	7.197	-0.001	96	97899	10.0	9.71	
54 Carbon tetrachloride	117	7.196	7.203	-0.007	96	79176	10.0	9.51	
55 Isobutyl alcohol	41	7.300	7.306	-0.006	96	165884	250.0	245.4	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.422	7.422	0.000	98	75625	50.0	49.7	
57 Benzene	78	7.458	7.458	0.000	97	310218	10.0	9.93	
59 1,2-Dichloroethane	62	7.525	7.525	0.000	97	99585	10.0	9.75	
60 Tert-amyl methyl ether	73	7.641	7.647	-0.006	98	216627	10.0	9.96	
* 62 Fluorobenzene (IS)	96	7.860	7.860	0.000	98	1230196	50.0	50.0	
63 n-Heptane	43	7.872	7.878	-0.006	93	102969	10.0	8.15	
64 n-Butanol	56	8.182	8.182	0.000	88	299744	500.0	500.8	
65 Trichloroethene	95	8.340	8.340	0.000	99	74480	10.0	9.74	
66 Methylcyclohexane	83	8.656	8.657	-0.001	93	117995	10.0	8.82	
67 1,2-Dichloropropane	63	8.669	8.669	0.000	76	81002	10.0	10.0	
34 2-ethoxy-2-methyl butane	87	8.669	8.675	-0.006	93	108966	10.0	10.0	
68 Methyl methacrylate	69	8.736	8.736	0.000	92	79874	10.0	9.80	
69 1,4-Dioxane	88	8.754	8.754	0.000	92	32965	250.0	255.5	M
70 Dibromomethane	93	8.784	8.784	0.000	97	49343	10.0	9.95	
72 Dichlorobromomethane	83	9.009	9.009	0.000	99	85822	10.0	9.61	
73 2-Nitropropane	41	9.253	9.253	0.000	98	67963	20.0	20.6	
74 2-Chloroethyl vinyl ether	63	9.356	9.356	0.000	92	62241	10.0	9.91	
75 cis-1,3-Dichloropropene	75	9.545	9.545	0.000	96	121689	10.0	9.84	
76 4-Methyl-2-pentanone (MIBK)	43	9.697	9.697	0.000	96	312890	20.0	22.1	
$ 77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	93	1205739	50.0	49.8	
78 Toluene	92	9.928	9.928	0.000	98	191009	10.0	9.84	
S 79 1,3-Dichloropropene, Total	100				0			19.5	
80 trans-1,3-Dichloropropene	75	10.171	10.171	0.000	92	109996	10.0	9.71	
81 Ethyl methacrylate	69	10.232	10.232	0.000	89	122874	10.0	9.77	
82 1,1,2-Trichloroethane	97	10.378	10.378	0.000	90	73851	10.0	9.91	
83 Tetrachloroethene	166	10.475	10.476	-0.001	97	88652	10.0	9.62	
84 1,3-Dichloropropane	76	10.536	10.536	0.000	90	130080	10.0	9.92	
86 2-Hexanone	43	10.579	10.579	0.000	96	246169	20.0	21.9	
88 Chlorodibromomethane	129	10.755	10.762	-0.007	90	69438	10.0	9.51	
89 Ethylene Dibromide	107	10.871	10.871	0.000	98	78744	10.0	9.82	
S 90 Xylenes, Total	106				0			30.2	
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	87	893817	50.0	50.0	
92 1-Chlorohexane	91	11.297	11.297	0.000	97	94831	10.0	9.05	
93 Chlorobenzene	112	11.321	11.321	0.000	95	215395	10.0	9.95	
94 1,1,1,2-Tetrachloroethane	131	11.406	11.400	0.006	96	68933	10.0	9.98	
95 Ethylbenzene	91	11.406	11.406	0.000	98	356947	10.0	9.87	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
96 m-Xylene & p-Xylene	106	11.522	11.522	0.000	100	284736	20.0	20.1	
97 o-Xylene	106	11.844	11.844	0.000	96	137624	10.0	10.0	
98 Styrene	104	11.863	11.863	0.000	95	224901	10.0	10.0	
99 Bromoform	173	12.027	12.027	0.000	97	50108	10.0	9.16	
100 Isopropylbenzene	105	12.142	12.143	0.000	95	345051	10.0	9.86	
102 Cyclohexanone	55	12.215	12.216	-0.001	91	150352	250.0	252.9	
$ 103 4-Bromofluorobenzene (Surr)	95	12.288	12.295	-0.007	89	453590	50.0	49.9	
104 1,1,2,2-Tetrachloroethane	83	12.380	12.380	0.000	93	131522	10.0	10.1	
106 trans-1,4-Dichloro-2-butene	53	12.404	12.404	0.000	90	220629	50.0	50.0	
105 Bromobenzene	156	12.410	12.410	0.000	72	93751	10.0	10.1	
107 1,2,3-Trichloropropane	110	12.428	12.428	0.000	81	40529	10.0	10.0	
108 N-Propylbenzene	91	12.471	12.471	0.000	99	421938	10.0	9.80	
109 2-Chlorotoluene	126	12.550	12.550	0.000	97	86860	10.0	9.73	
110 1,3,5-Trimethylbenzene	105	12.605	12.605	0.000	94	306013	10.0	9.88	
111 4-Chlorotoluene	126	12.641	12.641	0.000	97	91927	10.0	9.92	
113 tert-Butylbenzene	134	12.848	12.848	0.000	94	62050	10.0	9.58	
114 Pentachloroethane	167	12.885	12.885	0.000	89	40076	10.0	9.70	
115 1,2,4-Trimethylbenzene	105	12.891	12.891	0.000	97	318745	10.0	10.0	
116 sec-Butylbenzene	105	13.012	13.012	0.000	94	378760	10.0	9.58	
117 1,3-Dichlorobenzene	146	13.116	13.116	0.000	97	180796	10.0	10.1	
118 4-Isopropyltoluene	119	13.122	13.122	0.000	97	325587	10.0	9.71	
* 119 1,4-Dichlorobenzene-d4	152	13.171	13.171	-0.001	96	489158	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.189	13.189	0.000	91	184814	10.0	9.97	
120 1,2,3-Trimethylbenzene	105	13.195	13.195	0.000	98	314791	10.0	9.91	
122 Benzyl chloride	91	13.262	13.262	0.000	98	249368	10.0	9.78	
123 1,3-Diethylbenzene	119	13.323	13.323	0.000	95	197193	10.0	9.77	
124 p-Diethylbenzene	119	13.396	13.396	0.000	95	209487	10.0	9.89	
125 n-Butylbenzene	92	13.414	13.414	0.000	94	169637	10.0	9.48	
126 1,2-Dichlorobenzene	146	13.450	13.450	0.000	98	176976	10.0	10.0	
127 o-diethylbenzene	119	13.463	13.463	0.000	95	168434	10.0	9.96	
129 1,2-Dibromo-3-Chloropropane	75	13.992	13.986	0.006	84	31701	10.0	9.93	
130 1,3,5-Trichlorobenzene	180	14.120	14.120	0.000	98	132019	10.0	9.53	
131 1,2,4-Trichlorobenzene	180	14.545	14.546	-0.001	94	123751	10.0	9.58	
132 Hexachlorobutadiene	225	14.624	14.625	-0.001	97	49237	10.0	8.25	
133 Naphthalene	128	14.722	14.722	0.000	97	448351	10.0	10.3	
134 1,2,3-Trichlorobenzene	180	14.868	14.868	0.000	96	123129	10.0	9.79	
135 2-Methylnaphthalene	142	15.513	15.513	0.000	93	235336	10.0	9.63	
S 146 Total Diethylbenzene	1				0			29.6	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_VCYC_00005	Amount Added:	8.00	Units: uL	
MSV_V_EE_00003	Amount Added:	2.00	Units: uL	
MSV_DCFM_00022	Amount Added:	1.00	Units: uL	
MSV_V_2CEVE_00106	Amount Added:	2.00	Units: uL	
MSV_V_VOA1_00094	Amount Added:	2.00	Units: uL	
MSV_V_VOA3_00047	Amount Added:	0.80	Units: uL	
MSV_V_VOA6_00053	Amount Added:	2.00	Units: uL	
MSV_V_VOA2_00050	Amount Added:	2.00	Units: uL	
MSV_V_Gas_00146	Amount Added:	1.00	Units: uL	
MSV_HP20_ISSS_00025	Amount Added:	1.00	Units: uL	Run Reagent

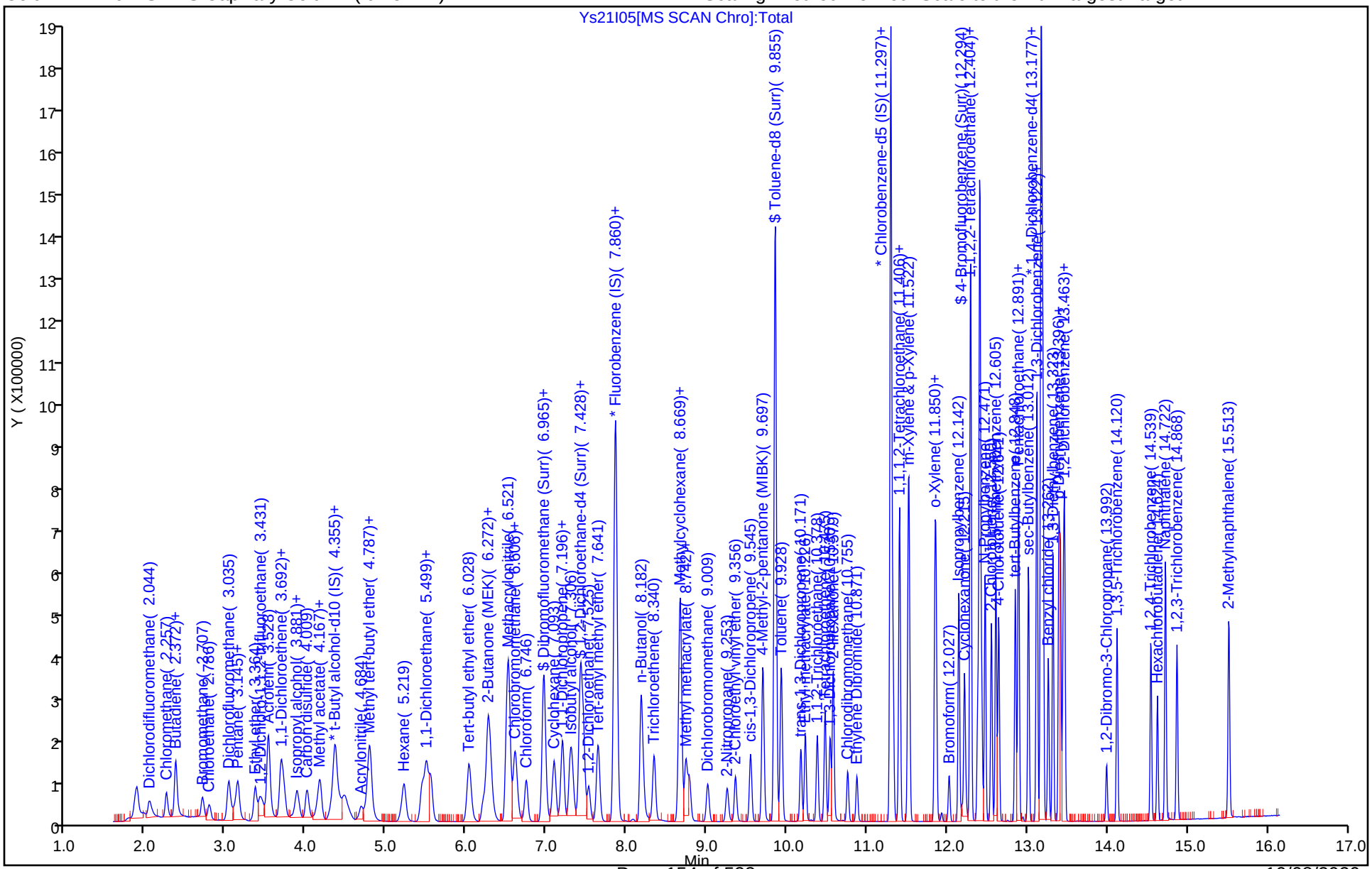
Report Date: 21-Sep-2020 18:08:42 Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I05.D

Injection Date:	21-Sep-2020 15:32:30	Instrument ID:	9355	Operator ID:	kas02648
Lims ID:	IC std3 10			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSVoa_9355	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

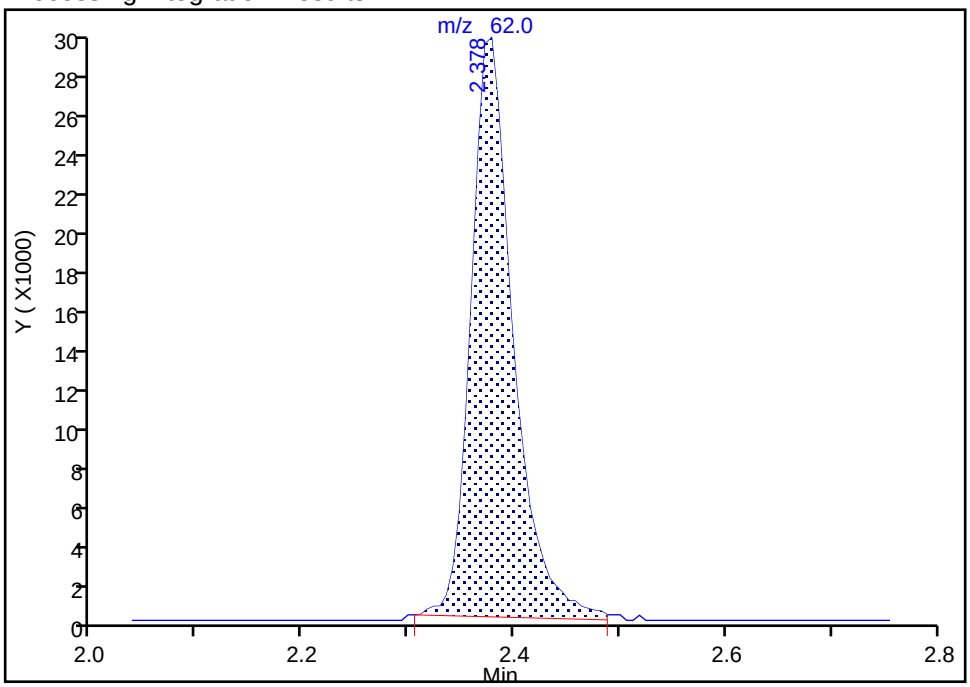
Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I05.D
Injection Date: 21-Sep-2020 15:32:30 Instrument ID: 9355
Lims ID: IC std3 10
Client ID:
Operator ID: kas02648 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

6 Vinyl chloride, CAS: 75-01-4

Signal: 1

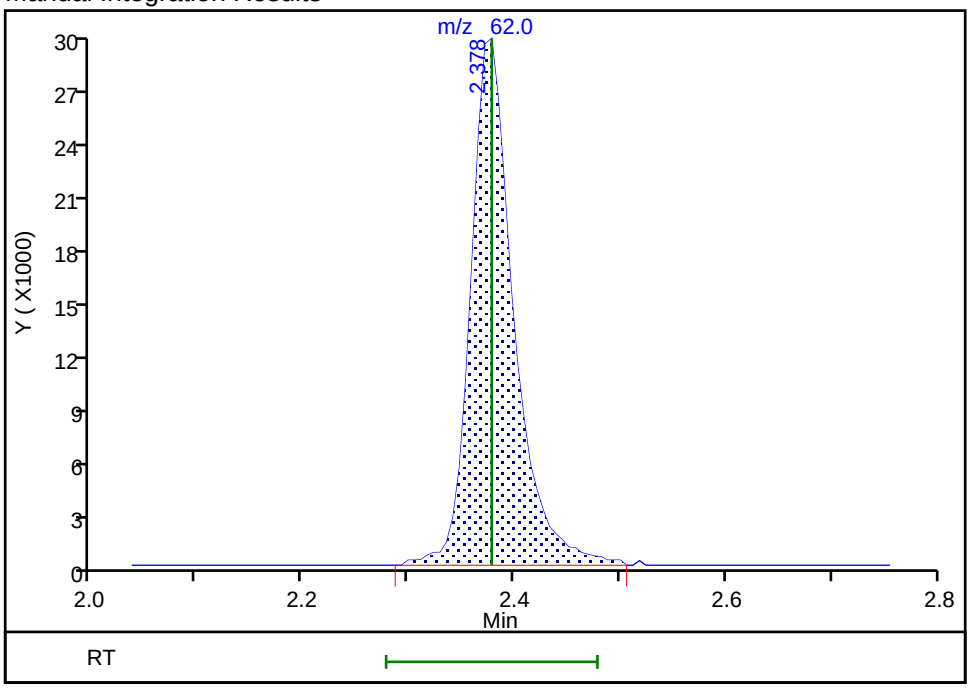
Processing Integration Results

RT: 2.38
Area: 82618
Amount: 10.165007
Amount Units: ug/l



Manual Integration Results

RT: 2.38
Area: 84678
Amount: 10.527658
Amount Units: ug/l



Reviewer: campbellme, 21-Sep-2020 16:31:31
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

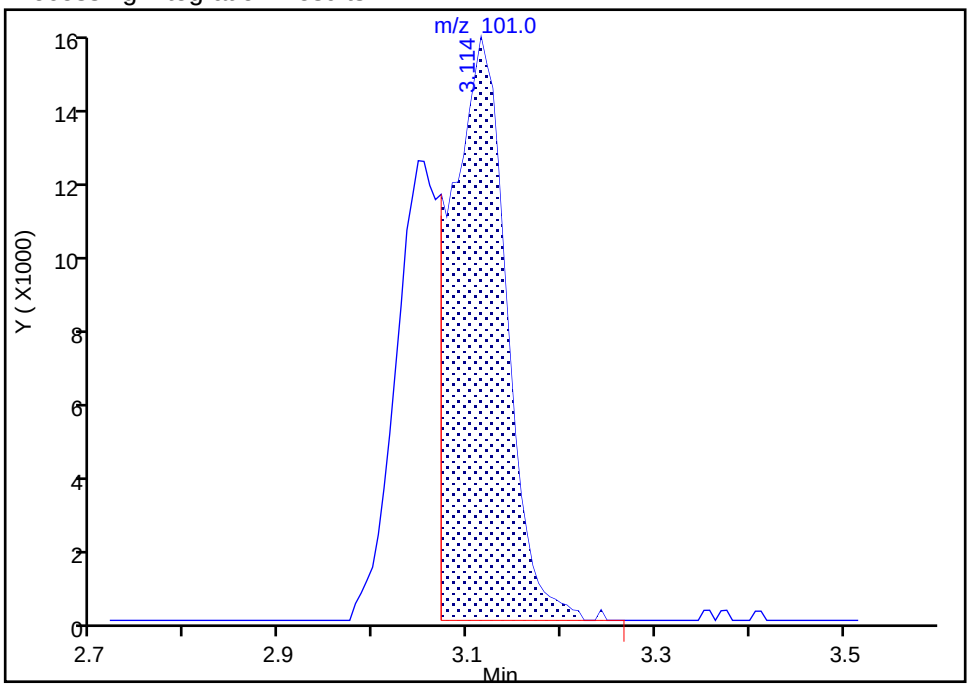
Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I05.D
Injection Date: 21-Sep-2020 15:32:30 Instrument ID: 9355
Lims ID: IC std3 10
Client ID:
Operator ID: kas02648 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

11 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

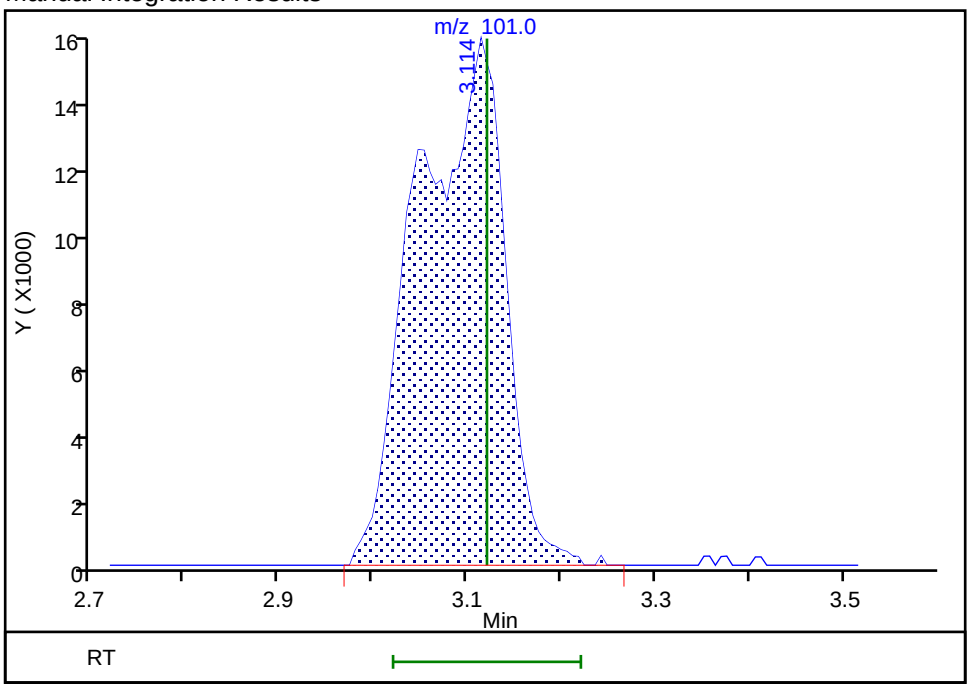
Processing Integration Results

RT: 3.11
Area: 65901
Amount: 6.894717
Amount Units: ug/l



Manual Integration Results

RT: 3.11
Area: 102811
Amount: 10.302170
Amount Units: ug/l



Reviewer: campbellme, 21-Sep-2020 16:31:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

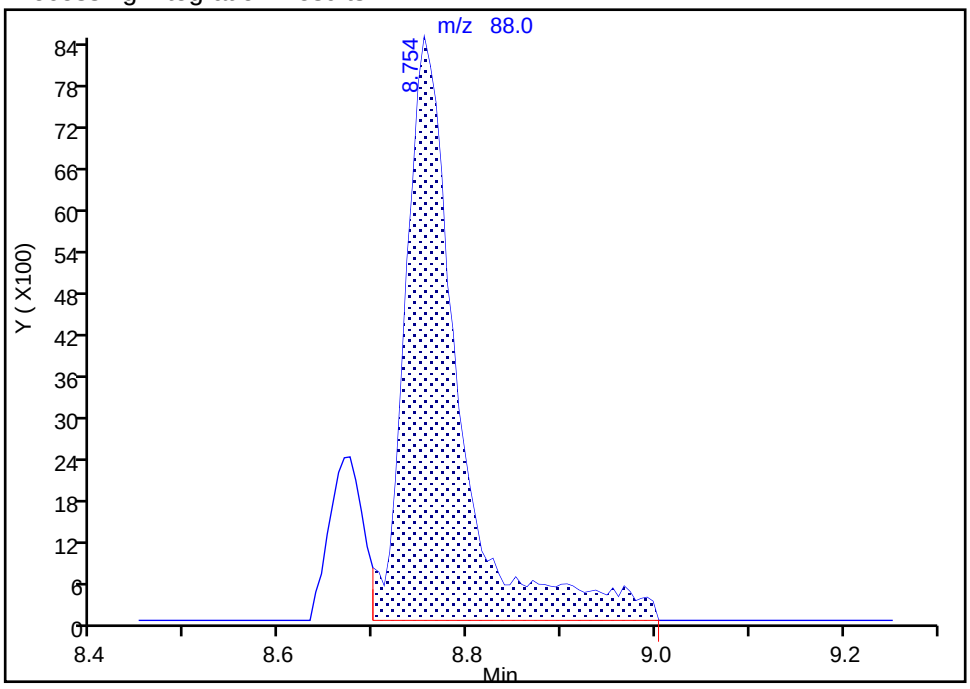
Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I05.D
Injection Date: 21-Sep-2020 15:32:30 Instrument ID: 9355
Lims ID: IC std3 10
Client ID:
Operator ID: kas02648 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

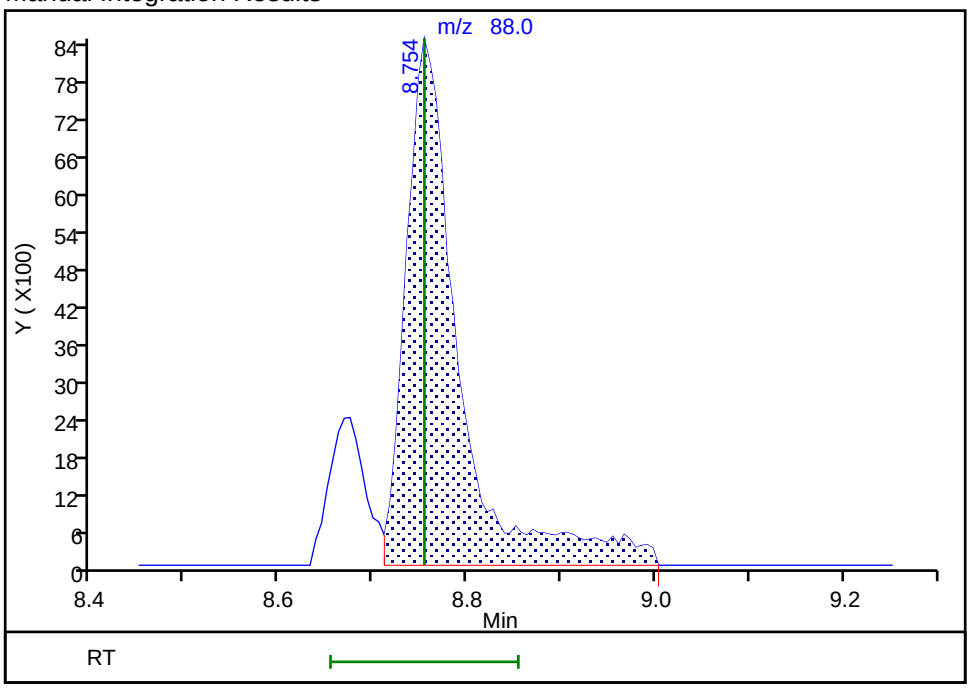
Processing Integration Results

RT: 8.75
Area: 33497
Amount: 252.0259
Amount Units: ug/l



Manual Integration Results

RT: 8.75
Area: 32965
Amount: 255.5180
Amount Units: ug/l



Reviewer: campbellme, 21-Sep-2020 16:32:10
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I06.D
Lims ID: IC std2 4
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 21-Sep-2020 15:53:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0010935-008
Misc. Info.: IC STD2 4
Operator ID: kas02648 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub2

Method: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 21-Sep-2020 18:08:52 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1029

First Level Reviewer: campbellme Date: 21-Sep-2020 16:38:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.032	2.044	-0.012	99	33679	4.00	4.04	
4 Chloromethane	50	2.244	2.257	-0.013	99	35831	4.00	4.15	
5 Butadiene	39	2.360	2.366	-0.006	92	24795	4.00	4.08	
6 Vinyl chloride	62	2.366	2.378	-0.012	98	33492	4.00	4.17	
8 Bromomethane	94	2.701	2.701	0.000	91	23864	4.00	4.26	
9 Chloroethane	64	2.780	2.792	-0.012	99	21170	4.00	4.26	
10 Dichlorofluoromethane	67	3.017	3.029	-0.012	97	46420	4.00	4.14	
11 Trichlorofluoromethane	101	3.096	3.121	-0.025	96	41394	4.00	4.16	
12 Pentane	43	3.139	3.151	-0.012	96	40784	4.00	4.16	
14 Ethyl ether	59	3.352	3.364	-0.012	91	30413	4.00	4.09	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.419	3.431	-0.012	93	33259	4.00	4.09	
16 Acrolein	56	3.522	3.528	-0.006	100	108315	40.1	35.0	
17 1,1-Dichloroethene	96	3.674	3.680	-0.006	98	24056	4.00	4.10	
18 Acetone	58	3.686	3.692	-0.006	100	12620	8.00	7.88	
19 112TCTFE	101	3.705	3.723	-0.018	93	24687	4.00	4.07	
20 Isopropyl alcohol	45	3.857	3.863	-0.006	99	87057	80.0	75.6	
21 Iodomethane	142	3.881	3.893	-0.012	97	42828	4.00	4.05	
22 Carbon disulfide	76	4.003	4.009	-0.006	99	83692	4.00	4.04	
24 Methyl acetate	43	4.124	4.137	-0.013	98	41607	4.00	3.96	
25 3-Chloro-1-propene	41	4.161	4.173	-0.012	94	44038	4.00	3.97	
* 26 t-Butyl alcohol-d10 (IS)	65	4.343	4.356	-0.013	89	377956	250.0	250.0	
27 Methylene Chloride	84	4.355	4.368	-0.013	91	29935	4.00	4.02	
28 2-Methyl-2-propanol	59	4.471	4.477	-0.006	98	155131	80.0	75.9	
30 Acrylonitrile	53	4.672	4.684	-0.012	98	21667	4.00	3.79	
31 Methyl tert-butyl ether	73	4.763	4.781	-0.018	96	88909	4.00	3.90	
32 trans-1,2-Dichloroethene	96	4.781	4.800	-0.019	98	28500	4.00	4.09	
33 Hexane	57	5.213	5.219	-0.006	92	43381	4.00	3.95	
36 1,1-Dichloroethane	63	5.432	5.444	-0.012	96	52063	4.00	4.05	
37 Isopropyl ether	45	5.487	5.499	-0.012	94	93126	4.00	3.88	
38 2-Chloro-1,3-butadiene	53	5.548	5.554	-0.006	90	40290	4.00	3.84	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	6.022	6.035	-0.013	97	83871	4.00	3.80	
S 40 1,2-Dichloroethene, Total	100				0			8.19	
41 2-Butanone (MEK)	43	6.211	6.229	-0.018	100	57059	8.00	7.40	
42 cis-1,2-Dichloroethene	96	6.260	6.266	-0.006	81	32554	4.00	4.10	
44 2,2-Dichloropropane	77	6.284	6.284	0.000	88	38029	4.00	4.01	
45 Propionitrile	54	6.296	6.296	0.000	100	183530	80.0	79.2	
46 Methacrylonitrile	67	6.515	6.521	-0.006	92	217105	40.0	39.2	
47 Chlorobromomethane	128	6.594	6.600	-0.006	94	15491	4.00	3.91	
48 Tetrahydrofuran	71	6.619	6.619	0.000	89	15965	8.00	7.52	
49 Chloroform	83	6.740	6.746	-0.006	93	48275	4.00	4.00	
$ 50 Dibromofluoromethane (Surr)	113	6.953	6.959	-0.006	94	274708	50.0	49.8	
51 1,1,1-Trichloroethane	97	6.978	6.984	-0.006	99	40287	4.00	4.02	
52 Cyclohexane	56	7.093	7.093	0.000	90	51418	4.00	3.96	
53 1,1-Dichloropropene	75	7.190	7.197	-0.007	95	40165	4.00	3.99	
54 Carbon tetrachloride	117	7.203	7.203	0.000	80	32660	4.00	3.93	
55 Isobutyl alcohol	41	7.300	7.306	-0.006	95	124373	200.0	183.4	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.416	7.422	-0.006	98	76362	50.0	50.3	
57 Benzene	78	7.452	7.458	-0.006	94	128150	4.00	4.11	
59 1,2-Dichloroethane	62	7.519	7.525	-0.006	96	41077	4.00	4.03	
60 Tert-amyl methyl ether	73	7.641	7.647	-0.006	96	82444	4.00	3.80	
* 62 Fluorobenzene (IS)	96	7.854	7.860	-0.006	99	1227976	50.0	50.0	
63 n-Heptane	43	7.872	7.878	-0.006	93	52144	4.00	4.14	
64 n-Butanol	56	8.176	8.182	-0.006	89	219077	400.0	364.9	
65 Trichloroethene	95	8.340	8.340	0.000	98	30711	4.00	4.02	
66 Methylcyclohexane	83	8.657	8.657	0.000	95	52845	4.00	3.96	
67 1,2-Dichloropropane	63	8.669	8.669	0.000	73	32869	4.00	4.08	
34 2-ethoxy-2-methyl butane	87	8.669	8.675	-0.006	94	41848	4.00	3.86	
68 Methyl methacrylate	69	8.736	8.736	0.000	90	30114	4.00	3.70	
69 1,4-Dioxane	88	8.748	8.754	-0.006	94	25132	200.0	194.2	M
70 Dibromomethane	93	8.778	8.784	-0.006	97	19686	4.00	3.98	
72 Dichlorobromomethane	83	9.009	9.009	0.000	99	33057	4.00	3.71	
73 2-Nitropropane	41	9.253	9.253	0.000	99	22226	8.00	6.72	
74 2-Chloroethyl vinyl ether	63	9.356	9.356	0.000	92	21388	4.00	3.41	
75 cis-1,3-Dichloropropene	75	9.545	9.545	0.000	96	45462	4.00	3.68	
76 4-Methyl-2-pentanone (MIBK)	43	9.697	9.697	0.000	97	102602	8.00	7.24	
$ 77 Toluene-d8 (Surr)	98	9.849	9.855	-0.006	93	1201608	50.0	49.7	
78 Toluene	92	9.928	9.928	0.000	98	78111	4.00	4.03	
S 79 1,3-Dichloropropene, Total	100				0			7.32	
80 trans-1,3-Dichloropropene	75	10.171	10.171	0.000	92	41090	4.00	3.63	
81 Ethyl methacrylate	69	10.226	10.232	-0.006	90	42116	4.00	3.35	
82 1,1,2-Trichloroethane	97	10.378	10.378	0.000	90	29588	4.00	3.98	
83 Tetrachloroethene	166	10.476	10.476	0.000	97	38264	4.00	4.16	
84 1,3-Dichloropropane	76	10.536	10.536	0.000	88	51335	4.00	3.92	
86 2-Hexanone	43	10.579	10.579	0.000	95	78100	8.00	6.97	
88 Chlorodibromomethane	129	10.755	10.762	-0.007	90	25942	4.00	3.56	
89 Ethylene Dibromide	107	10.871	10.871	0.000	98	30549	4.00	3.82	
S 90 Xylenes, Total	106				0			12.1	
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	86	891820	50.0	50.0	
92 1-Chlorohexane	91	11.297	11.297	0.000	96	41239	4.00	3.95	
93 Chlorobenzene	112	11.321	11.321	0.000	95	88376	4.00	4.09	
94 1,1,1,2-Tetrachloroethane	131	11.406	11.400	0.006	95	26771	4.00	3.89	
95 Ethylbenzene	91	11.406	11.406	0.000	98	146854	4.00	4.07	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
96 m-Xylene & p-Xylene	106	11.522	11.522	0.000	100	115223	8.00	8.16	
97 o-Xylene	106	11.844	11.844	0.000	96	54358	4.00	3.97	
98 Styrene	104	11.863	11.863	0.000	95	85518	4.00	3.82	
99 Bromoform	173	12.027	12.027	0.000	96	18229	4.00	3.34	
100 Isopropylbenzene	105	12.149	12.143	0.007	95	140862	4.00	4.03	
102 Cyclohexanone	55	12.215	12.216	-0.001	91	120358	200.0	201.8	
$ 103 4-Bromofluorobenzene (Surr)	95	12.288	12.295	-0.007	89	454722	50.0	50.2	
104 1,1,2,2-Tetrachloroethane	83	12.380	12.380	0.000	92	50576	4.00	3.87	
106 trans-1,4-Dichloro-2-butene	53	12.404	12.404	0.000	95	170675	40.0	38.3	
105 Bromobenzene	156	12.410	12.410	0.000	74	38480	4.00	4.11	
107 1,2,3-Trichloropropane	110	12.428	12.428	0.000	79	16243	4.00	3.99	
108 N-Propylbenzene	91	12.471	12.471	0.000	99	181045	4.00	4.17	
109 2-Chlorotoluene	126	12.550	12.550	0.000	97	36904	4.00	4.10	
110 1,3,5-Trimethylbenzene	105	12.605	12.605	0.000	94	126291	4.00	4.04	
111 4-Chlorotoluene	126	12.641	12.641	0.000	97	37896	4.00	4.06	
113 tert-Butylbenzene	134	12.854	12.848	0.006	93	25754	4.00	3.94	
114 Pentachloroethane	167	12.885	12.885	0.000	90	15154	4.00	3.64	
115 1,2,4-Trimethylbenzene	105	12.891	12.891	0.000	97	129276	4.00	4.02	
116 sec-Butylbenzene	105	13.012	13.012	0.000	94	165245	4.00	4.14	
117 1,3-Dichlorobenzene	146	13.116	13.116	0.000	97	75167	4.00	4.15	
118 4-Isopropyltoluene	119	13.122	13.122	0.000	97	138087	4.00	4.08	
* 119 1,4-Dichlorobenzene-d4	152	13.171	13.171	0.000	95	493469	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.189	13.189	0.000	95	77097	4.00	4.12	
120 1,2,3-Trimethylbenzene	105	13.195	13.195	0.000	97	128067	4.00	4.00	
122 Benzyl chloride	91	13.262	13.262	0.000	98	89546	4.00	3.48	
123 1,3-Diethylbenzene	119	13.323	13.323	0.000	95	80554	4.00	3.96	
124 p-Diethylbenzene	119	13.396	13.396	0.000	96	85969	4.00	4.02	
125 n-Butylbenzene	92	13.414	13.414	0.000	96	75389	4.00	4.17	
126 1,2-Dichlorobenzene	146	13.450	13.450	0.000	98	72547	4.00	4.08	
127 o-diethylbenzene	119	13.463	13.463	0.000	95	68281	4.00	4.00	
129 1,2-Dibromo-3-Chloropropane	75	13.992	13.986	0.006	82	10936	4.00	3.40	
130 1,3,5-Trichlorobenzene	180	14.120	14.120	0.000	98	55977	4.00	4.01	
131 1,2,4-Trichlorobenzene	180	14.545	14.546	-0.001	94	50801	4.00	3.90	
132 Hexachlorobutadiene	225	14.625	14.625	0.000	97	24556	4.00	4.08	
133 Naphthalene	128	14.722	14.722	0.000	97	163716	4.00	3.74	
134 1,2,3-Trichlorobenzene	180	14.868	14.868	0.000	96	49997	4.00	3.94	
135 2-Methylnaphthalene	142	15.519	15.513	0.006	93	84757	4.00	3.44	
S 146 Total Diethylbenzene	1				0			12.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_VCYC_00005	Amount Added:	32.00	Units: uL	
MSV_V_EE_00003	Amount Added:	4.00	Units: uL	
MSV_DCFM_00022	Amount Added:	2.00	Units: uL	
MSV_V_2CEVE_00106	Amount Added:	4.00	Units: uL	
MSV_V_VOA1_00094	Amount Added:	4.00	Units: uL	
MSV_V_VOA3_00047	Amount Added:	1.60	Units: uL	
MSV_V_VOA6_00053	Amount Added:	4.00	Units: uL	
MSV_V_VOA2_00050	Amount Added:	12.00	Units: uL	
MSV_V_Gas_00146	Amount Added:	2.00	Units: uL	
MSV_HP20_ISSS_00025	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 21-Sep-2020 18:08:53 Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I06.D

Injection Date: 21-Sep-2020 15:53:30 Instrument ID: 9355 Operator ID: kas02648

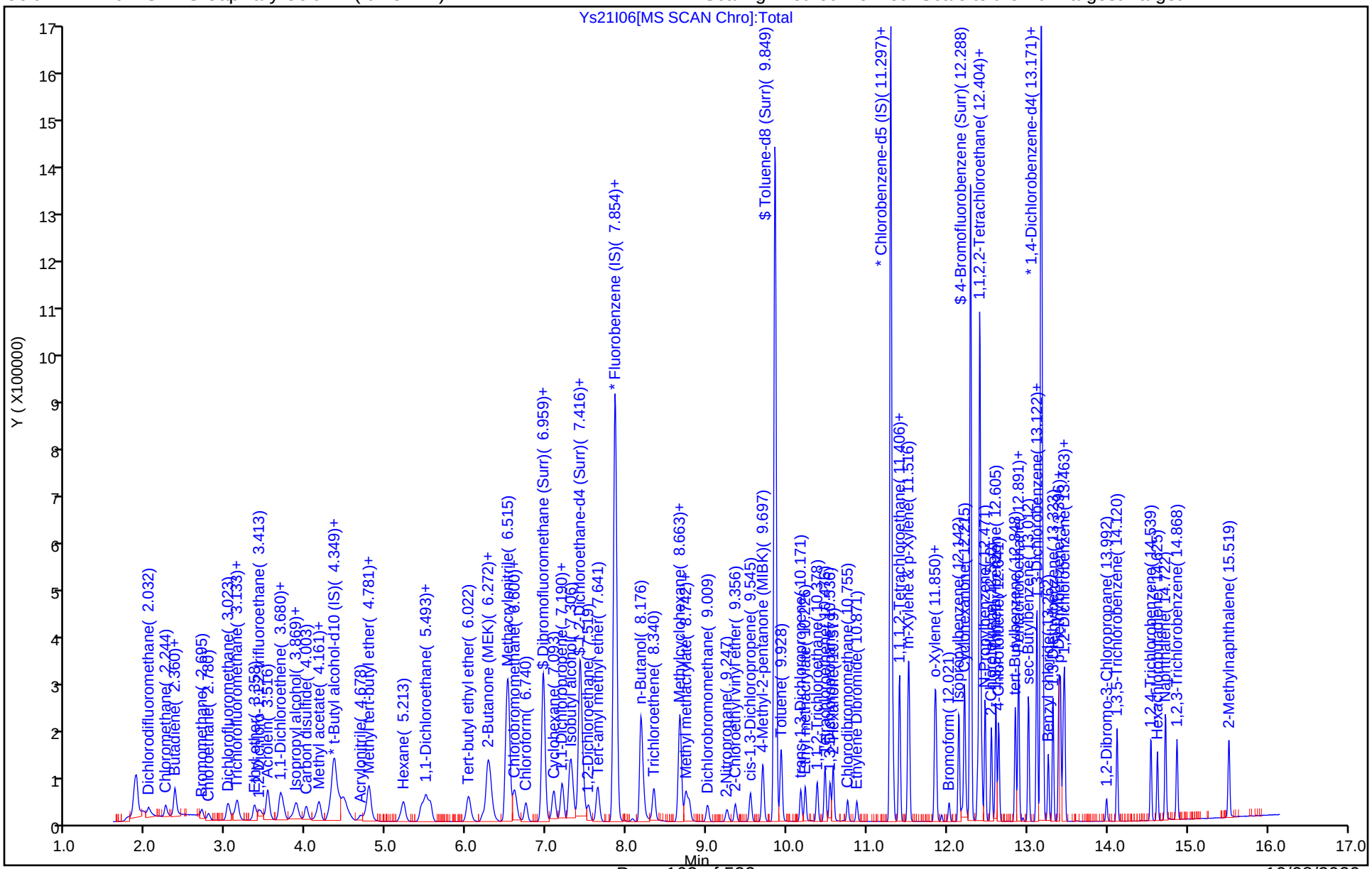
Lims ID: IC std2 4 Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 8

Method: MSVoa_9355 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

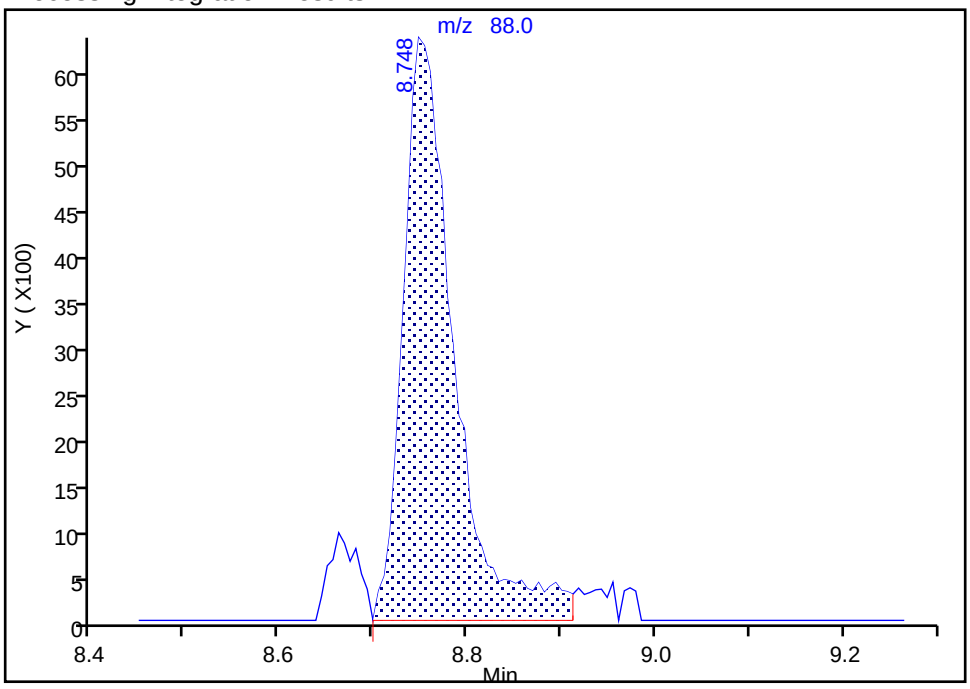
Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I06.D
Injection Date: 21-Sep-2020 15:53:30 Instrument ID: 9355
Lims ID: IC std2 4
Client ID:
Operator ID: kas02648 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

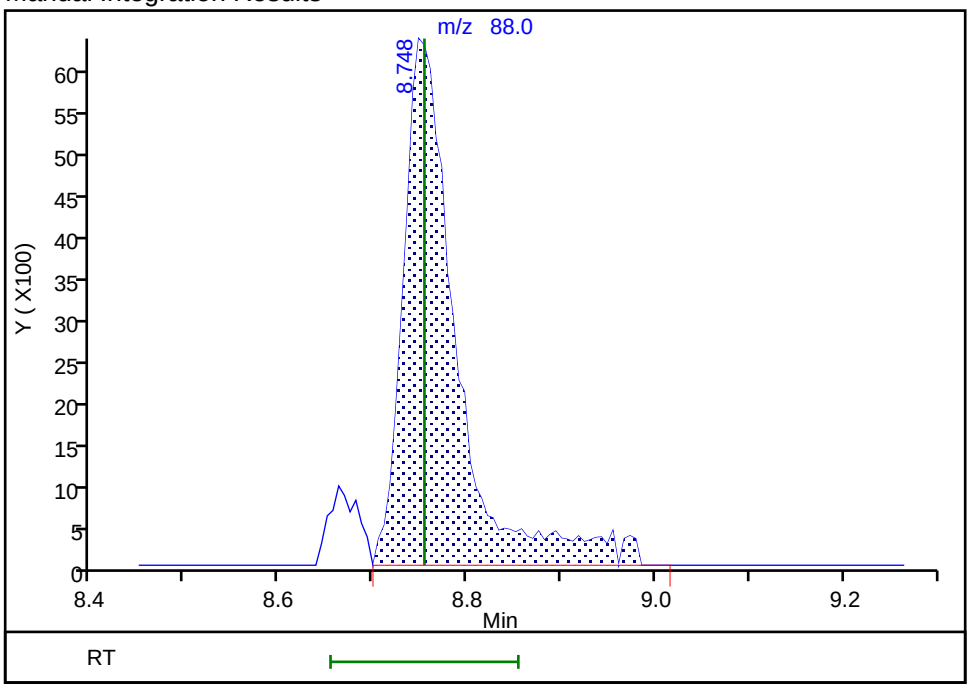
Processing Integration Results

RT: 8.75
Area: 23932
Amount: 179.9905
Amount Units: ug/l



Manual Integration Results

RT: 8.75
Area: 25132
Amount: 194.2076
Amount Units: ug/l



Reviewer: campbellme, 21-Sep-2020 16:33:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D
Lims ID: IC std1 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 21-Sep-2020 16:16:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0010935-009
Misc. Info.: IC STD1 1
Operator ID: kas02648 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub2

Method: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 21-Sep-2020 18:09:07 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1029

First Level Reviewer: campbellme Date: 21-Sep-2020 16:54:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.038	2.044	-0.006	96	6631	1.00	0.7956	
4 Chloromethane	50	2.244	2.257	-0.013	97	8305	1.00	0.9607	
5 Butadiene	39	2.360	2.366	-0.006	89	6553	1.00	1.08	
6 Vinyl chloride	62	2.366	2.378	-0.012	95	7321	1.00	0.9115	
8 Bromomethane	94	2.701	2.701	0.000	87	5203	1.00	0.9277	
9 Chloroethane	64	2.786	2.792	-0.006	97	4676	1.00	0.9416	
10 Dichlorofluoromethane	67	3.023	3.029	-0.006	96	10204	1.00	0.9095	
11 Trichlorofluoromethane	101	3.108	3.121	-0.013	90	8804	1.00	0.8835	
12 Pentane	43	3.139	3.151	-0.012	95	10030	1.00	1.02	
14 Ethyl ether	59	3.364	3.364	0.000	89	7504	1.00	1.01	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.419	3.431	-0.012	91	7539	1.00	0.9273	
16 Acrolein	56	3.522	3.528	-0.006	99	29639	10.0	9.48	
17 1,1-Dichloroethene	96	3.674	3.680	-0.006	95	5182	1.00	0.8820	
18 Acetone	58	3.698	3.692	0.006	97	2963	2.00	1.83	
19 112TCTFE	101	3.717	3.723	-0.006	67	5379	1.00	0.8870	
20 Isopropyl alcohol	45	3.863	3.863	0.000	97	23116	20.0	19.9	
21 Iodomethane	142	3.881	3.893	-0.012	97	9355	1.00	0.8836	
22 Carbon disulfide	76	4.009	4.009	0.000	98	18443	1.00	0.8909	
24 Methyl acetate	43	4.136	4.137	-0.001	95	10070	1.00	0.9586	
25 3-Chloro-1-propene	41	4.167	4.173	-0.006	93	9863	1.00	0.8895	
* 26 t-Butyl alcohol-d10 (IS)	65	4.349	4.356	-0.007	84	382103	250.0	250.0	
27 Methylene Chloride	84	4.355	4.368	-0.013	90	7622	1.00	1.02	
28 2-Methyl-2-propanol	59	4.465	4.477	-0.012	98	39521	20.0	19.1	
30 Acrylonitrile	53	4.690	4.684	0.006	93	4808	1.00	0.8415	
31 Methyl tert-butyl ether	73	4.781	4.781	0.000	95	20916	1.00	0.9162	
32 trans-1,2-Dichloroethene	96	4.787	4.800	-0.013	97	6405	1.00	0.9186	
33 Hexane	57	5.213	5.219	-0.006	94	8726	1.00	0.7935	
36 1,1-Dichloroethane	63	5.438	5.444	-0.006	93	11915	1.00	0.9265	
37 Isopropyl ether	45	5.493	5.499	-0.006	91	20932	1.00	0.8721	
38 2-Chloro-1,3-butadiene	53	5.554	5.554	0.000	89	7764	1.00	0.7391	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	6.028	6.035	-0.007	95	18880	1.00	0.8543	
S 40 1,2-Dichloroethene, Total	100				0			1.81	
41 2-Butanone (MEK)	43	6.223	6.229	-0.006	99	13817	2.00	1.79	
42 cis-1,2-Dichloroethene	96	6.266	6.266	0.000	80	7099	1.00	0.8948	
44 2,2-Dichloropropane	77	6.284	6.284	0.000	70	7995	1.00	0.8432	
45 Propionitrile	54	6.296	6.296	0.000	99	44226	20.0	18.9	
46 Methacrylonitrile	67	6.527	6.521	0.006	92	50043	10.0	9.04	
47 Chlorobromomethane	128	6.600	6.600	0.000	94	3595	1.00	0.9081	
48 Tetrahydrofuran	71	6.612	6.619	-0.007	80	3552	2.00	1.66	
49 Chloroform	83	6.740	6.746	-0.006	93	11144	1.00	0.9227	
$ 50 Dibromofluoromethane (Surr)	113	6.959	6.959	0.000	94	274168	50.0	49.6	
51 1,1,1-Trichloroethane	97	6.984	6.984	0.000	89	8972	1.00	0.8947	
52 Cyclohexane	56	7.087	7.093	-0.006	90	10573	1.00	0.8137	
53 1,1-Dichloropropene	75	7.196	7.197	-0.001	94	8527	1.00	0.8471	
54 Carbon tetrachloride	117	7.196	7.203	-0.007	84	7005	1.00	0.8428	
55 Isobutyl alcohol	41	7.300	7.306	-0.006	93	30830	50.0	45.0	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.416	7.422	-0.006	98	75441	50.0	49.7	
57 Benzene	78	7.452	7.458	-0.006	93	29742	1.00	0.9538	
59 1,2-Dichloroethane	62	7.525	7.525	0.000	97	10477	1.00	1.03	
60 Tert-amyl methyl ether	73	7.641	7.647	-0.006	95	18711	1.00	0.8618	
* 62 Fluorobenzene (IS)	96	7.854	7.860	-0.006	99	1228423	50.0	50.0	
63 n-Heptane	43	7.866	7.878	-0.012	36	11247	1.00	0.8917	
64 n-Butanol	56	8.182	8.182	0.000	90	48928	100.0	80.6	
65 Trichloroethene	95	8.340	8.340	0.000	95	6949	1.00	0.9100	
66 Methylcyclohexane	83	8.663	8.657	0.006	90	10763	1.00	0.8058	
67 1,2-Dichloropropane	63	8.675	8.669	0.006	75	7458	1.00	0.9250	
34 2-ethoxy-2-methyl butane	87	8.669	8.675	-0.006	79	8995	1.00	0.8288	
68 Methyl methacrylate	69	8.736	8.736	0.000	93	6249	1.00	0.7679	
69 1,4-Dioxane	88	8.754	8.754	0.000	95	5160	50.0	39.4	
70 Dibromomethane	93	8.784	8.784	0.000	98	4479	1.00	0.9047	
72 Dichlorobromomethane	83	9.009	9.009	0.000	97	7491	1.00	0.8400	
73 2-Nitropropane	41	9.253	9.253	0.000	96	5211	2.00	1.56	
74 2-Chloroethyl vinyl ether	63	9.362	9.356	0.006	88	4472	1.00	0.7134	
75 cis-1,3-Dichloropropene	75	9.545	9.545	0.000	96	9801	1.00	0.7939	
76 4-Methyl-2-pentanone (MIBK)	43	9.697	9.697	0.000	97	21288	2.00	1.50	
$ 77 Toluene-d8 (Surr)	98	9.849	9.855	-0.006	93	1196006	50.0	49.2	
78 Toluene	92	9.928	9.928	0.000	99	18779	1.00	0.9645	
S 79 1,3-Dichloropropene, Total	100				0			1.57	
80 trans-1,3-Dichloropropene	75	10.171	10.171	0.000	92	8829	1.00	0.7770	
81 Ethyl methacrylate	69	10.226	10.232	-0.006	88	8899	1.00	0.7054	
82 1,1,2-Trichloroethane	97	10.378	10.378	0.000	91	6728	1.00	0.9000	
83 Tetrachloroethene	166	10.476	10.476	0.000	96	8452	1.00	0.9142	
84 1,3-Dichloropropane	76	10.536	10.536	0.000	88	11979	1.00	0.9113	
86 2-Hexanone	43	10.579	10.579	0.000	96	17149	2.00	1.52	
88 Chlorodibromomethane	129	10.761	10.762	-0.001	89	5681	1.00	0.7760	
89 Ethylene Dibromide	107	10.871	10.871	0.000	98	6789	1.00	0.8443	
S 90 Xylenes, Total	106				0			2.61	
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	86	896235	50.0	50.0	
92 1-Chlorohexane	91	11.297	11.297	0.000	46	10122	1.00	0.9637	
93 Chlorobenzene	112	11.321	11.321	0.000	97	21030	1.00	0.9692	
94 1,1,1,2-Tetrachloroethane	131	11.400	11.400	0.000	93	6013	1.00	0.8685	
95 Ethylbenzene	91	11.406	11.406	0.000	98	32759	1.00	0.9033	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
96 m-Xylene & p-Xylene	106	11.522	11.522	0.000	100	24914	2.00	1.75	
97 o-Xylene	106	11.850	11.844	0.006	96	11777	1.00	0.8569	
98 Styrene	104	11.863	11.863	0.000	95	17141	1.00	0.7613	
99 Bromoform	173	12.021	12.027	-0.006	94	3941	1.00	0.7182	
100 Isopropylbenzene	105	12.149	12.143	0.007	95	28693	1.00	0.8176	
102 Cyclohexanone	55	12.215	12.216	-0.001	90	25361	50.0	42.1	
$ 103 4-Bromofluorobenzene (Surr)	95	12.295	12.295	0.000	90	451548	50.0	49.6	
104 1,1,2,2-Tetrachloroethane	83	12.380	12.380	0.000	93	11913	1.00	0.9085	
106 trans-1,4-Dichloro-2-butene	53	12.404	12.404	0.000	93	39148	10.0	8.77	
105 Bromobenzene	156	12.410	12.410	0.000	62	8985	1.00	0.9578	
107 1,2,3-Trichloropropane	110	12.428	12.428	0.000	75	3943	1.00	0.9664	
108 N-Propylbenzene	91	12.471	12.471	0.000	99	40502	1.00	0.9297	
109 2-Chlorotoluene	126	12.556	12.550	0.006	97	8221	1.00	0.9106	
110 1,3,5-Trimethylbenzene	105	12.605	12.605	0.000	94	26454	1.00	0.8441	
111 4-Chlorotoluene	126	12.641	12.641	0.000	96	8141	1.00	0.8688	
113 tert-Butylbenzene	134	12.848	12.848	0.000	93	5460	1.00	0.8334	
114 Pentachloroethane	167	12.885	12.885	0.000	78	3284	1.00	0.7857	
115 1,2,4-Trimethylbenzene	105	12.891	12.891	0.000	97	26475	1.00	0.8219	
116 sec-Butylbenzene	105	13.012	13.012	0.000	94	33870	1.00	0.8470	
117 1,3-Dichlorobenzene	146	13.116	13.116	0.000	97	17592	1.00	0.9686	
118 4-Isopropyltoluene	119	13.122	13.122	0.000	97	27722	1.00	0.8174	
* 119 1,4-Dichlorobenzene-d4	152	13.171	13.171	0.000	95	494823	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.189	13.189	0.000	94	18807	1.00	1.00	
120 1,2,3-Trimethylbenzene	105	13.195	13.195	0.000	97	29809	1.00	0.9275	
122 Benzyl chloride	91	13.262	13.262	0.000	99	19520	1.00	0.7571	
123 1,3-Diethylbenzene	119	13.323	13.323	0.000	95	16663	1.00	0.8163	
124 p-Diethylbenzene	119	13.396	13.396	0.000	94	17211	1.00	0.8029	
125 n-Butylbenzene	92	13.414	13.414	0.000	97	16097	1.00	0.8888	
126 1,2-Dichlorobenzene	146	13.450	13.450	0.000	98	17830	1.00	1.00	
127 o-diethylbenzene	119	13.463	13.463	0.000	94	15062	1.00	0.8802	
129 1,2-Dibromo-3-Chloropropane	75	13.992	13.986	0.006	78	2545	1.00	0.7880	
130 1,3,5-Trichlorobenzene	180	14.120	14.120	0.000	97	13435	1.00	0.9587	
131 1,2,4-Trichlorobenzene	180	14.545	14.546	-0.001	94	12369	1.00	0.9468	
132 Hexachlorobutadiene	225	14.625	14.625	0.000	96	6038	1.00	1.00	
133 Naphthalene	128	14.722	14.722	0.000	97	37394	1.00	0.8527	
134 1,2,3-Trichlorobenzene	180	14.868	14.868	0.000	96	12232	1.00	0.9613	
135 2-Methylnaphthalene	142	15.519	15.513	0.006	91	19304	1.00	0.7805	
S 146 Total Diethylbenzene	1				0			2.50	

QC Flag Legend

Processing Flags

Reagents:

MSV_4ppbEE_00085	Amount Added: 12.50	Units: mL	
MSV_HP20_ISSS_00025	Amount Added: 1.00	Units: uL	Run Reagent

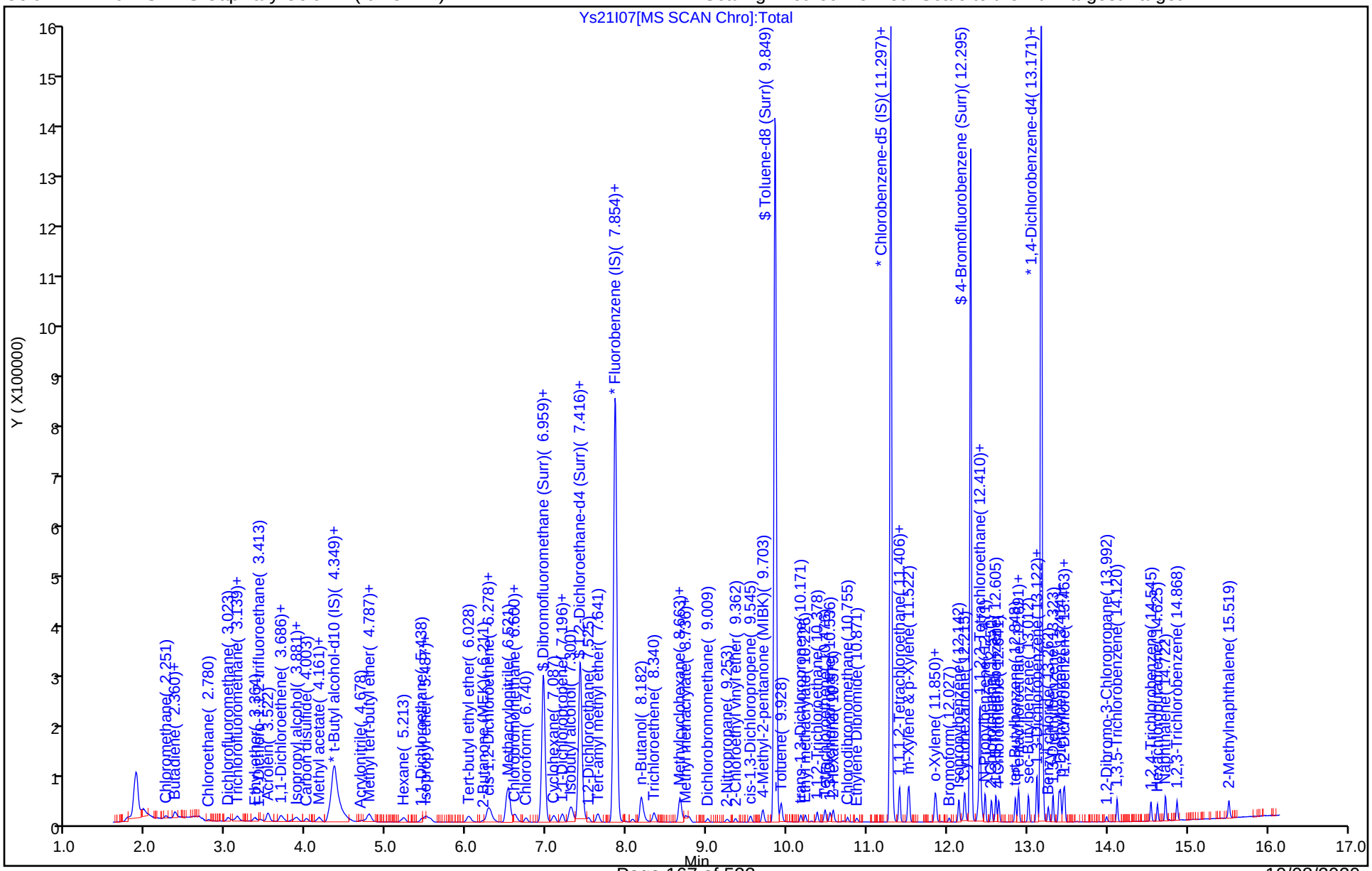
Report Date: 21-Sep-2020 18:09:08 Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Injection Date:	21-Sep-2020 16:16:30	Instrument ID:	9355	Operator ID:	kas02648
Lims ID:	IC std1 1			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1

SDG No.:

Lab Sample ID: ICV 410-46013/11 Calibration Date: 09/21/2020 17:00

Instrument ID: 9355 Calib Start Date: 09/21/2020 14:04

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 09/21/2020 16:16

Lab File ID: Ys21v01.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	0.3392	0.2795	0.1000	16.5	20.0	-17.6	30.0
Chloromethane	Ave	0.3519	0.3162	0.1000	18.0	20.0	-10.1	30.0
1,3-Butadiene	Ave	0.2475	0.2825		22.8	20.0	14.1	30.0
Vinyl chloride	Ave	0.3269	0.3112	0.1000	19.0	20.0	-4.8	30.0
Bromomethane	Ave	0.2283	0.1959	0.1000	17.2	20.0	-14.2	30.0
Chloroethane	Ave	0.2021	0.1707	0.1000	16.9	20.0	-15.6	30.0
Dichlorofluoromethane	Ave	0.4567	0.4264		18.7	20.0	-6.6	30.0
Trichlorofluoromethane	Ave	0.4056	0.3714	0.1000	18.3	20.0	-8.4	30.0
n-Pentane	Ave	0.3994	0.3621		18.1	20.0	-9.3	30.0
Ethyl ether	Ave	0.3028	0.2828		18.7	20.0	-6.6	30.0
Freon 123a	Ave	0.3309	0.3342		20.2	20.0	1.0	30.0
Acrolein	Ave	2.046	1.986		145	150	-2.9	30.0
1,1-Dichloroethene	Ave	0.2391	0.2586	0.1000	21.6	20.0	8.2	30.0
Acetone	Ave	1.060	1.048	0.1000	148	150	-1.1	30.0
Freon 113	Ave	0.2468	0.2427	0.1000	19.7	20.0	-1.7	30.0
2-Propanol	Ave	0.7615	0.6914		136	150	-9.2	30.0
Methyl iodide	Ave	0.4309	0.4341		20.1	20.0	0.7	30.0
Carbon disulfide	Ave	0.8426	0.8741	0.1000	20.7	20.0	3.7	30.0
Methyl acetate	Ave	0.4276	0.4344	0.1000	20.3	20.0	1.6	30.0
Allyl chloride	Ave	0.4513	0.4495		19.9	20.0	-0.4	30.0
Methylene Chloride	Ave	0.3034	0.3115	0.1000	20.5	20.0	2.7	30.0
t-Butyl alcohol	Ave	1.352	1.294		191	200	-4.3	30.0
Acrylonitrile	Ave	0.2326	0.2257		97.0	100	-3.0	30.0
Methyl tertiary butyl ether	Ave	0.9292	0.8981	0.1000	19.3	20.0	-3.4	30.0
trans-1,2-Dichloroethene	Ave	0.2838	0.2884	0.1000	20.3	20.0	1.6	30.0
n-Hexane	Ave	0.4476	0.4683		20.9	20.0	4.6	30.0
1,1-Dichloroethane	Ave	0.5235	0.5246	0.2000	20.0	20.0	0.2	30.0
di-Isopropyl ether	Ave	0.9769	0.9655		19.8	20.0	-1.2	30.0
2-Chloro-1,3-butadiene	Ave	0.4276	0.4321		20.2	20.0	1.1	30.0
Ethyl t-butyl ether	Ave	0.8995	0.8907		19.8	20.0	-1.0	30.0
2-Butanone	Ave	0.3140	0.3214	0.1000	154	150	2.4	30.0
cis-1,2-Dichloroethene	Ave	0.3229	0.3428	0.1000	21.2	20.0	6.1	30.0
2,2-Dichloropropane	Ave	0.3859	0.3966		20.6	20.0	2.8	30.0
Propionitrile	Ave	1.532	1.530		150	150	-0.1	30.0
Methacrylonitrile	Ave	0.2253	0.2318		154	150	2.9	30.0
Bromochloromethane	Ave	0.1611	0.1547		19.2	20.0	-4.0	30.0
Tetrahydrofuran	Ave	1.404	1.424		101	100	1.4	30.0
Chloroform	Ave	0.4916	0.4882	0.2000	19.9	20.0	-0.7	30.0
1,1,1-Trichloroethane	Ave	0.4081	0.4032	0.1000	19.8	20.0	-1.2	30.0
Cyclohexane	Ave	0.5289	0.5432	0.1000	20.5	20.0	2.7	30.0
1,1-Dichloropropene	Ave	0.4097	0.4142		20.2	20.0	1.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1

SDG No.:

Lab Sample ID: ICV 410-46013/11 Calibration Date: 09/21/2020 17:00

Instrument ID: 9355 Calib Start Date: 09/21/2020 14:04

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 09/21/2020 16:16

Lab File ID: Ys21v01.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	0.3383	0.3423	0.1000	20.2	20.0	1.2	30.0
Isobutyl alcohol	Ave	0.4484	0.4258		475	500	-5.1	30.0
Benzene	Ave	1.269	1.258	0.5000	19.8	20.0	-0.9	30.0
1,2-Dichloroethane	Ave	0.4150	0.4087	0.1000	19.7	20.0	-1.5	30.0
t-Amyl methyl ether	Ave	0.8838	0.8831		20.0	20.0	-0.0	30.0
n-Heptane	Ave	0.5134	0.5129		20.0	20.0	-0.1	30.0
n-Butanol	Ave	0.3971	0.3819		962	1000	-3.8	30.0
Trichloroethene	Ave	0.3108	0.3085	0.2000	19.9	20.0	-0.7	30.0
Methylcyclohexane	Ave	0.5437	0.5668	0.1000	20.9	20.0	4.3	30.0
1,2-Dichloropropane	Ave	0.3282	0.3383	0.1000	20.6	20.0	3.1	30.0
t-Amyl ethyl ether	Ave	0.4418	0.4507		20.4	20.0	2.0	30.0
Methyl methacrylate	Ave	0.3312	0.3401		20.5	20.0	2.7	30.0
1,4-Dioxane	Ave	0.0856	0.0855	0.0050	499	500	-0.2	30.0
Dibromomethane	Ave	0.2015	0.2040		20.2	20.0	1.2	30.0
Bromodichloromethane	Ave	0.3630	0.3613	0.2000	19.9	20.0	-0.5	30.0
2-Nitropropane	Ave	2.189	2.012		18.4	20.0	-8.1	30.0
2-Chloroethyl vinyl ether	Ave	0.2551	0.2637		20.7	20.0	3.4	30.0
cis-1,3-Dichloropropene	Ave	0.5025	0.5012	0.2000	19.9	20.0	-0.3	30.0
4-Methyl-2-pentanone	Ave	0.5767	0.5898	0.1000	102	100	2.3	30.0
Toluene	Ave	1.086	1.082	0.4000	19.9	20.0	-0.4	30.0
trans-1,3-Dichloropropene	Ave	0.6339	0.6246	0.1000	19.7	20.0	-1.5	30.0
Ethyl methacrylate	Ave	0.7038	0.7228		20.5	20.0	2.7	30.0
1,1,2-Trichloroethane	Ave	0.4171	0.4308	0.1000	20.7	20.0	3.3	30.0
Tetrachloroethene	Ave	0.5158	0.5181	0.2000	20.1	20.0	0.4	30.0
1,3-Dichloropropane	Ave	0.7334	0.7309		19.9	20.0	-0.3	30.0
2-Hexanone	Ave	0.6281	0.6520	0.1000	104	100	3.8	30.0
Dibromochloromethane	Ave	0.4084	0.4082		20.0	20.0	-0.0	30.0
1,2-Dibromoethane	Ave	0.4486	0.4495	0.1000	20.0	20.0	0.2	30.0
1-Chlorohexane	Ave	0.5859	0.5699		19.5	20.0	-2.7	30.0
Chlorobenzene	Ave	1.211	1.209	0.5000	20.0	20.0	-0.0	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3862	0.3825		19.8	20.0	-1.0	30.0
Ethylbenzene	Ave	2.023	2.041	0.1000	20.2	20.0	0.9	30.0
m&p-Xylene	Ave	0.7921	0.8179	0.1000	41.3	40.0	3.3	30.0
o-Xylene	Ave	0.7667	0.7896	0.3000	20.6	20.0	3.0	30.0
Styrene	Ave	1.256	1.310	0.3000	20.9	20.0	4.3	30.0
Bromoform	Ave	0.3061	0.2928	0.1000	19.1	20.0	-4.4	30.0
Isopropylbenzene	Ave	1.958	2.025	0.1000	20.7	20.0	3.4	30.0
Cyclohexanone	Ave	0.3944	0.3137		398	500	-20.5	30.0
1,1,2,2-Tetrachloroethane	Ave	1.325	1.343	0.3000	20.3	20.0	1.3	30.0
trans-1,4-Dichloro-2-butene	Ave	0.4511	0.4632		103	100	2.7	30.0
Bromobenzene	Ave	0.9479	0.9655		20.4	20.0	1.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1

SDG No.:

Lab Sample ID: ICV 410-46013/11 Calibration Date: 09/21/2020 17:00

Instrument ID: 9355 Calib Start Date: 09/21/2020 14:04

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 09/21/2020 16:16

Lab File ID: Ys21v01.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichloropropane	Ave	0.4123	0.4188		20.3	20.0	1.6	30.0
N-Propylbenzene	Ave	4.402	4.597		20.9	20.0	4.4	30.0
2-Chlorotoluene	Ave	0.9123	0.9112		20.0	20.0	-0.1	30.0
1,3,5-Trimethylbenzene	Ave	3.167	3.261		20.6	20.0	3.0	30.0
4-Chlorotoluene	Ave	0.9469	0.9640		20.4	20.0	1.8	30.0
tert-Butylbenzene	Ave	0.6620	0.6837		20.7	20.0	3.3	30.0
Pentachloroethane	Ave	0.4224	0.4418		20.9	20.0	4.6	30.0
1,2,4-Trimethylbenzene	Ave	3.255	3.365		20.7	20.0	3.4	30.0
sec-Butylbenzene	Ave	4.040	4.275		21.2	20.0	5.8	30.0
1,3-Dichlorobenzene	Ave	1.835	1.862	0.6000	20.3	20.0	1.5	30.0
p-Isopropyltoluene	Ave	3.427	3.684		21.5	20.0	7.5	30.0
1,4-Dichlorobenzene	Ave	1.895	1.927	0.5000	20.3	20.0	1.7	30.0
1,2,3-Trimethylbenzene	Ave	3.247	3.544		21.8	20.0	9.1	30.0
Benzyl chloride	Ave	2.605	2.630		20.2	20.0	0.9	30.0
1,3-Diethylbenzene	Ave	2.063	2.188		21.2	20.0	6.1	30.0
1,4-Diethylbenzene	Ave	2.166	2.331		21.5	20.0	7.6	30.0
n-Butylbenzene	Ave	1.830	1.883		20.6	20.0	2.9	30.0
1,2-Dichlorobenzene	Ave	1.801	1.829	0.4000	20.3	20.0	1.6	30.0
1,2-Diethylbenzene	Ave	1.729	1.837		21.2	20.0	6.2	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.3263	0.3195	0.0500	19.6	20.0	-2.1	30.0
1,3,5-Trichlorobenzene	Ave	1.416	1.419		20.0	20.0	0.2	30.0
1,2,4-Trichlorobenzene	Ave	1.320	1.330	0.2000	20.1	20.0	0.7	30.0
Hexachlorobutadiene	Ave	0.6100	0.6102		20.0	20.0	0.0	30.0
Naphthalene	Ave	4.431	4.587		20.7	20.0	3.5	30.0
1,2,3-Trichlorobenzene	Ave	1.286	1.285		20.0	20.0	-0.0	30.0
2-Methylnaphthalene	Ave	2.499	2.464		19.7	20.0	-1.4	30.0
Dibromofluoromethane (Surr)	Ave	0.2248	0.2228		49.6	50.0	-0.9	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0618	0.0620		50.1	50.0	0.3	30.0
Toluene-d8 (Surr)	Ave	1.355	1.346		49.7	50.0	-0.7	30.0
4-Bromofluorobenzene (Surr)	Ave	0.5083	0.4984		49.0	50.0	-1.9	30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21v01.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 21-Sep-2020 17:00:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0010935-011
Misc. Info.: ICV
Operator ID: kas02648 Instrument ID: 9355
Sublist:

Method: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 21-Sep-2020 18:09:37 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1029

First Level Reviewer: campbellme Date: 21-Sep-2020 17:43:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.025	2.044	-0.019	99	136445	20.0	16.5	M
4 Chloromethane	50	2.238	2.257	-0.019	99	154336	20.0	18.0	
5 Butadiene	39	2.354	2.366	-0.012	92	137870	20.0	22.8	
6 Vinyl chloride	62	2.360	2.378	-0.018	97	151889	20.0	19.0	
8 Bromomethane	94	2.682	2.701	-0.019	90	95636	20.0	17.2	
9 Chloroethane	64	2.774	2.792	-0.018	100	83311	20.0	16.9	
10 Dichlorofluoromethane	67	3.017	3.029	-0.012	97	208137	20.0	18.7	
11 Trichlorofluoromethane	101	3.096	3.121	-0.025	98	181286	20.0	18.3	M
12 Pentane	43	3.133	3.151	-0.018	96	176751	20.0	18.1	
14 Ethyl ether	59	3.345	3.364	-0.019	90	138178	20.0	18.7	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.412	3.431	-0.019	93	163124	20.0	20.2	
16 Acrolein	56	3.510	3.528	-0.018	100	446090	149.7	145.3	
17 1,1-Dichloroethene	96	3.668	3.680	-0.012	97	126234	20.0	21.6	
18 Acetone	58	3.686	3.692	-0.006	100	235875	150.0	148.3	
19 112TCTFE	101	3.698	3.723	-0.025	91	118435	20.0	19.7	
20 Isopropyl alcohol	45	3.857	3.863	-0.007	97	155602	150.0	136.2	
21 Iodomethane	142	3.881	3.893	-0.012	97	211869	20.0	20.1	
22 Carbon disulfide	76	3.996	4.009	-0.013	99	426632	20.0	20.7	
24 Methyl acetate	43	4.118	4.137	-0.019	98	212021	20.0	20.3	
25 3-Chloro-1-propene	41	4.155	4.173	-0.018	94	219391	20.0	19.9	
* 26 t-Butyl alcohol-d10 (IS)	65	4.343	4.356	-0.013	97	375114	250.0	250.0	
27 Methylene Chloride	84	4.349	4.368	-0.019	93	152057	20.0	20.5	
28 2-Methyl-2-propanol	59	4.477	4.477	0.000	98	388278	200.0	191.4	
30 Acrylonitrile	53	4.672	4.684	-0.012	99	550690	100.0	97.0	
31 Methyl tert-butyl ether	73	4.769	4.781	-0.012	96	438334	20.0	19.3	
32 trans-1,2-Dichloroethene	96	4.781	4.800	-0.019	98	140778	20.0	20.3	
33 Hexane	57	5.207	5.219	-0.012	91	228551	20.0	20.9	
36 1,1-Dichloroethane	63	5.432	5.444	-0.012	96	256033	20.0	20.0	
37 Isopropyl ether	45	5.487	5.499	-0.012	94	471249	20.0	19.8	
38 2-Chloro-1,3-butadiene	53	5.542	5.554	-0.012	90	210882	20.0	20.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	6.022	6.035	-0.013	97	434765	20.0	19.8	
41 2-Butanone (MEK)	43	6.217	6.229	-0.012	100	1176596	150.0	153.6	
42 cis-1,2-Dichloroethene	96	6.260	6.266	-0.006	83	167300	20.0	21.2	
44 2,2-Dichloropropane	77	6.272	6.284	-0.012	88	193564	20.0	20.6	
45 Propionitrile	54	6.290	6.296	-0.006	99	344317	150.0	149.8	
46 Methacrylonitrile	67	6.515	6.521	-0.006	92	848402	150.0	154.3	
47 Chlorobromomethane	128	6.594	6.600	-0.006	95	75531	20.0	19.2	
48 Tetrahydrofuran	71	6.612	6.619	-0.007	91	213738	100.0	101.4	
49 Chloroform	83	6.740	6.746	-0.006	93	238265	20.0	19.9	
$ 50 Dibromofluoromethane (Surr)	113	6.959	6.959	0.000	94	271885	50.0	49.6	
51 1,1,1-Trichloroethane	97	6.977	6.984	-0.007	98	196788	20.0	19.8	
52 Cyclohexane	56	7.087	7.093	-0.006	90	265106	20.0	20.5	
53 1,1-Dichloropropene	75	7.190	7.197	-0.007	97	202160	20.0	20.2	
54 Carbon tetrachloride	117	7.196	7.203	-0.007	97	167094	20.0	20.2	
55 Isobutyl alcohol	41	7.300	7.306	-0.006	96	319422	500.0	474.7	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.415	7.422	-0.007	98	75617	50.0	50.1	
57 Benzene	78	7.452	7.458	-0.006	96	614187	20.0	19.8	
59 1,2-Dichloroethane	62	7.519	7.525	-0.006	97	199470	20.0	19.7	
60 Tert-amyl methyl ether	73	7.640	7.647	-0.007	97	431029	20.0	20.0	
* 62 Fluorobenzene (IS)	96	7.853	7.860	-0.007	98	1220222	50.0	50.0	
63 n-Heptane	43	7.866	7.878	-0.012	93	250328	20.0	20.0	
64 n-Butanol	56	8.182	8.182	0.000	88	573099	1000.0	961.8	
65 Trichloroethene	95	8.340	8.340	0.000	98	150572	20.0	19.9	
66 Methylcyclohexane	83	8.656	8.657	-0.001	95	276665	20.0	20.9	
67 1,2-Dichloropropane	63	8.669	8.669	0.000	73	165116	20.0	20.6	
34 2-ethoxy-2-methyl butane	87	8.669	8.675	-0.006	92	219981	20.0	20.4	
68 Methyl methacrylate	69	8.736	8.736	0.000	91	166011	20.0	20.5	M
69 1,4-Dioxane	88	8.754	8.754	0.000	92	64109	500.0	499.2	M
70 Dibromomethane	93	8.778	8.784	-0.006	97	99553	20.0	20.2	
72 Dichlorobromomethane	83	9.009	9.009	0.000	100	176329	20.0	19.9	
73 2-Nitropropane	41	9.253	9.253	0.000	98	60376	20.0	18.4	
74 2-Chloroethyl vinyl ether	63	9.356	9.356	0.000	91	128729	20.0	20.7	
75 cis-1,3-Dichloropropene	75	9.545	9.545	0.000	96	244646	20.0	19.9	
76 4-Methyl-2-pentanone (MIBK)	43	9.697	9.697	0.000	96	1439286	100.0	102.3	
$ 77 Toluene-d8 (Surr)	98	9.849	9.855	-0.006	93	1207127	50.0	49.7	
78 Toluene	92	9.928	9.928	0.000	98	387951	20.0	19.9	
80 trans-1,3-Dichloropropene	75	10.171	10.171	0.000	92	224068	20.0	19.7	
81 Ethyl methacrylate	69	10.226	10.232	-0.006	90	259288	20.0	20.5	
82 1,1,2-Trichloroethane	97	10.378	10.378	0.000	90	154549	20.0	20.7	
83 Tetrachloroethene	166	10.475	10.476	-0.001	97	185835	20.0	20.1	
84 1,3-Dichloropropane	76	10.536	10.536	0.000	90	262188	20.0	19.9	
86 2-Hexanone	43	10.573	10.579	-0.006	97	1169365	100.0	103.8	
88 Chlorodibromomethane	129	10.755	10.762	-0.007	90	146413	20.0	20.0	
89 Ethylene Dibromide	107	10.871	10.871	0.000	98	161234	20.0	20.0	
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	86	896783	50.0	50.0	
92 1-Chlorohexane	91	11.297	11.297	0.000	98	204422	20.0	19.5	
93 Chlorobenzene	112	11.321	11.321	0.000	95	433840	20.0	20.0	
94 1,1,1,2-Tetrachloroethane	131	11.400	11.400	0.000	95	137224	20.0	19.8	
95 Ethylbenzene	91	11.406	11.406	0.000	98	732118	20.0	20.2	
96 m-Xylene & p-Xylene	106	11.522	11.522	0.000	100	586808	40.0	41.3	
97 o-Xylene	106	11.844	11.844	0.000	96	283245	20.0	20.6	
98 Styrene	104	11.862	11.863	-0.001	95	470060	20.0	20.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 Bromoform	173	12.027	12.027	0.000	97	105032	20.0	19.1	
100 Isopropylbenzene	105	12.142	12.143	0.000	96	726301	20.0	20.7	
102 Cyclohexanone	55	12.215	12.216	-0.001	91	235401	500.0	397.7	
$ 103 4-Bromofluorobenzene (Surr)	95	12.288	12.295	-0.007	89	446996	50.0	49.0	
104 1,1,2,2-Tetrachloroethane	83	12.380	12.380	0.000	92	259760	20.0	20.3	
106 trans-1,4-Dichloro-2-butene	53	12.404	12.404	0.000	90	448000	100.0	102.7	
105 Bromobenzene	156	12.410	12.410	0.000	72	186763	20.0	20.4	
107 1,2,3-Trichloropropane	110	12.428	12.428	0.000	81	81016	20.0	20.3	
108 N-Propylbenzene	91	12.471	12.471	0.000	99	889175	20.0	20.9	
109 2-Chlorotoluene	126	12.550	12.550	0.000	97	176267	20.0	20.0	
110 1,3,5-Trimethylbenzene	105	12.605	12.605	0.000	94	630882	20.0	20.6	
111 4-Chlorotoluene	126	12.641	12.641	0.000	97	186479	20.0	20.4	
113 tert-Butylbenzene	134	12.848	12.848	0.000	93	132252	20.0	20.7	
114 Pentachloroethane	167	12.885	12.885	0.000	90	85456	20.0	20.9	
115 1,2,4-Trimethylbenzene	105	12.891	12.891	0.000	97	650973	20.0	20.7	
116 sec-Butylbenzene	105	13.012	13.012	0.000	94	826926	20.0	21.2	
117 1,3-Dichlorobenzene	146	13.116	13.116	0.000	97	360283	20.0	20.3	
118 4-Isopropyltoluene	119	13.122	13.122	0.000	97	712574	20.0	21.5	
* 119 1,4-Dichlorobenzene-d4	152	13.170	13.171	-0.001	95	483606	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.189	13.189	0.000	94	372829	20.0	20.3	
120 1,2,3-Trimethylbenzene	105	13.195	13.195	0.000	98	685653	20.0	21.8	
122 Benzyl chloride	91	13.262	13.262	0.000	98	508685	20.0	20.2	
123 1,3-Diethylbenzene	119	13.323	13.323	0.000	95	423278	20.0	21.2	
124 p-Diethylbenzene	119	13.396	13.396	0.000	94	450897	20.0	21.5	
125 n-Butylbenzene	92	13.414	13.414	0.000	97	364302	20.0	20.6	
126 1,2-Dichlorobenzene	146	13.450	13.450	0.000	98	353852	20.0	20.3	
127 o-diethylbenzene	119	13.462	13.463	-0.001	95	355302	20.0	21.2	
129 1,2-Dibromo-3-Chloropropane	75	13.992	13.986	0.006	85	61814	20.0	19.6	
130 1,3,5-Trichlorobenzene	180	14.120	14.120	0.000	98	274475	20.0	20.0	
131 1,2,4-Trichlorobenzene	180	14.545	14.546	-0.001	94	257276	20.0	20.1	
132 Hexachlorobutadiene	225	14.624	14.625	-0.001	97	118041	20.0	20.0	
133 Naphthalene	128	14.722	14.722	0.000	97	887264	20.0	20.7	
134 1,2,3-Trichlorobenzene	180	14.868	14.868	0.000	96	248625	20.0	20.0	
135 2-Methylnaphthalene	142	15.513	15.513	0.000	93	476718	20.0	19.7	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_QCYC_00004	Amount Added:	50.00	Units: uL	
MSV_Q_EE_00002	Amount Added:	50.00	Units: uL	
MSV_Q_QVOA1_00047	Amount Added:	50.00	Units: uL	
MSV_Q_QARC_00046	Amount Added:	50.00	Units: uL	
MSV_Q_QVOA6_00044	Amount Added:	50.00	Units: uL	
MSV_Q_QGases_00088	Amount Added:	50.00	Units: uL	
MSV_Q_QDCFM_00004	Amount Added:	50.00	Units: uL	
MSV_HP20_ISSS_00025	Amount Added:	1.00	Units: uL	Run Reagent

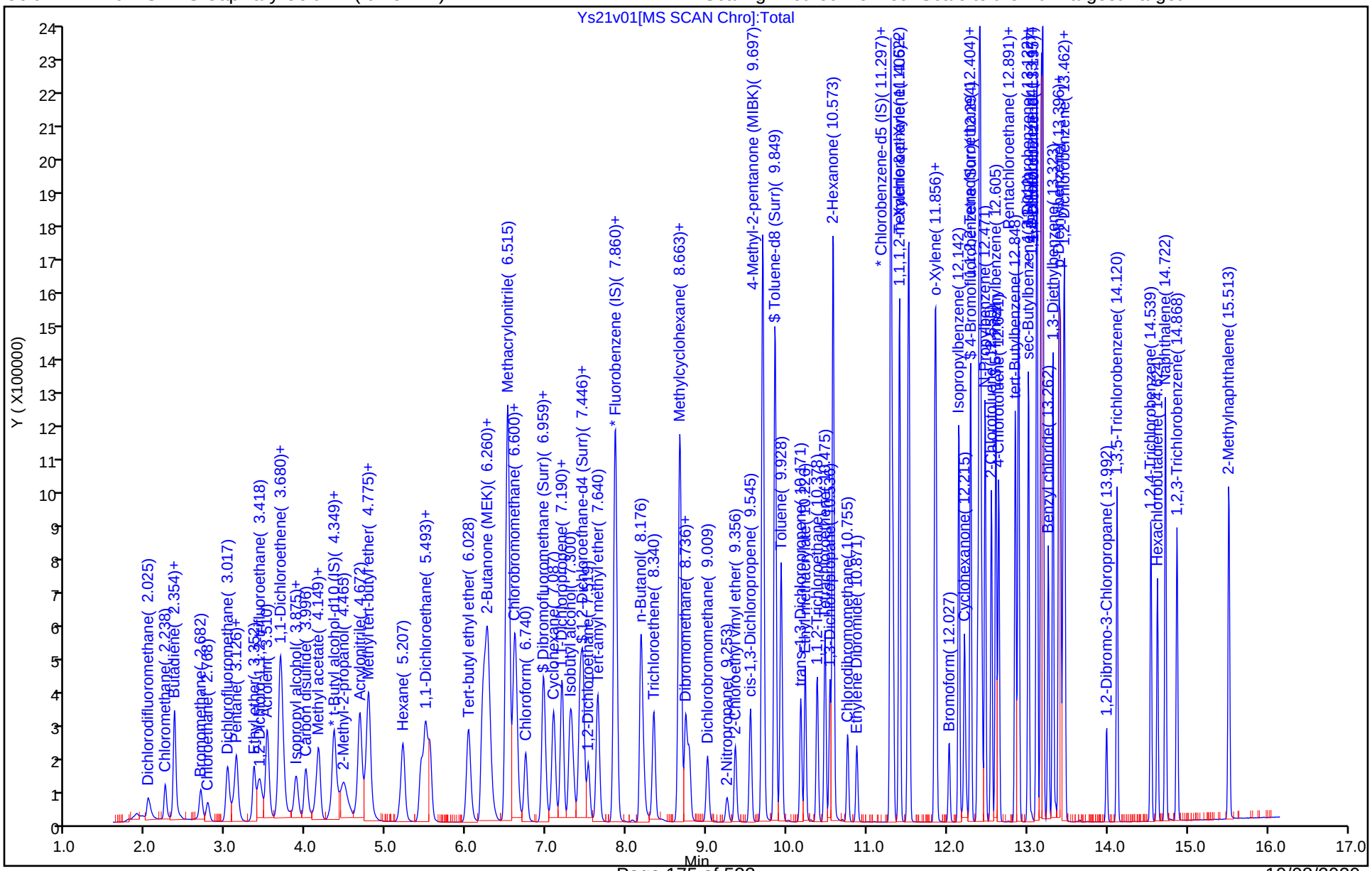
Report Date: 21-Sep-2020 18:09:41 Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21v01.D

Injection Date:	21-Sep-2020 17:00:30	Instrument ID:	9355	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_9355	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

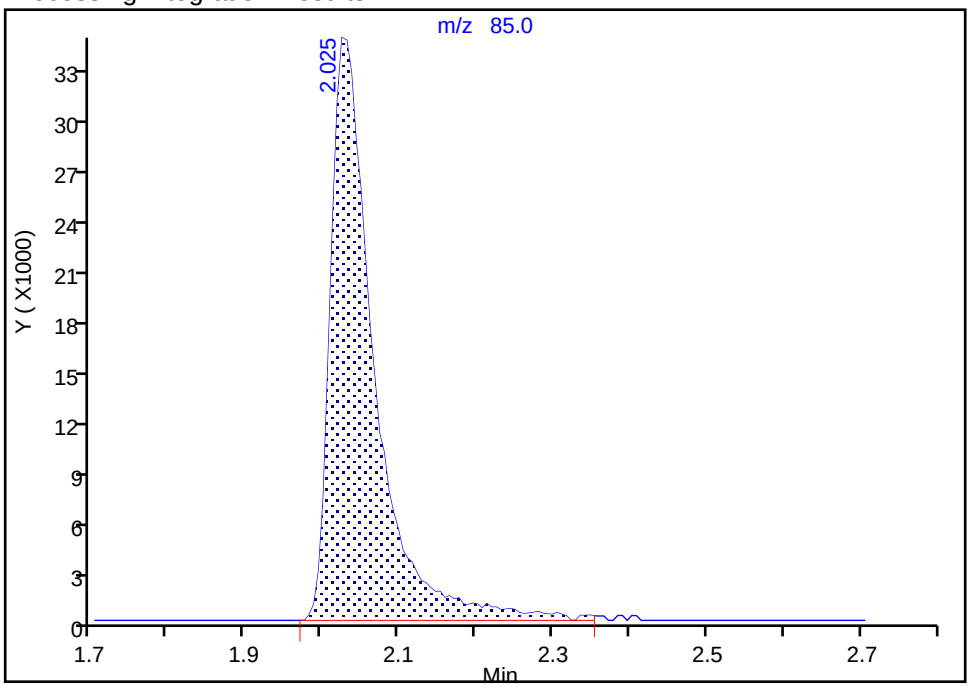
Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21v01.D
Injection Date: 21-Sep-2020 17:00:30 Instrument ID: 9355
Lims ID: ICV
Client ID:
Operator ID: kas02648 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

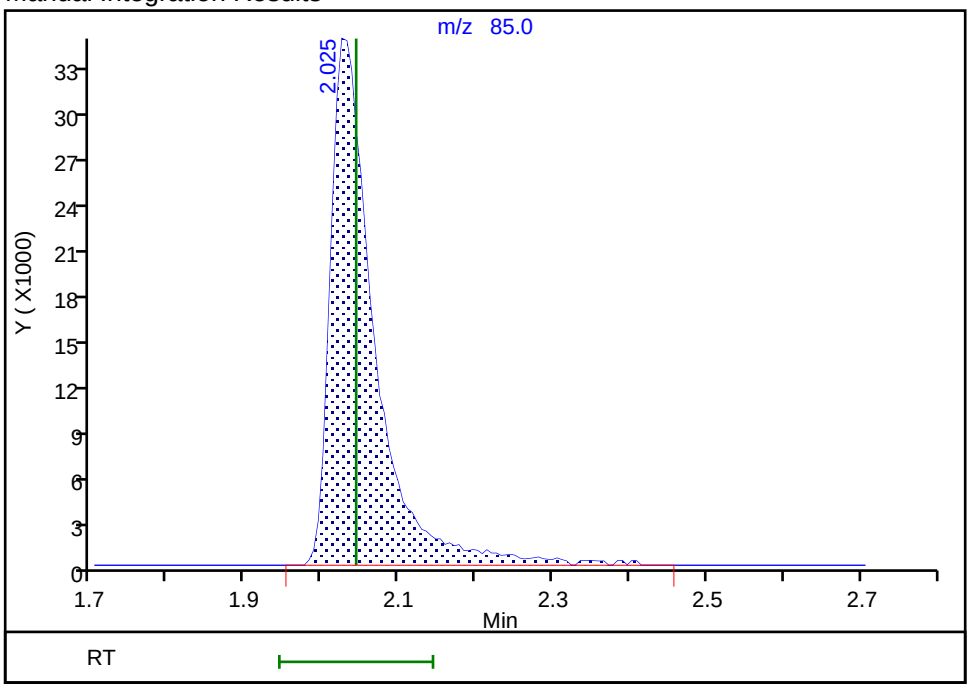
Processing Integration Results

RT: 2.03
Area: 135829
Amount: 16.406500
Amount Units: ug/l



Manual Integration Results

RT: 2.03
Area: 136445
Amount: 16.480906
Amount Units: ug/l



Reviewer: campbellme, 21-Sep-2020 17:40:34
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

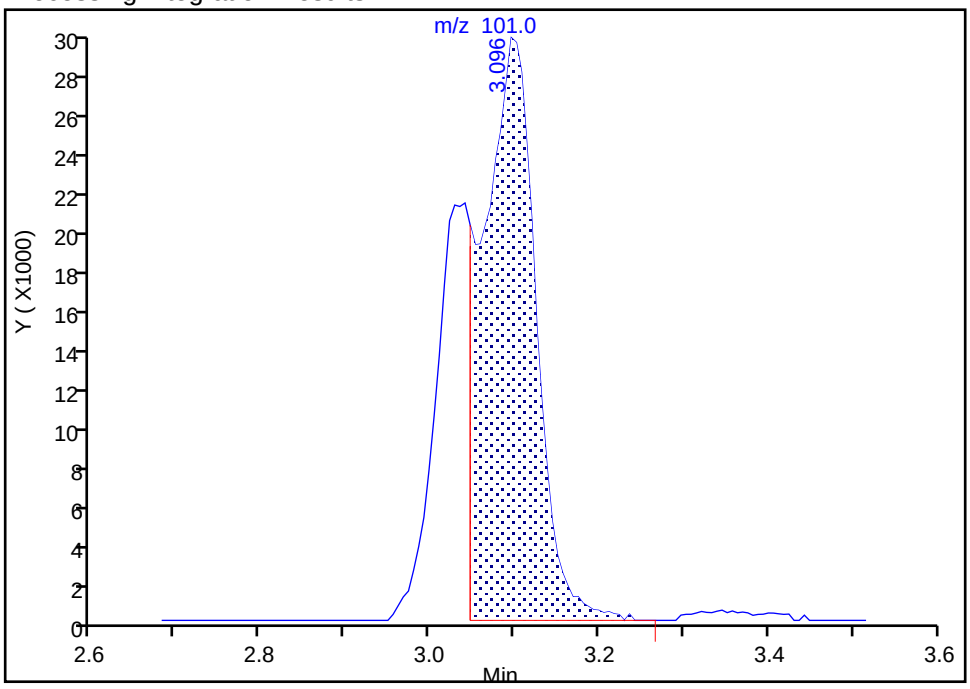
Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21v01.D
Injection Date: 21-Sep-2020 17:00:30 Instrument ID: 9355
Lims ID: ICV
Client ID:
Operator ID: kas02648 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

11 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

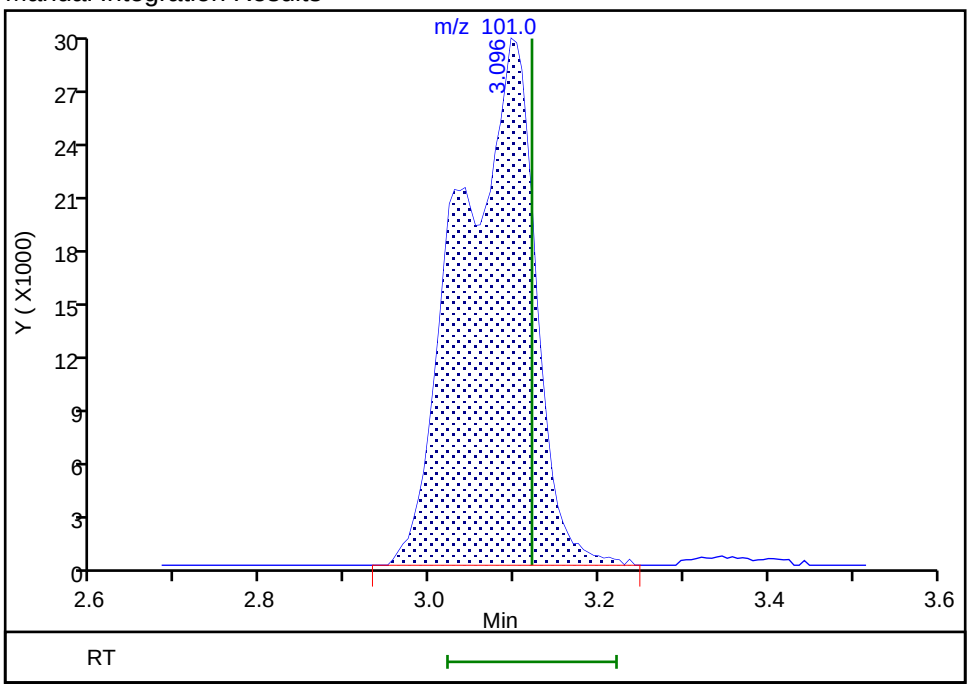
Processing Integration Results

RT: 3.10
Area: 128496
Amount: 12.981181
Amount Units: ug/l



Manual Integration Results

RT: 3.10
Area: 181286
Amount: 18.314239
Amount Units: ug/l



Reviewer: campbellme, 21-Sep-2020 17:40:43
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

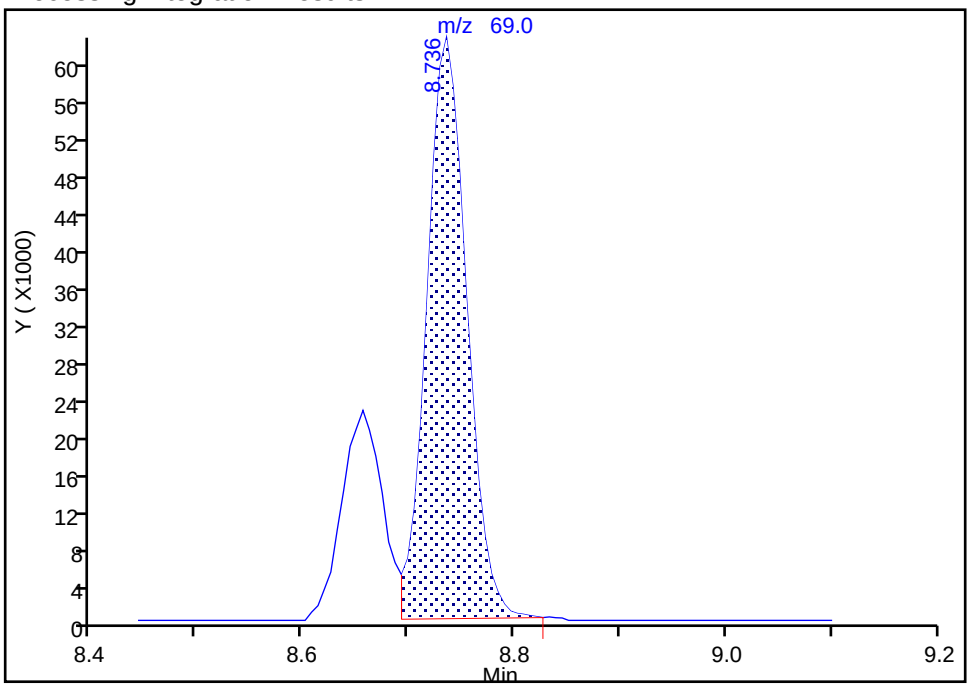
Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21v01.D
Injection Date: 21-Sep-2020 17:00:30 Instrument ID: 9355
Lims ID: ICV
Client ID:
Operator ID: kas02648 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

68 Methyl methacrylate, CAS: 80-62-6

Signal: 1

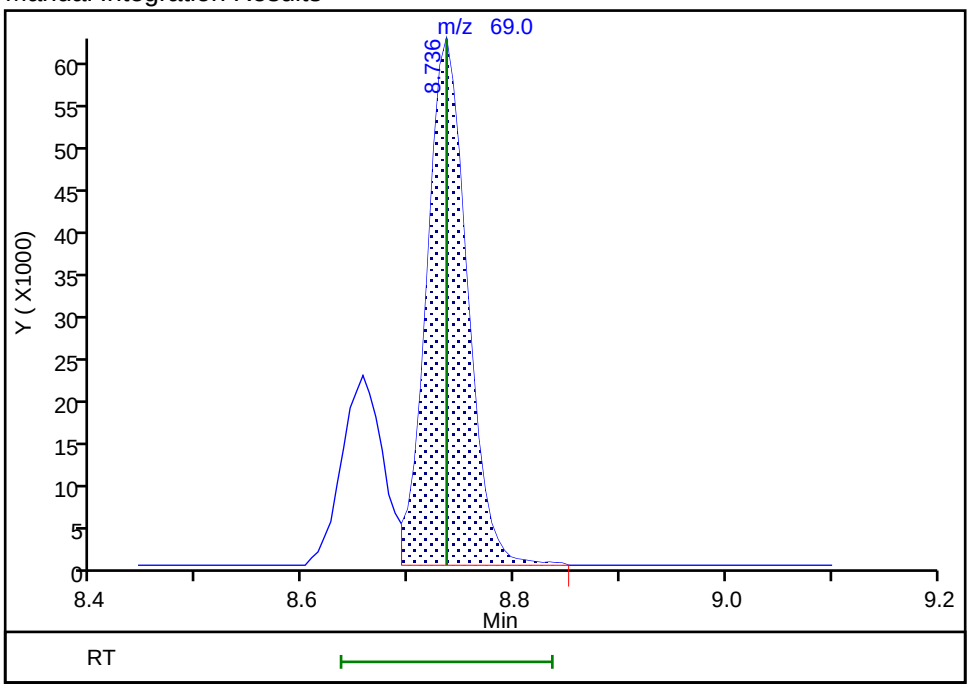
Processing Integration Results

RT: 8.74
Area: 163915
Amount: 20.277743
Amount Units: ug/l



Manual Integration Results

RT: 8.74
Area: 166011
Amount: 20.537037
Amount Units: ug/l



Reviewer: campbellme, 21-Sep-2020 17:41:10
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

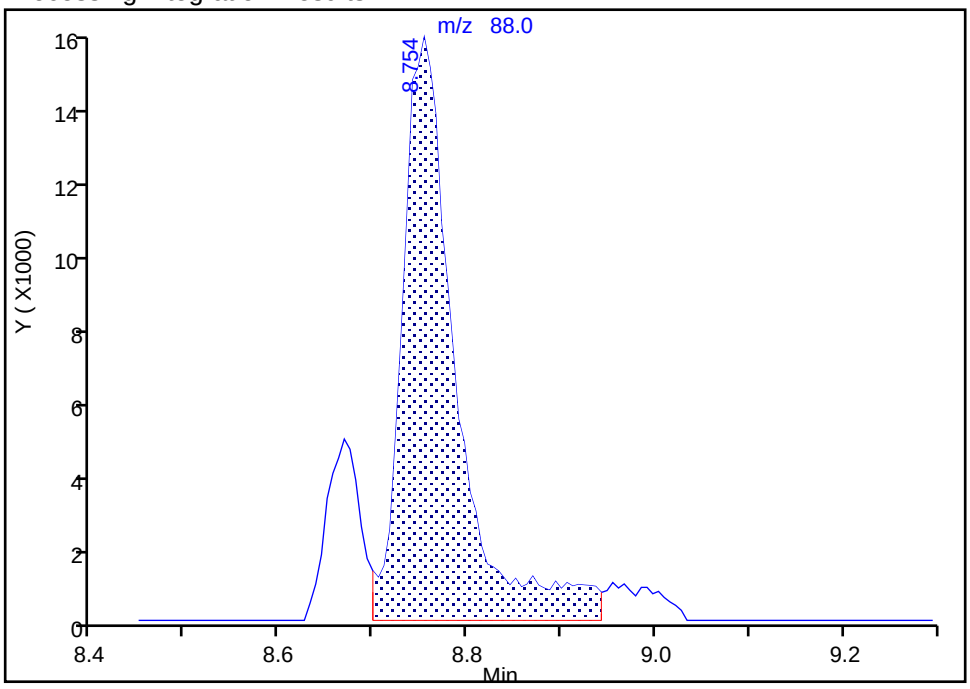
Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21v01.D
Injection Date: 21-Sep-2020 17:00:30 Instrument ID: 9355
Lims ID: ICV
Client ID:
Operator ID: kas02648 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

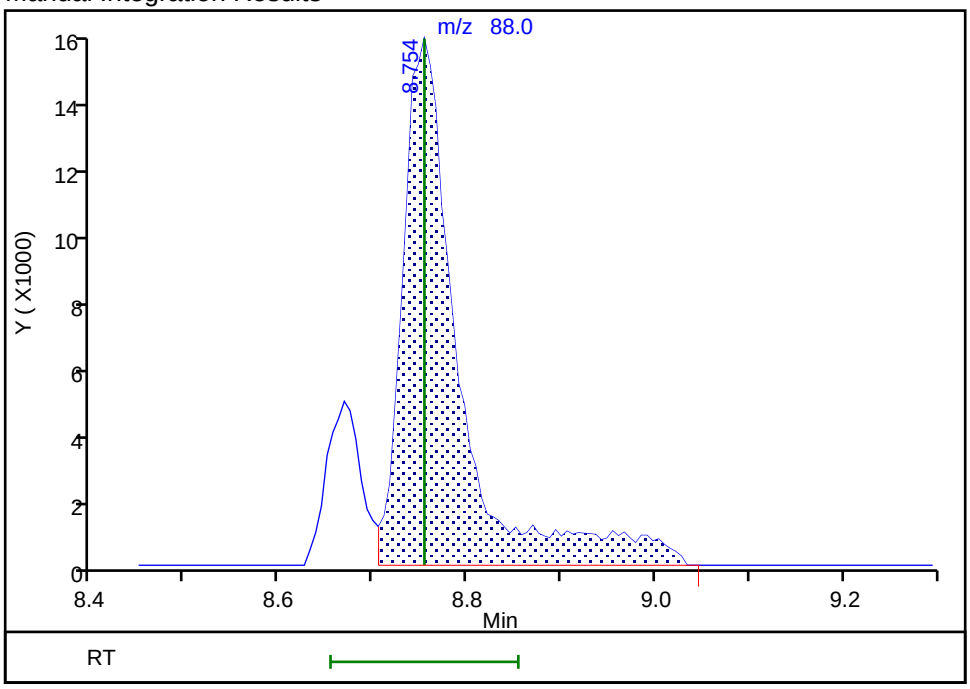
Processing Integration Results

RT: 8.75
Area: 60943
Amount: 474.5052
Amount Units: ug/l



Manual Integration Results

RT: 8.75
Area: 64109
Amount: 499.1558
Amount Units: ug/l



Reviewer: campbellme, 21-Sep-2020 17:41:23
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1

SDG No.:

Lab Sample ID: CCVIS 410-50869/3 Calibration Date: 10/05/2020 11:57

Instrument ID: 9355 Calib Start Date: 09/21/2020 14:04

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 09/21/2020 16:16

Lab File ID: YC05C01.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	0.3392	0.3047	0.1000	44.9	50.0	-10.2	20.0
Chloromethane	Ave	0.3519	0.3370	0.1000	47.9	50.0	-4.2	20.0
1,3-Butadiene	Ave	0.2475	0.4316		87.2	50.0	74.4*	20.0
Vinyl chloride	Ave	0.3269	0.3090	0.1000	47.3	50.0	-5.5	20.0
Bromomethane	Ave	0.2283	0.2147	0.1000	47.0	50.0	-5.9	20.0
Chloroethane	Ave	0.2021	0.2062	0.1000	51.0	50.0	2.0	20.0
Trichlorofluoromethane	Ave	0.4056	0.4068	0.1000	50.1	50.0	0.3	20.0
n-Pentane	Ave	0.3994	0.5050		63.2	50.0	26.5*	20.0
Ethyl ether	Ave	0.3028	0.2834		46.8	50.0	-6.4	20.0
Freon 123a	Ave	0.3309	0.3385		51.2	50.0	2.3	20.0
Acrolein	Ave	2.046	1.644		403	501	-19.6	20.0
1,1-Dichloroethene	Ave	0.2391	0.2562	0.1000	53.6	50.0	7.1	20.0
Acetone	Ave	1.060	0.9501	0.1000	89.6	100	-10.4	20.0
Freon 113	Ave	0.2468	0.2526	0.1000	51.2	50.0	2.3	20.0
2-Propanol	Ave	0.7615	0.7331		241	250	-3.7	20.0
Methyl iodide	Ave	0.4309	0.4414		51.2	50.0	2.4	20.0
Carbon disulfide	Ave	0.8426	0.8920	0.1000	52.9	50.0	5.9	20.0
Methyl acetate	Ave	0.4276	0.4945	0.1000	57.8	50.0	15.7	20.0
Allyl chloride	Ave	0.4513	0.4947		54.8	50.0	9.6	20.0
Methylene Chloride	Ave	0.3034	0.3064	0.1000	50.5	50.0	1.0	20.0
t-Butyl alcohol	Ave	1.352	1.320		244	250	-2.4	20.0
Acrylonitrile	Ave	0.2326	0.2534		54.5	50.0	9.0	20.0
Methyl tertiary butyl ether	Ave	0.9292	0.9727	0.1000	52.3	50.0	4.7	20.0
trans-1,2-Dichloroethene	Ave	0.2838	0.2990	0.1000	52.7	50.0	5.3	20.0
n-Hexane	Ave	0.4476	0.5293		59.1	50.0	18.3	20.0
1,1-Dichloroethane	Ave	0.5235	0.5567	0.2000	53.2	50.0	6.3	20.0
di-Isopropyl ether	Ave	0.9769	1.053		53.9	50.0	7.8	20.0
2-Chloro-1,3-butadiene	Ave	0.4276	0.4917		57.5	50.0	15.0	20.0
Ethyl t-butyl ether	Ave	0.8995	0.9679		53.8	50.0	7.6	20.0
2-Butanone	Ave	0.3140	0.3558	0.1000	113	100	13.3	20.0
cis-1,2-Dichloroethene	Ave	0.3229	0.3383	0.1000	52.4	50.0	4.8	20.0
2,2-Dichloropropane	Ave	0.3859	0.4130		53.5	50.0	7.0	20.0
Propionitrile	Ave	1.532	1.516		247	250	-1.1	20.0
Methacrylonitrile	Ave	0.2253	0.2523		140	125	12.0	20.0
Bromochloromethane	Ave	0.1611	0.1692		52.5	50.0	5.0	20.0
Tetrahydrofuran	Ave	1.404	1.286		91.6	100	-8.4	20.0
Chloroform	Ave	0.4916	0.5194	0.2000	52.8	50.0	5.7	20.0
1,1,1-Trichloroethane	Ave	0.4081	0.4228	0.1000	51.8	50.0	3.6	20.0
Cyclohexane	Ave	0.5289	0.5673	0.1000	53.6	50.0	7.3	20.0
1,1-Dichloropropene	Ave	0.4097	0.4443		54.2	50.0	8.4	20.0
Carbon tetrachloride	Ave	0.3383	0.3605	0.1000	53.3	50.0	6.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1

SDG No.:

Lab Sample ID: CCVIS 410-50869/3 Calibration Date: 10/05/2020 11:57

Instrument ID: 9355 Calib Start Date: 09/21/2020 14:04

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 09/21/2020 16:16

Lab File ID: YC05C01.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
Isobutyl alcohol	Ave	0.4484	0.4468		623	625	-0.4	20.0
Benzene	Ave	1.269	1.324	0.5000	52.2	50.0	4.3	20.0
1,2-Dichloroethane	Ave	0.4150	0.4465	0.1000	53.8	50.0	7.6	20.0
t-Amyl methyl ether	Ave	0.8838	0.9439		53.4	50.0	6.8	20.0
n-Heptane	Ave	0.5134	0.5949		57.9	50.0	15.9	20.0
n-Butanol	Ave	0.3971	0.4187		1320	1250	5.4	20.0
Trichloroethene	Ave	0.3108	0.3245	0.2000	52.2	50.0	4.4	20.0
Methylcyclohexane	Ave	0.5437	0.5907	0.1000	54.3	50.0	8.6	20.0
1,2-Dichloropropane	Ave	0.3282	0.3508	0.1000	53.4	50.0	6.9	20.0
t-Amyl ethyl ether	Ave	0.4418	0.4817		54.5	50.0	9.0	20.0
Methyl methacrylate	Ave	0.3312	0.3824		57.7	50.0	15.4	20.0
1,4-Dioxane	Ave	0.0856	0.0755	0.0050	551	625	-11.8	20.0
Dibromomethane	Ave	0.2015	0.2138		53.0	50.0	6.1	20.0
Bromodichloromethane	Ave	0.3630	0.4001	0.2000	55.1	50.0	10.2	20.0
2-Nitropropane	Ave	2.189	2.258		103	100	3.1	20.0
2-Chloroethyl vinyl ether	Ave	0.2551	0.2999		58.8	50.0	17.5	20.0
cis-1,3-Dichloropropene	Ave	0.5025	0.5640	0.2000	56.1	50.0	12.2	20.0
4-Methyl-2-pentanone	Ave	0.5767	0.6509	0.1000	113	100	12.9	20.0
Toluene	Ave	1.086	1.126	0.4000	51.9	50.0	3.7	20.0
trans-1,3-Dichloropropene	Ave	0.6339	0.7200	0.1000	56.8	50.0	13.6	20.0
Ethyl methacrylate	Ave	0.7038	0.8198		58.2	50.0	16.5	20.0
1,1,2-Trichloroethane	Ave	0.4171	0.4407	0.1000	52.8	50.0	5.7	20.0
Tetrachloroethene	Ave	0.5158	0.4639	0.2000	45.0	50.0	-10.1	20.0
1,3-Dichloropropane	Ave	0.7334	0.7799		53.2	50.0	6.3	20.0
2-Hexanone	Ave	0.6281	0.7335	0.1000	117	100	16.8	20.0
Dibromochloromethane	Ave	0.4084	0.4435		54.3	50.0	8.6	20.0
1,2-Dibromoethane	Ave	0.4486	0.4902	0.1000	54.6	50.0	9.3	20.0
1-Chlorohexane	Ave	0.5859	0.6245		53.3	50.0	6.6	20.0
Chlorobenzene	Ave	1.211	1.246	0.5000	51.5	50.0	2.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3862	0.3932		50.9	50.0	1.8	20.0
Ethylbenzene	Ave	2.023	2.151	0.1000	53.2	50.0	6.3	20.0
m&p-Xylene	Ave	0.7921	0.8355	0.1000	105	100	5.5	20.0
o-Xylene	Ave	0.7667	0.8017	0.3000	52.3	50.0	4.6	20.0
Styrene	Ave	1.256	1.396	0.3000	55.6	50.0	11.1	20.0
Bromoform	Ave	0.3061	0.3361	0.1000	54.9	50.0	9.8	20.0
Isopropylbenzene	Ave	1.958	2.050	0.1000	52.4	50.0	4.7	20.0
Cyclohexanone	Ave	0.3944	0.3793		601	625	-3.8	20.0
1,1,2,2-Tetrachloroethane	Ave	1.325	1.414	0.3000	53.4	50.0	6.7	20.0
trans-1,4-Dichloro-2-butene	Ave	0.4511	0.3379		93.6	125	-25.1*	20.0
Bromobenzene	Ave	0.9479	1.008		53.2	50.0	6.3	20.0
1,2,3-Trichloropropane	Ave	0.4123	0.4436		53.8	50.0	7.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1

SDG No.:

Lab Sample ID: CCVIS 410-50869/3 Calibration Date: 10/05/2020 11:57

Instrument ID: 9355 Calib Start Date: 09/21/2020 14:04

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 09/21/2020 16:16

Lab File ID: YC05C01.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
N-Propylbenzene	Ave	4.402	4.793		54.4	50.0	8.9	20.0
2-Chlorotoluene	Ave	0.9123	0.9500		52.1	50.0	4.1	20.0
1,3,5-Trimethylbenzene	Ave	3.167	3.398		53.7	50.0	7.3	20.0
4-Chlorotoluene	Ave	0.9469	1.014		53.6	50.0	7.1	20.0
tert-Butylbenzene	Ave	0.6620	0.7081		53.5	50.0	7.0	20.0
Pentachloroethane	Ave	0.4224	0.5458		64.6	50.0	29.2*	20.0
1,2,4-Trimethylbenzene	Ave	3.255	3.507		53.9	50.0	7.8	20.0
sec-Butylbenzene	Ave	4.040	4.367		54.0	50.0	8.1	20.0
1,3-Dichlorobenzene	Ave	1.835	1.914	0.6000	52.2	50.0	4.3	20.0
p-Isopropyltoluene	Ave	3.427	3.733		54.5	50.0	8.9	20.0
1,4-Dichlorobenzene	Ave	1.895	1.946	0.5000	51.3	50.0	2.7	20.0
1,2,3-Trimethylbenzene	Ave	3.247	3.407		52.5	50.0	4.9	20.0
Benzyl chloride	Ave	2.605	3.025		58.1	50.0	16.1	20.0
1,3-Diethylbenzene	Ave	2.063	2.215		53.7	50.0	7.4	20.0
1,4-Diethylbenzene	Ave	2.166	2.349		54.2	50.0	8.5	20.0
n-Butylbenzene	Ave	1.830	1.971		53.8	50.0	7.7	20.0
1,2-Dichlorobenzene	Ave	1.801	1.809	0.4000	50.2	50.0	0.5	20.0
1,2-Diethylbenzene	Ave	1.729	1.808		52.3	50.0	4.6	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.3263	0.3588	0.0500	55.0	50.0	10.0	20.0
1,3,5-Trichlorobenzene	Ave	1.416	1.367		48.3	50.0	-3.5	20.0
1,2,4-Trichlorobenzene	Ave	1.320	1.227	0.2000	46.5	50.0	-7.0	20.0
Hexachlorobutadiene	Ave	0.6100	0.5715		46.8	50.0	-6.3	20.0
Naphthalene	Ave	4.431	4.393		49.6	50.0	-0.9	20.0
1,2,3-Trichlorobenzene	Ave	1.286	1.184		46.0	50.0	-8.0	20.0
2-Methylnaphthalene	Ave	2.499	2.613		52.3	50.0	4.5	20.0
Dibromofluoromethane (Surr)	Ave	0.2248	0.2258		50.2	50.0	0.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0618	0.0621		50.3	50.0	0.5	20.0
Toluene-d8 (Surr)	Ave	1.355	1.352		49.9	50.0	-0.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5083	0.5042		49.6	50.0	-0.8	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05C01.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 05-Oct-2020 11:57:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0012071-003
Misc. Info.: CCVIS
Operator ID: kas02648 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub10

Method: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 05-Oct-2020 12:50:51 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1026

First Level Reviewer: spositok Date: 05-Oct-2020 12:46:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.062	2.062	0.000	99	445983	50.0	44.9	
4 Chloromethane	50	2.269	2.269	0.000	99	493261	50.0	47.9	
5 Butadiene	39	2.384	2.384	0.000	91	631650	50.0	87.2	
6 Vinyl chloride	62	2.384	2.384	0.000	98	452331	50.0	47.3	
8 Bromomethane	94	2.719	2.719	0.000	90	314303	50.0	47.0	
9 Chloroethane	64	2.810	2.810	0.000	100	301757	50.0	51.0	
11 Trichlorofluoromethane	101	3.120	3.120	0.000	98	595346	50.0	50.1	
12 Pentane	43	3.157	3.157	0.000	97	739188	50.0	63.2	
14 Ethyl ether	59	3.376	3.376	0.000	92	414677	50.0	46.8	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.449	3.449	0.000	94	495494	50.0	51.2	
16 Acrolein	56	3.540	3.540	0.000	99	1779811	500.9	402.6	
17 1,1-Dichloroethene	96	3.698	3.698	0.000	98	374936	50.0	53.6	
18 Acetone	58	3.710	3.710	0.000	100	205312	100.0	89.6	
19 112TCTFE	101	3.735	3.735	0.000	94	369727	50.0	51.2	Ma
20 Isopropyl alcohol	45	3.875	3.875	0.000	99	396079	250.0	240.7	
21 Iodomethane	142	3.911	3.911	0.000	97	646091	50.0	51.2	
22 Carbon disulfide	76	4.033	4.033	0.000	99	1305508	50.0	52.9	
24 Methyl acetate	43	4.142	4.142	0.000	98	723765	50.0	57.8	
25 3-Chloro-1-propene	41	4.185	4.185	0.000	93	724035	50.0	54.8	
* 26 t-Butyl alcohol-d10 (IS)	65	4.361	4.361	0.000	96	540259	250.0	250.0	
27 Methylene Chloride	84	4.380	4.380	0.000	93	448421	50.0	50.5	
28 2-Methyl-2-propanol	59	4.489	4.489	0.000	99	713266	250.0	244.1	
30 Acrylonitrile	53	4.690	4.690	0.000	99	370913	50.0	54.5	
31 Methyl tert-butyl ether	73	4.793	4.793	0.000	96	1423647	50.0	52.3	
32 trans-1,2-Dichloroethene	96	4.812	4.812	0.000	98	437564	50.0	52.7	
33 Hexane	57	5.225	5.225	0.000	93	774704	50.0	59.1	
36 1,1-Dichloroethane	63	5.450	5.450	0.000	96	814757	50.0	53.2	
37 Isopropyl ether	45	5.505	5.505	0.000	94	1541767	50.0	53.9	
38 2-Chloro-1,3-butadiene	53	5.560	5.560	0.000	90	719722	50.0	57.5	
39 Tert-butyl ethyl ether	59	6.040	6.040	0.000	98	1416652	50.0	53.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43	6.229	6.229	0.000	100	1041512	100.0	113.3	
42 cis-1,2-Dichloroethene	96	6.272	6.272	0.000	83	495113	50.0	52.4	
44 2,2-Dichloropropane	77	6.296	6.296	0.000	89	604429	50.0	53.5	
45 Propionitrile	54	6.302	6.302	0.000	99	818791	250.0	247.3	
46 Methacrylonitrile	67	6.527	6.527	0.000	92	923343	125.0	140.0	
47 Chlorobromomethane	128	6.606	6.606	0.000	97	247624	50.0	52.5	
48 Tetrahydrofuran	71	6.625	6.625	0.000	92	277843	100.0	91.6	
49 Chloroform	83	6.752	6.752	0.000	93	760224	50.0	52.8	
$ 50 Dibromofluoromethane (Surr)	113	6.965	6.965	0.000	94	330440	50.0	50.2	
51 1,1,1-Trichloroethane	97	6.990	6.990	0.000	99	618755	50.0	51.8	
52 Cyclohexane	56	7.099	7.099	0.000	91	830268	50.0	53.6	
53 1,1-Dichloropropene	75	7.202	7.202	0.000	98	650241	50.0	54.2	
54 Carbon tetrachloride	117	7.209	7.209	0.000	97	527649	50.0	53.3	
55 Isobutyl alcohol	41	7.306	7.306	0.000	95	603525	625.0	622.8	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.428	7.428	0.000	98	90906	50.0	50.3	
57 Benzene	78	7.464	7.464	0.000	96	1938413	50.0	52.2	
59 1,2-Dichloroethane	62	7.531	7.531	0.000	97	653573	50.0	53.8	
60 Tert-amyl methyl ether	73	7.647	7.647	0.000	98	1381537	50.0	53.4	
* 62 Fluorobenzene (IS)	96	7.859	7.859	0.000	99	1463635	50.0	50.0	
63 n-Heptane	43	7.878	7.878	0.000	93	870718	50.0	57.9	
64 n-Butanol	56	8.188	8.188	0.000	89	1130953	1250.0	1317.8	
65 Trichloroethene	95	8.346	8.346	0.000	99	474975	50.0	52.2	
66 Methylcyclohexane	83	8.663	8.663	0.000	93	864571	50.0	54.3	
67 1,2-Dichloropropane	63	8.675	8.675	0.000	73	513474	50.0	53.4	
34 2-ethoxy-2-methyl butane	87	8.675	8.675	0.000	94	704984	50.0	54.5	
68 Methyl methacrylate	69	8.742	8.742	0.000	92	559654	50.0	57.7	
69 1,4-Dioxane	88	8.754	8.754	0.000	92	101972	625.0	551.3	
70 Dibromomethane	93	8.784	8.784	0.000	97	312911	50.0	53.0	
72 Dichlorobromomethane	83	9.015	9.015	0.000	99	585590	50.0	55.1	
73 2-Nitropropane	41	9.253	9.253	0.000	97	487874	100.0	103.1	
74 2-Chloroethyl vinyl ether	63	9.356	9.356	0.000	91	438884	50.0	58.8	
75 cis-1,3-Dichloropropene	75	9.545	9.545	0.000	96	825547	50.0	56.1	
76 4-Methyl-2-pentanone (MIBK)	43	9.703	9.703	0.000	96	1905286	100.0	112.9	
$ 77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	94	1452541	50.0	49.9	
78 Toluene	92	9.928	9.928	0.000	98	1209862	50.0	51.9	
80 trans-1,3-Dichloropropene	75	10.171	10.171	0.000	92	773326	50.0	56.8	
81 Ethyl methacrylate	69	10.232	10.232	0.000	90	880480	50.0	58.2	
82 1,1,2-Trichloroethane	97	10.378	10.378	0.000	90	473310	50.0	52.8	
83 Tetrachloroethene	166	10.475	10.475	0.000	97	498218	50.0	45.0	
84 1,3-Dichloropropane	76	10.536	10.536	0.000	91	837578	50.0	53.2	
86 2-Hexanone	43	10.579	10.579	0.000	96	1575581	100.0	116.8	
88 Chlorodibromomethane	129	10.761	10.761	0.000	90	476332	50.0	54.3	
89 Ethylene Dibromide	107	10.871	10.871	0.000	98	526479	50.0	54.6	
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	87	1074019	50.0	50.0	
92 1-Chlorohexane	91	11.297	11.297	0.000	98	670755	50.0	53.3	
93 Chlorobenzene	112	11.321	11.321	0.000	94	1338283	50.0	51.5	
94 1,1,1,2-Tetrachloroethane	131	11.406	11.406	0.000	96	422307	50.0	50.9	
95 Ethylbenzene	91	11.406	11.406	0.000	98	2310592	50.0	53.2	
96 m-Xylene & p-Xylene	106	11.522	11.522	0.000	100	1794641	100.0	105.5	
97 o-Xylene	106	11.844	11.844	0.000	96	861055	50.0	52.3	
98 Styrene	104	11.862	11.862	0.000	95	1499155	50.0	55.6	
99 Bromoform	173	12.027	12.027	0.000	97	360981	50.0	54.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 Isopropylbenzene	105	12.148	12.148	0.000	96	2201835	50.0	52.4	
102 Cyclohexanone	55	12.215	12.215	0.000	92	512259	625.0	601.0	
$ 103 4-Bromofluorobenzene (Surr)	95	12.294	12.294	0.000	89	541494	50.0	49.6	
104 1,1,2,2-Tetrachloroethane	83	12.380	12.380	0.000	93	797858	50.0	53.4	
106 trans-1,4-Dichloro-2-butene	53	12.404	12.404	0.000	94	476683	125.0	93.6	
105 Bromobenzene	156	12.410	12.410	0.000	95	568840	50.0	53.2	
107 1,2,3-Trichloropropane	110	12.428	12.428	0.000	82	250339	50.0	53.8	
108 N-Propylbenzene	91	12.471	12.471	0.000	99	2704708	50.0	54.4	
109 2-Chlorotoluene	126	12.550	12.550	0.000	96	536093	50.0	52.1	
110 1,3,5-Trimethylbenzene	105	12.605	12.605	0.000	94	1917727	50.0	53.7	
111 4-Chlorotoluene	126	12.641	12.641	0.000	98	572442	50.0	53.6	
113 tert-Butylbenzene	134	12.848	12.848	0.000	93	399553	50.0	53.5	
114 Pentachloroethane	167	12.885	12.885	0.000	90	308006	50.0	64.6	
115 1,2,4-Trimethylbenzene	105	12.891	12.891	0.000	97	1979161	50.0	53.9	
116 sec-Butylbenzene	105	13.012	13.012	0.000	94	2464051	50.0	54.0	
117 1,3-Dichlorobenzene	146	13.116	13.116	0.000	97	1080213	50.0	52.2	
118 4-Isopropyltoluene	119	13.122	13.122	0.000	97	2106352	50.0	54.5	
* 119 1,4-Dichlorobenzene-d4	152	13.170	13.170	0.000	96	564292	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.189	13.189	0.000	94	1098009	50.0	51.3	
120 1,2,3-Trimethylbenzene	105	13.195	13.195	0.000	98	1922493	50.0	52.5	
122 Benzyl chloride	91	13.262	13.262	0.000	99	1707018	50.0	58.1	
123 1,3-Diethylbenzene	119	13.323	13.323	0.000	95	1249625	50.0	53.7	
124 p-Diethylbenzene	119	13.396	13.396	0.000	94	1325729	50.0	54.2	
125 n-Butylbenzene	92	13.414	13.414	0.000	97	1111949	50.0	53.8	
126 1,2-Dichlorobenzene	146	13.450	13.450	0.000	98	1020973	50.0	50.2	
127 o-diethylbenzene	119	13.462	13.462	0.000	96	1020078	50.0	52.3	
129 1,2-Dibromo-3-Chloropropane	75	13.986	13.986	0.000	85	202473	50.0	55.0	
130 1,3,5-Trichlorobenzene	180	14.119	14.119	0.000	97	771215	50.0	48.3	
131 1,2,4-Trichlorobenzene	180	14.539	14.539	0.000	94	692558	50.0	46.5	
132 Hexachlorobutadiene	225	14.624	14.624	0.000	98	322499	50.0	46.8	
133 Naphthalene	128	14.722	14.722	0.000	97	2479158	50.0	49.6	
134 1,2,3-Trichlorobenzene	180	14.868	14.868	0.000	96	667858	50.0	46.0	
135 2-Methylnaphthalene	142	15.513	15.513	0.000	92	1474258	50.0	52.3	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_V_VOA1_00097	Amount Added:	5.00	Units: uL	
MSV_V_VOA3_00048	Amount Added:	2.00	Units: uL	
MSV_V_VOA6_00055	Amount Added:	5.00	Units: uL	
MSV_V_EE_00003	Amount Added:	5.00	Units: uL	
MSV_VCYC_00005	Amount Added:	10.00	Units: uL	
MSV_V_2CEVE_00109	Amount Added:	5.00	Units: uL	
MSV_V_Gas_00153	Amount Added:	2.50	Units: uL	
MSV_HP20_ISSS_00026	Amount Added:	1.00	Units: uL	Run Reagent

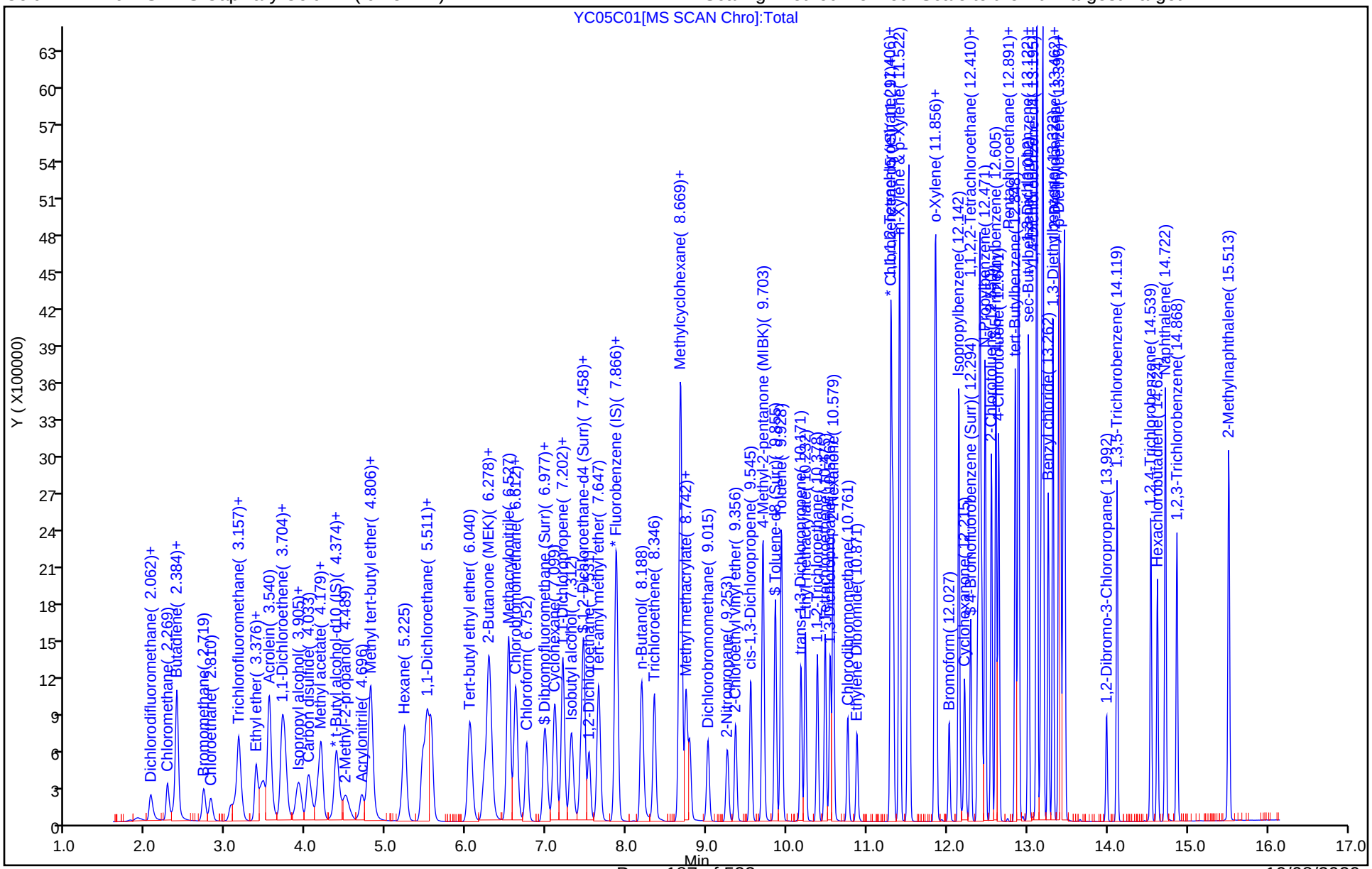
Report Date: 05-Oct-2020 12:50:53 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05C01.D

Injection Date:	05-Oct-2020 11:57:30	Instrument ID:	9355	Operator ID:	kas02648
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MSVoa_9355	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

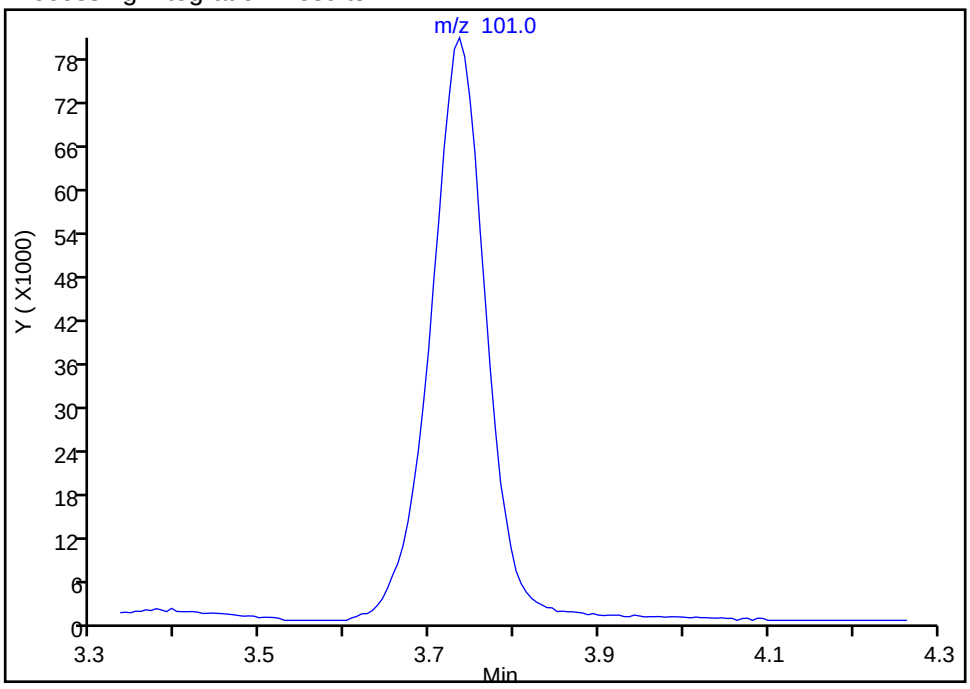
Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05C01.D
Injection Date: 05-Oct-2020 11:57:30 Instrument ID: 9355
Lims ID: CCVIS
Client ID:
Operator ID: kas02648 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

19 112TCTFE, CAS: 76-13-1

Signal: 1

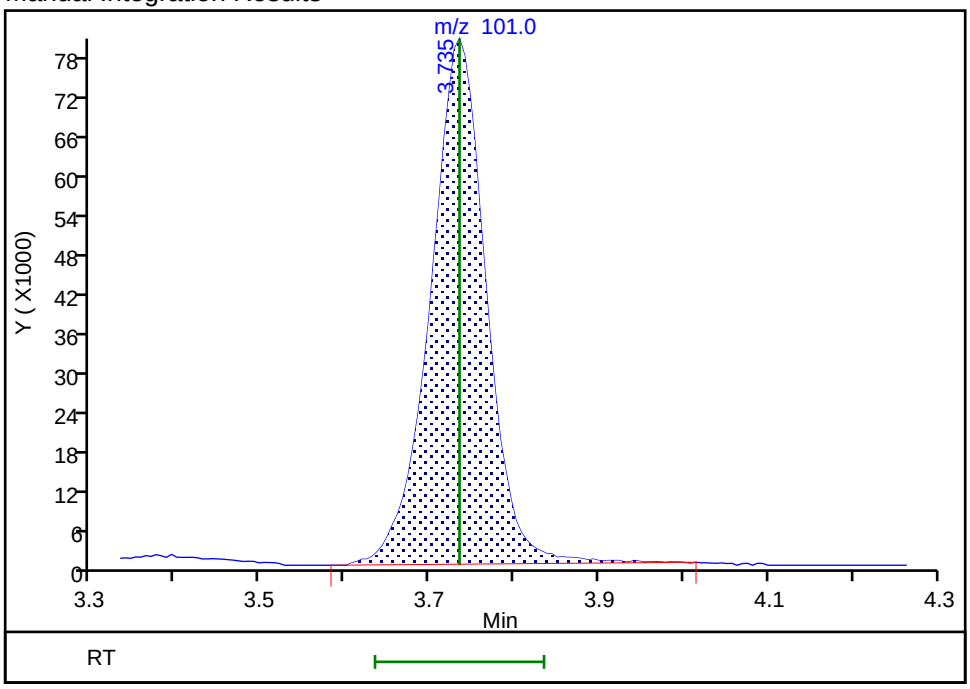
Processing Integration Results

RT: 3.75
Area: 0
Amount: 0
Amount Units: ug/l



Manual Integration Results

RT: 3.73
Area: 369727
Amount: 51.171520
Amount Units: ug/l



Reviewer: spositok, 05-Oct-2020 12:23:22
Audit Action: Manually Integrated Audit Reason: Assign Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21T01.D				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	21-Sep-2020 13:28:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0010935-001				
Misc. Info.:	BFB				
Operator ID:	kas02648	Instrument ID:	9355		
Method:	\\chromfs\Lancaster\ChromData\9355\20200921-10935.b\MSVoa_9355.m				
Limit Group:	MSV - 8260C_D				
Last Update:	21-Sep-2020 18:09:37	Calib Date:	21-Sep-2020 16:16:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1029				
First Level Reviewer: campbellme		Date:	21-Sep-2020 16:15:49		

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

$ 29 BFB

QC Flag Legend

Processing Flags

Reagents:

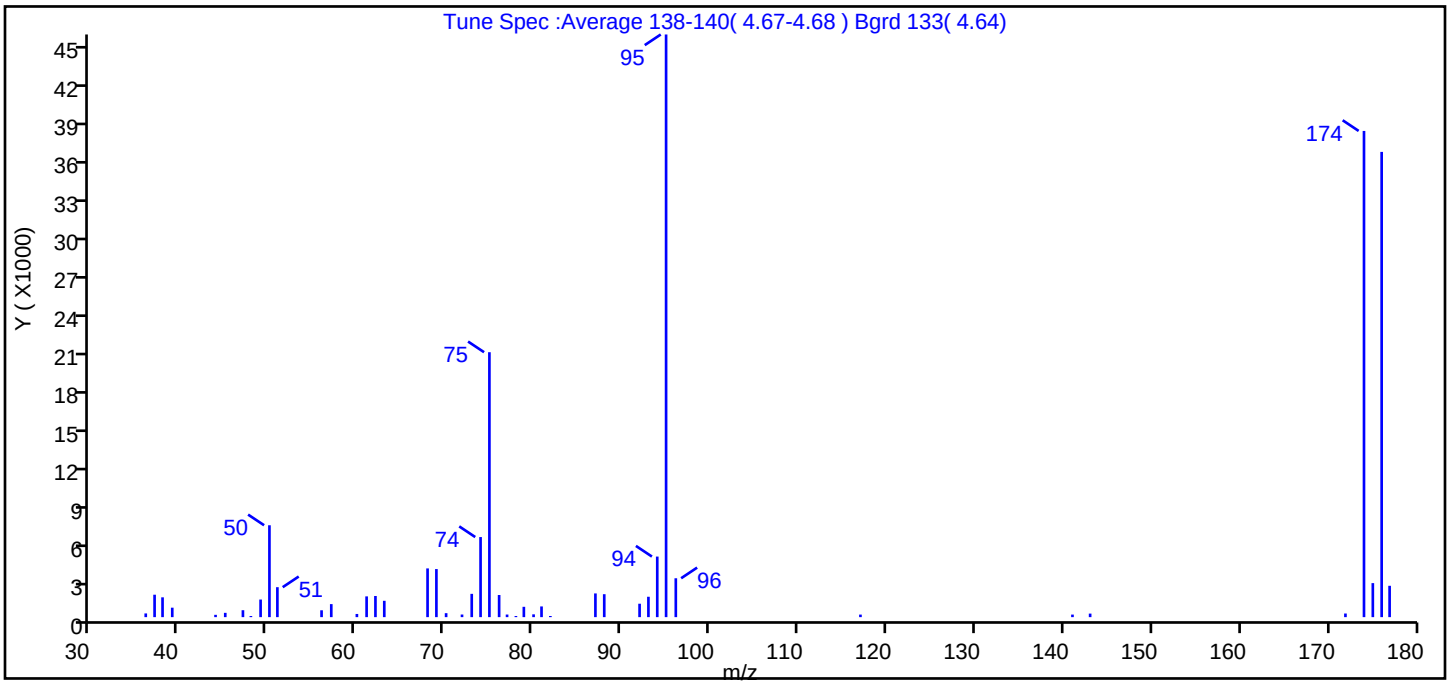
MSV_V_BFB_00003 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21T01.D
Injection Date: 21-Sep-2020 13:28:30 Instrument ID: 9355
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_9355 Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260D

$ 29 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	50 to 200% of m/z 174	100.0 (119.8)
96	5 to 9% of m/z 95	6.7
173	<2% of m/z 174	0.0 (0.0)
174	50 to 200% of m/z 95	83.4
175	5 to 9% of m/z 174	5.8 (7.0)
176	95 to 105% of m/z 174	79.8 (95.7)
177	5 to 10% of m/z 176	5.4 (6.7)

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21T01.D\MSVoa_9355.rslt\spectra.d
Injection Date: 21-Sep-2020 13:28:30
Spectrum: Tune Spec :Average 138-140(4.67-4.68) Bgrd 133(4.64)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 46

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	289	57.00	1015	76.00	1723	95.00	45376
37.00	1747	60.00	248	77.00	203	96.00	3028
38.00	1543	61.00	1617	78.00	89	117.00	199
39.00	737	62.00	1647	79.00	805	141.00	200
44.00	181	63.00	1273	80.00	219	143.00	276
45.00	335	68.00	3795	81.00	834	172.00	283
47.00	540	69.00	3744	82.00	89	174.00	37864
48.00	87	70.00	310	87.00	1847	175.00	2650
49.00	1372	72.00	205	88.00	1787	176.00	36232
50.00	7156	73.00	1814	92.00	1045	177.00	2441
51.00	2333	74.00	6237	93.00	1588		
56.00	535	75.00	20632	94.00	4717		

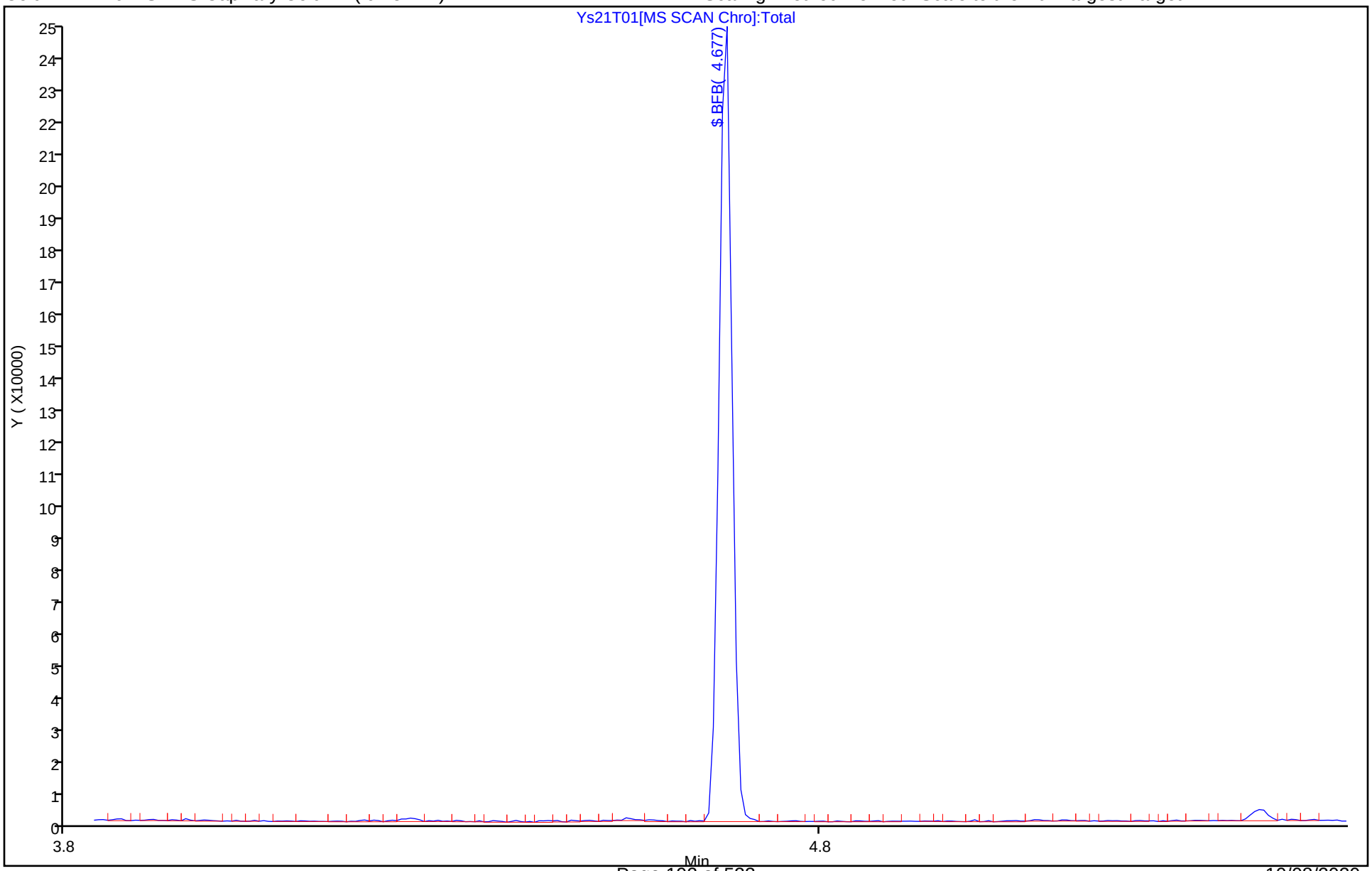
Report Date: 21-Sep-2020 18:09:37 Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21T01.D

Injection Date:	21-Sep-2020 13:28:30	Instrument ID:	9355	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_9355	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\9355\20201005-12071.b\YC05T01.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 05-Oct-2020 11:18:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0012071-001
Misc. Info.: BFB
Operator ID: kas02648 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 05-Oct-2020 12:51:12 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1026

First Level Reviewer: spositok Date: 05-Oct-2020 12:22:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 29 BFB	95	4.671	4.671	0.000	0	44620	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

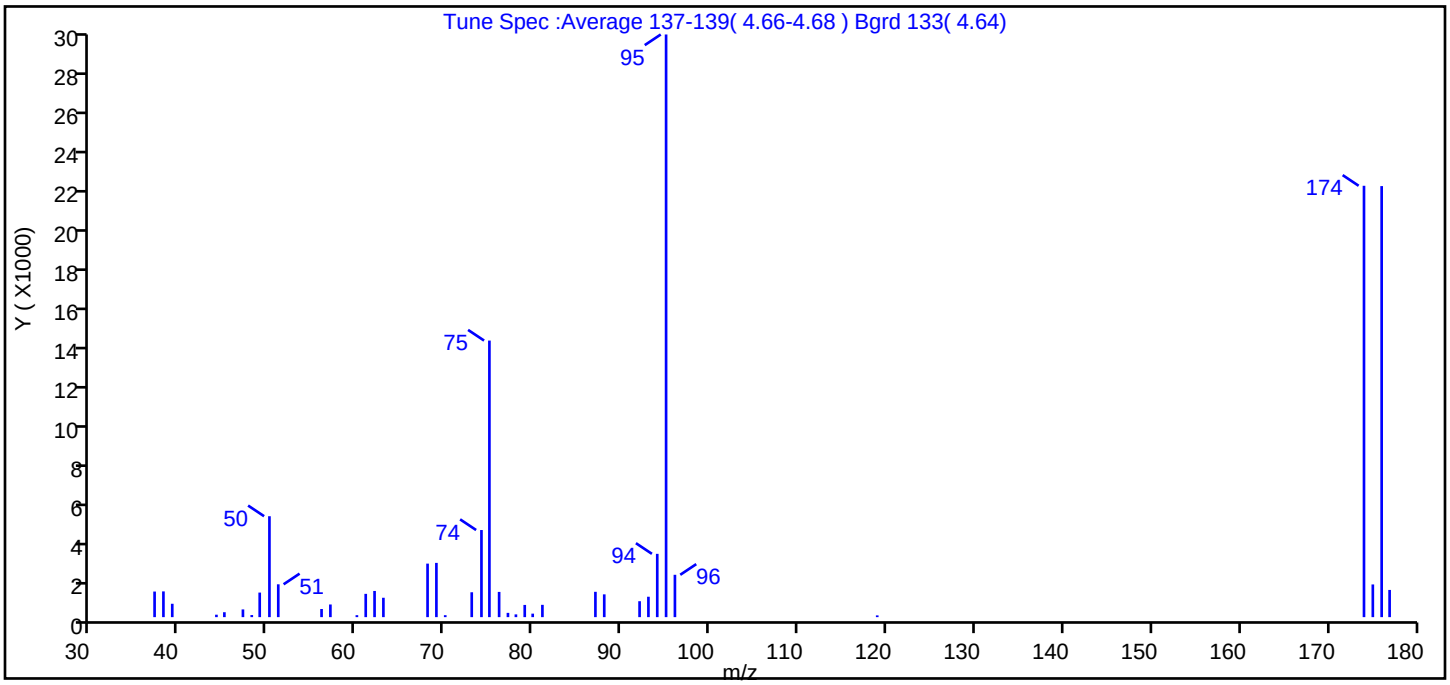
MSV_V_BFB_00003 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05T01.D
Injection Date: 05-Oct-2020 11:18:30 Instrument ID: 9355
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_9355 Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 29 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.3
75	30 to 60% of m/z 95	47.5
96	5 to 9% of m/z 95	7.3
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	74.0
175	5 to 9% of m/z 174	5.6 (7.6)
176	Greater than 95% but less than 101% of m/z 174	74.0 (99.9)
177	5 to 9% of m/z 176	4.7 (6.3)

Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05T01.D\MSVoa_9355.rslt\spectra.d
Injection Date: 05-Oct-2020 11:18:30
Spectrum: Tune Spec :Average 137-139(4.66-4.68) Bgrd 133(4.64)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 40

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1299	56.00	413	74.00	4422	92.00	809
38.00	1307	57.00	643	75.00	14039	93.00	1036
39.00	679	60.00	100	76.00	1281	94.00	3213
44.00	124	61.00	1182	77.00	217	95.00	29576
45.00	250	62.00	1329	78.00	140	96.00	2150
47.00	392	63.00	984	79.00	620	119.00	89
48.00	106	68.00	2717	80.00	178	174.00	21896
49.00	1247	69.00	2754	81.00	625	175.00	1660
50.00	5123	70.00	99	87.00	1286	176.00	21880
51.00	1667	73.00	1263	88.00	1157	177.00	1381

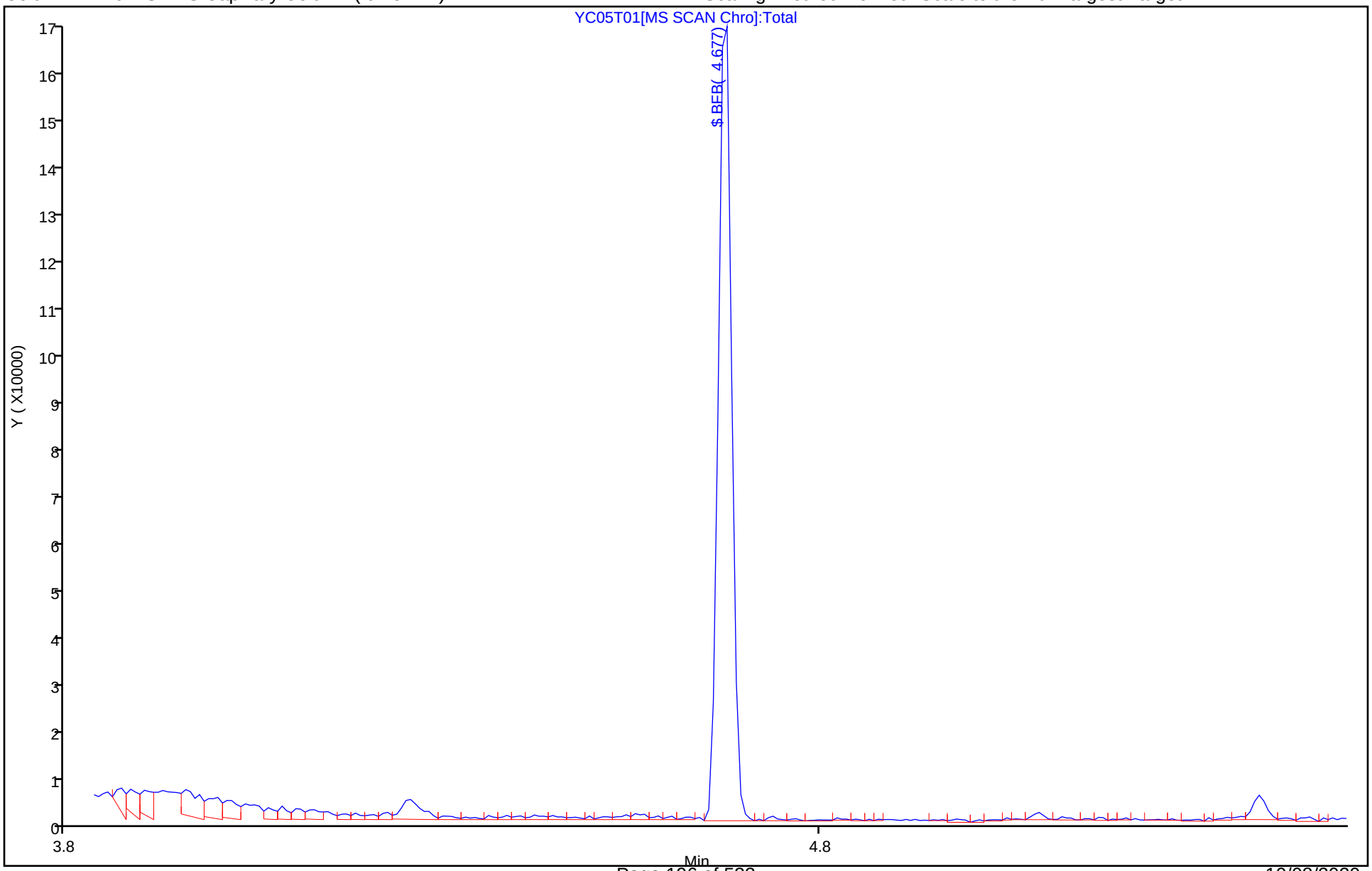
Report Date: 05-Oct-2020 12:51:13 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05T01.D

Injection Date:	05-Oct-2020 11:18:30	Instrument ID:	9355	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_9355	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.: 410-15514-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-50869/7

Matrix: Water Lab File ID: YC05B01.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2020 13:25

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.: 50869 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		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\9355\20201005-12071.b\YC05B01.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 05-Oct-2020 13:25:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0012071-007
Misc. Info.: MB
Operator ID: kas02648 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2020 13:24:04 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1018

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
	1 Chlorotrifluoroethene	116		2.001					ND	
	3 Chlorodifluoromethane	51		2.062					ND	
	2 Dichlorodifluoromethane	85		2.062					ND	
	4 Chloromethane	50		2.269					ND	
	5 Butadiene	39		2.384					ND	7
	6 Vinyl chloride	62		2.384					ND	
	7 2-Chloro-1,1,1-Trifluoroethane	118		2.439					ND	
	8 Bromomethane	94		2.719					ND	
	9 Chloroethane	64		2.810					ND	
	10 Dichlorofluoromethane	67		3.023					ND	
	11 Trichlorofluoromethane	101		3.120					ND	
	12 Pentane	43		3.157					ND	
	13 Ethanol	45		3.205					ND	
	14 Ethyl ether	59		3.376					ND	
	15 1,2-Dichloro-1,1,2-trifluoroetha	67		3.449					ND	
	16 Acrolein	56		3.540					ND	
	17 1,1-Dichloroethene	96		3.698					ND	
	18 Acetone	58		3.710					ND	
	19 112TCTFE	101		3.735					ND	
	20 Isopropyl alcohol	45		3.875					ND	7
	21 Iodomethane	142		3.911					ND	
	22 Carbon disulfide	76		4.033					ND	
	23 Acetonitrile	41		4.063					ND	
	24 Methyl acetate	43		4.142					ND	
	25 3-Chloro-1-propene	41		4.185					ND	
*	26 t-Butyl alcohol-d10 (IS)	65	4.362	4.361	0.001	29	508134	250.0	250.0	
	27 Methylene Chloride	84		4.380					ND	
	28 2-Methyl-2-propanol	59		4.489					ND	
	30 Acrylonitrile	53		4.690					ND	
	31 Methyl tert-butyl ether	73		4.793					ND	
	32 trans-1,2-Dichloroethene	96		4.812					ND	
	33 Hexane	57		5.225					ND	

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
	35 Vinyl acetate	43		5.432					ND	
	36 1,1-Dichloroethane	63		5.450					ND	
	37 Isopropyl ether	45		5.505					ND	
	38 2-Chloro-1,3-butadiene	53		5.560					ND	
	39 Tert-butyl ethyl ether	59		6.040					ND	
S	40 1,2-Dichloroethene, Total	100		6.155					ND	7
	41 2-Butanone (MEK)	43		6.229					ND	
	42 cis-1,2-Dichloroethene	96		6.272					ND	
	43 Ethyl acetate	43		6.290					ND	
	44 2,2-Dichloropropane	77		6.296					ND	
	45 Propionitrile	54		6.302					ND	
	46 Methacrylonitrile	67		6.527					ND	
	47 Chlorobromomethane	128		6.606					ND	
	48 Tetrahydrofuran	71		6.625					ND	
	49 Chloroform	83		6.752					ND	
$	50 Dibromofluoromethane (Surr)	113	6.965	6.965	0.000	93	315574	50.0	49.0	
	51 1,1,1-Trichloroethane	97		6.990					ND	
	52 Cyclohexane	56		7.099					ND	
	53 1,1-Dichloropropene	75		7.202					ND	
	54 Carbon tetrachloride	117		7.209					ND	
	55 Isobutyl alcohol	41		7.306					ND	
$	56 1,2-Dichloroethane-d4 (Surr)	102	7.422	7.428	-0.006	98	88989	50.0	50.3	
	57 Benzene	78		7.464					ND	
	58 Isopropyl acetate	43		7.519					ND	
	59 1,2-Dichloroethane	62		7.531					ND	7
	60 Tert-amyl methyl ether	73		7.647					ND	
	61 t-Amyl alcohol	73	7.854	7.842	0.012	34	17025		NC	
*	62 Fluorobenzene (IS)	96	7.860	7.859	0.001	99	1432239	50.0	50.0	
	63 n-Heptane	43		7.878					ND	
	64 n-Butanol	56		8.188					ND	
	65 Trichloroethene	95		8.346					ND	
	66 Methylcyclohexane	83		8.663					ND	
	67 1,2-Dichloropropane	63		8.675					ND	
	34 2-ethoxy-2-methyl butane	87		8.675					ND	
	68 Methyl methacrylate	69		8.742					ND	
	69 1,4-Dioxane	88		8.754					ND	
	70 Dibromomethane	93		8.784					ND	
	71 n-Propyl acetate	61		8.815					ND	
	72 Dichlorobromomethane	83		9.015					ND	
	73 2-Nitropropane	41		9.253					ND	
	74 2-Chloroethyl vinyl ether	63		9.356					ND	
	75 cis-1,3-Dichloropropene	75		9.545					ND	
	76 4-Methyl-2-pentanone (MIBK)	43		9.703					ND	
$	77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	94	1391642	50.0	49.6	
	78 Toluene	92		9.928					ND	
S	79 1,3-Dichloropropene, Total	100		10.060					ND	7
	80 trans-1,3-Dichloropropene	75		10.171					ND	
	81 Ethyl methacrylate	69		10.232					ND	
	82 1,1,2-Trichloroethane	97		10.378					ND	
	83 Tetrachloroethene	166		10.475					ND	
	84 1,3-Dichloropropane	76		10.536					ND	
	86 2-Hexanone	43		10.579					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 3,4-Dichloro-1-butene	75		10.579					ND	
87 n-Butyl acetate	43		10.700					ND	
88 Chlorodibromomethane	129		10.761					ND	
89 Ethylene Dibromide	107		10.871					ND	
S 90 Xylenes, Total	106		11.245					ND	7
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	87	1034786	50.0	50.0	
92 1-Chlorohexane	91	11.297	11.297	0.000	33	2092		0.1725	
93 Chlorobenzene	112		11.321					ND	
94 1,1,1,2-Tetrachloroethane	131		11.406					ND	
95 Ethylbenzene	91		11.406					ND	
96 m-Xylene & p-Xylene	106		11.522					ND	
97 o-Xylene	106		11.844					ND	
98 Styrene	104		11.862					ND	
99 Bromoform	173		12.027					ND	
100 Isopropylbenzene	105		12.148					ND	
101 cis-1,4-Dichloro-2-butene	88		12.185					ND	
102 Cyclohexanone	55		12.215					ND	
$ 103 4-Bromofluorobenzene (Surr)	95	12.288	12.294	-0.006	88	510642	50.0	48.5	
104 1,1,2,2-Tetrachloroethane	83		12.380					ND	
106 trans-1,4-Dichloro-2-butene	53		12.404					ND	
105 Bromobenzene	156		12.410					ND	
107 1,2,3-Trichloropropane	110		12.428					ND	
108 N-Propylbenzene	91		12.471					ND	
109 2-Chlorotoluene	126		12.550					ND	
110 1,3,5-Trimethylbenzene	105		12.605					ND	
111 4-Chlorotoluene	126		12.641					ND	
112 2,3,4-Trichlorobutene	109		12.659					ND	
113 tert-Butylbenzene	134		12.848					ND	
114 Pentachloroethane	167		12.885					ND	
115 1,2,4-Trimethylbenzene	105		12.891					ND	
116 sec-Butylbenzene	105		13.012					ND	
117 1,3-Dichlorobenzene	146		13.116					ND	
118 4-Isopropyltoluene	119		13.122					ND	
* 119 1,4-Dichlorobenzene-d4	152	13.171	13.170	0.001	96	537811	50.0	50.0	
121 1,4-Dichlorobenzene	146		13.189					ND	
120 1,2,3-Trimethylbenzene	105		13.195					ND	
122 Benzyl chloride	91		13.262					ND	7
123 1,3-Diethylbenzene	119		13.323					ND	
124 p-Diethylbenzene	119		13.396					ND	
125 n-Butylbenzene	92		13.414					ND	
126 1,2-Dichlorobenzene	146		13.450					ND	
127 o-diethylbenzene	119		13.462					ND	
128 Hexachloroethane	201		13.560					ND	
129 1,2-Dibromo-3-Chloropropane	75		13.986					ND	
130 1,3,5-Trichlorobenzene	180		14.119					ND	
131 1,2,4-Trichlorobenzene	180		14.539					ND	
132 Hexachlorobutadiene	225		14.624					ND	
133 Naphthalene	128		14.722					ND	7
134 1,2,3-Trichlorobenzene	180		14.868					ND	
135 2-Methylnaphthalene	142		15.513					ND	7
136 C4-C10	1		0.000					ND	
175 Vinyl bromide TIC	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
176 Epichlorohydrin TIC	1		0.000					ND	
177 2-Bromo-3-chloropropene TIC	1		0.000					ND	
178 Ethylene oxide TIC	1		0.000					ND	
179 2,3-Dibromopropene TIC	1		0.000					ND	
180 3-Chloro-1,2-propanediol TIC	1		0.000					ND	
181 1-Bromo-2-chloroethane TIC	1		0.000					ND	
182 1,2,3,4-Diepoxybutane (TIC)	1		0.000					ND	
183 N-Nitrosodi-n-butylamine TIC	1		0.000					ND	
184 1,3-Dichloro-2-propanol TIC	1		0.000					ND	
185 n-Propylamine (TIC)	1		0.000					ND	
186 beta-Propiolactone TIC	1		0.000					ND	
187 Propargyl alcohol TIC	1		0.000					ND	
188 Propanol TIC	1		0.000					ND	
204 Ethanol TIC	1		0.000					ND	
173 Epibromohydrin TIC	1		0.000					ND	
191 2-Pentanone (TIC)	1		0.000					ND	
192 Malononitrile (TIC)	1		0.000					ND	
193 2-Picoline (TIC)	1		0.000					ND	
194 Vinyl acetate (TIC)	1		0.000					ND	
195 Allyl Alcohol TIC	1		0.000					ND	
196 1-Bromopropane TIC	1		0.000					ND	
197 Pentafluorobenzene TIC	1		0.000					ND	
198 Bis(2-chloroethyl)sulfide (TIC)	1		0.000					ND	
199 Paraldehyde TIC	1		0.000					ND	
200 Bromoacetone (TIC)	1		0.000					ND	
201 Methanol TIC	1		0.000					ND	
202 Chloral hydrate (TIC)	1		0.000					ND	
203 Pentachloroethane TIC	1		0.000					ND	
174 Chloroacetaldehyde TIC	1		0.000					ND	
189 Hexachloroethane TIC	1		0.000					ND	
190 Nitrobenzene TIC	1		0.000					ND	
171 Monochloroacetic acid TIC	1		0.000					ND	
143 Methyl acrylate	1		0.000					ND	
158 Propene oxide	1		0.000					ND	
157 C4-C12	1		0.000					ND	
156 1-Chlorobutane	1		0.000					ND	
155 1,4-Divinylbenzene	1		0.000					ND	
154 trans-1,2,3-Trichlorobutene-2	1		0.000					ND	
153 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
152 cis-1,2,3-Trichlorobutene-2	1		0.000					ND	
151 2,3-Dichloro-1,3-butadiene	1		0.000					ND	
150 Diethoxymethane	1		0.000					ND	
149 C5-C12	1		0.000					ND	
148 1-Bromo-2-chloroethane	1		0.000					ND	
147 C6-C12	1		0.000					ND	
S 146 Total Diethylbenzene	1		0.000					ND	7
145 3-chloro-1-Butene	1		0.000					ND	
206 1,1,2,2-Tetrachloro-1,2-difluoro	1		0.000					ND	
159 1,3-Dichlorobutene-2(total)	1		0.000					ND	
142 tert-Butyl Formate	1		0.000					ND	
141 1,3-Divinylbenzene	1		0.000					ND	
140 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
139 Chloroacetonitrile	1		0.000					ND	
S 138 divinyl benzene	1		0.000					ND	7
137 Methylal	1		0.000					ND	
160 n-Decane	57		0.000					ND	
161 Dodecane	57		0.000					ND	
167 Butane	1		0.000					ND	
168 2,3-Dibromo-1-propanol TIC	1		0.000					ND	
169 1-Methyl-2-pyrrilidinone TIC	1		0.000					ND	
170 2-Bromoethanol TIC	1		0.000					ND	
172 2-Chloroethanol TIC	1		0.000					ND	
205 o-toluidine TIC	1		0.000					ND	
144 C6-C10	1		0.000					ND	
207 Ethyl acrylate	55		0.000					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

Reagents:

MSV_HP20_ISSS_00026 Amount Added: 1.00 Units: uL Run Reagent

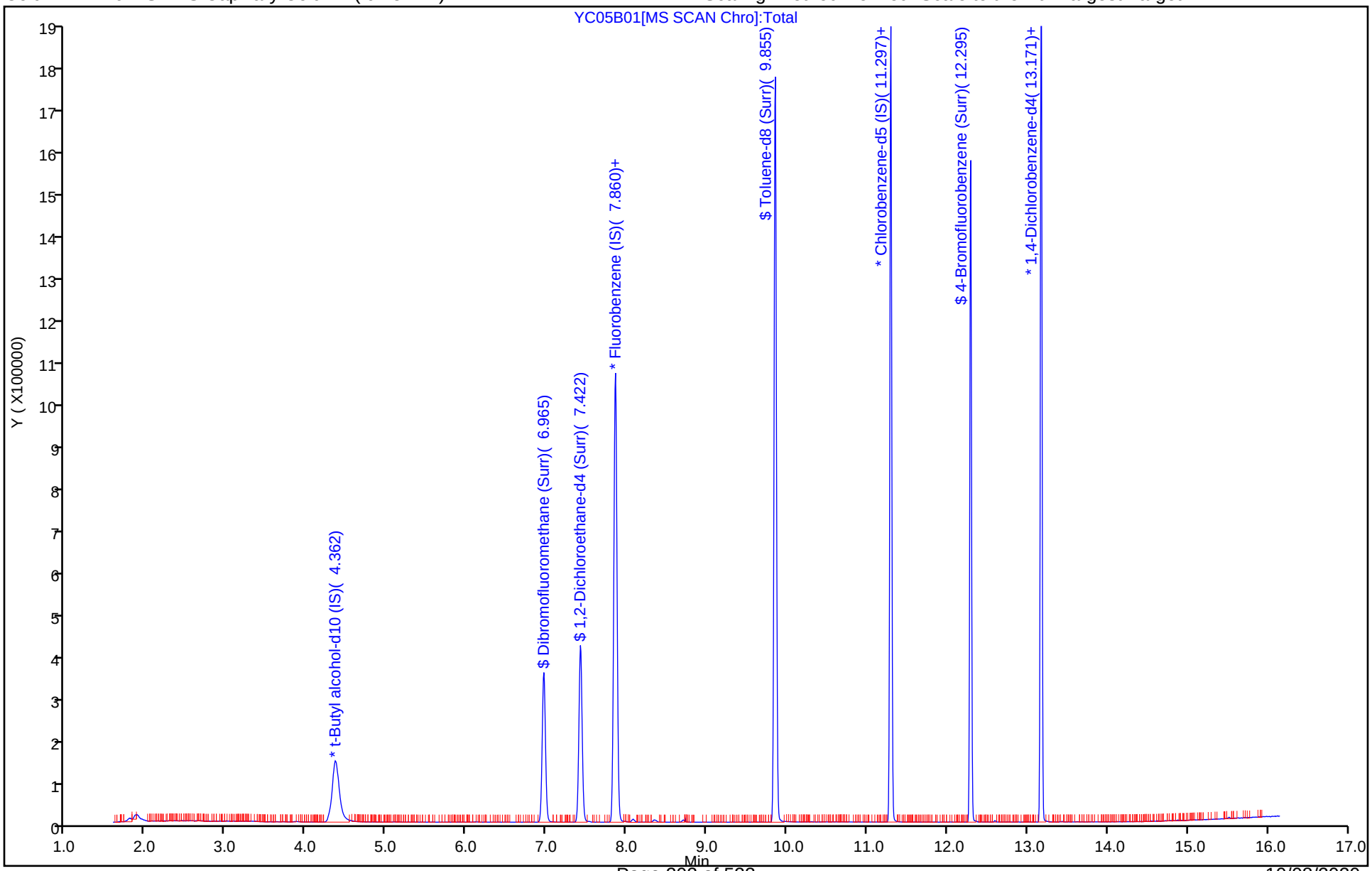
Report Date: 06-Oct-2020 13:26:14 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05B01.D

Injection Date:	05-Oct-2020 13:25:30	Instrument ID:	9355	Operator ID:	kas02648
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSVoa_9355	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.: 410-15514-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-50869/4

Matrix: Water Lab File ID: YC05L01.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2020 12:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 50869 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	20.0		1.0	0.20
100-41-4	Ethylbenzene	20.3		1.0	0.40
108-88-3	Toluene	20.0		1.0	0.20
1330-20-7	Xylenes, Total	60.9		6.0	1.4
1634-04-4	Methyl tertiary butyl ether	19.2		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		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\9355\20201005-12071.b\YC05L01.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 05-Oct-2020 12:19:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0012071-004
Misc. Info.: LCS
Operator ID: kas02648 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 05-Oct-2020 12:50:51 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1026

First Level Reviewer: spositok Date: 05-Oct-2020 12:48:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.056	2.062	-0.006	99	137741	20.0	14.1	
4 Chloromethane	50	2.263	2.269	-0.006	99	184194	20.0	18.1	
5 Butadiene	39	2.378	2.384	-0.006	92	327034	20.0	45.8	
6 Vinyl chloride	62	2.384	2.384	0.000	98	168370	20.0	17.8	
8 Bromomethane	94	2.713	2.719	-0.006	90	106695	20.0	16.2	
9 Chloroethane	64	2.804	2.810	-0.006	100	94791	20.0	16.2	
11 Trichlorofluoromethane	101	3.127	3.120	0.007	99	207961	20.0	17.8	
12 Pentane	43	3.157	3.157	0.000	96	196474	20.0	17.0	
14 Ethyl ether	59	3.370	3.376	-0.006	93	166115	20.0	19.0	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.455	3.449	0.006	94	185994	20.0	19.5	
16 Acrolein	56	3.534	3.540	-0.006	100	471033	149.7	110.3	
17 1,1-Dichloroethene	96	3.692	3.698	-0.006	97	143860	20.0	20.8	
18 Acetone	58	3.704	3.710	-0.006	100	282321	150.0	127.6	
19 112TCTFE	101	3.729	3.735	-0.006	94	126856	20.0	17.8	
20 Isopropyl alcohol	45	3.881	3.875	0.006	96	208699	150.0	131.3	
21 Iodomethane	142	3.905	3.911	-0.006	97	224998	20.0	18.1	
22 Carbon disulfide	76	4.027	4.033	-0.006	99	456644	20.0	18.8	
24 Methyl acetate	43	4.143	4.142	0.000	98	286885	20.0	23.2	
25 3-Chloro-1-propene	41	4.179	4.185	-0.006	92	275951	20.0	21.2	
* 26 t-Butyl alcohol-d10 (IS)	65	4.362	4.361	0.001	91	521802	250.0	250.0	
27 Methylene Chloride	84	4.380	4.380	0.000	93	170961	20.0	19.5	
28 2-Methyl-2-propanol	59	4.489	4.489	0.000	98	530689	200.0	188.1	
30 Acrylonitrile	53	4.690	4.690	0.000	99	689504	100.0	102.7	
31 Methyl tert-butyl ether	73	4.787	4.793	-0.006	96	514468	20.0	19.2	
32 trans-1,2-Dichloroethene	96	4.800	4.812	-0.012	98	166110	20.0	20.3	
33 Hexane	57	5.219	5.225	-0.006	93	276174	20.0	21.4	
36 1,1-Dichloroethane	63	5.450	5.450	0.000	96	308583	20.0	20.4	
37 Isopropyl ether	45	5.505	5.505	0.000	95	565480	20.0	20.0	
38 2-Chloro-1,3-butadiene	53	5.554	5.560	-0.006	90	257111	20.0	20.8	
39 Tert-butyl ethyl ether	59	6.041	6.040	0.001	97	518644	20.0	20.0	
41 2-Butanone (MEK)	43	6.223	6.229	-0.006	100	1515895	150.0	167.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 cis-1,2-Dichloroethene	96	6.272	6.272	0.000	83	197131	20.0	21.1	
44 2,2-Dichloropropane	77	6.290	6.296	-0.006	86	229785	20.0	20.6	
45 Propionitrile	54	6.302	6.302	0.000	99	475299	150.0	148.6	
46 Methacrylonitrile	67	6.527	6.527	0.000	92	1048088	150.0	161.0	
47 Chlorobromomethane	128	6.606	6.606	0.000	96	89867	20.0	19.3	
48 Tetrahydrofuran	71	6.625	6.625	0.001	92	270322	100.0	92.2	
49 Chloroform	83	6.746	6.752	-0.006	93	285778	20.0	20.1	
$ 50 Dibromofluoromethane (Surr)	113	6.965	6.965	0.000	94	320710	50.0	49.4	
51 1,1,1-Trichloroethane	97	6.990	6.990	0.000	99	230085	20.0	19.5	
52 Cyclohexane	56	7.099	7.099	0.000	91	302321	20.0	19.8	
53 1,1-Dichloropropene	75	7.196	7.202	-0.006	98	243354	20.0	20.6	
54 Carbon tetrachloride	117	7.209	7.209	0.000	96	193574	20.0	19.8	
55 Isobutyl alcohol	41	7.306	7.306	0.000	95	442371	500.0	472.6	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.422	7.428	-0.006	98	89797	50.0	50.3	
57 Benzene	78	7.458	7.464	-0.006	97	731788	20.0	20.0	
59 1,2-Dichloroethane	62	7.531	7.531	0.000	97	248615	20.0	20.7	
60 Tert-amyl methyl ether	73	7.653	7.647	0.006	98	511604	20.0	20.0	
* 62 Fluorobenzene (IS)	96	7.860	7.859	0.001	99	1444169	50.0	50.0	
63 n-Heptane	43	7.872	7.878	-0.006	92	314956	20.0	21.2	
64 n-Butanol	56	8.188	8.188	0.000	89	849848	1000.0	1025.3	
65 Trichloroethene	95	8.340	8.346	-0.006	99	180499	20.0	20.1	
66 Methylcyclohexane	83	8.663	8.663	0.001	94	332394	20.0	21.2	
67 1,2-Dichloropropane	63	8.669	8.675	-0.006	82	198102	20.0	20.9	
34 2-ethoxy-2-methyl butane	87	8.675	8.675	0.000	91	264830	20.0	20.8	
68 Methyl methacrylate	69	8.742	8.742	0.000	92	203582	20.0	21.3	
69 1,4-Dioxane	88	8.760	8.754	0.006	93	103495	500.0	579.3	M
70 Dibromomethane	93	8.784	8.784	0.000	97	116910	20.0	20.1	
72 Dichlorobromomethane	83	9.009	9.015	-0.006	99	212022	20.0	20.2	
73 2-Nitropropane	41	9.253	9.253	0.000	98	86520	20.0	18.9	
74 2-Chloroethyl vinyl ether	63	9.356	9.356	0.000	91	160649	20.0	21.8	
75 cis-1,3-Dichloropropene	75	9.545	9.545	0.000	96	300596	20.0	20.7	
76 4-Methyl-2-pentanone (MIBK)	43	9.697	9.703	-0.006	97	1820071	100.0	109.3	
$ 77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	94	1433927	50.0	50.0	
78 Toluene	92	9.928	9.928	0.000	98	458541	20.0	20.0	
80 trans-1,3-Dichloropropene	75	10.171	10.171	0.000	93	276349	20.0	20.6	
81 Ethyl methacrylate	69	10.226	10.232	-0.006	91	318049	20.0	21.4	
82 1,1,2-Trichloroethane	97	10.378	10.378	0.000	90	183469	20.0	20.8	
83 Tetrachloroethene	166	10.476	10.475	0.001	97	191100	20.0	17.5	
84 1,3-Dichloropropane	76	10.536	10.536	0.000	91	314176	20.0	20.2	
86 2-Hexanone	43	10.579	10.579	0.000	97	1535460	100.0	115.6	
88 Chlorodibromomethane	129	10.755	10.761	-0.006	90	172555	20.0	20.0	
89 Ethylene Dibromide	107	10.871	10.871	0.000	99	192329	20.0	20.3	
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	87	1057842	50.0	50.0	
92 1-Chlorohexane	91	11.297	11.297	0.000	98	248512	20.0	20.0	
93 Chlorobenzene	112	11.321	11.321	0.000	95	514359	20.0	20.1	
94 1,1,1,2-Tetrachloroethane	131	11.406	11.406	0.000	95	154469	20.0	18.9	
95 Ethylbenzene	91	11.406	11.406	0.000	98	869661	20.0	20.3	
96 m-Xylene & p-Xylene	106	11.522	11.522	0.000	100	687682	40.0	41.0	
97 o-Xylene	106	11.844	11.844	0.000	97	323153	20.0	19.9	
98 Styrene	104	11.863	11.862	0.001	95	552513	20.0	20.8	
99 Bromoform	173	12.027	12.027	0.000	97	122409	20.0	18.9	
100 Isopropylbenzene	105	12.142	12.148	-0.006	96	836436	20.0	20.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 Cyclohexanone	55	12.215	12.215	0.000	92	383815	500.0	466.2	
$ 103 4-Bromofluorobenzene (Surr)	95	12.288	12.294	-0.006	88	532075	50.0	49.5	
104 1,1,2,2-Tetrachloroethane	83	12.380	12.380	0.000	93	302278	20.0	20.7	
106 trans-1,4-Dichloro-2-butene	53	12.404	12.404	0.000	85	326955	100.0	65.9	
105 Bromobenzene	156	12.410	12.410	0.000	89	215793	20.0	20.7	
107 1,2,3-Trichloropropane	110	12.428	12.428	0.000	82	95338	20.0	21.0	
108 N-Propylbenzene	91	12.471	12.471	0.000	99	1039494	20.0	21.5	
109 2-Chlorotoluene	126	12.550	12.550	0.000	96	201175	20.0	20.0	
110 1,3,5-Trimethylbenzene	105	12.605	12.605	0.000	94	720369	20.0	20.7	
111 4-Chlorotoluene	126	12.641	12.641	0.000	98	215901	20.0	20.7	
113 tert-Butylbenzene	134	12.848	12.848	0.000	93	153228	20.0	21.0	
114 Pentachloroethane	167	12.885	12.885	0.001	91	114174	20.0	24.6	
115 1,2,4-Trimethylbenzene	105	12.891	12.891	0.000	97	740995	20.0	20.7	
116 sec-Butylbenzene	105	13.012	13.012	0.000	94	940247	20.0	21.2	
117 1,3-Dichlorobenzene	146	13.116	13.116	0.000	97	414923	20.0	20.6	
118 4-Isopropyltoluene	119	13.122	13.122	0.000	97	802925	20.0	21.3	
* 119 1,4-Dichlorobenzene-d4	152	13.171	13.170	0.001	95	549931	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.189	13.189	0.000	93	429818	20.0	20.6	
120 1,2,3-Trimethylbenzene	105	13.195	13.195	0.000	98	787175	20.0	22.0	
122 Benzyl chloride	91	13.262	13.262	0.000	98	622484	20.0	21.7	
123 1,3-Diethylbenzene	119	13.323	13.323	0.000	95	488916	20.0	21.6	
124 p-Diethylbenzene	119	13.396	13.396	0.000	95	521581	20.0	21.9	
125 n-Butylbenzene	92	13.414	13.414	0.000	94	420229	20.0	20.9	
126 1,2-Dichlorobenzene	146	13.450	13.450	0.000	98	395290	20.0	20.0	
127 o-diethylbenzene	119	13.463	13.462	0.001	96	403094	20.0	21.2	
129 1,2-Dibromo-3-Chloropropane	75	13.986	13.986	0.000	83	74748	20.0	20.8	
130 1,3,5-Trichlorobenzene	180	14.120	14.119	0.001	98	296012	20.0	19.0	
131 1,2,4-Trichlorobenzene	180	14.539	14.539	0.000	94	267559	20.0	18.4	
132 Hexachlorobutadiene	225	14.625	14.624	0.000	97	130326	20.0	19.4	
133 Naphthalene	128	14.722	14.722	0.000	97	944903	20.0	19.4	
134 1,2,3-Trichlorobenzene	180	14.868	14.868	0.000	96	260209	20.0	18.4	
135 2-Methylnaphthalene	142	15.513	15.513	0.000	93	565358	20.0	20.6	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_Q_QVOA1_00048	Amount Added: 50.00	Units: uL	
MSV_Q_QARC_00047	Amount Added: 50.00	Units: uL	
MSV_Q_QVOA6_00046	Amount Added: 50.00	Units: uL	
MSV_Q_EE_00002	Amount Added: 50.00	Units: uL	
MSV_QCYC_00004	Amount Added: 50.00	Units: uL	
MSV_Q_QGases_00091	Amount Added: 50.00	Units: uL	
MSV_HP20_ISSS_00026	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 05-Oct-2020 12:51:04 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05L01.D

Injection Date: 05-Oct-2020 12:19:30 Instrument ID: 9355 Operator ID: kas02648

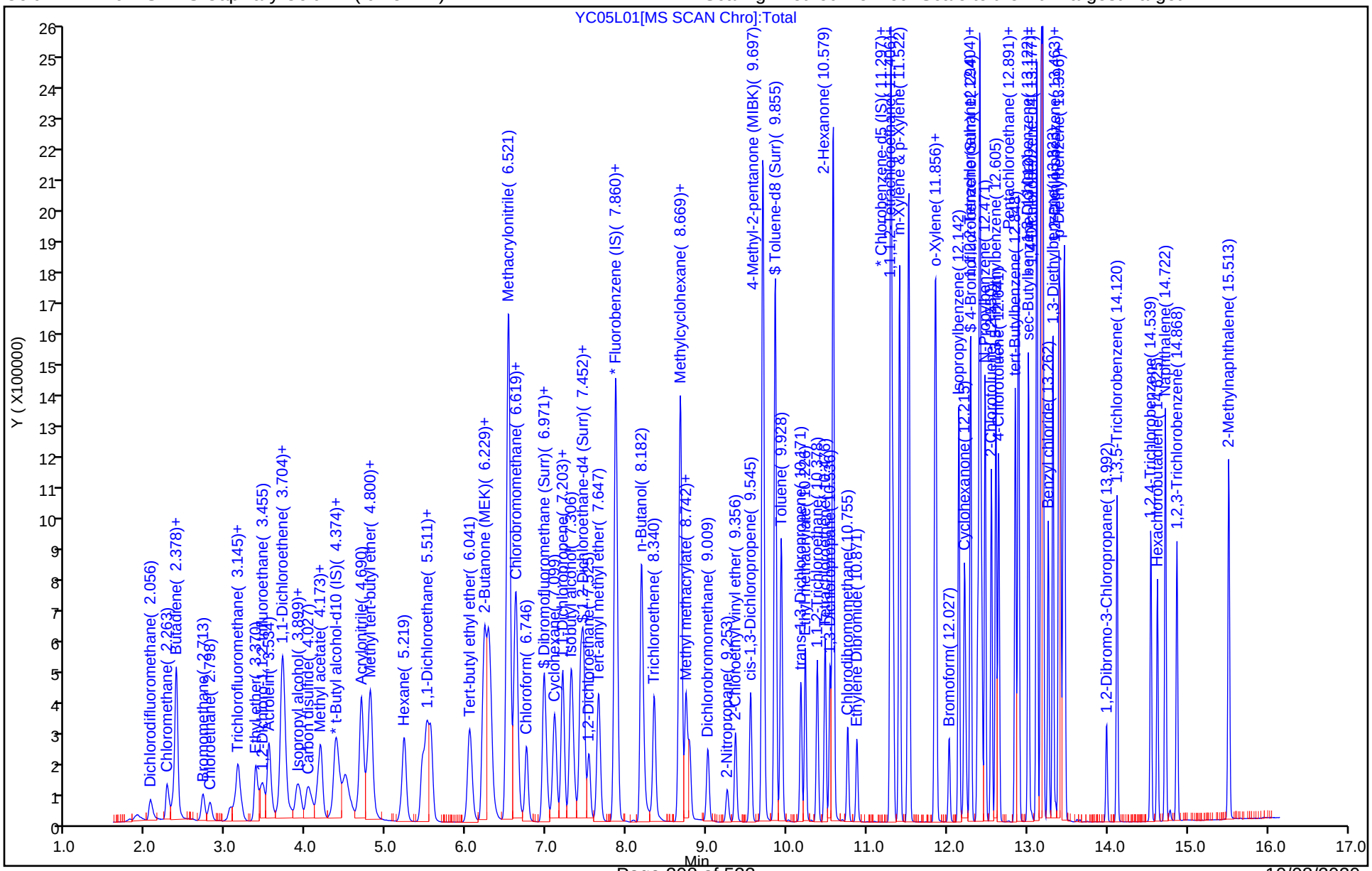
Lims ID: LCS Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: MSVoa_9355 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.: 410-15514-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-50869/5

Matrix: Water Lab File ID: YC05L02.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2020 12:41

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.: 50869 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	20.0		1.0	0.20
100-41-4	Ethylbenzene	20.5		1.0	0.40
108-88-3	Toluene	20.0		1.0	0.20
1330-20-7	Xylenes, Total	61.2		6.0	1.4
1634-04-4	Methyl tertiary butyl ether	19.1		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		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\9355\20201005-12071.b\YC05L02.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 05-Oct-2020 12:41:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0012071-005
Misc. Info.: LCSD
Operator ID: kas02648 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 05-Oct-2020 13:33:38 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1026

First Level Reviewer: spositok Date: 05-Oct-2020 13:31:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.050	2.062	-0.012	99	149055	20.0	15.2	
4 Chloromethane	50	2.263	2.269	-0.006	99	182506	20.0	18.0	
5 Butadiene	39	2.378	2.384	-0.006	91	311277	20.0	43.6	
6 Vinyl chloride	62	2.378	2.384	-0.006	98	173440	20.0	18.4	
8 Bromomethane	94	2.707	2.719	-0.012	90	105053	20.0	16.0	
9 Chloroethane	64	2.798	2.810	-0.012	100	94048	20.0	16.1	
11 Trichlorofluoromethane	101	3.114	3.120	-0.006	98	208097	20.0	17.8	
12 Pentane	43	3.151	3.157	-0.006	96	208618	20.0	18.1	
14 Ethyl ether	59	3.364	3.376	-0.012	92	163246	20.0	18.7	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.443	3.449	-0.006	94	185754	20.0	19.5	
16 Acrolein	56	3.534	3.540	-0.006	100	467165	149.7	109.1	
17 1,1-Dichloroethene	96	3.692	3.698	-0.006	96	141554	20.0	20.5	
18 Acetone	58	3.704	3.710	-0.006	100	284232	150.0	128.1	
19 112TCTFE	101	3.729	3.735	-0.006	94	126160	20.0	17.7	
20 Isopropyl alcohol	45	3.875	3.875	0.000	100	200376	150.0	125.6	
21 Iodomethane	142	3.905	3.911	-0.006	97	223820	20.0	18.0	
22 Carbon disulfide	76	4.027	4.033	-0.006	99	458311	20.0	18.9	
24 Methyl acetate	43	4.143	4.142	0.000	98	292462	20.0	23.7	
25 3-Chloro-1-propene	41	4.179	4.185	-0.006	93	279297	20.0	21.5	
* 26 t-Butyl alcohol-d10 (IS)	65	4.362	4.361	0.001	90	523529	250.0	250.0	
27 Methylene Chloride	84	4.374	4.380	-0.006	93	172100	20.0	19.7	
28 2-Methyl-2-propanol	59	4.495	4.489	0.006	99	523270	200.0	184.8	
30 Acrylonitrile	53	4.684	4.690	-0.006	99	688574	100.0	102.7	
31 Methyl tert-butyl ether	73	4.787	4.793	-0.006	96	510867	20.0	19.1	
32 trans-1,2-Dichloroethene	96	4.806	4.812	-0.006	98	166181	20.0	20.3	
33 Hexane	57	5.219	5.225	-0.006	93	278227	20.0	21.6	
36 1,1-Dichloroethane	63	5.444	5.450	-0.006	96	309516	20.0	20.5	
37 Isopropyl ether	45	5.505	5.505	0.000	95	567197	20.0	20.1	
38 2-Chloro-1,3-butadiene	53	5.554	5.560	-0.006	90	258700	20.0	21.0	
39 Tert-butyl ethyl ether	59	6.035	6.040	-0.006	98	518391	20.0	20.0	
41 2-Butanone (MEK)	43	6.223	6.229	-0.006	100	1506964	150.0	166.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 cis-1,2-Dichloroethene	96	6.266	6.272	-0.006	82	196489	20.0	21.1	
44 2,2-Dichloropropane	77	6.290	6.296	-0.006	86	230295	20.0	20.7	
45 Propionitrile	54	6.302	6.302	0.000	99	468747	150.0	146.1	
46 Methacrylonitrile	67	6.521	6.527	-0.006	92	1045494	150.0	161.0	
47 Chlorobromomethane	128	6.606	6.606	0.000	96	90014	20.0	19.4	
48 Tetrahydrofuran	71	6.619	6.625	-0.005	91	269701	100.0	91.7	
49 Chloroform	83	6.746	6.752	-0.006	93	285507	20.0	20.1	
$ 50 Dibromofluoromethane (Surr)	113	6.965	6.965	0.000	94	320533	50.0	49.5	
51 1,1,1-Trichloroethane	97	6.990	6.990	0.000	99	228520	20.0	19.4	
52 Cyclohexane	56	7.099	7.099	0.000	91	303187	20.0	19.9	
53 1,1-Dichloropropene	75	7.196	7.202	-0.006	97	243114	20.0	20.6	
54 Carbon tetrachloride	117	7.209	7.209	0.000	97	192975	20.0	19.8	
55 Isobutyl alcohol	41	7.312	7.306	0.006	96	440608	500.0	469.2	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.428	7.428	0.000	98	88724	50.0	49.8	
57 Benzene	78	7.458	7.464	-0.006	97	733008	20.0	20.0	
59 1,2-Dichloroethane	62	7.525	7.531	-0.006	97	249201	20.0	20.8	
60 Tert-amyl methyl ether	73	7.647	7.647	0.000	98	516215	20.0	20.3	
* 62 Fluorobenzene (IS)	96	7.860	7.859	0.001	99	1441335	50.0	50.0	
63 n-Heptane	43	7.872	7.878	-0.006	94	317073	20.0	21.4	
64 n-Butanol	56	8.182	8.188	-0.006	89	838415	1000.0	1008.2	
65 Trichloroethene	95	8.340	8.346	-0.006	99	180239	20.0	20.1	
66 Methylcyclohexane	83	8.663	8.663	0.001	94	328806	20.0	21.0	
67 1,2-Dichloropropane	63	8.669	8.675	-0.006	72	197609	20.0	20.9	
34 2-ethoxy-2-methyl butane	87	8.675	8.675	0.000	91	264560	20.0	20.8	
68 Methyl methacrylate	69	8.736	8.742	-0.006	91	207278	20.0	21.7	
69 1,4-Dioxane	88	8.754	8.754	0.000	93	103129	500.0	575.3	M
70 Dibromomethane	93	8.784	8.784	0.000	97	116651	20.0	20.1	
72 Dichlorobromomethane	83	9.009	9.015	-0.006	99	211613	20.0	20.2	
73 2-Nitropropane	41	9.253	9.253	0.000	99	85107	20.0	18.6	
74 2-Chloroethyl vinyl ether	63	9.356	9.356	0.000	91	160481	20.0	21.8	
75 cis-1,3-Dichloropropene	75	9.545	9.545	0.000	96	301758	20.0	20.8	
76 4-Methyl-2-pentanone (MIBK)	43	9.697	9.703	-0.006	96	1822795	100.0	109.6	
$ 77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	94	1429344	50.0	49.9	
78 Toluene	92	9.928	9.928	0.000	98	458774	20.0	20.0	
80 trans-1,3-Dichloropropene	75	10.171	10.171	0.000	93	277292	20.0	20.7	
81 Ethyl methacrylate	69	10.226	10.232	-0.006	90	319956	20.0	21.5	
82 1,1,2-Trichloroethane	97	10.378	10.378	0.000	90	183369	20.0	20.8	
83 Tetrachloroethene	166	10.476	10.475	0.001	97	198098	20.0	18.2	
84 1,3-Dichloropropane	76	10.536	10.536	0.000	91	314126	20.0	20.3	
86 2-Hexanone	43	10.579	10.579	0.000	97	1529466	100.0	115.3	
88 Chlorodibromomethane	129	10.755	10.761	-0.006	90	172096	20.0	20.0	
89 Ethylene Dibromide	107	10.871	10.871	0.000	98	193079	20.0	20.4	
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	88	1055665	50.0	50.0	
92 1-Chlorohexane	91	11.297	11.297	0.000	98	247351	20.0	20.0	
93 Chlorobenzene	112	11.321	11.321	0.000	94	511346	20.0	20.0	
94 1,1,1,2-Tetrachloroethane	131	11.400	11.406	-0.006	96	155183	20.0	19.0	
95 Ethylbenzene	91	11.406	11.406	0.000	98	874770	20.0	20.5	
96 m-Xylene & p-Xylene	106	11.522	11.522	0.000	100	686980	40.0	41.1	
97 o-Xylene	106	11.844	11.844	0.000	97	324826	20.0	20.1	
98 Styrene	104	11.863	11.862	0.001	95	551363	20.0	20.8	
99 Bromoform	173	12.027	12.027	0.000	97	121777	20.0	18.8	
100 Isopropylbenzene	105	12.142	12.148	-0.006	96	838075	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
102 Cyclohexanone	55	12.215	12.215	0.000	92	384676	500.0	465.7	
$ 103 4-Bromofluorobenzene (Surr)	95	12.288	12.294	-0.006	88	530196	50.0	49.4	
104 1,1,2,2-Tetrachloroethane	83	12.380	12.380	0.000	93	300930	20.0	20.7	
106 trans-1,4-Dichloro-2-butene	53	12.404	12.404	0.000	87	369627	100.0	74.7	
105 Bromobenzene	156	12.410	12.410	0.000	83	216345	20.0	20.8	
107 1,2,3-Trichloropropane	110	12.428	12.428	0.000	82	94603	20.0	20.9	
108 N-Propylbenzene	91	12.471	12.471	0.000	99	1050086	20.0	21.8	
109 2-Chlorotoluene	126	12.550	12.550	0.000	97	202605	20.0	20.3	
110 1,3,5-Trimethylbenzene	105	12.605	12.605	0.000	94	722189	20.0	20.8	
111 4-Chlorotoluene	126	12.641	12.641	0.000	98	214166	20.0	20.6	
113 tert-Butylbenzene	134	12.848	12.848	0.000	94	152203	20.0	21.0	
114 Pentachloroethane	167	12.885	12.885	0.001	88	109048	20.0	23.5	
115 1,2,4-Trimethylbenzene	105	12.891	12.891	0.000	97	741721	20.0	20.8	
116 sec-Butylbenzene	105	13.012	13.012	0.000	94	935444	20.0	21.1	
117 1,3-Dichlorobenzene	146	13.116	13.116	0.000	97	412289	20.0	20.5	
118 4-Isopropyltoluene	119	13.122	13.122	0.000	97	801376	20.0	21.3	
* 119 1,4-Dichlorobenzene-d4	152	13.171	13.170	0.001	95	548314	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.189	13.189	0.000	93	427677	20.0	20.6	
120 1,2,3-Trimethylbenzene	105	13.195	13.195	0.000	98	785343	20.0	22.1	
122 Benzyl chloride	91	13.262	13.262	0.000	99	613063	20.0	21.5	
123 1,3-Diethylbenzene	119	13.323	13.323	0.000	95	486497	20.0	21.5	
124 p-Diethylbenzene	119	13.396	13.396	0.000	96	520678	20.0	21.9	
125 n-Butylbenzene	92	13.414	13.414	0.000	98	420209	20.0	20.9	
126 1,2-Dichlorobenzene	146	13.450	13.450	0.000	98	389908	20.0	19.7	
127 o-diethylbenzene	119	13.463	13.462	0.001	96	404502	20.0	21.3	
129 1,2-Dibromo-3-Chloropropane	75	13.986	13.986	0.000	83	73944	20.0	20.7	
130 1,3,5-Trichlorobenzene	180	14.120	14.119	0.001	97	293767	20.0	18.9	
131 1,2,4-Trichlorobenzene	180	14.539	14.539	0.000	94	267822	20.0	18.5	
132 Hexachlorobutadiene	225	14.625	14.624	0.000	97	126602	20.0	18.9	
133 Naphthalene	128	14.722	14.722	0.000	97	935976	20.0	19.3	
134 1,2,3-Trichlorobenzene	180	14.868	14.868	0.000	96	256010	20.0	18.2	
135 2-Methylnaphthalene	142	15.513	15.513	0.000	92	550484	20.0	20.1	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_Q_QVOA1_00048	Amount Added: 50.00	Units: uL	
MSV_Q_QARC_00047	Amount Added: 50.00	Units: uL	
MSV_Q_QVOA6_00046	Amount Added: 50.00	Units: uL	
MSV_Q_EE_00002	Amount Added: 50.00	Units: uL	
MSV_QCYC_00004	Amount Added: 50.00	Units: uL	
MSV_Q_QGases_00091	Amount Added: 50.00	Units: uL	
MSV_HP20_ISSS_00026	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 05-Oct-2020 13:33:49 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05L02.D

Injection Date: 05-Oct-2020 12:41:30 Instrument ID: 9355 Operator ID: kas02648

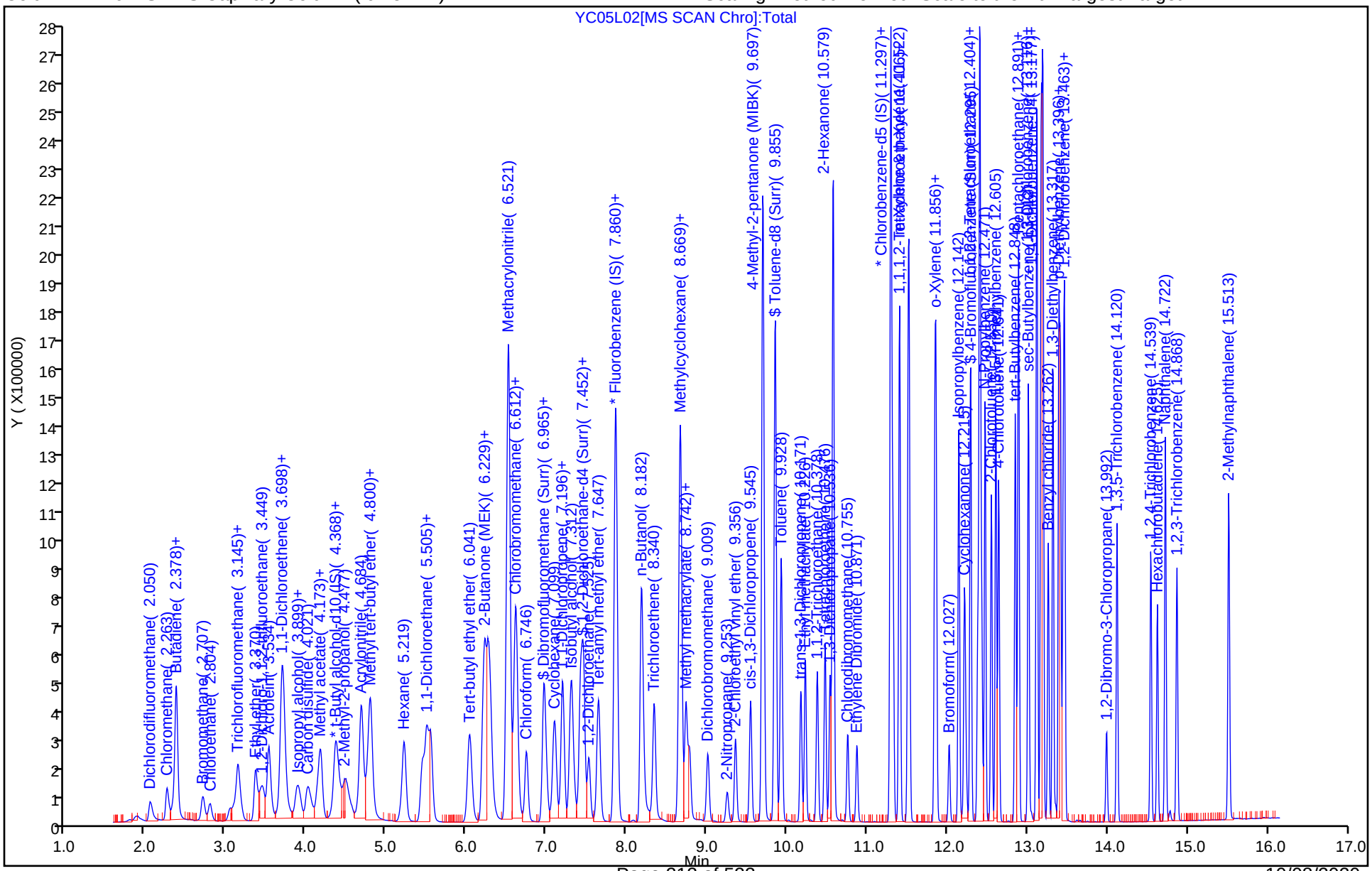
Lims ID: LCSD Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 5

Method: MSVoa_9355 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.: 410-15514-1

SDG No.:

Client Sample ID: MW-10D-20200928 MS Lab Sample ID: 410-15514-3 MS

Matrix: Ground Water Lab File ID: YC05S09.D

Analysis Method: 8260C Date Collected: 09/28/2020 13:57

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2020 16:43

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.: 50869 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	21.6		1.0	0.20
100-41-4	Ethylbenzene	21.9		1.0	0.40
108-88-3	Toluene	21.4		1.0	0.20
1330-20-7	Xylenes, Total	65.4		6.0	1.4
1634-04-4	Methyl tertiary butyl ether	19.7		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		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\9355\20201005-12071.b\YC05S09.D
Lims ID: 410-15514-A-3 MS
Client ID: MW-10D-20200928
Sample Type: MS
Inject. Date: 05-Oct-2020 16:43:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0012071-016
Operator ID: kas02648 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2020 13:38:01 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1018

First Level Reviewer: mellingerc Date: 06-Oct-2020 13:14:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.050	2.062	-0.012	99	153205	20.0	16.5	
4 Chloromethane	50	2.257	2.269	-0.012	99	185411	20.0	19.3	
5 Butadiene	39	2.378	2.384	-0.006	91	225469	20.0	33.3	
6 Vinyl chloride	62	2.378	2.384	-0.006	89	177752	20.0	19.9	
8 Bromomethane	94	2.707	2.719	-0.012	90	109854	20.0	17.6	
9 Chloroethane	64	2.798	2.810	-0.012	100	97239	20.0	17.6	
11 Trichlorofluoromethane	101	3.120	3.120	0.000	99	223912	20.0	20.2	
12 Pentane	43	3.151	3.157	-0.006	96	208717	20.0	19.1	
14 Ethyl ether	59	3.370	3.376	-0.006	92	172994	20.0	20.9	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.449	3.449	0.000	94	198764	20.0	21.9	
16 Acrolein	56	3.534	3.540	-0.006	99	447450	149.7	114.6	
17 1,1-Dichloroethene	96	3.692	3.698	-0.006	96	150039	20.0	22.9	
18 Acetone	58	3.704	3.710	-0.006	100	276959	150.0	136.9	
19 112TCTFE	101	3.723	3.735	-0.012	93	138324	20.0	20.5	
20 Isopropyl alcohol	45	3.881	3.875	0.006	100	185624	150.0	127.7	
21 Iodomethane	142	3.905	3.911	-0.006	97	234997	20.0	19.9	
22 Carbon disulfide	76	4.021	4.033	-0.012	99	477343	20.0	20.7	
24 Methyl acetate	43	4.136	4.142	-0.006	98	262151	20.0	22.4	
25 3-Chloro-1-propene	41	4.179	4.185	-0.006	92	280933	20.0	22.7	
* 26 t-Butyl alcohol-d10 (IS)	65	4.368	4.361	0.007	93	477327	250.0	250.0	
27 Methylene Chloride	84	4.374	4.380	-0.006	93	173323	20.0	20.9	
28 2-Methyl-2-propanol	59	4.501	4.489	0.012	98	475127	200.0	184.0	
30 Acrylonitrile	53	4.684	4.690	-0.006	99	662431	100.0	104.1	
31 Methyl tert-butyl ether	73	4.787	4.793	-0.006	98	499812	20.0	19.7	
32 trans-1,2-Dichloroethene	96	4.806	4.812	-0.006	97	173034	20.0	22.3	
33 Hexane	57	5.219	5.225	-0.006	94	290135	20.0	23.7	
36 1,1-Dichloroethane	63	5.444	5.450	-0.006	96	315403	20.0	22.0	
37 Isopropyl ether	45	5.505	5.505	0.000	94	548955	20.0	20.5	
38 2-Chloro-1,3-butadiene	53	5.560	5.560	0.000	91	270161	20.0	23.1	
39 Tert-butyl ethyl ether	59	6.041	6.040	0.001	98	499655	20.0	20.3	
41 2-Butanone (MEK)	43	6.223	6.229	-0.006	100	1436035	150.0	167.1	
42 cis-1,2-Dichloroethene	96	6.272	6.272	0.000	83	201310	20.0	22.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2,2-Dichloropropane	77	6.296	6.296	0.000	89	236790	20.0	22.4	
45 Propionitrile	54	6.296	6.302	-0.006	100	444625	150.0	152.0	
46 Methacrylonitrile	67	6.527	6.527	0.000	92	1006465	150.0	163.2	
47 Chlorobromomethane	128	6.606	6.606	0.000	96	90192	20.0	20.5	
48 Tetrahydrofuran	71	6.625	6.625	0.001	91	259391	100.0	96.8	
49 Chloroform	83	6.752	6.752	0.000	93	293880	20.0	21.8	
$ 50 Dibromofluoromethane (Surr)	113	6.965	6.965	0.000	93	304549	50.0	49.5	
51 1,1,1-Trichloroethane	97	6.990	6.990	0.000	99	240470	20.0	21.5	
52 Cyclohexane	56	7.099	7.099	0.000	91	315829	20.0	21.8	
53 1,1-Dichloropropene	75	7.196	7.202	-0.006	98	254973	20.0	22.7	
54 Carbon tetrachloride	117	7.209	7.209	0.000	97	205417	20.0	22.2	
55 Isobutyl alcohol	41	7.312	7.306	0.006	95	417395	500.0	487.5	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.422	7.428	-0.006	98	85381	50.0	50.5	
57 Benzene	78	7.458	7.464	-0.006	96	749849	20.0	21.6	
59 1,2-Dichloroethane	62	7.531	7.531	0.000	97	248589	20.0	21.9	
60 Tert-amyl methyl ether	73	7.647	7.647	0.000	96	488921	20.0	20.2	
* 62 Fluorobenzene (IS)	96	7.860	7.859	0.001	97	1368394	50.0	50.0	
63 n-Heptane	43	7.872	7.878	-0.006	93	326874	20.0	23.3	
64 n-Butanol	56	8.188	8.188	0.000	89	772654	1000.0	1019.0	
65 Trichloroethene	95	8.340	8.346	-0.006	99	187740	20.0	22.1	
66 Methylcyclohexane	83	8.663	8.663	0.001	97	348065	20.0	23.4	
67 1,2-Dichloropropane	63	8.669	8.675	-0.006	85	197607	20.0	22.0	
34 2-ethoxy-2-methyl butane	87	8.675	8.675	0.000	91	257924	20.0	21.3	
68 Methyl methacrylate	69	8.742	8.742	0.000	92	195793	20.0	21.6	
69 1,4-Dioxane	88	8.754	8.754	0.000	94	99138	500.0	606.6	M
70 Dibromomethane	93	8.784	8.784	0.000	97	115740	20.0	21.0	
72 Dichlorobromomethane	83	9.015	9.015	0.000	99	211372	20.0	21.3	
73 2-Nitropropane	41	9.253	9.253	0.000	99	77694	20.0	18.6	
74 2-Chloroethyl vinyl ether	63		9.356				20.0	ND	7
75 cis-1,3-Dichloropropene	75	9.545	9.545	0.000	96	289244	20.0	21.0	
76 4-Methyl-2-pentanone (MIBK)	43	9.703	9.703	0.000	97	1736404	100.0	110.0	
$ 77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	94	1363854	50.0	49.7	
78 Toluene	92	9.928	9.928	0.000	98	469140	20.0	21.4	
80 trans-1,3-Dichloropropene	75	10.171	10.171	0.000	93	267231	20.0	20.8	
81 Ethyl methacrylate	69	10.232	10.232	0.000	90	305549	20.0	21.5	
82 1,1,2-Trichloroethane	97	10.378	10.378	0.000	90	181041	20.0	21.5	
83 Tetrachloroethene	166	10.475	10.475	0.000	97	199462	20.0	19.1	
84 1,3-Dichloropropane	76	10.536	10.536	0.000	91	309339	20.0	20.9	
86 2-Hexanone	43	10.579	10.579	0.000	97	1454960	100.0	114.5	
88 Chlorodibromomethane	129	10.761	10.761	0.000	90	170383	20.0	20.6	
89 Ethylene Dibromide	107	10.871	10.871	0.000	98	188738	20.0	20.8	
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	88	1011308	50.0	50.0	
92 1-Chlorohexane	91	11.297	11.297	0.000	98	258137	20.0	21.8	
93 Chlorobenzene	112	11.321	11.321	0.000	94	524310	20.0	21.4	
94 1,1,1,2-Tetrachloroethane	131	11.406	11.406	0.000	96	157978	20.0	20.2	
95 Ethylbenzene	91	11.406	11.406	0.000	98	896016	20.0	21.9	
96 m-Xylene & p-Xylene	106	11.522	11.522	0.000	100	708755	40.0	44.2	
97 o-Xylene	106	11.844	11.844	0.000	97	329545	20.0	21.2	
98 Styrene	104	11.863	11.862	0.001	95	561431	20.0	22.1	
99 Bromoform	173	12.027	12.027	0.000	97	119576	20.0	19.3	
100 Isopropylbenzene	105	12.142	12.148	-0.006	96	864643	20.0	21.8	
102 Cyclohexanone	55	12.215	12.215	0.000	92	361659	500.0	480.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 103 4-Bromofluorobenzene (Surr)	95	12.288	12.294	-0.006	89	506862	50.0	49.3	
104 1,1,2,2-Tetrachloroethane	83	12.380	12.380	0.000	94	293474	20.0	20.8	
106 trans-1,4-Dichloro-2-butene	53	12.404	12.404	0.000	89	472494	100.0	98.4	
105 Bromobenzene	156	12.410	12.410	0.000	77	221377	20.0	21.9	
107 1,2,3-Trichloropropane	110	12.428	12.428	0.000	82	92793	20.0	21.1	
108 N-Propylbenzene	91	12.471	12.471	0.000	99	1087381	20.0	23.2	
109 2-Chlorotoluene	126	12.550	12.550	0.000	96	208537	20.0	21.5	
110 1,3,5-Trimethylbenzene	105	12.605	12.605	0.000	94	745081	20.0	22.1	
111 4-Chlorotoluene	126	12.641	12.641	0.000	98	222653	20.0	22.1	
113 tert-Butylbenzene	134	12.848	12.848	0.000	93	157958	20.0	22.4	
114 Pentachloroethane	167	12.885	12.885	0.001	91	118632	20.0	26.4	
115 1,2,4-Trimethylbenzene	105	12.891	12.891	0.000	97	764621	20.0	22.1	
116 sec-Butylbenzene	105	13.012	13.012	0.000	94	978257	20.0	22.8	
117 1,3-Dichlorobenzene	146	13.116	13.116	0.000	97	422125	20.0	21.6	
118 4-Isopropyltoluene	119	13.122	13.122	0.000	97	834733	20.0	22.9	
* 119 1,4-Dichlorobenzene-d4	152	13.171	13.170	0.000	95	532087	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.189	13.189	0.000	94	436662	20.0	21.7	
120 1,2,3-Trimethylbenzene	105	13.195	13.195	0.000	98	796019	20.0	23.0	
122 Benzyl chloride	91	13.262	13.262	0.000	99	589704	20.0	21.3	
123 1,3-Diethylbenzene	119	13.323	13.323	0.000	95	499280	20.0	22.7	
124 p-Diethylbenzene	119	13.396	13.396	0.000	95	538635	20.0	23.4	
125 n-Butylbenzene	92	13.414	13.414	0.000	96	439472	20.0	22.6	
126 1,2-Dichlorobenzene	146	13.450	13.450	0.000	98	397831	20.0	20.8	
127 o-diethylbenzene	119	13.463	13.462	0.001	96	412696	20.0	22.4	
129 1,2-Dibromo-3-Chloropropane	75	13.986	13.986	0.000	84	70570	20.0	20.3	
130 1,3,5-Trichlorobenzene	180	14.120	14.119	0.001	98	298692	20.0	19.8	
131 1,2,4-Trichlorobenzene	180	14.545	14.539	0.006	94	264872	20.0	18.9	
132 Hexachlorobutadiene	225	14.624	14.624	0.000	97	131541	20.0	20.3	
133 Naphthalene	128	14.722	14.722	0.000	97	899717	20.0	19.1	
134 1,2,3-Trichlorobenzene	180	14.868	14.868	0.000	96	252422	20.0	18.4	
135 2-Methylnaphthalene	142	15.513	15.513	0.000	92	505141	20.0	19.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_Q_QVOA1_00048	Amount Added: 21.50	Units: uL	
MSV_Q_QARC_00047	Amount Added: 21.50	Units: uL	
MSV_Q_QVOA6_00046	Amount Added: 21.50	Units: uL	
MSV_Q_EE_00002	Amount Added: 21.50	Units: uL	
MSV_QCYC_00004	Amount Added: 21.50	Units: uL	
MSV_Q_QGases_00091	Amount Added: 21.50	Units: uL	
MSV_HP20_ISSS_00026	Amount Added: 1.00	Units: uL	Run Reagent

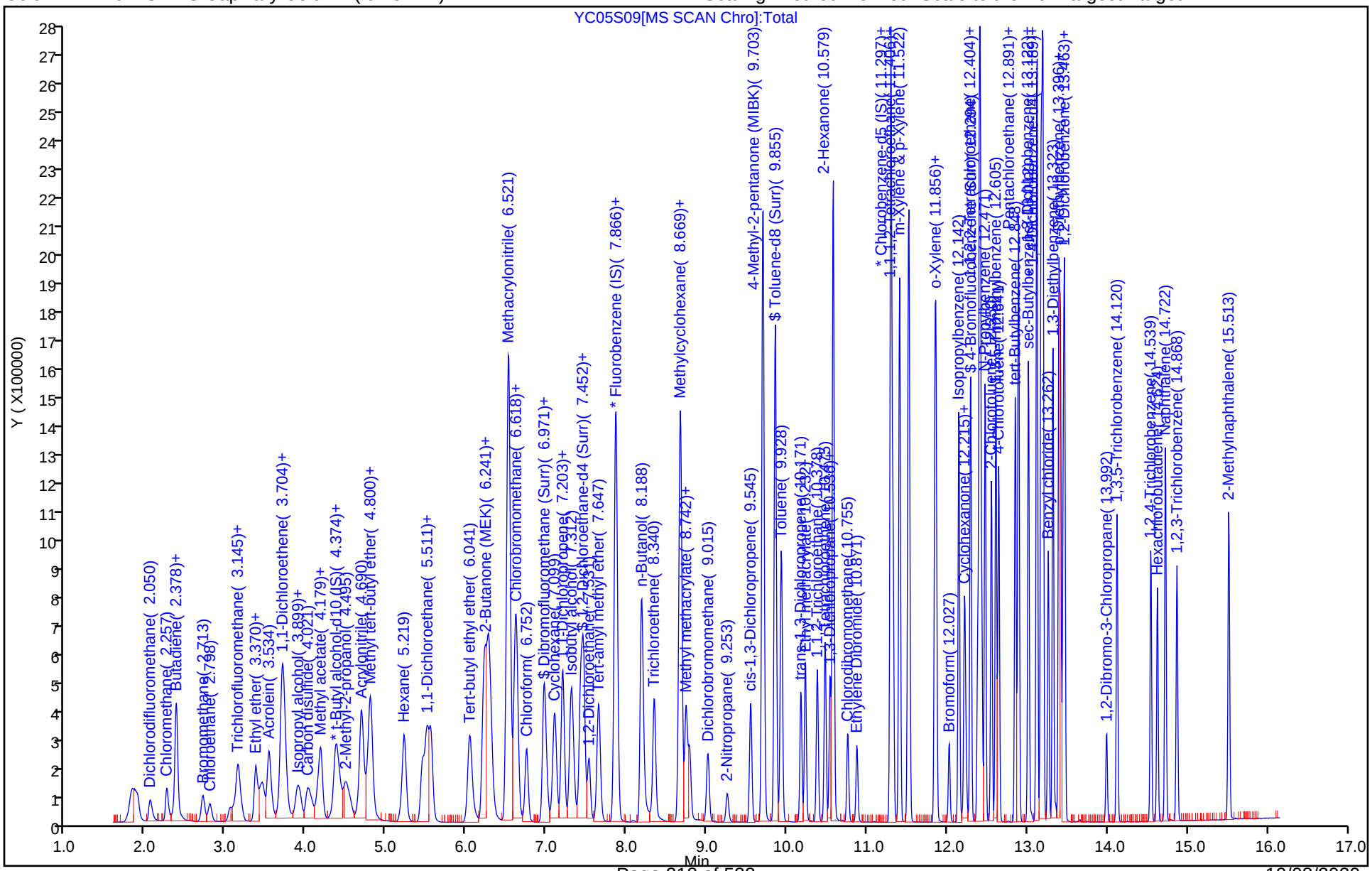
Report Date: 06-Oct-2020 13:38:22 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S09.D

Injection Date:	05-Oct-2020 16:43:30	Instrument ID:	9355	Operator ID:	kas02648
Lims ID:	410-15514-A-3 MS			Worklist Smp#:	16
Client ID:	MW-10D-20200928				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MSVoa_9355	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.: 410-15514-1

SDG No.:

Client Sample ID: MW-10D-20200928 MSD Lab Sample ID: 410-15514-3 MSD

Matrix: Ground Water Lab File ID: YC05S10.D

Analysis Method: 8260C Date Collected: 09/28/2020 13:57

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2020 17:05

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.: 50869 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	21.5		1.0	0.20
100-41-4	Ethylbenzene	21.9		1.0	0.40
108-88-3	Toluene	21.3		1.0	0.20
1330-20-7	Xylenes, Total	65.1		6.0	1.4
1634-04-4	Methyl tertiary butyl ether	19.8		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		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\9355\20201005-12071.b\YC05S10.D
Lims ID: 410-15514-A-3 MSD
Client ID: MW-10D-20200928
Sample Type: MSD
Inject. Date: 05-Oct-2020 17:05:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0012071-017
Operator ID: kas02648 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2020 13:38:01 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1018

First Level Reviewer: mellingerc Date: 06-Oct-2020 13:16:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.050	2.062	-0.012	99	155319	20.0	16.7	
4 Chloromethane	50	2.256	2.269	-0.013	99	182677	20.0	18.9	
5 Butadiene	39	2.378	2.384	-0.006	91	217616	20.0	32.0	
6 Vinyl chloride	62	2.378	2.384	-0.006	86	179282	20.0	20.0	
8 Bromomethane	94	2.707	2.719	-0.012	90	107810	20.0	17.2	
9 Chloroethane	64	2.798	2.810	-0.012	100	94615	20.0	17.0	
11 Trichlorofluoromethane	101	3.114	3.120	-0.006	99	222302	20.0	19.9	
12 Pentane	43	3.151	3.157	-0.006	96	214178	20.0	19.5	
14 Ethyl ether	59	3.364	3.376	-0.012	91	170824	20.0	20.5	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.443	3.449	-0.006	95	198327	20.0	21.8	
16 Acrolein	56	3.534	3.540	-0.006	99	442321	149.7	110.8	
17 1,1-Dichloroethene	96	3.686	3.698	-0.012	97	150592	20.0	22.9	
18 Acetone	58	3.704	3.710	-0.006	100	264224	150.0	127.8	
19 112TCTFE	101	3.723	3.735	-0.012	94	137234	20.0	20.2	
20 Isopropyl alcohol	45	3.875	3.875	0.000	100	175750	150.0	118.3	
21 Iodomethane	142	3.905	3.911	-0.006	97	232574	20.0	19.6	
22 Carbon disulfide	76	4.027	4.033	-0.006	99	477861	20.0	20.6	
24 Methyl acetate	43	4.136	4.142	-0.006	98	260372	20.0	22.2	
25 3-Chloro-1-propene	41	4.179	4.185	-0.006	92	284733	20.0	23.0	
* 26 t-Butyl alcohol-d10 (IS)	65	4.361	4.361	0.000	91	487732	250.0	250.0	
27 Methylene Chloride	84	4.374	4.380	-0.006	93	173341	20.0	20.8	
28 2-Methyl-2-propanol	59	4.489	4.489	0.000	98	490361	200.0	185.9	
30 Acrylonitrile	53	4.684	4.690	-0.006	99	659998	100.0	103.3	
31 Methyl tert-butyl ether	73	4.787	4.793	-0.006	96	505424	20.0	19.8	
32 trans-1,2-Dichloroethene	96	4.805	4.812	-0.007	98	172677	20.0	22.1	
33 Hexane	57	5.219	5.225	-0.006	92	291588	20.0	23.7	a
36 1,1-Dichloroethane	63	5.444	5.450	-0.006	96	317215	20.0	22.0	
37 Isopropyl ether	45	5.505	5.505	0.000	94	554791	20.0	20.7	
38 2-Chloro-1,3-butadiene	53	5.554	5.560	-0.006	91	270780	20.0	23.0	
39 Tert-butyl ethyl ether	59	6.040	6.040	0.000	97	504487	20.0	20.4	
41 2-Butanone (MEK)	43	6.223	6.229	-0.006	100	1448968	150.0	167.9	
42 cis-1,2-Dichloroethene	96	6.272	6.272	0.000	83	200716	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
44 2,2-Dichloropropane	77	6.290	6.296	-0.006	87	235663	20.0	22.2	
45 Propionitrile	54	6.302	6.302	0.000	100	446815	150.0	149.5	
46 Methacrylonitrile	67	6.521	6.527	-0.006	92	1011833	150.0	163.4	
47 Chlorobromomethane	128	6.606	6.606	0.000	61	89266	20.0	20.2	
48 Tetrahydrofuran	71	6.618	6.625	-0.006	91	259508	100.0	94.7	
49 Chloroform	83	6.746	6.752	-0.006	93	293111	20.0	21.7	
$ 50 Dibromofluoromethane (Surr)	113	6.965	6.965	0.000	94	306807	50.0	49.7	
51 1,1,1-Trichloroethane	97	6.989	6.990	-0.001	99	240215	20.0	21.4	
52 Cyclohexane	56	7.099	7.099	0.000	91	319711	20.0	22.0	
53 1,1-Dichloropropene	75	7.196	7.202	-0.006	97	254836	20.0	22.6	
54 Carbon tetrachloride	117	7.202	7.209	-0.007	97	206301	20.0	22.2	
55 Isobutyl alcohol	41	7.312	7.306	0.006	95	418957	500.0	478.9	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.421	7.428	-0.007	98	85255	50.0	50.2	
57 Benzene	78	7.458	7.464	-0.006	97	751062	20.0	21.5	
59 1,2-Dichloroethane	62	7.525	7.531	-0.006	97	251315	20.0	22.0	
60 Tert-amyl methyl ether	73	7.646	7.647	-0.001	97	494427	20.0	20.4	
* 62 Fluorobenzene (IS)	96	7.859	7.859	0.000	98	1374173	50.0	50.0	
63 n-Heptane	43	7.872	7.878	-0.006	93	333941	20.0	23.7	
64 n-Butanol	56	8.182	8.188	-0.006	89	783832	1000.0	1011.7	
65 Trichloroethene	95	8.340	8.346	-0.006	99	188932	20.0	22.1	
66 Methylcyclohexane	83	8.662	8.663	0.000	92	347241	20.0	23.2	
67 1,2-Dichloropropane	63	8.669	8.675	-0.006	73	197493	20.0	21.9	
34 2-ethoxy-2-methyl butane	87	8.675	8.675	0.000	90	261834	20.0	21.6	
68 Methyl methacrylate	69	8.742	8.742	0.000	92	198149	20.0	21.8	
69 1,4-Dioxane	88	8.754	8.754	0.000	92	100197	500.0	600.0	M
70 Dibromomethane	93	8.784	8.784	0.000	97	117265	20.0	21.2	
72 Dichlorobromomethane	83	9.009	9.015	-0.006	100	212590	20.0	21.3	
73 2-Nitropropane	41	9.253	9.253	0.000	98	81791	20.0	19.2	
74 2-Chloroethyl vinyl ether	63	9.411	9.356	0.055	1	746	20.0	0.1064	
75 cis-1,3-Dichloropropene	75	9.545	9.545	0.000	96	295249	20.0	21.4	
76 4-Methyl-2-pentanone (MIBK)	43	9.697	9.703	-0.006	97	1748856	100.0	110.3	
$ 77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	94	1370459	50.0	49.6	
78 Toluene	92	9.928	9.928	0.000	98	470882	20.0	21.3	
80 trans-1,3-Dichloropropene	75	10.171	10.171	0.000	93	271650	20.0	21.0	
81 Ethyl methacrylate	69	10.232	10.232	0.000	90	307809	20.0	21.5	
82 1,1,2-Trichloroethane	97	10.378	10.378	0.000	90	182247	20.0	21.4	
83 Tetrachloroethene	166	10.475	10.475	0.000	97	198398	20.0	18.9	
84 1,3-Dichloropropane	76	10.536	10.536	0.000	91	309694	20.0	20.7	
86 2-Hexanone	43	10.579	10.579	0.000	97	1475494	100.0	115.3	
88 Chlorodibromomethane	129	10.761	10.761	0.000	90	170296	20.0	20.5	
89 Ethylene Dibromide	107	10.871	10.871	0.000	98	188956	20.0	20.7	
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	87	1019050	50.0	50.0	
92 1-Chlorohexane	91	11.297	11.297	0.000	97	260251	20.0	21.8	
93 Chlorobenzene	112	11.321	11.321	0.000	94	521028	20.0	21.1	
94 1,1,1,2-Tetrachloroethane	131	11.406	11.406	0.000	95	155648	20.0	19.8	
95 Ethylbenzene	91	11.406	11.406	0.000	98	902937	20.0	21.9	
96 m-Xylene & p-Xylene	106	11.522	11.522	0.000	100	710900	40.0	44.0	
97 o-Xylene	106	11.850	11.844	0.006	97	330221	20.0	21.1	
98 Styrene	104	11.862	11.862	0.000	95	563249	20.0	22.0	
99 Bromoform	173	12.027	12.027	0.000	96	118173	20.0	18.9	
100 Isopropylbenzene	105	12.142	12.148	-0.006	96	865274	20.0	21.7	
102 Cyclohexanone	55	12.215	12.215	0.000	93	357017	500.0	463.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 103 4-Bromofluorobenzene (Surr)	95	12.294	12.294	0.000	90	507929	50.0	49.0	
104 1,1,2,2-Tetrachloroethane	83	12.380	12.380	0.000	93	292612	20.0	20.9	
106 trans-1,4-Dichloro-2-butene	53	12.404	12.404	0.000	89	478705	100.0	100.3	
105 Bromobenzene	156	12.410	12.410	0.000	77	218430	20.0	21.8	
107 1,2,3-Trichloropropane	110	12.428	12.428	0.000	82	93371	20.0	21.4	
108 N-Propylbenzene	91	12.471	12.471	0.000	99	1079657	20.0	23.2	
109 2-Chlorotoluene	126	12.550	12.550	0.000	96	207797	20.0	21.5	
110 1,3,5-Trimethylbenzene	105	12.611	12.605	0.006	94	740630	20.0	22.1	
111 4-Chlorotoluene	126	12.641	12.641	0.000	98	220654	20.0	22.0	
113 tert-Butylbenzene	134	12.848	12.848	0.000	93	157623	20.0	22.5	
114 Pentachloroethane	167	12.884	12.885	0.000	91	116449	20.0	26.1	
115 1,2,4-Trimethylbenzene	105	12.891	12.891	0.000	97	758331	20.0	22.0	
116 sec-Butylbenzene	105	13.012	13.012	0.000	94	974187	20.0	22.8	
117 1,3-Dichlorobenzene	146	13.116	13.116	0.000	97	419661	20.0	21.6	
118 4-Isopropyltoluene	119	13.122	13.122	0.000	97	830238	20.0	22.9	
* 119 1,4-Dichlorobenzene-d4	152	13.170	13.170	0.000	96	528809	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.189	13.189	0.000	93	432534	20.0	21.6	
120 1,2,3-Trimethylbenzene	105	13.195	13.195	0.000	98	782397	20.0	22.8	
122 Benzyl chloride	91	13.262	13.262	0.000	99	588728	20.0	21.4	
123 1,3-Diethylbenzene	119	13.322	13.323	-0.001	95	489863	20.0	22.5	
124 p-Diethylbenzene	119	13.395	13.396	-0.001	94	527356	20.0	23.0	
125 n-Butylbenzene	92	13.414	13.414	0.000	97	436421	20.0	22.5	
126 1,2-Dichlorobenzene	146	13.450	13.450	0.000	98	395375	20.0	20.8	
127 o-diethylbenzene	119	13.462	13.462	0.000	96	409467	20.0	22.4	
129 1,2-Dibromo-3-Chloropropane	75	13.992	13.986	0.006	83	70972	20.0	20.6	
130 1,3,5-Trichlorobenzene	180	14.119	14.119	0.000	98	295984	20.0	19.8	
131 1,2,4-Trichlorobenzene	180	14.545	14.539	0.006	94	262254	20.0	18.8	
132 Hexachlorobutadiene	225	14.624	14.624	0.000	97	131772	20.0	20.4	
133 Naphthalene	128	14.722	14.722	0.000	97	901329	20.0	19.2	
134 1,2,3-Trichlorobenzene	180	14.868	14.868	0.000	95	251021	20.0	18.5	
135 2-Methylnaphthalene	142	15.513	15.513	0.000	92	508693	20.0	19.2	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_Q_QVOA1_00048	Amount Added: 21.50	Units: uL	
MSV_Q_QARC_00047	Amount Added: 21.50	Units: uL	
MSV_Q_QVOA6_00046	Amount Added: 21.50	Units: uL	
MSV_Q_EE_00002	Amount Added: 21.50	Units: uL	
MSV_QCYC_00004	Amount Added: 21.50	Units: uL	
MSV_Q_QGases_00091	Amount Added: 21.50	Units: uL	
MSV_HP20_ISSS_00026	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 06-Oct-2020 13:38:29 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201005-12071.b\YC05S10.D

Injection Date: 05-Oct-2020 17:05:30 Instrument ID: 9355 Operator ID: kas02648

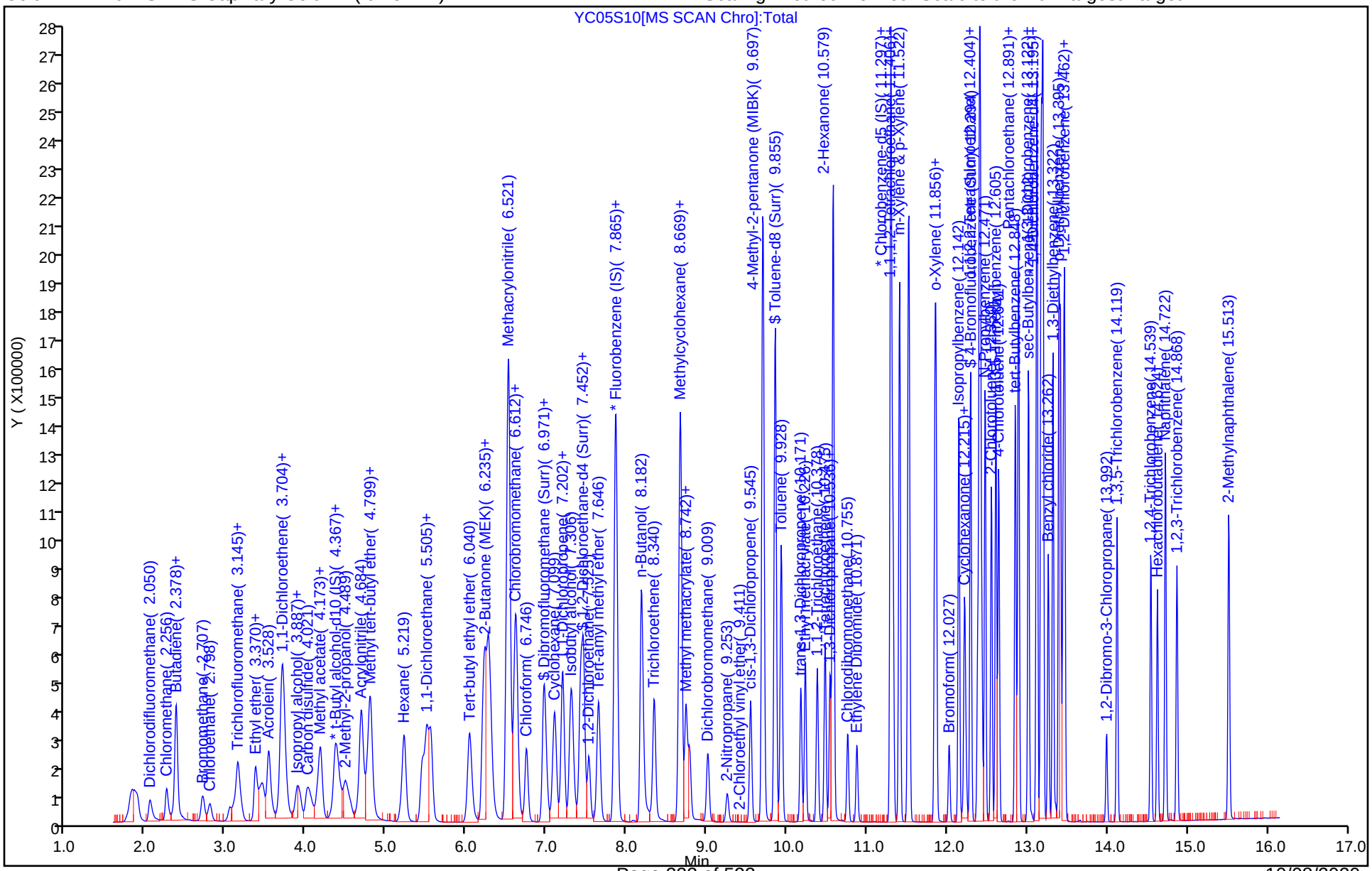
Lims ID: 410-15514-A-3 MSD Worklist Smp#: 17

Client ID: MW-10D-20200928

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 17

Method: MSVoa_9355 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.: 410-15514-1

SDG No.:

Instrument ID: 9355 Start Date: 09/21/2020 13:28

Analysis Batch Number: 46013 End Date: 09/21/2020 17:00

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-46013/1		09/21/2020 13:28	1	Ys21T01.D	R-624SilMS 30m 0.25(mm)
IC 410-46013/3		09/21/2020 14:04	1	Ys21I01.D	R-624SilMS 30m 0.25(mm)
IC 410-46013/4		09/21/2020 14:26	1	Ys21I02.D	R-624SilMS 30m 0.25(mm)
ICIS 410-46013/5		09/21/2020 14:48	1	Ys21I03.D	R-624SilMS 30m 0.25(mm)
IC 410-46013/6		09/21/2020 15:10	1	Ys21I04.D	R-624SilMS 30m 0.25(mm)
IC 410-46013/7		09/21/2020 15:32	1	Ys21I05.D	R-624SilMS 30m 0.25(mm)
IC 410-46013/8		09/21/2020 15:53	1	Ys21I06.D	R-624SilMS 30m 0.25(mm)
IC 410-46013/9		09/21/2020 16:16	1	Ys21I07.D	R-624SilMS 30m 0.25(mm)
ICV 410-46013/11		09/21/2020 17:00	1	Ys21v01.D	R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1

SDG No.:

Instrument ID: 9355 Start Date: 10/05/2020 11:18

Analysis Batch Number: 50869 End Date: 10/05/2020 21:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-50869/1		10/05/2020 11:18	1	YC05T01.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-50869/3		10/05/2020 11:57	1	YC05C01.D	R-624SilMS 30m 0.25(mm)
LCS 410-50869/4		10/05/2020 12:19	1	YC05L01.D	R-624SilMS 30m 0.25(mm)
LCSD 410-50869/5		10/05/2020 12:41	1	YC05L02.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		10/05/2020 13:03	1		R-624SilMS 30m 0.25(mm)
MB 410-50869/7		10/05/2020 13:25	1	YC05B01.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		10/05/2020 13:47	1		R-624SilMS 30m 0.25(mm)
410-15514-10	FB-20200929	10/05/2020 14:09	1	YC05S02.D	R-624SilMS 30m 0.25(mm)
410-15514-16	TB-20200929	10/05/2020 14:31	1	YC05S03.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		10/05/2020 14:53	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/05/2020 15:15	1		R-624SilMS 30m 0.25(mm)
410-15514-1	MW-1-20200928	10/05/2020 15:37	5	YC05S06.D	R-624SilMS 30m 0.25(mm)
410-15514-2	MW-10S-20200928	10/05/2020 15:59	1	YC05S07.D	R-624SilMS 30m 0.25(mm)
410-15514-3	MW-10D-20200928	10/05/2020 16:21	1	YC05S08.D	R-624SilMS 30m 0.25(mm)
410-15514-3 MS	MW-10D-20200928 MS	10/05/2020 16:43	1	YC05S09.D	R-624SilMS 30m 0.25(mm)
410-15514-3 MSD	MW-10D-20200928 MSD	10/05/2020 17:05	1	YC05S10.D	R-624SilMS 30m 0.25(mm)
410-15514-4	MW-7S-20200928	10/05/2020 17:28	1	YC05S11.D	R-624SilMS 30m 0.25(mm)
410-15514-5	MW-7D-20200928	10/05/2020 17:50	1	YC05S12.D	R-624SilMS 30m 0.25(mm)
410-15514-6	MW-8S-20200928	10/05/2020 18:12	1	YC05S13.D	R-624SilMS 30m 0.25(mm)
410-15514-7	MW-8D-20200929	10/05/2020 18:34	1	YC05S14.D	R-624SilMS 30m 0.25(mm)
410-15514-8	MW-14S-20200929	10/05/2020 18:55	1	YC05S15.D	R-624SilMS 30m 0.25(mm)
410-15514-9	MW-14D-20200929	10/05/2020 19:18	1	YC05S16.D	R-624SilMS 30m 0.25(mm)
410-15514-11	MW-12S-20200929	10/05/2020 19:40	1	YC05S17.D	R-624SilMS 30m 0.25(mm)
410-15514-12	MW-12D-20200929	10/05/2020 20:02	1	YC05S18.D	R-624SilMS 30m 0.25(mm)
410-15514-13	MW-4S-20200929	10/05/2020 20:23	1	YC05S19.D	R-624SilMS 30m 0.25(mm)
410-15514-14	MW-4D-20200929	10/05/2020 20:45	1	YC05S20.D	R-624SilMS 30m 0.25(mm)
410-15514-15	MW-11S-20200929	10/05/2020 21:07	5	YC05S21.D	R-624SilMS 30m 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-15514-1

SDG No.:

Batch Number: 46013 Batch Start Date: 09/21/20 13:28 Batch Analyst: Campbell, Miranda E

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MSV_4ppbEE 00085	MSV_DCFM 00022	MSV_HP20_ISSS 00025	MSV_Q_EE 00002
BFB 410-46013/1		8260C		1 uL	1 uL				
IC 410-46013/3		8260C		5 mL	5 mL		7.5 uL	1 uL	
IC 410-46013/4		8260C		5 mL	5 mL		2.5 uL	1 uL	
ICIS 410-46013/5		8260C		5 mL	5 mL		2.5 uL	1 uL	
IC 410-46013/6		8260C		5 mL	5 mL		2 uL	1 uL	
IC 410-46013/7		8260C		5 mL	5 mL		1 uL	1 uL	
IC 410-46013/8		8260C		5 mL	5 mL		2 uL	1 uL	
IC 410-46013/9		8260C		5 mL	5 mL	12.5 mL		1 uL	
ICV 410-46013/11		8260C		5 mL	5 mL			1 uL	50 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_Q_QARC 00046	MSV_Q_QDCFM 00004	MSV_Q_QGases 00088	MSV_Q_QVOA1 00047	MSV_Q_QVOA6 00044	MSV_QCYC 00004
BFB 410-46013/1		8260C							
IC 410-46013/3		8260C							
IC 410-46013/4		8260C							
ICIS 410-46013/5		8260C							
IC 410-46013/6		8260C							
IC 410-46013/7		8260C							
IC 410-46013/8		8260C							
IC 410-46013/9		8260C							
ICV 410-46013/11		8260C		50 uL	50 uL	50 uL	50 uL	50 uL	50 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_2CEVE 00106	MSV_V_BFB 00003	MSV_V_EE 00003	MSV_V_Gas 00146	MSV_V_VOA1 00094	MSV_V_VOA2 00050
BFB 410-46013/1		8260C			1 uL				
IC 410-46013/3		8260C		15 uL		15 uL	7.5 uL	15 uL	
IC 410-46013/4		8260C		5 uL		5 uL	2.5 uL	5 uL	
ICIS 410-46013/5		8260C		5 uL		5 uL	2.5 uL	5 uL	

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

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-15514-1

SDG No.:

Batch Number: 46013 Batch Start Date: 09/21/20 13:28 Batch Analyst: Campbell, Miranda E

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_2CEVE 00106	MSV_V_BFB 00003	MSV_V_EE 00003	MSV_V_Gas 00146	MSV_V_VOA1 00094	MSV_V_VOA2 00050
IC 410-46013/6		8260C		4 uL		4 uL	2 uL	4 uL	4 uL
IC 410-46013/7		8260C		2 uL		2 uL	1 uL	2 uL	2 uL
IC 410-46013/8		8260C		4 uL		4 uL	2 uL	4 uL	12 uL
IC 410-46013/9		8260C							
ICV 410-46013/11		8260C							

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_VOA3 00047	MSV_V_VOA6 00053	MSV_VCYC 00005			
BFB 410-46013/1		8260C							
IC 410-46013/3		8260C		6 uL	15 uL	30 uL			
IC 410-46013/4		8260C		2 uL	5 uL	10 uL			
ICIS 410-46013/5		8260C		2 uL	5 uL	10 uL			
IC 410-46013/6		8260C		1.6 uL	4 uL	16 uL			
IC 410-46013/7		8260C		0.8 uL	2 uL	8 uL			
IC 410-46013/8		8260C		1.6 uL	4 uL	32 uL			
IC 410-46013/9		8260C							
ICV 410-46013/11		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.: 410-15514-1

SDG No.:

Batch Number: 50869 Batch Start Date: 10/05/20 11:18 Batch Analyst: Mellinger, Corie M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	MSV_HP20_ISSS 00026
BFB 410-50869/1		8260C		1 uL	1 uL				
CCVIS 410-50869/3		8260C		5 mL	5 mL				1 uL
LCS 410-50869/4		8260C		5 mL	5 mL				1 uL
LCSD 410-50869/5		8260C		5 mL	5 mL				1 uL
MB 410-50869/7		8260C		5 mL	5 mL				1 uL
410-15514-A-10	FB-20200929	8260C	T	5 mL	5 mL	<2 SU	N	N	1 uL
410-15514-A-16	TB-20200929	8260C	T	5 mL	5 mL	<2 SU	N	N	1 uL
410-15514-A-1	MW-1-20200928	8260C	T	5 mL	5 mL	<2 SU	N	N	1 uL
410-15514-A-2	MW-10S-20200928	8260C	T	5 mL	5 mL	<2 SU	N	N	1 uL
410-15514-A-3	MW-10D-20200928	8260C	T	5 mL	5 mL	<2 SU	N	N	1 uL
410-15514-A-3 MS	MW-10D-20200928	8260C	T	5 mL	5 mL	<2 SU	N	N	1 uL
410-15514-A-3 MSD	MW-10D-20200928	8260C	T	5 mL	5 mL	<2 SU	N	N	1 uL
410-15514-A-4	MW-7S-20200928	8260C	T	5 mL	5 mL	<2 SU	N	N	1 uL
410-15514-A-5	MW-7D-20200928	8260C	T	5 mL	5 mL	<2 SU	N	N	1 uL
410-15514-A-6	MW-8S-20200928	8260C	T	5 mL	5 mL	<2 SU	N	N	1 uL
410-15514-A-7	MW-8D-20200929	8260C	T	5 mL	5 mL	<2 SU	N	N	1 uL
410-15514-A-8	MW-14S-20200929	8260C	T	5 mL	5 mL	<2 SU	N	N	1 uL
410-15514-A-9	MW-14D-20200929	8260C	T	5 mL	5 mL	<2 SU	N	N	1 uL
410-15514-A-11	MW-12S-20200929	8260C	T	5 mL	5 mL	<2 SU	N	N	1 uL
410-15514-A-12	MW-12D-20200929	8260C	T	5 mL	5 mL	<2 SU	N	N	1 uL
410-15514-A-13	MW-4S-20200929	8260C	T	5 mL	5 mL	<2 SU	N	N	1 uL
410-15514-A-14	MW-4D-20200929	8260C	T	5 mL	5 mL	<2 SU	N	N	1 uL
410-15514-A-15	MW-11S-20200929	8260C	T	5 mL	5 mL	<2 SU	N	N	1 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_Q_EE 00002	MSV_Q_QARC 00047	MSV_Q_QGases 00091	MSV_Q_QVOA1 00048	MSV_Q_QVOA6 00046	MSV_QCYC 00004
BFB 410-50869/1		8260C							
CCVIS 410-50869/3		8260C							

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.: 410-15514-1

SDG No.:

Batch Number: 50869 Batch Start Date: 10/05/20 11:18 Batch Analyst: Mellinger, Corie M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_Q_EE 00002	MSV_Q_QARC 00047	MSV_Q_QGases 00091	MSV_Q_QVOA1 00048	MSV_Q_QVOA6 00046	MSV_QCYC 00004
LCS 410-50869/4		8260C		50 uL	50 uL	50 uL	50 uL	50 uL	50 uL
LCSD 410-50869/5		8260C		50 uL	50 uL	50 uL	50 uL	50 uL	50 uL
MB 410-50869/7		8260C							
410-15514-A-10	FB-20200929	8260C	T						
410-15514-A-16	TB-20200929	8260C	T						
410-15514-A-1	MW-1-20200928	8260C	T						
410-15514-A-2	MW-10S-20200928	8260C	T						
410-15514-A-3	MW-10D-20200928	8260C	T						
410-15514-A-3 MS	MW-10D-20200928	8260C	T	21.5 uL	21.5 uL	21.5 uL	21.5 uL	21.5 uL	21.5 uL
410-15514-A-3 MSD	MW-10D-20200928	8260C	T	21.5 uL	21.5 uL	21.5 uL	21.5 uL	21.5 uL	21.5 uL
410-15514-A-4	MW-7S-20200928	8260C	T						
410-15514-A-5	MW-7D-20200928	8260C	T						
410-15514-A-6	MW-8S-20200928	8260C	T						
410-15514-A-7	MW-8D-20200929	8260C	T						
410-15514-A-8	MW-14S-20200929	8260C	T						
410-15514-A-9	MW-14D-20200929	8260C	T						
410-15514-A-11	MW-12S-20200929	8260C	T						
410-15514-A-12	MW-12D-20200929	8260C	T						
410-15514-A-13	MW-4S-20200929	8260C	T						
410-15514-A-14	MW-4D-20200929	8260C	T						
410-15514-A-15	MW-11S-20200929	8260C	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_2CEVE 00109	MSV_V_BFB 00003	MSV_V_EE 00003	MSV_V_Gas 00153	MSV_V_VOA1 00097	MSV_V_VOA3 00048
BFB 410-50869/1		8260C			1 uL				
CCVIS 410-50869/3		8260C		5 uL		5 uL	2.5 uL	5 uL	2 uL
LCS 410-50869/4		8260C							
LCSD 410-50869/5		8260C							

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.: 410-15514-1

SDG No.:

Batch Number: 50869 Batch Start Date: 10/05/20 11:18 Batch Analyst: Mellinger, Corie M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_2CEVE 00109	MSV_V_BFB 00003	MSV_V_EE 00003	MSV_V_Gas 00153	MSV_V_VOA1 00097	MSV_V_VOA3 00048
MB 410-50869/7		8260C							
410-15514-A-10	FB-20200929	8260C	T						
410-15514-A-16	TB-20200929	8260C	T						
410-15514-A-1	MW-1-20200928	8260C	T						
410-15514-A-2	MW-10S-20200928	8260C	T						
410-15514-A-3	MW-10D-20200928	8260C	T						
410-15514-A-3 MS	MW-10D-20200928	8260C	T						
410-15514-A-3 MSD	MW-10D-20200928	8260C	T						
410-15514-A-4	MW-7S-20200928	8260C	T						
410-15514-A-5	MW-7D-20200928	8260C	T						
410-15514-A-6	MW-8S-20200928	8260C	T						
410-15514-A-7	MW-8D-20200929	8260C	T						
410-15514-A-8	MW-14S-20200929	8260C	T						
410-15514-A-9	MW-14D-20200929	8260C	T						
410-15514-A-11	MW-12S-20200929	8260C	T						
410-15514-A-12	MW-12D-20200929	8260C	T						
410-15514-A-13	MW-4S-20200929	8260C	T						
410-15514-A-14	MW-4D-20200929	8260C	T						
410-15514-A-15	MW-11S-20200929	8260C	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_VOA6 00055	MSV_VCYC 00005				
BFB 410-50869/1		8260C							
CCVIS 410-50869/3		8260C		5 uL	10 uL				
LCS 410-50869/4		8260C							
LCSD 410-50869/5		8260C							
MB 410-50869/7		8260C							
410-15514-A-10	FB-20200929	8260C	T						
410-15514-A-16	TB-20200929	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.: 410-15514-1

SDG No.:

Batch Number: 50869 Batch Start Date: 10/05/20 11:18 Batch Analyst: Mellinger, Corie M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_VOA6 00055	MSV_VCYC 00005				
410-15514-A-1	MW-1-20200928	8260C	T						
410-15514-A-2	MW-10S-20200928	8260C	T						
410-15514-A-3	MW-10D-20200928	8260C	T						
410-15514-A-3 MS	MW-10D-20200928	8260C	T						
410-15514-A-3 MSD	MW-10D-20200928	8260C	T						
410-15514-A-4	MW-7S-20200928	8260C	T						
410-15514-A-5	MW-7D-20200928	8260C	T						
410-15514-A-6	MW-8S-20200928	8260C	T						
410-15514-A-7	MW-8D-20200929	8260C	T						
410-15514-A-8	MW-14S-20200929	8260C	T						
410-15514-A-9	MW-14D-20200929	8260C	T						
410-15514-A-11	MW-12S-20200929	8260C	T						
410-15514-A-12	MW-12D-20200929	8260C	T						
410-15514-A-13	MW-4S-20200929	8260C	T						
410-15514-A-14	MW-4D-20200929	8260C	T						
410-15514-A-15	MW-11S-20200929	8260C	T						

Batch Notes	

Basis	Basis Description
T	Total/NA

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

Method 8270D

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

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-15514-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-5MS 20m ID: 0.18(mm)

Client Sample ID	Lab Sample ID	NBZ #	FBP #	TPHd14 #
MW-1-20200928	410-15514-1	83	76	81
MW-10S-20200928	410-15514-2	92	79	65
MW-10D-20200928	410-15514-3	91	78	63
MW-7S-20200928	410-15514-4	96	80	62
MW-7D-20200928	410-15514-5	83	72	48
MW-8S-20200928	410-15514-6	96	85	77
MW-8D-20200929	410-15514-7	100	90	61
MW-14S-20200929	410-15514-8	83	74	78
MW-14D-20200929	410-15514-9	89	82	38
FB-20200929	410-15514-10	95	89	85
MW-12S-20200929	410-15514-11	92	83	34
MW-12D-20200929	410-15514-12	81	75	61
MW-4S-20200929	410-15514-13	95	79	55
MW-4D-20200929	410-15514-14	87	71	69
MW-11S-20200929	410-15514-15	80	71	66
	MB 410-50732/1-A	99	77	89
	LCS 410-50732/2-A	103	84	87
MW-10D-20200928 MS	410-15514-3 MS	106	87	67
MW-10D-20200928 MSD	410-15514-3 MSD	98	89	64

	QC LIMITS
NBZ = Nitrobenzene-d5 (Surr)	38-113
FBP = 2-Fluorobiphenyl (Surr)	44-102
TPHd14 = p-Terphenyl-d14 (Surr)	34-128

Column to be used to flag recovery values

FORM II 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-15514-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LJ0103.D

Lab ID: LCS 410-50732/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	50.1	44.6	89	52-114	
Acenaphthylene	50.2	44.5	89	56-127	
Anthracene	50.1	47.7	95	67-116	
Benzo[a]anthracene	50.0	49.3	99	68-123	
Benzo[a]pyrene	50.2	47.6	95	71-117	
Benzo[b]fluoranthene	50.1	47.9	96	69-121	
Benzo[g,h,i]perylene	50.1	50.9	102	60-119	
Benzo[k]fluoranthene	50.1	47.2	94	69-122	
Chrysene	50.0	46.9	94	65-121	
Dibenz(a,h)anthracene	50.2	53.4	106	63-128	
Fluoranthene	50.1	48.1	96	63-122	
Fluorene	50.1	44.0	88	56-115	
Indeno[1,2,3-cd]pyrene	50.2	50.0	100	59-123	
Naphthalene	50.4	41.2	82	51-102	
Phenanthrene	50.2	49.4	98	65-113	
Pyrene	50.4	46.6	92	65-115	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-15514-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LJ0106.D

Lab ID: 410-15514-3 MS Client ID: MW-10D-20200928 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acenaphthene	50.5	ND	45.3	90	52-114	
Acenaphthylene	50.6	ND	48.2	95	56-127	
Anthracene	50.5	ND	47.0	93	67-116	
Benzo[a]anthracene	50.4	ND	49.1	97	68-123	
Benzo[a]pyrene	50.6	ND	45.5	90	71-117	
Benzo[b]fluoranthene	50.5	ND	47.1	93	69-121	
Benzo[g,h,i]perylene	50.5	ND	49.8	99	60-119	
Benzo[k]fluoranthene	50.5	ND	45.9	91	69-122	
Chrysene	50.4	ND	45.6	90	65-121	
Dibenz(a,h)anthracene	50.6	ND	51.4	102	63-128	
Fluoranthene	50.5	ND	48.0	95	63-122	
Fluorene	50.5	ND	44.9	89	56-115	
Indeno[1,2,3-cd]pyrene	50.6	ND	48.4	96	59-123	
Naphthalene	50.8	ND	42.1	83	51-102	
Phenanthrene	50.6	ND	48.7	96	65-113	
Pyrene	50.8	ND	47.7	94	65-115	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-15514-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LJ0155.D

Lab ID: 410-15514-3 MSD Client ID: MW-10D-20200928 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	51.1	46.3	91	2	30	52-114	
Acenaphthylene	51.2	48.0	94	1	30	56-127	
Anthracene	51.2	46.3	91	2	30	67-116	
Benzo[a]anthracene	51.1	50.1	98	2	30	68-123	
Benzo[a]pyrene	51.2	47.4	93	4	30	71-117	
Benzo[b]fluoranthene	51.2	47.4	93	1	30	69-121	
Benzo[g,h,i]perylene	51.1	50.4	99	1	30	60-119	
Benzo[k]fluoranthene	51.1	48.0	94	4	30	69-122	
Chrysene	51.0	46.7	92	2	30	65-121	
Dibenz(a,h)anthracene	51.2	52.0	102	1	30	63-128	
Fluoranthene	51.1	46.4	91	4	30	63-122	
Fluorene	51.2	46.6	91	4	30	56-115	
Indeno[1,2,3-cd]pyrene	51.2	49.3	96	2	30	59-123	
Naphthalene	51.4	41.8	81	1	30	51-102	
Phenanthrene	51.2	48.6	95	0	30	65-113	
Pyrene	51.5	47.0	91	1	30	65-115	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-15514-1

SDG No.:

Lab File ID: LJ0102.D Lab Sample ID: MB 410-50732/1-A

Matrix: Water Date Extracted: 10/05/2020 09:20

Instrument ID: HP20296 Date Analyzed: 10/05/2020 22:28

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-50732/2-A	LJ0103.D	10/05/2020 22:57
MW-10D-20200928	410-15514-3	LJ0105.D	10/05/2020 23:55
MW-10D-20200928 MS	410-15514-3 MS	LJ0106.D	10/06/2020 00:24
MW-10D-20200928 MSD	410-15514-3 MSD	LJ0155.D	10/06/2020 20:29
MW-1-20200928	410-15514-1	LJ0156.D	10/06/2020 20:59
MW-10S-20200928	410-15514-2	LJ0157.D	10/06/2020 21:28
MW-7S-20200928	410-15514-4	LJ0158.D	10/06/2020 21:57
MW-7D-20200928	410-15514-5	LJ0159.D	10/06/2020 22:26
MW-8S-20200928	410-15514-6	LJ0160.D	10/06/2020 22:55
MW-8D-20200929	410-15514-7	LJ0161.D	10/06/2020 23:25
MW-14S-20200929	410-15514-8	LJ0162.D	10/06/2020 23:54
MW-14D-20200929	410-15514-9	LJ0163.D	10/07/2020 00:23
FB-20200929	410-15514-10	LJ0164.D	10/07/2020 00:52
MW-12S-20200929	410-15514-11	LJ0165.D	10/07/2020 01:21
MW-12D-20200929	410-15514-12	LJ0166.D	10/07/2020 01:50
MW-4S-20200929	410-15514-13	LJ0167.D	10/07/2020 02:20
MW-4D-20200929	410-15514-14	LJ0168.D	10/07/2020 02:49
MW-11S-20200929	410-15514-15	LJ0169.D	10/07/2020 03:18

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15514-1

SDG No.:

Lab File ID: LG0650z.D DFTPP Injection Date: 07/15/2020

Instrument ID: HP20296 DFTPP Injection Time: 12:42

Analysis Batch No.: 22758

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	46.1	
68	Less than 2% of mass 69	0.7	(1.2) 1
69	Mass 69 Relative abundance	59.4	
70	Less than 2% of mass 69	0.3	(0.5) 1
127	10-80% of Base Peak	59.8	
197	Less than 2% of mass 198	0.3	
198	Base peak	100.0	
199	5-9% of mass 198	7.1	
275	10-60% of Base Peak	22.6	
365	Greater than 1% of mass 198	3.3	
441	present but less than 24% of mass 442	13.3	(16.4) 2
442	Greater than 50% of mass 198	81.3	
443	15-24% of mass 442	15.7	(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
	ICIS 410-22758/2	LG0651.D	07/15/2020	13:18
	IC 410-22758/3	LG0652.D	07/15/2020	13:56
	IC 410-22758/4	LG0653.D	07/15/2020	14:26
	IC 410-22758/5	LG0654.D	07/15/2020	14:55
	IC 410-22758/6	LG0655.D	07/15/2020	15:24
	IC 410-22758/7	LG0656.D	07/15/2020	15:53
	IC 410-22758/8	LG0657.D	07/15/2020	16:22
	IC 410-22758/9	LG0658.D	07/15/2020	16:51
	ICV 410-22758/12	LG0661.D	07/15/2020	18:18
	ICV 410-22758/13	LG0662.D	07/15/2020	18:47
	ICV 410-22758/14	LG0663.D	07/15/2020	19:16
	ICV 410-22758/15	LG0664.D	07/15/2020	19:45

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15514-1

SDG No.:

Lab File ID: LJ0100b.D DFTPP Injection Date: 10/05/2020

Instrument ID: HP20296 DFTPP Injection Time: 20:52

Analysis Batch No.: 51042

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	76.5	
68	Less than 2% of mass 69	1.3	(1.4) 1
69	Mass 69 Relative abundance	91.8	
70	Less than 2% of mass 69	0.4	(0.5) 1
127	10-80% of Base Peak	72.9	
197	Less than 2% of mass 198	0.4	
198	Base peak	100.0	
199	5-9% of mass 198	6.9	
275	10-60% of Base Peak	22.4	
365	Greater than 1% of mass 198	3.9	
441	present but less than 24% of mass 442	14.3	(15.6) 2
442	Greater than 50% of mass 198	91.5	
443	15-24% of mass 442	15.5	(16.9) 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 410-51042/2	LJ0101b.D	10/05/2020	21:46
	MB 410-50732/1-A	LJ0102.D	10/05/2020	22:28
	LCS 410-50732/2-A	LJ0103.D	10/05/2020	22:57
MW-10D-20200928	410-15514-3	LJ0105.D	10/05/2020	23:55
MW-10D-20200928 MS	410-15514-3 MS	LJ0106.D	10/06/2020	0:24

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15514-1

SDG No.:

Lab File ID: LJ0150.D DFTPP Injection Date: 10/06/2020

Instrument ID: HP20296 DFTPP Injection Time: 17:57

Analysis Batch No.: 51485

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	73.6	
68	Less than 2% of mass 69	1.2	(1.5) 1
69	Mass 69 Relative abundance	79.6	
70	Less than 2% of mass 69	0.6	(0.7) 1
127	10-80% of Base Peak	64.6	
197	Less than 2% of mass 198	0.9	
198	Base peak	100.0	
199	5-9% of mass 198	5.8	
275	10-60% of Base Peak	21.7	
365	Greater than 1% of mass 198	3.5	
441	present but less than 24% of mass 442	13.7	(17.7) 2
442	Greater than 50% of mass 198	77.4	
443	15-24% of mass 442	15.0	(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 410-51485/2	LJ0151.D	10/06/2020	18:15
MW-10D-20200928 MSD	410-15514-3 MSD	LJ0155.D	10/06/2020	20:29
MW-1-20200928	410-15514-1	LJ0156.D	10/06/2020	20:59
MW-10S-20200928	410-15514-2	LJ0157.D	10/06/2020	21:28
MW-7S-20200928	410-15514-4	LJ0158.D	10/06/2020	21:57
MW-7D-20200928	410-15514-5	LJ0159.D	10/06/2020	22:26
MW-8S-20200928	410-15514-6	LJ0160.D	10/06/2020	22:55
MW-8D-20200929	410-15514-7	LJ0161.D	10/06/2020	23:25
MW-14S-20200929	410-15514-8	LJ0162.D	10/06/2020	23:54
MW-14D-20200929	410-15514-9	LJ0163.D	10/07/2020	0:23
FB-20200929	410-15514-10	LJ0164.D	10/07/2020	0:52
MW-12S-20200929	410-15514-11	LJ0165.D	10/07/2020	1:21
MW-12D-20200929	410-15514-12	LJ0166.D	10/07/2020	1:50
MW-4S-20200929	410-15514-13	LJ0167.D	10/07/2020	2:20
MW-4D-20200929	410-15514-14	LJ0168.D	10/07/2020	2:49
MW-11S-20200929	410-15514-15	LJ0169.D	10/07/2020	3:18

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15514-1

SDG No.:

Sample No.: ICIS 410-22758/2 Date Analyzed: 07/15/2020 13:18

Instrument ID: HP20296 GC Column: DB-5MS 20m 0.18 ID: 0.18(mm)

Lab File ID (Standard): LG0651.D Heated Purge: (Y/N) N

Calibration ID: 6917

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		192572	7.21	771902	9.20	358590	12.00
UPPER LIMIT		385144	7.71	1543804	9.70	717180	12.50
LOWER LIMIT		96286	6.71	385951	8.70	179295	11.50
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-22758/12		193397	7.22	836487	9.20	387619	12.00
ICV 410-22758/13		295463	7.22	1122270	9.20	551375	11.99
ICV 410-22758/14		195391	7.21	758466	9.19	357336	11.99
ICV 410-22758/15		183389	7.22	737925	9.20	340157	11.99
CCVIS 410-51042/2		134622	6.73	576375	8.70	241372	11.55
CCVIS 410-51485/2		140063	6.73	573269	8.71	251388	11.56

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

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

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15514-1

SDG No.:

Sample No.: ICIS 410-22758/2 Date Analyzed: 07/15/2020 13:18

Instrument ID: HP20296 GC Column: DB-5MS 20m 0.18 ID: 0.18(mm)

Lab File ID (Standard): LG0651.D Heated Purge: (Y/N) N

Calibration ID: 6917

		PHN		PYR10		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		664208	13.94	636876	16.02	612010	20.65
UPPER LIMIT		1328416	14.44	1273752	16.52	1224020	21.15
LOWER LIMIT		332104	13.44	318438	15.52	306005	20.15
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-22758/12		750735	13.94	722807	16.03	660190	20.65
ICV 410-22758/13		1035888	13.93	993477	16.02	942846	20.64
ICV 410-22758/14		638086	13.93	619595	16.02	591777	20.64
ICV 410-22758/15		632740	13.93	607127	16.02	562630	20.64
CCVIS 410-51042/2		421012	13.48	382787	15.48*3	367924	20.03*3
CCVIS 410-51485/2		421376	13.49	392333	15.49*3	388123	20.04*3

PHN = Phenanthrene-d10
PYR10 = Pyrene-d10 (IS)
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15514-1

SDG No.:

Sample No.: CCVIS 410-51042/2 Date Analyzed: 10/05/2020 21:46

Instrument ID: HP20296 GC Column: DB-5MS 20m 0.18 ID: 0.18(mm)

Lab File ID (Standard): LJ0101b.D Heated Purge: (Y/N) N

Calibration ID: 11282

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		134622	6.73	576375	8.70	241372	11.55
UPPER LIMIT		269244	7.23	1152750	9.20	482744	12.05
LOWER LIMIT		67311	6.23	288188	8.20	120686	11.05
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-50732/1-A		134044	6.73	559578	8.70	228146	11.55
LCS 410-50732/2-A		124931	6.73	500090	8.70	220808	11.54
410-15514-3	MW-10D-20200928	131230	6.73	549506	8.70	230393	11.54
410-15514-3 MS	MW-10D-20200928 MS	141359	6.73	534130	8.70	235220	11.55

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

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

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15514-1

SDG No.:

Sample No.: CCVIS 410-51042/2 Date Analyzed: 10/05/2020 21:46

Instrument ID: HP20296 GC Column: DB-5MS 20m 0.18 ID: 0.18(mm)

Lab File ID (Standard): LJ0101b.D Heated Purge: (Y/N) N

Calibration ID: 11282

		PHN		PYR10		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		421012	13.48	382787	15.48	367924	20.03
UPPER LIMIT		842024	13.98	765574	15.98	735848	20.53
LOWER LIMIT		210506	12.98	191394	14.98	183962	19.53
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-50732/1-A		376281	13.48	350340	15.48	351862	20.03
LCS 410-50732/2-A		368660	13.48	357822	15.48	351349	20.03
410-15514-3	MW-10D-20200928	404650	13.48	376640	15.48	348333	20.03
410-15514-3 MS	MW-10D-20200928 MS	399153	13.48	381581	15.48	375141	20.03

PHN = Phenanthrene-d10
PYR10 = Pyrene-d10 (IS)
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15514-1

SDG No.:

Sample No.: CCVIS 410-51485/2 Date Analyzed: 10/06/2020 18:15

Instrument ID: HP20296 GC Column: DB-5MS 20m 0.18 ID: 0.18(mm)

Lab File ID (Standard): LJ0151.D Heated Purge: (Y/N) N

Calibration ID: 11282

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		140063	6.73	573269	8.71	251388	11.56
UPPER LIMIT		280126	7.23	1146538	9.21	502776	12.06
LOWER LIMIT		70032	6.23	286635	8.21	125694	11.06
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-15514-3 MSD	MW-10D-20200928 MSD	132279	6.74	517359	8.71	223952	11.56
410-15514-1	MW-1-20200928	134295	6.74	561031	8.71	230919	11.56
410-15514-2	MW-10S-20200928	146830	6.74	586787	8.71	250687	11.56
410-15514-4	MW-7S-20200928	144568	6.74	583583	8.71	251529	11.55
410-15514-5	MW-7D-20200928	138804	6.74	565565	8.71	246342	11.56
410-15514-6	MW-8S-20200928	127108	6.74	532551	8.71	226537	11.56
410-15514-7	MW-8D-20200929	136452	6.74	543246	8.71	225480	11.55
410-15514-8	MW-14S-20200929	140352	6.74	542728	8.72	233793	11.56
410-15514-9	MW-14D-20200929	128523	6.74	532190	8.71	220792	11.56
410-15514-10	FB-20200929	133067	6.74	541503	8.71	223236	11.56
410-15514-11	MW-12S-20200929	136486	6.74	560005	8.71	232782	11.56
410-15514-12	MW-12D-20200929	143458	6.74	540184	8.72	219388	11.56
410-15514-13	MW-4S-20200929	131338	6.74	526643	8.71	224836	11.55
410-15514-14	MW-4D-20200929	130317	6.74	539752	8.72	237586	11.56
410-15514-15	MW-11S-20200929	134799	6.74	561088	8.71	234841	11.56

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

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

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15514-1

SDG No.:

Sample No.: CCVIS 410-51485/2 Date Analyzed: 10/06/2020 18:15

Instrument ID: HP20296 GC Column: DB-5MS 20m 0.18 ID: 0.18(mm)

Lab File ID (Standard): LJ0151.D Heated Purge: (Y/N) N

Calibration ID: 11282

		PHN		PYR10		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		421376	13.49	392333	15.49	388123	20.04
UPPER LIMIT		842752	13.99	784666	15.99	776246	20.54
LOWER LIMIT		210688	12.99	196167	14.99	194062	19.54
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-15514-3 MSD	MW-10D-20200928 MSD	393447	13.48	367021	15.49	349911	20.04
410-15514-1	MW-1-20200928	402614	13.48	365394	15.49	356521	20.04
410-15514-2	MW-10S-20200928	424187	13.48	389451	15.49	371427	20.04
410-15514-4	MW-7S-20200928	420360	13.48	389579	15.49	387796	20.04
410-15514-5	MW-7D-20200928	419279	13.48	376976	15.49	374212	20.04
410-15514-6	MW-8S-20200928	385929	13.48	361025	15.49	365044	20.04
410-15514-7	MW-8D-20200929	392135	13.48	364966	15.49	360655	20.04
410-15514-8	MW-14S-20200929	395963	13.48	372335	15.49	359039	20.04
410-15514-9	MW-14D-20200929	378817	13.48	347635	15.49	361423	20.04
410-15514-10	FB-20200929	399147	13.48	366066	15.49	359516	20.04
410-15514-11	MW-12S-20200929	395544	13.48	378840	15.49	376233	20.04
410-15514-12	MW-12D-20200929	394329	13.48	353610	15.49	363590	20.04
410-15514-13	MW-4S-20200929	378729	13.48	353667	15.49	341532	20.04
410-15514-14	MW-4D-20200929	407220	13.48	357090	15.49	371160	20.04
410-15514-15	MW-11S-20200929	414332	13.48	371969	15.49	367932	20.04

PHN = Phenanthrene-d10
PYR10 = Pyrene-d10 (IS)
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270D

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15514-1

SDG No.:

Client Sample ID: MW-1-20200928 Lab Sample ID: 410-15514-1

Matrix: Ground Water Lab File ID: LJ0156.D

Analysis Method: 8270D Date Collected: 09/28/2020 11:21

Extract. Method: 3510C Date Extracted: 10/05/2020 09:20

Sample wt/vol: 246(mL) Date Analyzed: 10/06/2020 20:59

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.: 51485 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.51	0.10
208-96-8	Acenaphthylene	ND		0.51	0.10
120-12-7	Anthracene	ND		0.51	0.10
56-55-3	Benzo[a]anthracene	ND		0.51	0.10
50-32-8	Benzo[a]pyrene	ND		0.51	0.10
205-99-2	Benzo[b]fluoranthene	ND		0.51	0.10
191-24-2	Benzo[g,h,i]perylene	ND		0.51	0.10
207-08-9	Benzo[k]fluoranthene	ND		0.51	0.10
218-01-9	Chrysene	ND		0.51	0.10
53-70-3	Dibenz(a,h)anthracene	ND		0.51	0.10
206-44-0	Fluoranthene	ND		0.51	0.10
86-73-7	Fluorene	ND		0.51	0.10
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.51	0.10
91-20-3	Naphthalene	ND		0.51	0.10
85-01-8	Phenanthrene	ND		0.51	0.10
129-00-0	Pyrene	ND		0.51	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	76		44-102
4165-60-0	Nitrobenzene-d5 (Surr)	83		38-113
1718-51-0	p-Terphenyl-d14 (Surr)	81		34-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0156.D
Lims ID: 410-15514-D-1-A
Client ID: MW-1-20200928
Sample Type: Client
Inject. Date: 06-Oct-2020 20:59:03 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-15514-D-1-A
Misc. Info.: 410-0012211-008
Operator ID: kel10217 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 06-Oct-2020 23:00:58 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1014

First Level Reviewer: luttek Date: 06-Oct-2020 22:54:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 24 1,4-Dichlorobenzene-d4	152	6.735	6.730	0.005	95	134295	5.00	
$ 41 Nitrobenzene-d5	82	7.586	7.591	-0.005	90	1181781	20.8	
* 55 Naphthalene-d8	136	8.709	8.709	0.000	99	561031	5.00	
56 Naphthalene	128		8.746				ND	7
$ 76 2-Fluorobiphenyl (Surr)	172	10.495	10.495	0.000	99	1372521	18.9	
90 Acenaphthylene	152		11.325				ND	7
* 92 Acenaphthene-d10	164	11.555	11.555	0.001	97	230919	5.00	
93 Acenaphthene	153		11.603				ND	7
105 Fluorene	166		12.319				ND	7
* 127 Phenanthrene-d10	188	13.480	13.485	-0.005	96	402614	5.00	
129 Phenanthrene	178		13.512				ND	7
130 Anthracene	178		13.582				ND	7
138 Fluoranthene	202		15.176				ND	7
* 140 Pyrene-d10 (IS)	212	15.486	15.491	-0.005	96	365394	5.00	
141 Pyrene	202		15.518				ND	7
$ 142 p-Terphenyl-d14	244	15.801	15.807	-0.006	96	1344716	20.3	
149 Benzo[a]anthracene	228		17.545				ND	7
151 Chrysene	228		17.609				ND	7
155 Benzo[b]fluoranthene	252		19.422				ND	
157 Benzo[k]fluoranthene	252		19.465				ND	
158 Benzo[a]pyrene	252		19.952				ND	U
* 159 Perylene-d12	264	20.037	20.043	-0.006	95	356521	5.00	
163 Indeno[1,2,3-cd]pyrene	276		21.669				ND	7
164 Dibenz(a,h)anthracene	278		21.706				ND	7
165 Benzo[g,h,i]perylene	276		22.059				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
U - Marked Undetected

Reagents:

MSS_RV8270_IS_00013 Amount Added: 20.00 Units: uL Run Reagent

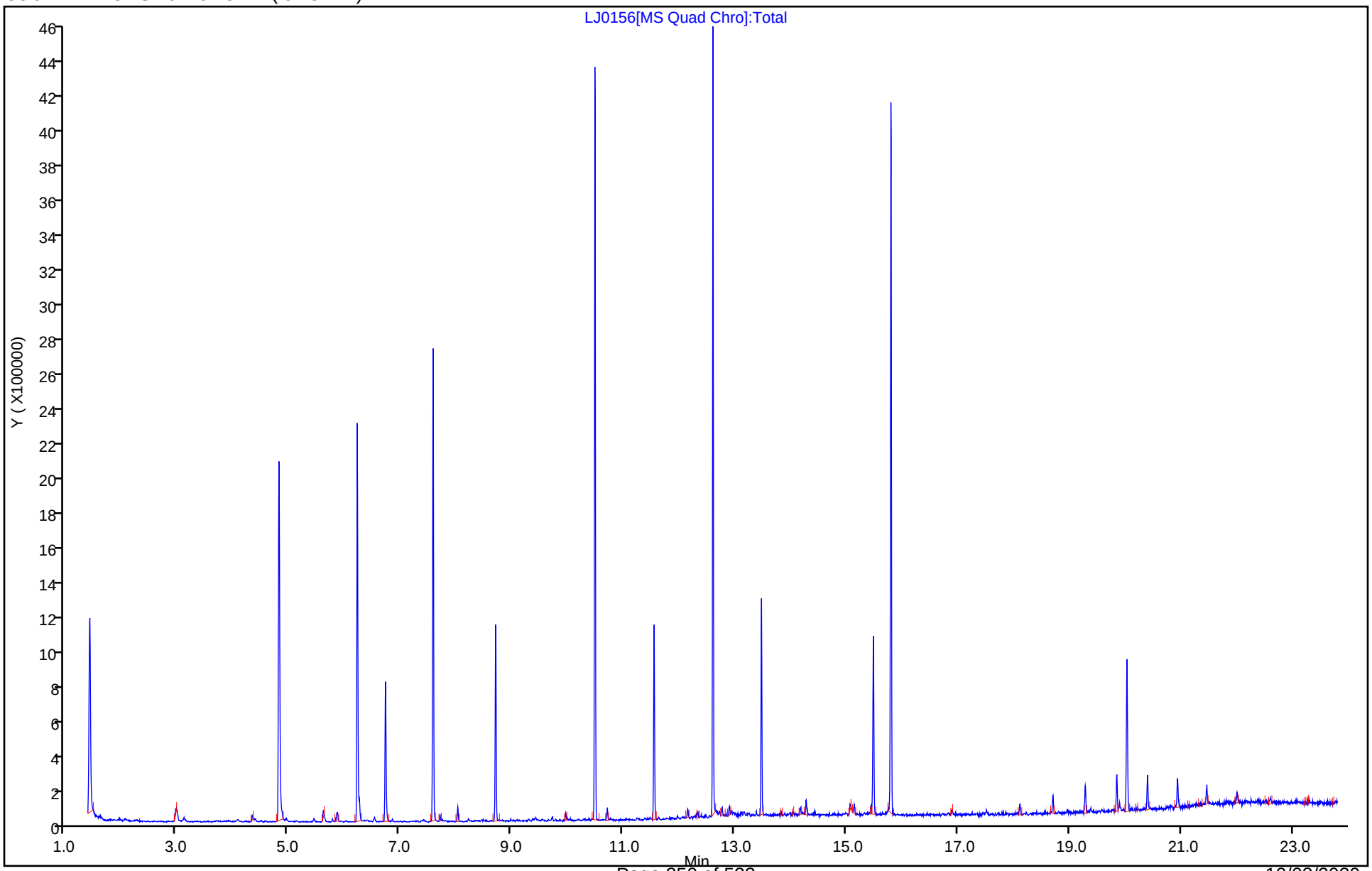
Report Date: 06-Oct-2020 23:01:16 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0156.D

Injection Date:	06-Oct-2020 20:59:03	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	410-15514-D-1-A	Lab Sample ID:	410-15514-1	Worklist Smp#:	8
Client ID:	MW-1-20200928				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



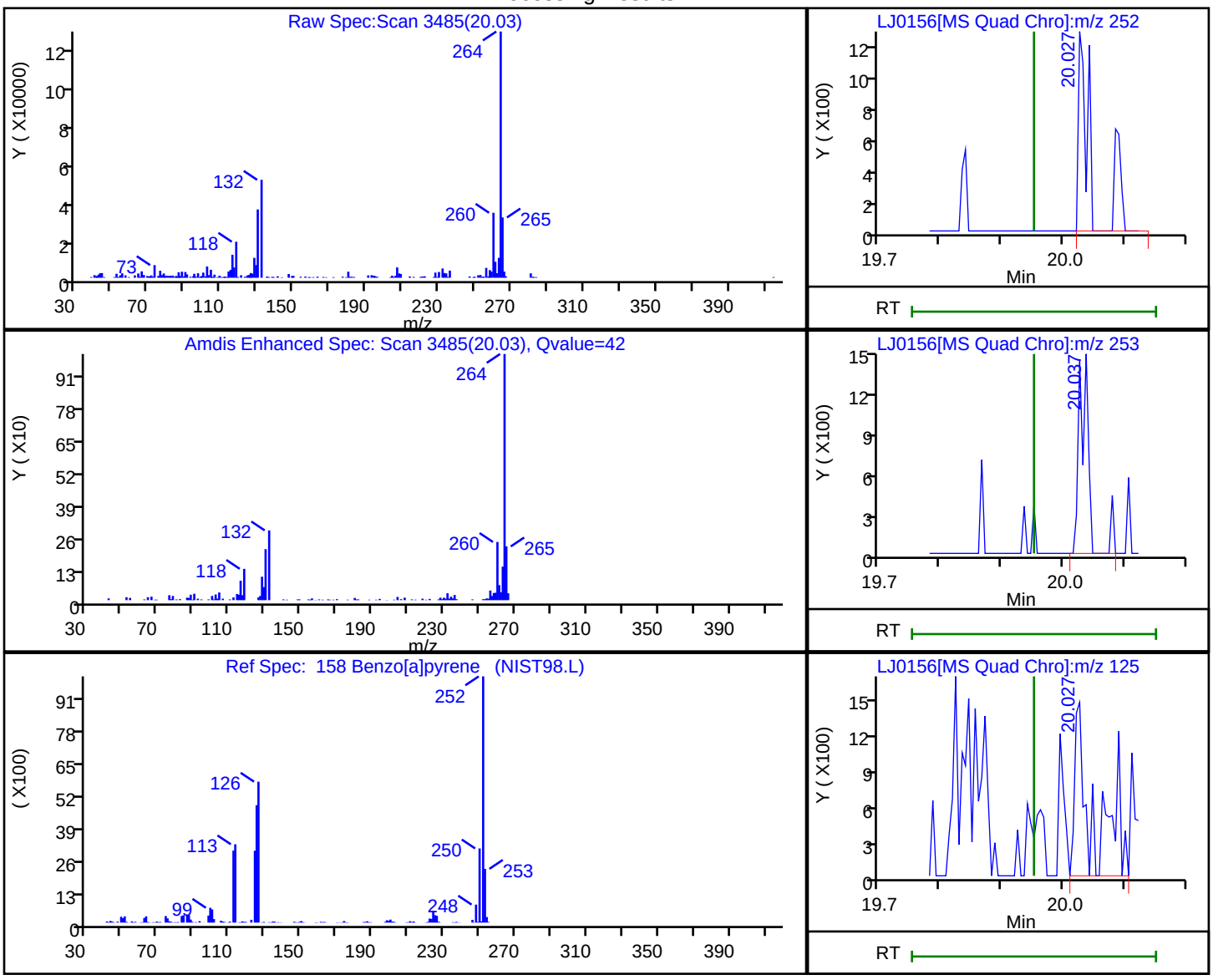
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0156.D				
Injection Date:	06-Oct-2020 20:59:03	Instrument ID:	HP20296		
Lims ID:	410-15514-D-1-A	Lab Sample ID:	410-15514-1		
Client ID:	MW-1-20200928				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

158 Benzo[a]pyrene, CAS: 50-32-8

Processing Results



RT	Mass	Response	Amount
20.03	252.00	1724	0.020286
20.04	253.00	1558	
20.03	125.00	2914	

Reviewer: luttek, 06-Oct-2020 22:54:51

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15514-1

SDG No.:

Client Sample ID: MW-10S-20200928 Lab Sample ID: 410-15514-2

Matrix: Ground Water Lab File ID: LJ0157.D

Analysis Method: 8270D Date Collected: 09/28/2020 13:21

Extract. Method: 3510C Date Extracted: 10/05/2020 09:20

Sample wt/vol: 244(mL) Date Analyzed: 10/06/2020 21:28

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 51485 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.51	0.10
208-96-8	Acenaphthylene	ND		0.51	0.10
120-12-7	Anthracene	ND		0.51	0.10
56-55-3	Benzo[a]anthracene	ND		0.51	0.10
50-32-8	Benzo[a]pyrene	ND		0.51	0.10
205-99-2	Benzo[b]fluoranthene	ND		0.51	0.10
191-24-2	Benzo[g,h,i]perylene	ND		0.51	0.10
207-08-9	Benzo[k]fluoranthene	ND		0.51	0.10
218-01-9	Chrysene	ND		0.51	0.10
53-70-3	Dibenz(a,h)anthracene	ND		0.51	0.10
206-44-0	Fluoranthene	ND		0.51	0.10
86-73-7	Fluorene	ND		0.51	0.10
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.51	0.10
91-20-3	Naphthalene	ND		0.51	0.10
85-01-8	Phenanthrene	ND		0.51	0.10
129-00-0	Pyrene	ND		0.51	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	79		44-102
4165-60-0	Nitrobenzene-d5 (Surr)	92		38-113
1718-51-0	p-Terphenyl-d14 (Surr)	65		34-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0157.D
Lims ID: 410-15514-D-2-A
Client ID: MW-10S-20200928
Sample Type: Client
Inject. Date: 06-Oct-2020 21:28:15 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-15514-D-2-A
Misc. Info.: 410-0012211-009
Operator ID: kel10217 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 06-Oct-2020 23:00:58 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1014

First Level Reviewer: luttek Date: 06-Oct-2020 22:55:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 24 1,4-Dichlorobenzene-d4	152	6.736	6.730	0.006	95	146830	5.00	
$ 41 Nitrobenzene-d5	82	7.591	7.591	0.000	90	1364443	23.0	
* 55 Naphthalene-d8	136	8.709	8.709	0.000	98	586787	5.00	
56 Naphthalene	128		8.746				ND	7
$ 76 2-Fluorobiphenyl (Surr)	172	10.496	10.495	0.001	98	1557621	19.8	
90 Acenaphthylene	152		11.325				ND	
* 92 Acenaphthene-d10	164	11.555	11.555	0.001	97	250687	5.00	
93 Acenaphthene	153		11.603				ND	7
105 Fluorene	166		12.319				ND	
* 127 Phenanthrene-d10	188	13.480	13.485	-0.005	96	424187	5.00	
129 Phenanthrene	178		13.512				ND	7
130 Anthracene	178		13.582				ND	7
138 Fluoranthene	202		15.176				ND	7
* 140 Pyrene-d10 (IS)	212	15.486	15.491	-0.005	98	389451	5.00	
141 Pyrene	202		15.518				ND	7
$ 142 p-Terphenyl-d14	244	15.802	15.807	-0.005	96	1149681	16.3	
149 Benzo[a]anthracene	228		17.545				ND	7
151 Chrysene	228		17.609				ND	7
155 Benzo[b]fluoranthene	252		19.422				ND	7
157 Benzo[k]fluoranthene	252		19.465				ND	7
158 Benzo[a]pyrene	252		19.952				ND	U
* 159 Perylene-d12	264	20.043	20.043	0.000	95	371427	5.00	
163 Indeno[1,2,3-cd]pyrene	276		21.669				ND	
164 Dibenz(a,h)anthracene	278		21.706				ND	7
165 Benzo[g,h,i]perylene	276		22.059				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
U - Marked Undetected

Reagents:

MSS_RV8270_IS_00013 Amount Added: 20.00 Units: uL Run Reagent

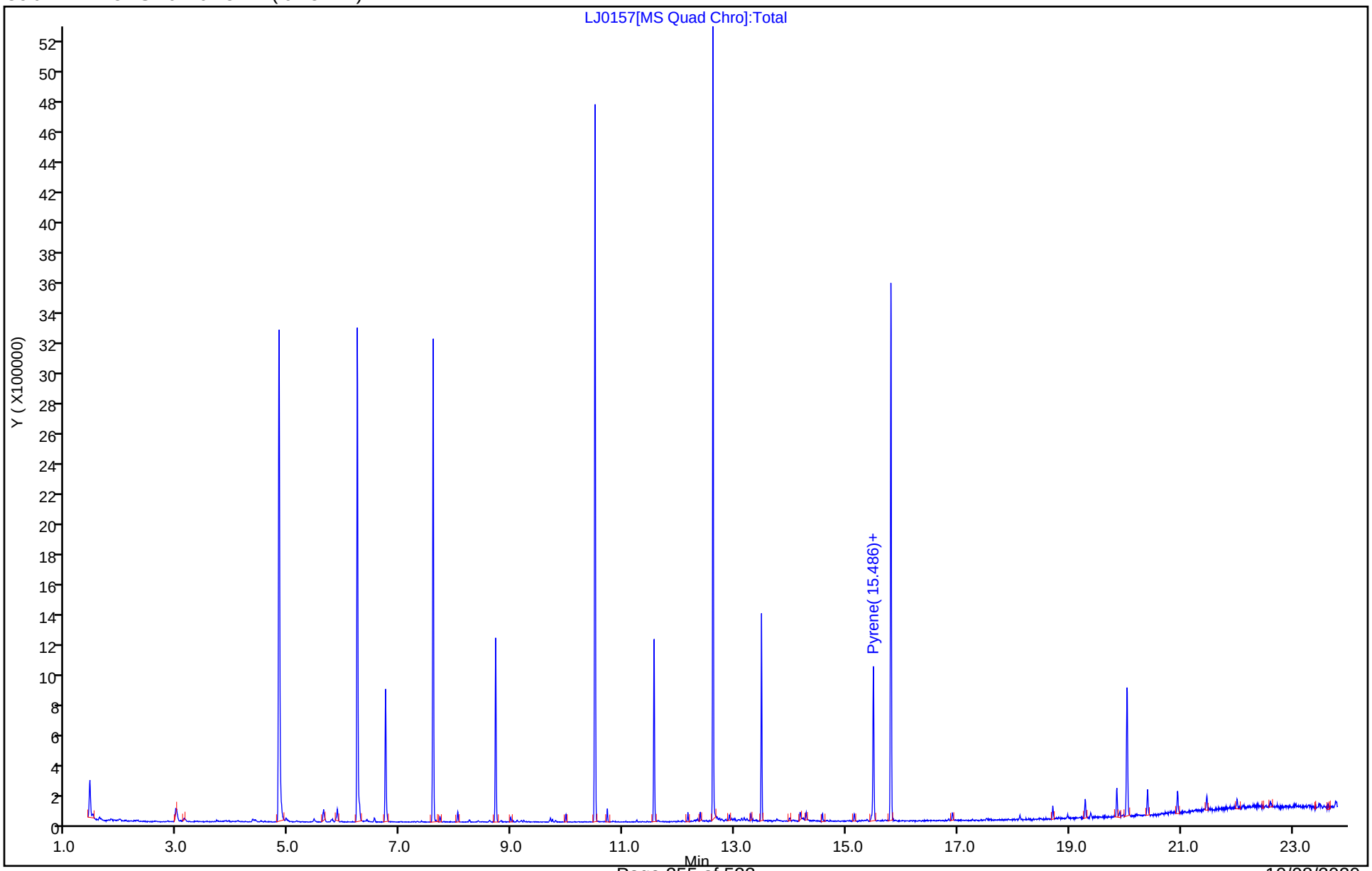
Report Date: 06-Oct-2020 23:01:17 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0157.D

Injection Date:	06-Oct-2020 21:28:15	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	410-15514-D-2-A	Lab Sample ID:	410-15514-2	Worklist Smp#:	9
Client ID:	MW-10S-20200928				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



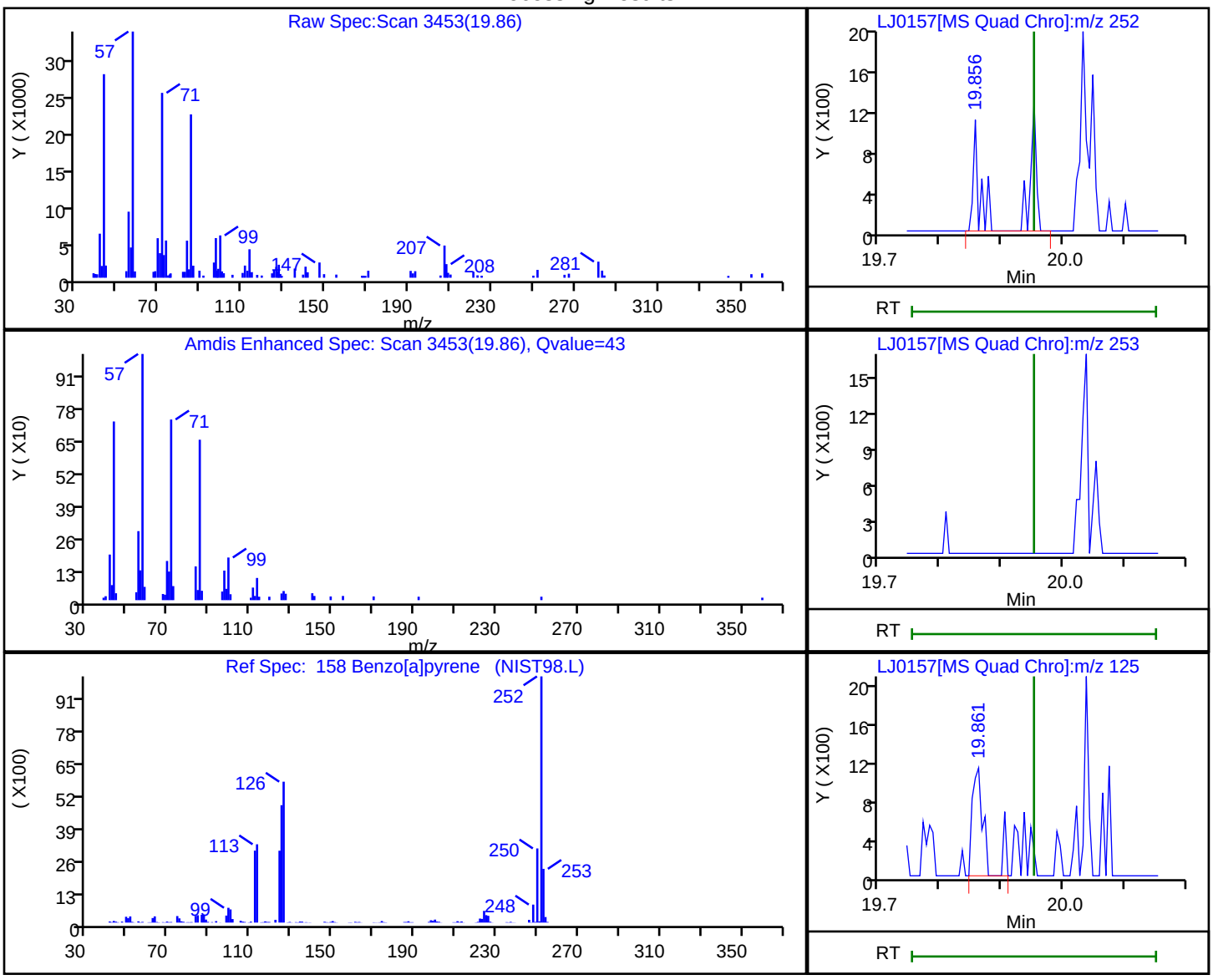
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0157.D				
Injection Date:	06-Oct-2020 21:28:15	Instrument ID:	HP20296		
Lims ID:	410-15514-D-2-A	Lab Sample ID:	410-15514-2		
Client ID:	MW-10S-20200928				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

158 Benzo[a]pyrene, CAS: 50-32-8

Processing Results



RT	Mass	Response	Amount
19.86	252.00	1624	0.018342
19.95	253.00	0	
19.86	125.00	1501	

Reviewer: luttek, 06-Oct-2020 22:55:16

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.: 410-15514-1

SDG No.:

Client Sample ID: MW-10D-20200928 Lab Sample ID: 410-15514-3

Matrix: Ground Water Lab File ID: LJ0105.D

Analysis Method: 8270D Date Collected: 09/28/2020 13:57

Extract. Method: 3510C Date Extracted: 10/05/2020 09:20

Sample wt/vol: 249(mL) Date Analyzed: 10/05/2020 23:55

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.: 51042 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.50	0.10
208-96-8	Acenaphthylene	ND		0.50	0.10
120-12-7	Anthracene	ND		0.50	0.10
56-55-3	Benzo[a]anthracene	ND		0.50	0.10
50-32-8	Benzo[a]pyrene	ND		0.50	0.10
205-99-2	Benzo[b]fluoranthene	ND		0.50	0.10
191-24-2	Benzo[g,h,i]perylene	ND		0.50	0.10
207-08-9	Benzo[k]fluoranthene	ND		0.50	0.10
218-01-9	Chrysene	ND		0.50	0.10
53-70-3	Dibenz(a,h)anthracene	ND		0.50	0.10
206-44-0	Fluoranthene	ND		0.50	0.10
86-73-7	Fluorene	ND		0.50	0.10
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.50	0.10
91-20-3	Naphthalene	ND		0.50	0.10
85-01-8	Phenanthrene	ND		0.50	0.10
129-00-0	Pyrene	ND		0.50	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	78		44-102
4165-60-0	Nitrobenzene-d5 (Surr)	91		38-113
1718-51-0	p-Terphenyl-d14 (Surr)	63		34-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\LJ0105.D
Lims ID: 410-15514-D-3-C
Client ID: MW-10D-20200928
Sample Type: Client
Inject. Date: 05-Oct-2020 23:55:05 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-15514-D-3-C
Misc. Info.: 410-0012109-006
Operator ID: kel10217 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 06-Oct-2020 11:27:54 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1007

First Level Reviewer: beckk Date: 06-Oct-2020 11:27:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 24 1,4-Dichlorobenzene-d4	152	6.730	6.725	0.005	94	131230	5.00	
$ 41 Nitrobenzene-d5	82	7.581	7.581	0.000	90	1267044	22.8	
* 55 Naphthalene-d8	136	8.704	8.704	0.000	98	549506	5.00	
56 Naphthalene	128		8.736				ND	7
$ 76 2-Fluorobiphenyl (Surr)	172	10.485	10.485	0.000	98	1407851	19.5	
90 Acenaphthylene	152		11.319				ND	
* 92 Acenaphthene-d10	164	11.544	11.549	-0.005	97	230393	5.00	
93 Acenaphthene	153		11.598				ND	
105 Fluorene	166		12.314				ND	
* 127 Phenanthrene-d10	188	13.475	13.475	0.000	96	404650	5.00	
129 Phenanthrene	178		13.507				ND	7
130 Anthracene	178		13.577				ND	7
138 Fluoranthene	202		15.171				ND	7
* 140 Pyrene-d10 (IS)	212	15.480	15.481	-0.001	98	376640	5.00	
141 Pyrene	202		15.513				ND	7
$ 142 p-Terphenyl-d14	244	15.796	15.796	0.000	96	1073462	15.8	
149 Benzo[a]anthracene	228		17.540				ND	7
151 Chrysene	228		17.599				ND	7
155 Benzo[b]fluoranthene	252		19.412				ND	7
157 Benzo[k]fluoranthene	252		19.460				ND	7
158 Benzo[a]pyrene	252		19.941				ND	U
* 159 Perylene-d12	264	20.027	20.032	-0.005	94	348333	5.00	
163 Indeno[1,2,3-cd]pyrene	276		21.658				ND	
164 Dibenz(a,h)anthracene	278		21.696				ND	7
165 Benzo[g,h,i]perylene	276		22.049				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
U - Marked Undetected

Reagents:

MSS_RV8270_IS_00013 Amount Added: 20.00 Units: uL Run Reagent

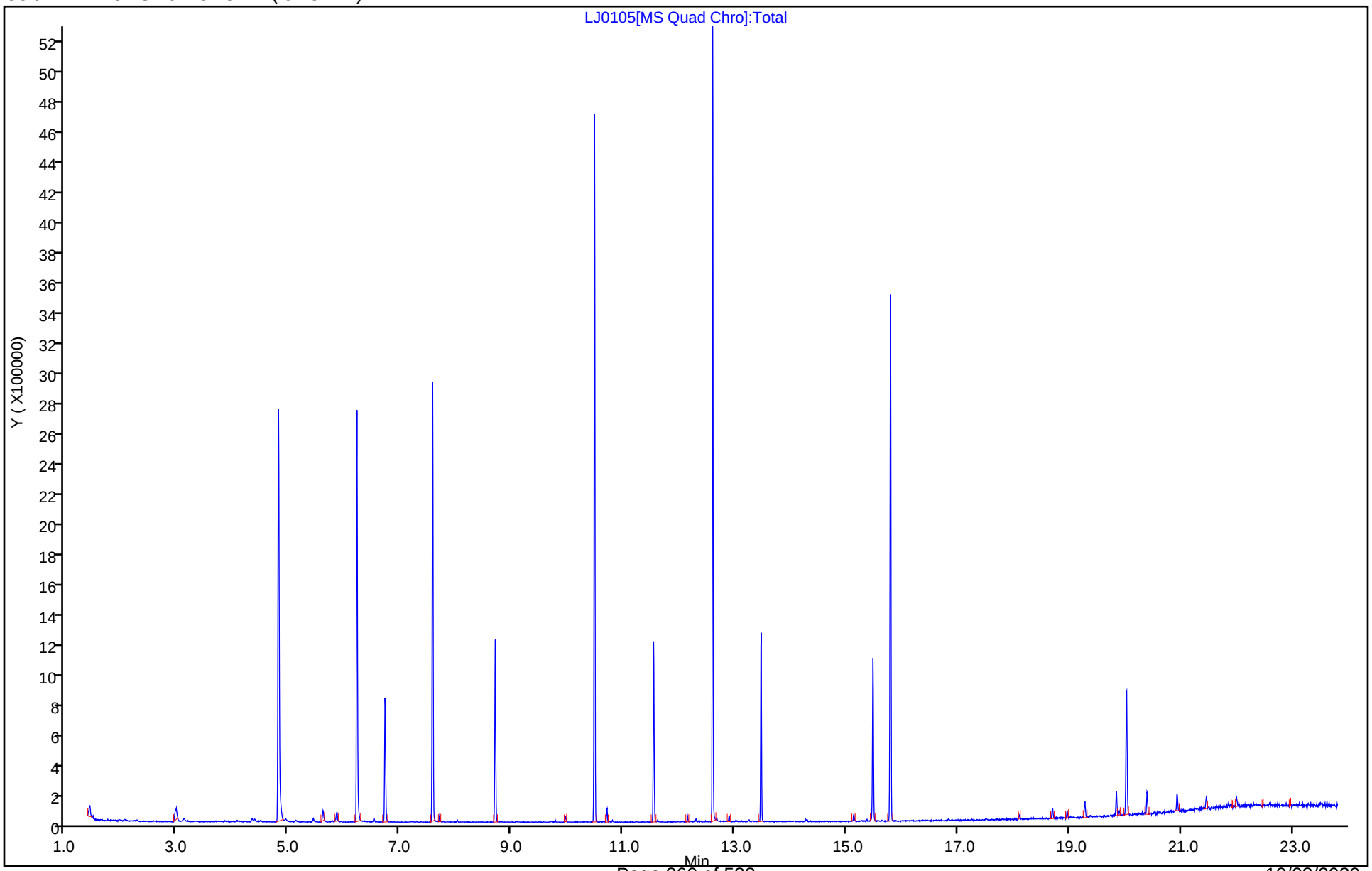
Report Date: 06-Oct-2020 11:30:30 Chrom Revision: 2.3 05-Oct-2020 16:17:16

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\LJ0105.D

Injection Date:	05-Oct-2020 23:55:05	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	410-15514-D-3-C	Lab Sample ID:	410-15514-3	Worklist Smp#:	6
Client ID:	MW-10D-20200928				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



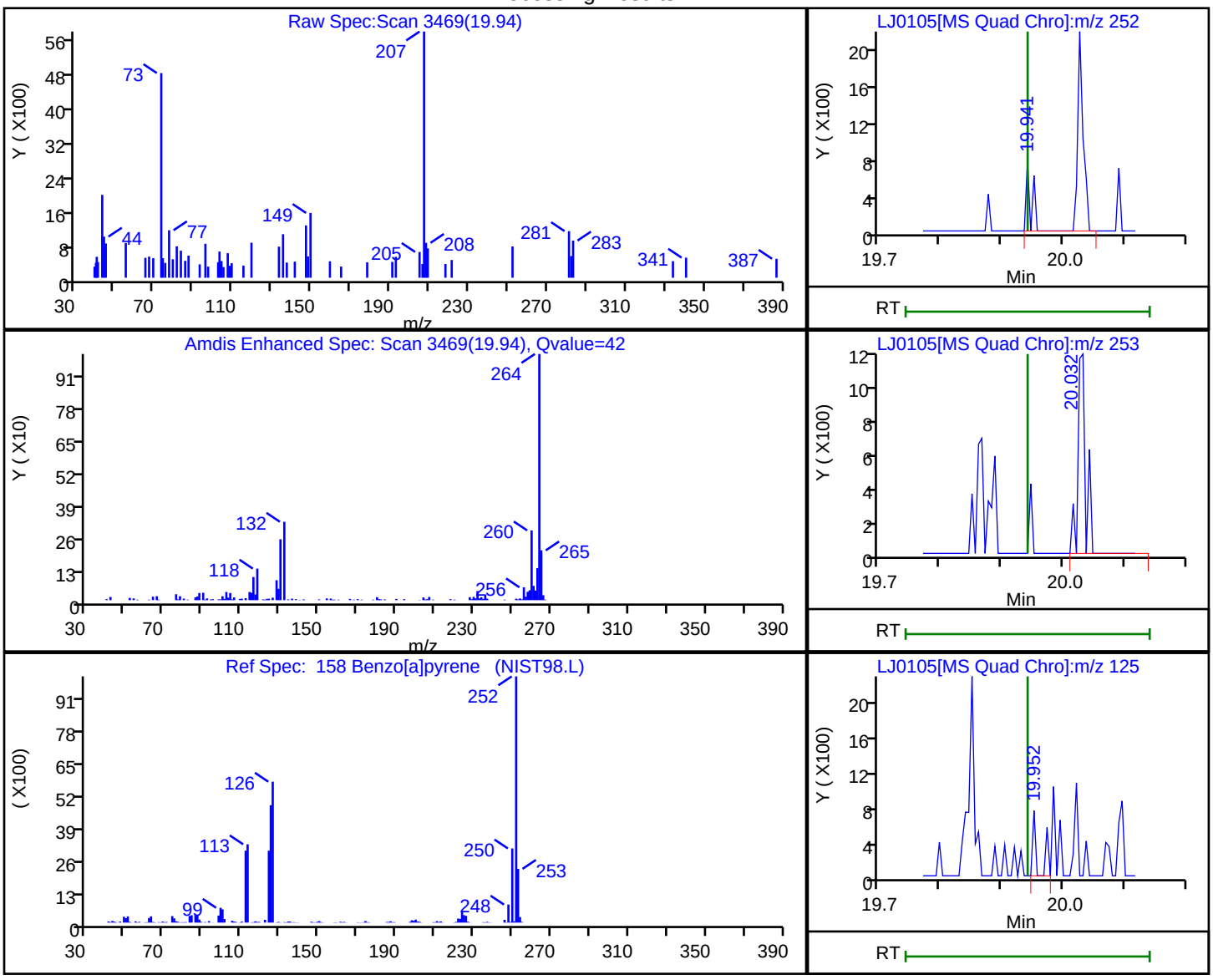
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\LJ0105.D				
Injection Date:	05-Oct-2020 23:55:05	Instrument ID:	HP20296		
Lims ID:	410-15514-D-3-C	Lab Sample ID:	410-15514-3		
Client ID:	MW-10D-20200928				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

158 Benzo[a]pyrene, CAS: 50-32-8

Processing Results



RT	Mass	Response	Amount
19.94	252.00	1743	0.020992
20.03	253.00	1011	
19.95	125.00	419	

Reviewer: beckk, 06-Oct-2020 11:27:51

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15514-1

SDG No.:

Client Sample ID: MW-7S-20200928 Lab Sample ID: 410-15514-4

Matrix: Ground Water Lab File ID: LJ0158.D

Analysis Method: 8270D Date Collected: 09/28/2020 15:02

Extract. Method: 3510C Date Extracted: 10/05/2020 09:20

Sample wt/vol: 245(mL) Date Analyzed: 10/06/2020 21:57

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.: 51485 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.51	0.10
208-96-8	Acenaphthylene	ND		0.51	0.10
120-12-7	Anthracene	ND		0.51	0.10
56-55-3	Benzo[a]anthracene	ND		0.51	0.10
50-32-8	Benzo[a]pyrene	ND		0.51	0.10
205-99-2	Benzo[b]fluoranthene	ND		0.51	0.10
191-24-2	Benzo[g,h,i]perylene	ND		0.51	0.10
207-08-9	Benzo[k]fluoranthene	ND		0.51	0.10
218-01-9	Chrysene	ND		0.51	0.10
53-70-3	Dibenz(a,h)anthracene	ND		0.51	0.10
206-44-0	Fluoranthene	ND		0.51	0.10
86-73-7	Fluorene	ND		0.51	0.10
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.51	0.10
91-20-3	Naphthalene	ND		0.51	0.10
85-01-8	Phenanthrene	ND		0.51	0.10
129-00-0	Pyrene	ND		0.51	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	80		44-102
4165-60-0	Nitrobenzene-d5 (Surr)	96		38-113
1718-51-0	p-Terphenyl-d14 (Surr)	62		34-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0158.D
Lims ID: 410-15514-D-4-A
Client ID: MW-7S-20200928
Sample Type: Client
Inject. Date: 06-Oct-2020 21:57:37 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-15514-D-4-A
Misc. Info.: 410-0012211-010
Operator ID: kel10217 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 06-Oct-2020 23:00:58 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1014

First Level Reviewer: luttek Date: 06-Oct-2020 22:55:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 24 1,4-Dichlorobenzene-d4	152	6.736	6.730	0.006	95	144568	5.00	
$ 41 Nitrobenzene-d5	82	7.586	7.591	-0.005	90	1426279	24.1	
* 55 Naphthalene-d8	136	8.709	8.709	0.000	99	583583	5.00	
56 Naphthalene	128		8.746				ND	7
$ 76 2-Fluorobiphenyl (Surr)	172	10.496	10.495	0.001	98	1573598	19.9	
90 Acenaphthylene	152		11.325				ND	
* 92 Acenaphthene-d10	164	11.549	11.555	-0.005	96	251529	5.00	
93 Acenaphthene	153		11.603				ND	U
105 Fluorene	166		12.319				ND	7
* 127 Phenanthrene-d10	188	13.480	13.485	-0.005	96	420360	5.00	
129 Phenanthrene	178		13.512				ND	7
130 Anthracene	178		13.582				ND	7
138 Fluoranthene	202		15.176				ND	7
* 140 Pyrene-d10 (IS)	212	15.486	15.491	-0.005	99	389579	5.00	
141 Pyrene	202		15.518				ND	7
$ 142 p-Terphenyl-d14	244	15.802	15.807	-0.005	96	1102574	15.6	
149 Benzo[a]anthracene	228		17.545				ND	7
151 Chrysene	228		17.609				ND	7
155 Benzo[b]fluoranthene	252		19.422				ND	7
157 Benzo[k]fluoranthene	252		19.465				ND	7
158 Benzo[a]pyrene	252		19.952				ND	7
* 159 Perylene-d12	264	20.038	20.043	-0.005	96	387796	5.00	
163 Indeno[1,2,3-cd]pyrene	276		21.669				ND	
164 Dibenz(a,h)anthracene	278		21.706				ND	7
165 Benzo[g,h,i]perylene	276		22.059				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
U - Marked Undetected

Reagents:

MSS_RV8270_IS_00013 Amount Added: 20.00 Units: uL Run Reagent

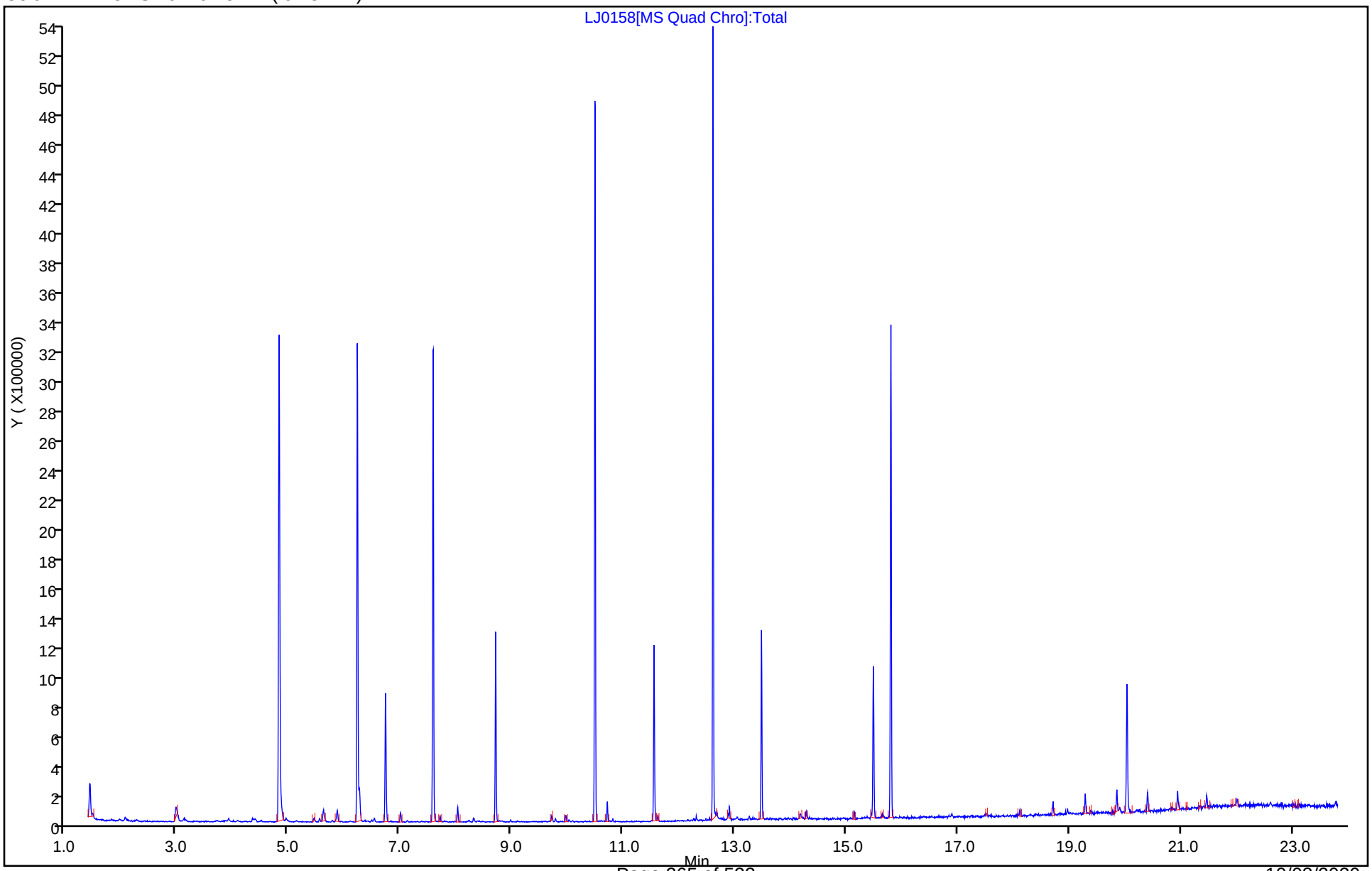
Report Date: 06-Oct-2020 23:01:18 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0158.D

Injection Date:	06-Oct-2020 21:57:37	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	410-15514-D-4-A	Lab Sample ID:	410-15514-4	Worklist Smp#:	10
Client ID:	MW-7S-20200928				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



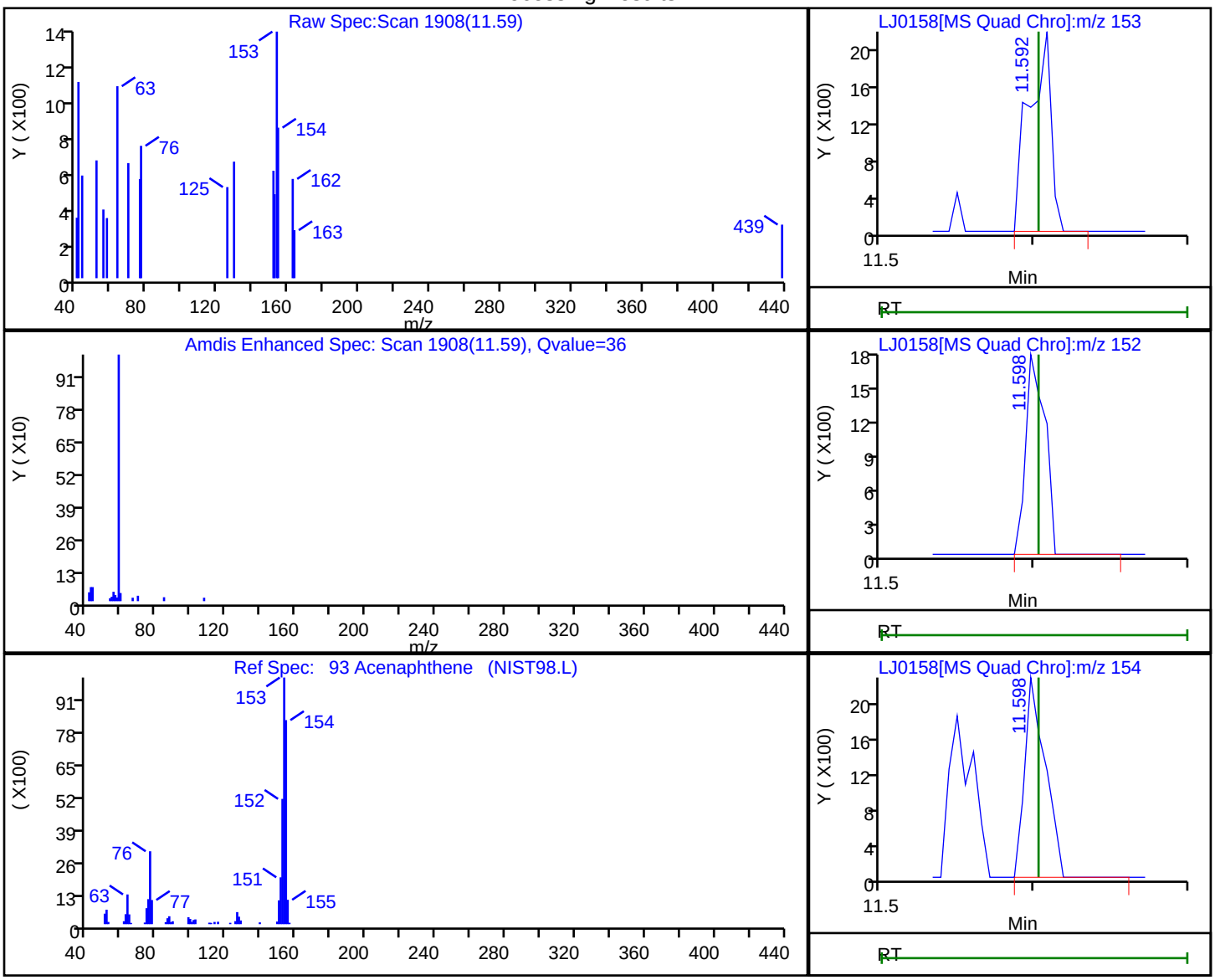
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0158.D				
Injection Date:	06-Oct-2020 21:57:37	Instrument ID:	HP20296		
Lims ID:	410-15514-D-4-A	Lab Sample ID:	410-15514-4		
Client ID:	MW-7S-20200928				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

93 Acenaphthene, CAS: 83-32-9

Processing Results



RT	Mass	Response	Amount
11.59	153.00	2134	0.028017
11.60	152.00	1531	
11.60	154.00	2062	

Reviewer: luttek, 06-Oct-2020 22:55:40

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.: 410-15514-1

SDG No.:

Client Sample ID: MW-7D-20200928 Lab Sample ID: 410-15514-5

Matrix: Ground Water Lab File ID: LJ0159.D

Analysis Method: 8270D Date Collected: 09/28/2020 15:40

Extract. Method: 3510C Date Extracted: 10/05/2020 09:20

Sample wt/vol: 245(mL) Date Analyzed: 10/06/2020 22:26

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.: 51485 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.51	0.10
208-96-8	Acenaphthylene	ND		0.51	0.10
120-12-7	Anthracene	ND		0.51	0.10
56-55-3	Benzo[a]anthracene	ND		0.51	0.10
50-32-8	Benzo[a]pyrene	ND		0.51	0.10
205-99-2	Benzo[b]fluoranthene	ND		0.51	0.10
191-24-2	Benzo[g,h,i]perylene	ND		0.51	0.10
207-08-9	Benzo[k]fluoranthene	ND		0.51	0.10
218-01-9	Chrysene	ND		0.51	0.10
53-70-3	Dibenz(a,h)anthracene	ND		0.51	0.10
206-44-0	Fluoranthene	ND		0.51	0.10
86-73-7	Fluorene	ND		0.51	0.10
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.51	0.10
91-20-3	Naphthalene	ND		0.51	0.10
85-01-8	Phenanthrene	ND		0.51	0.10
129-00-0	Pyrene	ND		0.51	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	72		44-102
4165-60-0	Nitrobenzene-d5 (Surr)	83		38-113
1718-51-0	p-Terphenyl-d14 (Surr)	48		34-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0159.D
Lims ID: 410-15514-D-5-A
Client ID: MW-7D-20200928
Sample Type: Client
Inject. Date: 06-Oct-2020 22:26:49 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-15514-D-5-A
Misc. Info.: 410-0012211-011
Operator ID: kel10217 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 06-Oct-2020 23:00:58 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1014

First Level Reviewer: luttek Date: 06-Oct-2020 22:57:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 24 1,4-Dichlorobenzene-d4	152	6.736	6.730	0.006	95	138804	5.00	
$ 41 Nitrobenzene-d5	82	7.591	7.591	0.000	90	1191041	20.8	
* 55 Naphthalene-d8	136	8.709	8.709	0.000	99	565565	5.00	
56 Naphthalene	128		8.746				ND	7
$ 76 2-Fluorobiphenyl (Surr)	172	10.496	10.495	0.001	99	1394182	18.0	
90 Acenaphthylene	152		11.325				ND	
* 92 Acenaphthene-d10	164	11.555	11.555	0.001	96	246342	5.00	
93 Acenaphthene	153		11.603				ND	7
105 Fluorene	166		12.319				ND	
* 127 Phenanthrene-d10	188	13.480	13.485	-0.005	96	419279	5.00	
129 Phenanthrene	178		13.512				ND	
130 Anthracene	178		13.582				ND	
138 Fluoranthene	202		15.176				ND	
* 140 Pyrene-d10 (IS)	212	15.486	15.491	-0.005	97	376976	5.00	
141 Pyrene	202		15.518				ND	U
$ 142 p-Terphenyl-d14	244	15.801	15.807	-0.006	96	824539	12.1	
149 Benzo[a]anthracene	228		17.545				ND	
151 Chrysene	228		17.609				ND	
155 Benzo[b]fluoranthene	252		19.422				ND	7
157 Benzo[k]fluoranthene	252		19.465				ND	7
158 Benzo[a]pyrene	252		19.952				ND	U
* 159 Perylene-d12	264	20.038	20.043	-0.005	96	374212	5.00	
163 Indeno[1,2,3-cd]pyrene	276		21.669				ND	
164 Dibenz(a,h)anthracene	278		21.706				ND	
165 Benzo[g,h,i]perylene	276		22.059				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
U - Marked Undetected

Reagents:

MSS_RV8270_IS_00013 Amount Added: 20.00 Units: uL Run Reagent

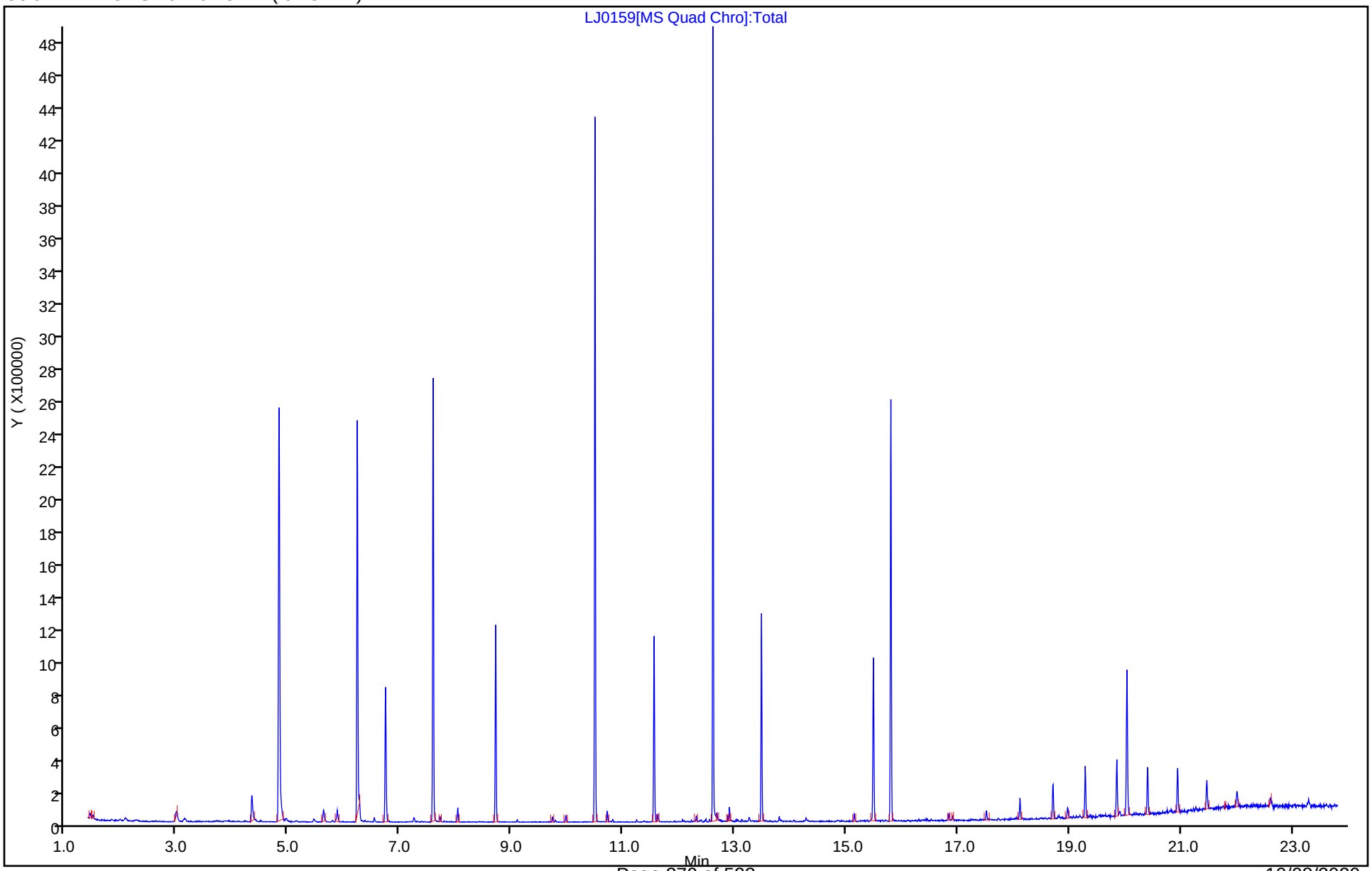
Report Date: 06-Oct-2020 23:01:20 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0159.D

Injection Date:	06-Oct-2020 22:26:49	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	410-15514-D-5-A	Lab Sample ID:	410-15514-5	Worklist Smp#:	11
Client ID:	MW-7D-20200928				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



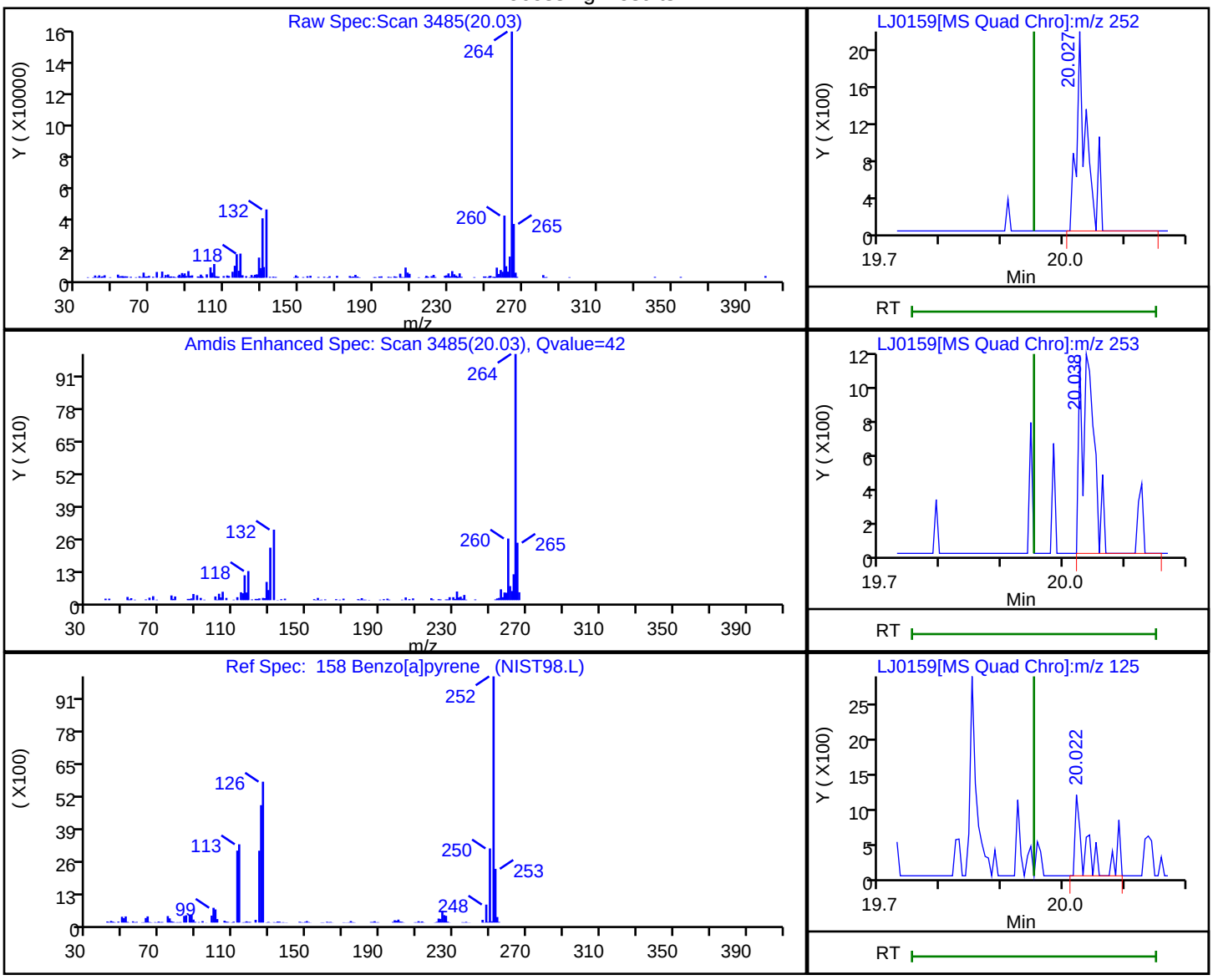
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0159.D				
Injection Date:	06-Oct-2020 22:26:49	Instrument ID:	HP20296		
Lims ID:	410-15514-D-5-A	Lab Sample ID:	410-15514-5		
Client ID:	MW-7D-20200928				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

158 Benzo[a]pyrene, CAS: 50-32-8

Processing Results



RT	Mass	Response	Amount
20.03	252.00	2531	0.028374
20.04	253.00	2043	
20.02	125.00	1449	

Reviewer: luttek, 06-Oct-2020 22:56:58

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

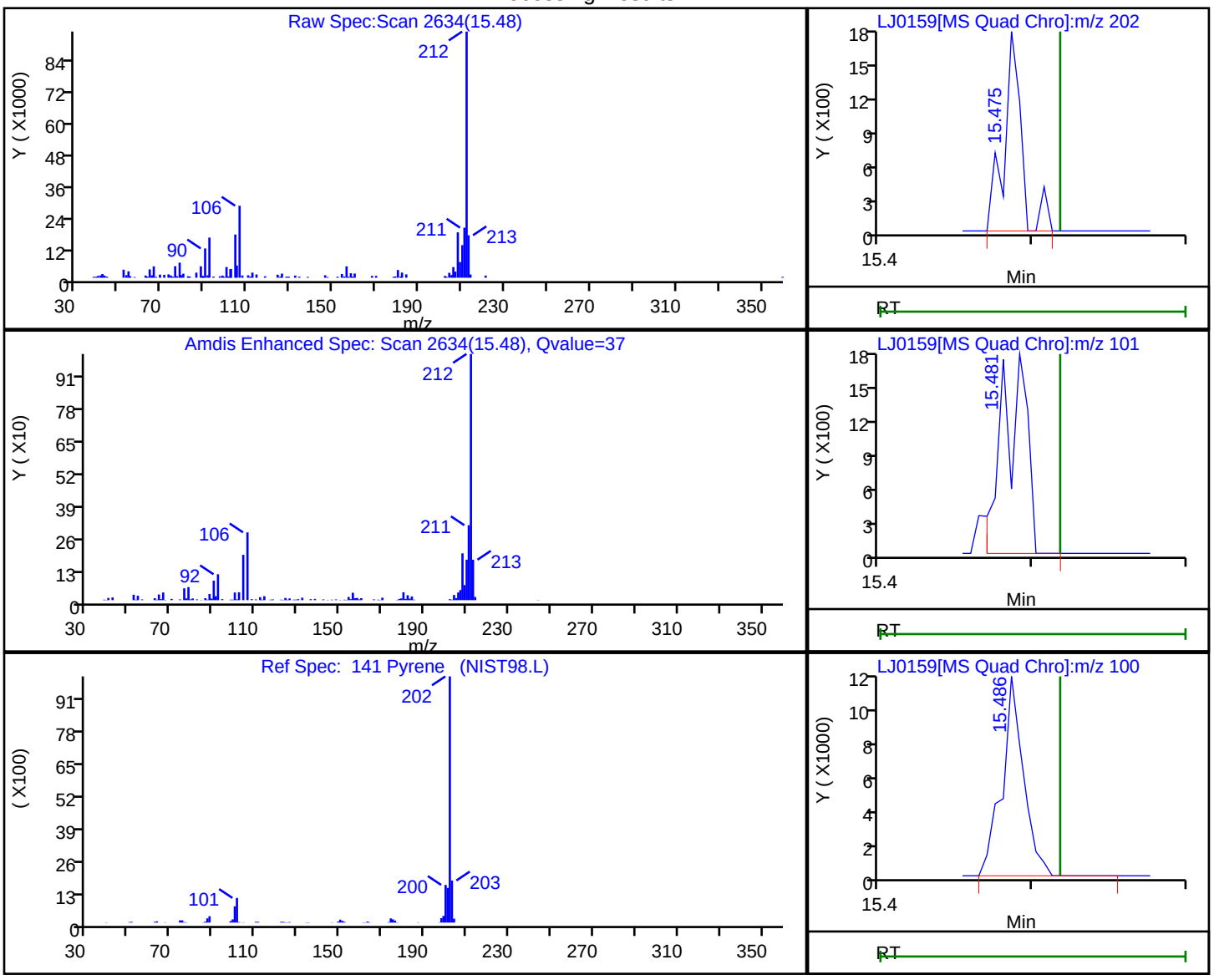
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0159.D				
Injection Date:	06-Oct-2020 22:26:49	Instrument ID:	HP20296		
Lims ID:	410-15514-D-5-A	Lab Sample ID:	410-15514-5		
Client ID:	MW-7D-20200928				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

141 Pyrene, CAS: 129-00-0

Processing Results



RT	Mass	Response	Amount
15.48	202.00	1386	0.013227
15.48	101.00	1882	
15.49	100.00	11181	
15.48	203.00	1209	

Reviewer: luttek, 06-Oct-2020 22:56:56

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.: 410-15514-1

SDG No.:

Client Sample ID: MW-8S-20200928 Lab Sample ID: 410-15514-6

Matrix: Ground Water Lab File ID: LJ0160.D

Analysis Method: 8270D Date Collected: 09/28/2020 16:32

Extract. Method: 3510C Date Extracted: 10/05/2020 09:20

Sample wt/vol: 244(mL) Date Analyzed: 10/06/2020 22:55

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.: 51485 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.21	J	0.51	0.10
208-96-8	Acenaphthylene	ND		0.51	0.10
120-12-7	Anthracene	ND		0.51	0.10
56-55-3	Benzo[a]anthracene	ND		0.51	0.10
50-32-8	Benzo[a]pyrene	ND		0.51	0.10
205-99-2	Benzo[b]fluoranthene	ND		0.51	0.10
191-24-2	Benzo[g,h,i]perylene	ND		0.51	0.10
207-08-9	Benzo[k]fluoranthene	ND		0.51	0.10
218-01-9	Chrysene	ND		0.51	0.10
53-70-3	Dibenz(a,h)anthracene	ND		0.51	0.10
206-44-0	Fluoranthene	ND		0.51	0.10
86-73-7	Fluorene	ND		0.51	0.10
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.51	0.10
91-20-3	Naphthalene	ND		0.51	0.10
85-01-8	Phenanthrene	ND		0.51	0.10
129-00-0	Pyrene	ND		0.51	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	85		44-102
4165-60-0	Nitrobenzene-d5 (Surr)	96		38-113
1718-51-0	p-Terphenyl-d14 (Surr)	77		34-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0160.D
Lims ID: 410-15514-D-6-A
Client ID: MW-8S-20200928
Sample Type: Client
Inject. Date: 06-Oct-2020 22:55:54 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-15514-D-6-A
Misc. Info.: 410-0012211-012
Operator ID: kel10217 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Oct-2020 14:36:36 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1017

First Level Reviewer: beckk Date: 07-Oct-2020 14:27:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 24 1,4-Dichlorobenzene-d4	152	6.735	6.730	0.005	95	127108	5.00	
$ 41 Nitrobenzene-d5	82	7.586	7.596	-0.005	91	1296222	24.0	
* 55 Naphthalene-d8	136	8.709	8.709	0.000	99	532551	5.00	
56 Naphthalene	128		8.746				ND	7
$ 76 2-Fluorobiphenyl (Surr)	172	10.496	10.496	0.001	98	1517569	21.4	
90 Acenaphthylene	152		11.325				ND	
* 92 Acenaphthene-d10	164	11.555	11.555	0.001	96	226537	5.00	
93 Acenaphthene	153	11.597	11.603	-0.006	43	3444	0.0502	
105 Fluorene	166		12.319				ND	
* 127 Phenanthrene-d10	188	13.480	13.485	-0.005	96	385929	5.00	
129 Phenanthrene	178		13.512				ND	7
130 Anthracene	178		13.582				ND	7
138 Fluoranthene	202		15.176				ND	
* 140 Pyrene-d10 (IS)	212	15.486	15.491	-0.005	98	361025	5.00	
141 Pyrene	202		15.518				ND	7
$ 142 p-Terphenyl-d14	244	15.807	15.807	0.000	96	1260964	19.3	
149 Benzo[a]anthracene	228		17.545				ND	
151 Chrysene	228		17.609				ND	
155 Benzo[b]fluoranthene	252		19.422				ND	7
157 Benzo[k]fluoranthene	252		19.465				ND	7
158 Benzo[a]pyrene	252		19.952				ND	7
* 159 Perylene-d12	264	20.043	20.043	0.000	96	365044	5.00	
163 Indeno[1,2,3-cd]pyrene	276		21.669				ND	
164 Dibenz(a,h)anthracene	278		21.706				ND	7
165 Benzo[g,h,i]perylene	276		22.059				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSS_RV8270_IS_00013 Amount Added: 20.00 Units: uL Run Reagent

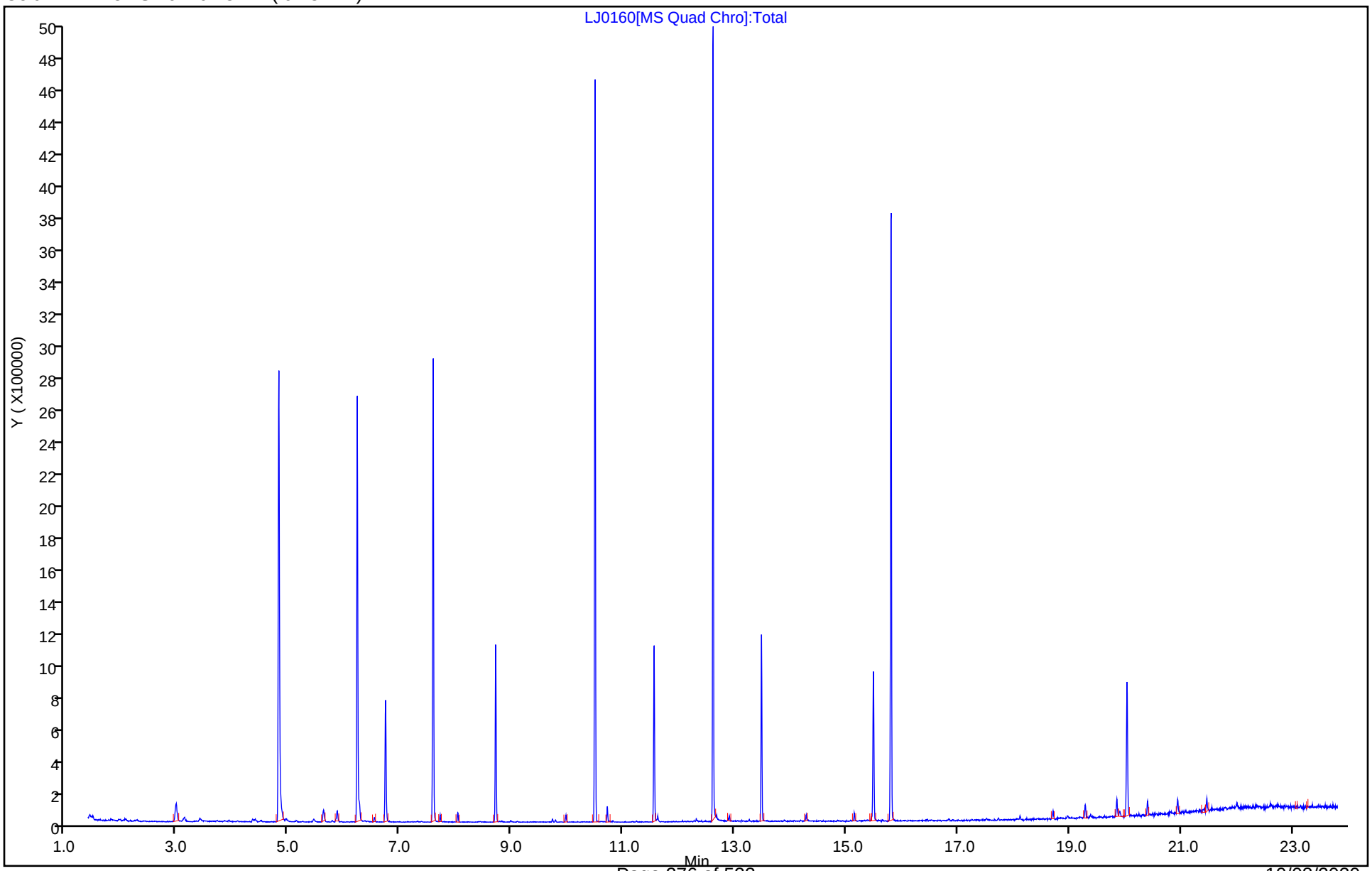
Report Date: 07-Oct-2020 14:40:08 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0160.D

Injection Date:	06-Oct-2020 22:55:54	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	410-15514-D-6-A	Lab Sample ID:	410-15514-6	Worklist Smp#:	12
Client ID:	MW-8S-20200928				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

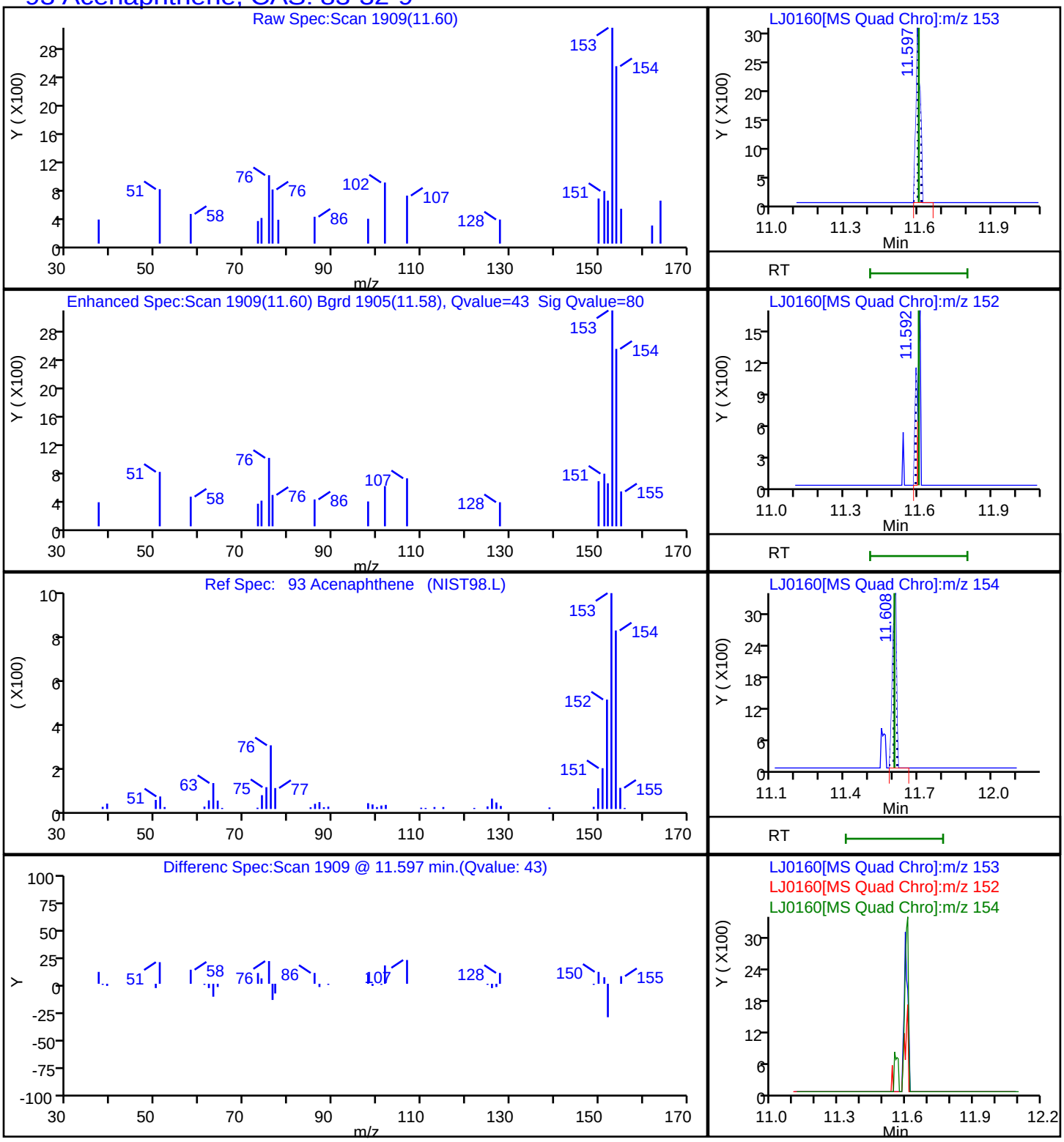
Column: DB-5MS 20m 0.18mm (0.18 mm)



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0160.D				
Injection Date:	06-Oct-2020 22:55:54	Instrument ID:	HP20296		
Lims ID:	410-15514-D-6-A	Lab Sample ID:	410-15514-6		
Client ID:	MW-8S-20200928				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

93 Acenaphthene, CAS: 83-32-9



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15514-1

SDG No.:

Client Sample ID: MW-8D-20200929 Lab Sample ID: 410-15514-7

Matrix: Ground Water Lab File ID: LJ0161.D

Analysis Method: 8270D Date Collected: 09/29/2020 08:27

Extract. Method: 3510C Date Extracted: 10/05/2020 09:20

Sample wt/vol: 248(mL) Date Analyzed: 10/06/2020 23:25

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 51485 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.50	0.10
208-96-8	Acenaphthylene	ND		0.50	0.10
120-12-7	Anthracene	ND		0.50	0.10
56-55-3	Benzo[a]anthracene	ND		0.50	0.10
50-32-8	Benzo[a]pyrene	ND		0.50	0.10
205-99-2	Benzo[b]fluoranthene	ND		0.50	0.10
191-24-2	Benzo[g,h,i]perylene	ND		0.50	0.10
207-08-9	Benzo[k]fluoranthene	ND		0.50	0.10
218-01-9	Chrysene	ND		0.50	0.10
53-70-3	Dibenz(a,h)anthracene	ND		0.50	0.10
206-44-0	Fluoranthene	ND		0.50	0.10
86-73-7	Fluorene	ND		0.50	0.10
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.50	0.10
91-20-3	Naphthalene	ND		0.50	0.10
85-01-8	Phenanthrene	ND		0.50	0.10
129-00-0	Pyrene	ND		0.50	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	90		44-102
4165-60-0	Nitrobenzene-d5 (Surr)	100		38-113
1718-51-0	p-Terphenyl-d14 (Surr)	61		34-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0161.D
Lims ID: 410-15514-D-7-A
Client ID: MW-8D-20200929
Sample Type: Client
Inject. Date: 06-Oct-2020 23:25:05 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-15514-D-7-A
Misc. Info.: 410-0012211-013
Operator ID: kel10217 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Oct-2020 14:36:36 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1017

First Level Reviewer: beckk Date: 07-Oct-2020 14:27:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 24 1,4-Dichlorobenzene-d4	152	6.736	6.730	0.006	95	136452	5.00	
$ 41 Nitrobenzene-d5	82	7.586	7.596	-0.005	90	1376633	25.0	
* 55 Naphthalene-d8	136	8.709	8.709	0.000	99	543246	5.00	
56 Naphthalene	128		8.746				ND	
$ 76 2-Fluorobiphenyl (Surr)	172	10.496	10.496	0.001	98	1605180	22.7	
90 Acenaphthylene	152		11.325				ND	
* 92 Acenaphthene-d10	164	11.549	11.555	-0.005	97	225480	5.00	
93 Acenaphthene	153		11.603				ND	
105 Fluorene	166		12.319				ND	
* 127 Phenanthrene-d10	188	13.480	13.485	-0.005	97	392135	5.00	
129 Phenanthrene	178		13.512				ND	7
130 Anthracene	178		13.582				ND	7
138 Fluoranthene	202		15.176				ND	7
* 140 Pyrene-d10 (IS)	212	15.486	15.491	-0.005	99	364966	5.00	
141 Pyrene	202		15.518				ND	7
$ 142 p-Terphenyl-d14	244	15.801	15.807	-0.006	96	1010426	15.3	
149 Benzo[a]anthracene	228		17.545				ND	7
151 Chrysene	228		17.609				ND	7
155 Benzo[b]fluoranthene	252		19.422				ND	7
157 Benzo[k]fluoranthene	252		19.465				ND	7
158 Benzo[a]pyrene	252		19.952				ND	U
* 159 Perylene-d12	264	20.038	20.043	-0.005	95	360655	5.00	
163 Indeno[1,2,3-cd]pyrene	276		21.669				ND	
164 Dibenz(a,h)anthracene	278		21.706				ND	7
165 Benzo[g,h,i]perylene	276		22.059				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
U - Marked Undetected

Reagents:

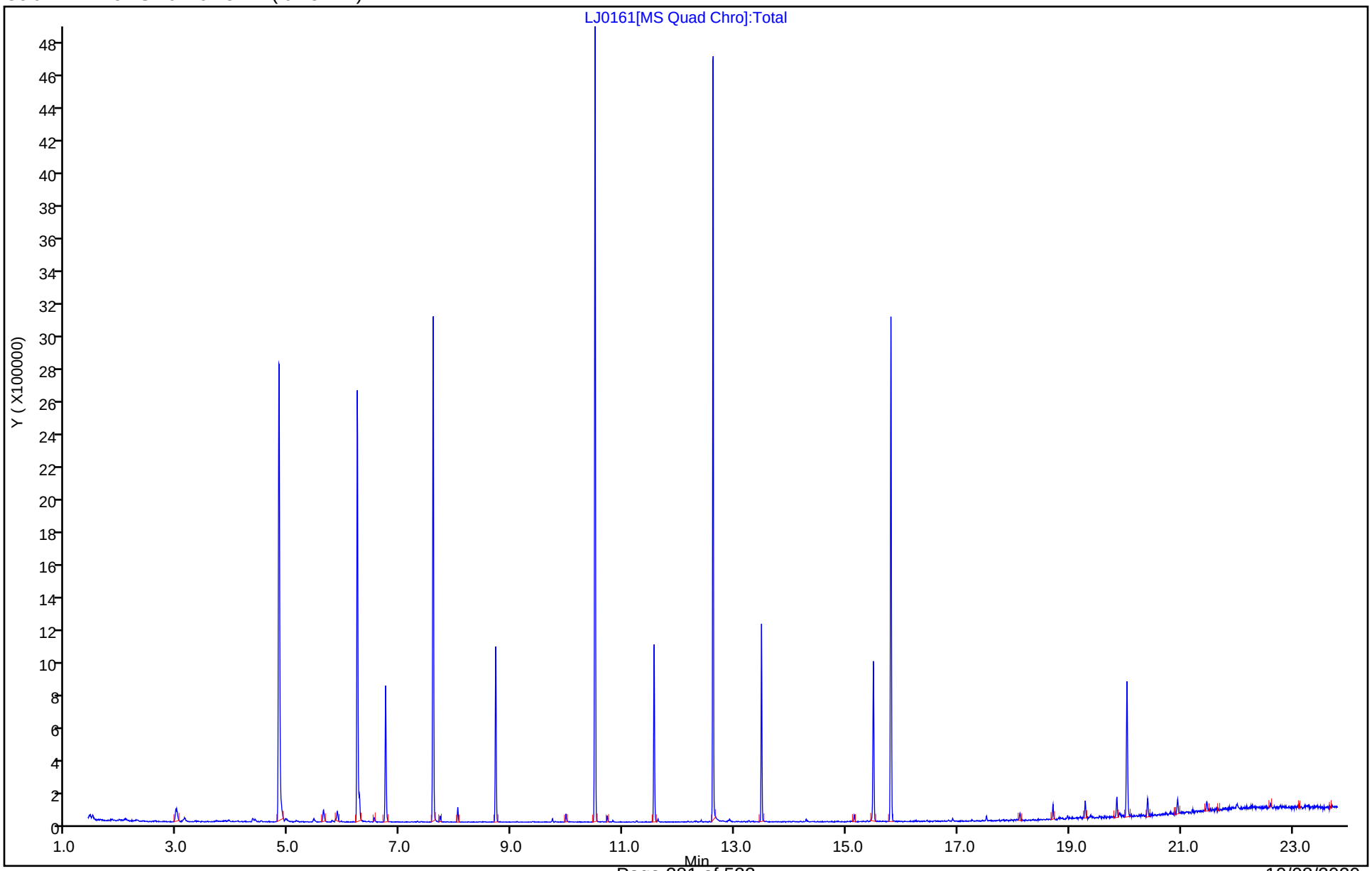
MSS_RV8270_IS_00013 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 07-Oct-2020 14:40:16 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0161.D				
Injection Date:	06-Oct-2020 23:25:05	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	410-15514-D-7-A	Lab Sample ID:	410-15514-7	Worklist Smp#:	13
Client ID:	MW-8D-20200929				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



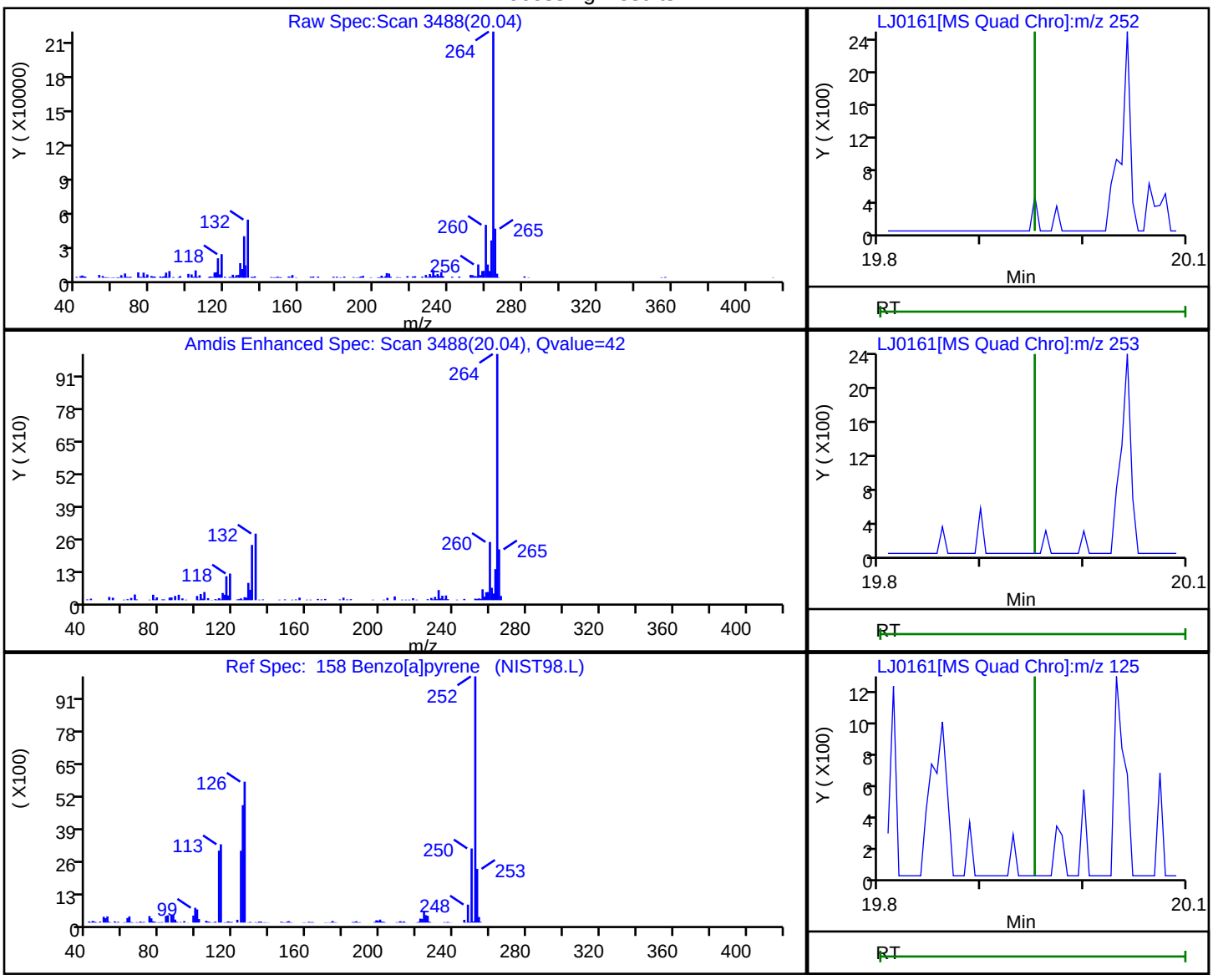
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0161.D				
Injection Date:	06-Oct-2020 23:25:05	Instrument ID:	HP20296		
Lims ID:	410-15514-D-7-A	Lab Sample ID:	410-15514-7		
Client ID:	MW-8D-20200929				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

158 Benzo[a]pyrene, CAS: 50-32-8

Processing Results



RT	Mass	Response	Amount
20.04	252.00	2193	0.025509
20.04	253.00	1601	
20.03	125.00	1080	

Reviewer: beckk, 07-Oct-2020 14:27:47

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.: 410-15514-1

SDG No.:

Client Sample ID: MW-14S-20200929 Lab Sample ID: 410-15514-8

Matrix: Ground Water Lab File ID: LJ0162.D

Analysis Method: 8270D Date Collected: 09/29/2020 09:18

Extract. Method: 3510C Date Extracted: 10/05/2020 09:20

Sample wt/vol: 250(mL) Date Analyzed: 10/06/2020 23:54

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 51485 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.12	J	0.50	0.10
208-96-8	Acenaphthylene	ND		0.50	0.10
120-12-7	Anthracene	ND		0.50	0.10
56-55-3	Benzo[a]anthracene	ND		0.50	0.10
50-32-8	Benzo[a]pyrene	ND		0.50	0.10
205-99-2	Benzo[b]fluoranthene	ND		0.50	0.10
191-24-2	Benzo[g,h,i]perylene	ND		0.50	0.10
207-08-9	Benzo[k]fluoranthene	ND		0.50	0.10
218-01-9	Chrysene	ND		0.50	0.10
53-70-3	Dibenz(a,h)anthracene	ND		0.50	0.10
206-44-0	Fluoranthene	ND		0.50	0.10
86-73-7	Fluorene	ND		0.50	0.10
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.50	0.10
91-20-3	Naphthalene	ND		0.50	0.10
85-01-8	Phenanthrene	ND		0.50	0.10
129-00-0	Pyrene	ND		0.50	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	74		44-102
4165-60-0	Nitrobenzene-d5 (Surr)	83		38-113
1718-51-0	p-Terphenyl-d14 (Surr)	78		34-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0162.D
Lims ID: 410-15514-D-8-A
Client ID: MW-14S-20200929
Sample Type: Client
Inject. Date: 06-Oct-2020 23:54:11 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-15514-D-8-A
Misc. Info.: 410-0012211-014
Operator ID: kel10217 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Oct-2020 14:36:36 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1017

First Level Reviewer: beckk Date: 07-Oct-2020 14:28:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 24 1,4-Dichlorobenzene-d4	152	6.736	6.730	0.006	95	140352	5.00	
$ 41 Nitrobenzene-d5	82	7.591	7.596	0.000	90	1135489	20.7	
* 55 Naphthalene-d8	136	8.715	8.709	0.006	99	542728	5.00	
56 Naphthalene	128		8.746				ND	7
$ 76 2-Fluorobiphenyl (Surr)	172	10.496	10.496	0.001	99	1368095	18.7	
90 Acenaphthylene	152		11.325				ND	7
* 92 Acenaphthene-d10	164	11.555	11.555	0.001	97	233793	5.00	
93 Acenaphthene	153	11.603	11.603	0.000	1	2115	0.0299	
105 Fluorene	166		12.319				ND	
* 127 Phenanthrene-d10	188	13.480	13.485	-0.005	97	395963	5.00	
129 Phenanthrene	178		13.512				ND	7
130 Anthracene	178		13.582				ND	7
138 Fluoranthene	202		15.176				ND	
* 140 Pyrene-d10 (IS)	212	15.486	15.491	-0.005	99	372335	5.00	
141 Pyrene	202		15.518				ND	U
$ 142 p-Terphenyl-d14	244	15.807	15.807	0.000	96	1319630	19.6	
149 Benzo[a]anthracene	228		17.545				ND	7
151 Chrysene	228		17.609				ND	7
155 Benzo[b]fluoranthene	252		19.422				ND	7
157 Benzo[k]fluoranthene	252		19.465				ND	7
158 Benzo[a]pyrene	252		19.952				ND	7
* 159 Perylene-d12	264	20.038	20.043	-0.005	95	359039	5.00	
163 Indeno[1,2,3-cd]pyrene	276		21.669				ND	
164 Dibenz(a,h)anthracene	278		21.706				ND	
165 Benzo[g,h,i]perylene	276		22.059				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
U - Marked Undetected

Reagents:

MSS_RV8270_IS_00013 Amount Added: 20.00 Units: uL Run Reagent

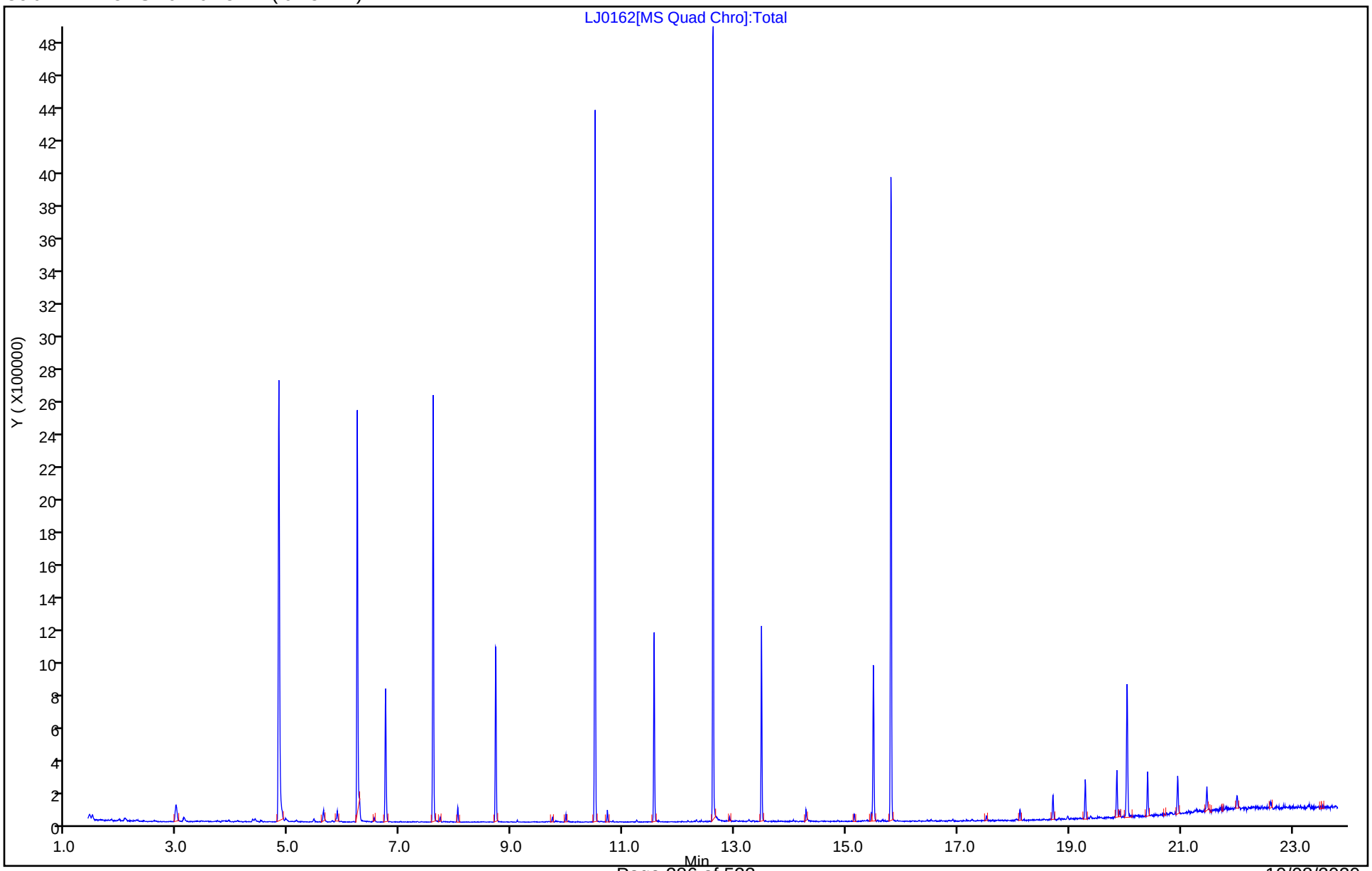
Report Date: 07-Oct-2020 14:40:23 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0162.D

Injection Date:	06-Oct-2020 23:54:11	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	410-15514-D-8-A	Lab Sample ID:	410-15514-8	Worklist Smp#:	14
Client ID:	MW-14S-20200929				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

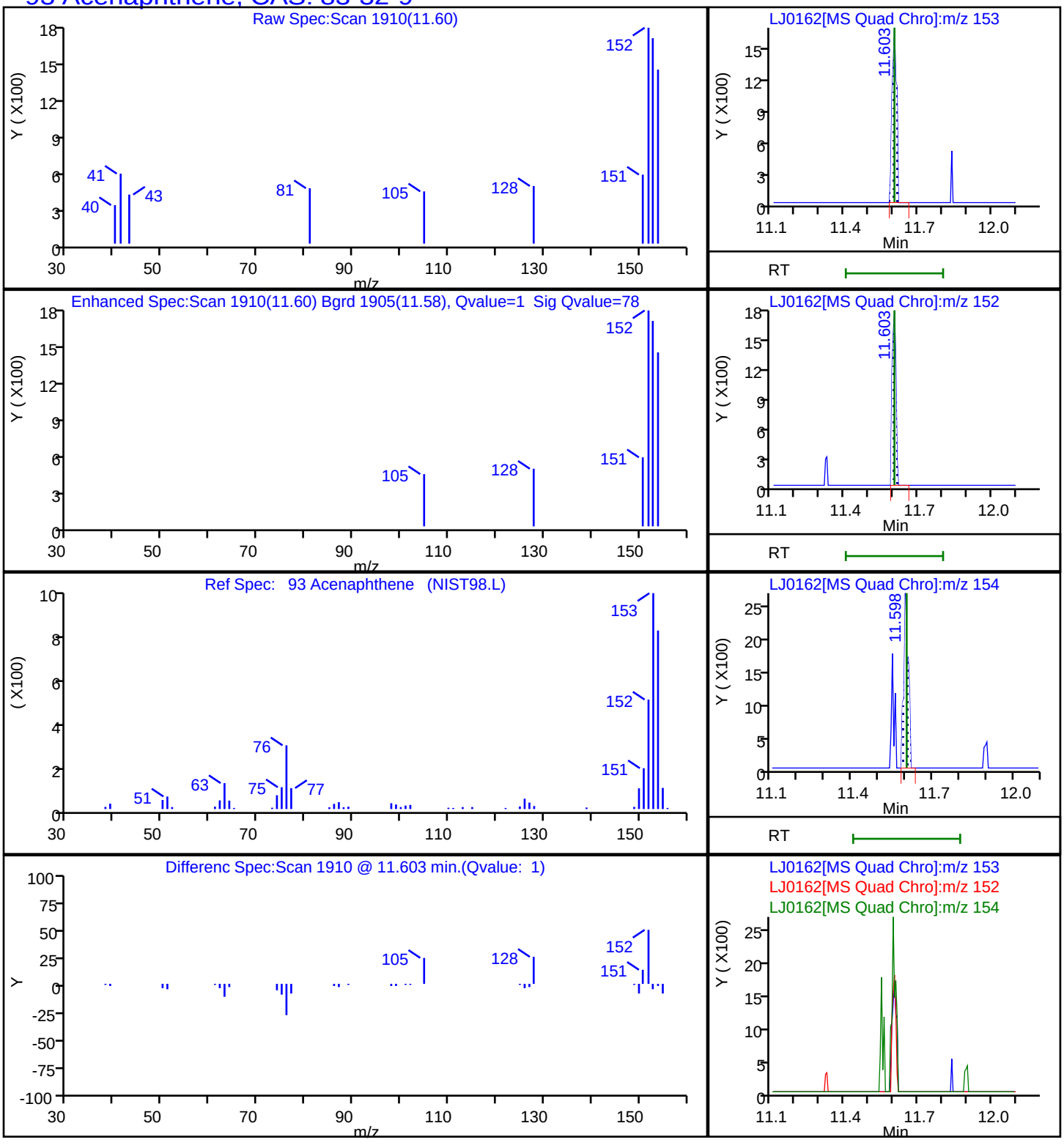
Column: DB-5MS 20m 0.18mm (0.18 mm)



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0162.D				
Injection Date:	06-Oct-2020 23:54:11	Instrument ID:	HP20296		
Lims ID:	410-15514-D-8-A	Lab Sample ID:	410-15514-8		
Client ID:	MW-14S-20200929				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

93 Acenaphthene, CAS: 83-32-9



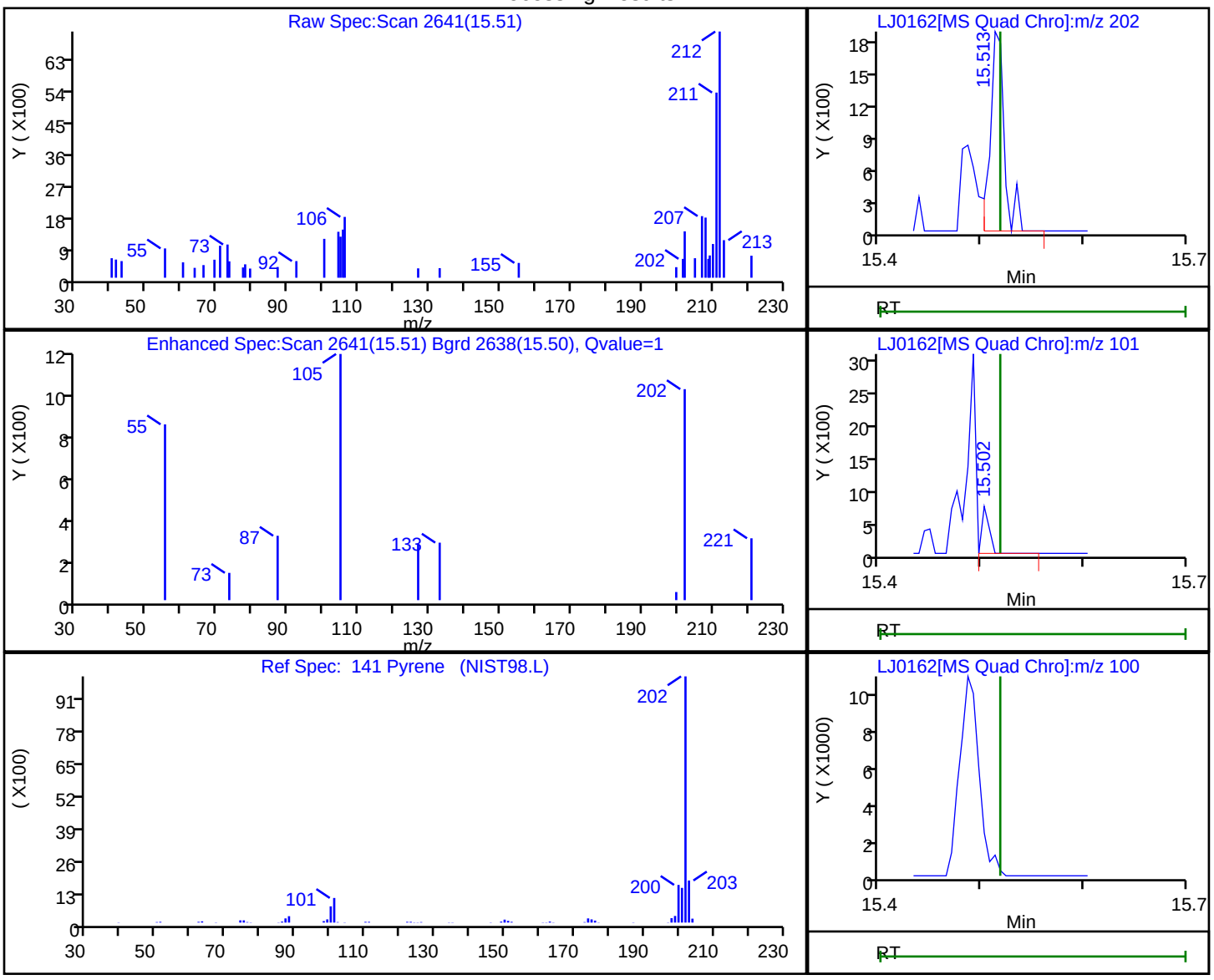
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0162.D				
Injection Date:	06-Oct-2020 23:54:11	Instrument ID:	HP20296		
Lims ID:	410-15514-D-8-A	Lab Sample ID:	410-15514-8		
Client ID:	MW-14S-20200929				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

141 Pyrene, CAS: 129-00-0

Processing Results



RT	Mass	Response	Amount
15.51	202.00	1722	0.016639
15.50	101.00	348	
15.52	100.00	0	
15.52	203.00	0	

Reviewer: beckk, 07-Oct-2020 14:28:05

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.: 410-15514-1

SDG No.:

Client Sample ID: MW-14D-20200929 Lab Sample ID: 410-15514-9

Matrix: Ground Water Lab File ID: LJ0163.D

Analysis Method: 8270D Date Collected: 09/29/2020 09:58

Extract. Method: 3510C Date Extracted: 10/05/2020 09:20

Sample wt/vol: 250(mL) Date Analyzed: 10/07/2020 00:23

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 51485 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.50	0.10
208-96-8	Acenaphthylene	ND		0.50	0.10
120-12-7	Anthracene	ND		0.50	0.10
56-55-3	Benzo[a]anthracene	ND		0.50	0.10
50-32-8	Benzo[a]pyrene	ND		0.50	0.10
205-99-2	Benzo[b]fluoranthene	ND		0.50	0.10
191-24-2	Benzo[g,h,i]perylene	ND		0.50	0.10
207-08-9	Benzo[k]fluoranthene	ND		0.50	0.10
218-01-9	Chrysene	ND		0.50	0.10
53-70-3	Dibenz(a,h)anthracene	ND		0.50	0.10
206-44-0	Fluoranthene	ND		0.50	0.10
86-73-7	Fluorene	ND		0.50	0.10
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.50	0.10
91-20-3	Naphthalene	ND		0.50	0.10
85-01-8	Phenanthrene	ND		0.50	0.10
129-00-0	Pyrene	ND		0.50	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	82		44-102
4165-60-0	Nitrobenzene-d5 (Surr)	89		38-113
1718-51-0	p-Terphenyl-d14 (Surr)	38		34-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0163.D
Lims ID: 410-15514-D-9-A
Client ID: MW-14D-20200929
Sample Type: Client
Inject. Date: 07-Oct-2020 00:23:20 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-15514-D-9-A
Misc. Info.: 410-0012211-015
Operator ID: kel10217 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Oct-2020 14:36:36 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1017

First Level Reviewer: beckk Date: 07-Oct-2020 14:28:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 24 1,4-Dichlorobenzene-d4	152	6.735	6.730	0.005	93	128523	5.00	
$ 41 Nitrobenzene-d5	82	7.591	7.596	0.000	91	1194509	22.2	
* 55 Naphthalene-d8	136	8.709	8.709	0.000	99	532190	5.00	
56 Naphthalene	128		8.746				ND	7
$ 76 2-Fluorobiphenyl (Surr)	172	10.496	10.496	0.001	98	1430026	20.6	
90 Acenaphthylene	152		11.325				ND	
* 92 Acenaphthene-d10	164	11.555	11.555	0.001	96	220792	5.00	
93 Acenaphthene	153		11.603				ND	
105 Fluorene	166		12.319				ND	
* 127 Phenanthrene-d10	188	13.480	13.485	-0.005	96	378817	5.00	
129 Phenanthrene	178		13.512				ND	7
130 Anthracene	178		13.582				ND	7
138 Fluoranthene	202		15.176				ND	7
* 140 Pyrene-d10 (IS)	212	15.486	15.491	-0.005	98	347635	5.00	
141 Pyrene	202		15.518				ND	7
$ 142 p-Terphenyl-d14	244	15.801	15.807	-0.006	96	597923	9.51	
149 Benzo[a]anthracene	228		17.545				ND	7
151 Chrysene	228		17.609				ND	7
155 Benzo[b]fluoranthene	252		19.422				ND	7
157 Benzo[k]fluoranthene	252		19.465				ND	7
158 Benzo[a]pyrene	252		19.952				ND	U
* 159 Perylene-d12	264	20.043	20.043	0.000	96	361423	5.00	
163 Indeno[1,2,3-cd]pyrene	276		21.669				ND	7
164 Dibenz(a,h)anthracene	278		21.706				ND	7
165 Benzo[g,h,i]perylene	276		22.059				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
U - Marked Undetected

Reagents:

MSS_RV8270_IS_00013 Amount Added: 20.00 Units: uL Run Reagent

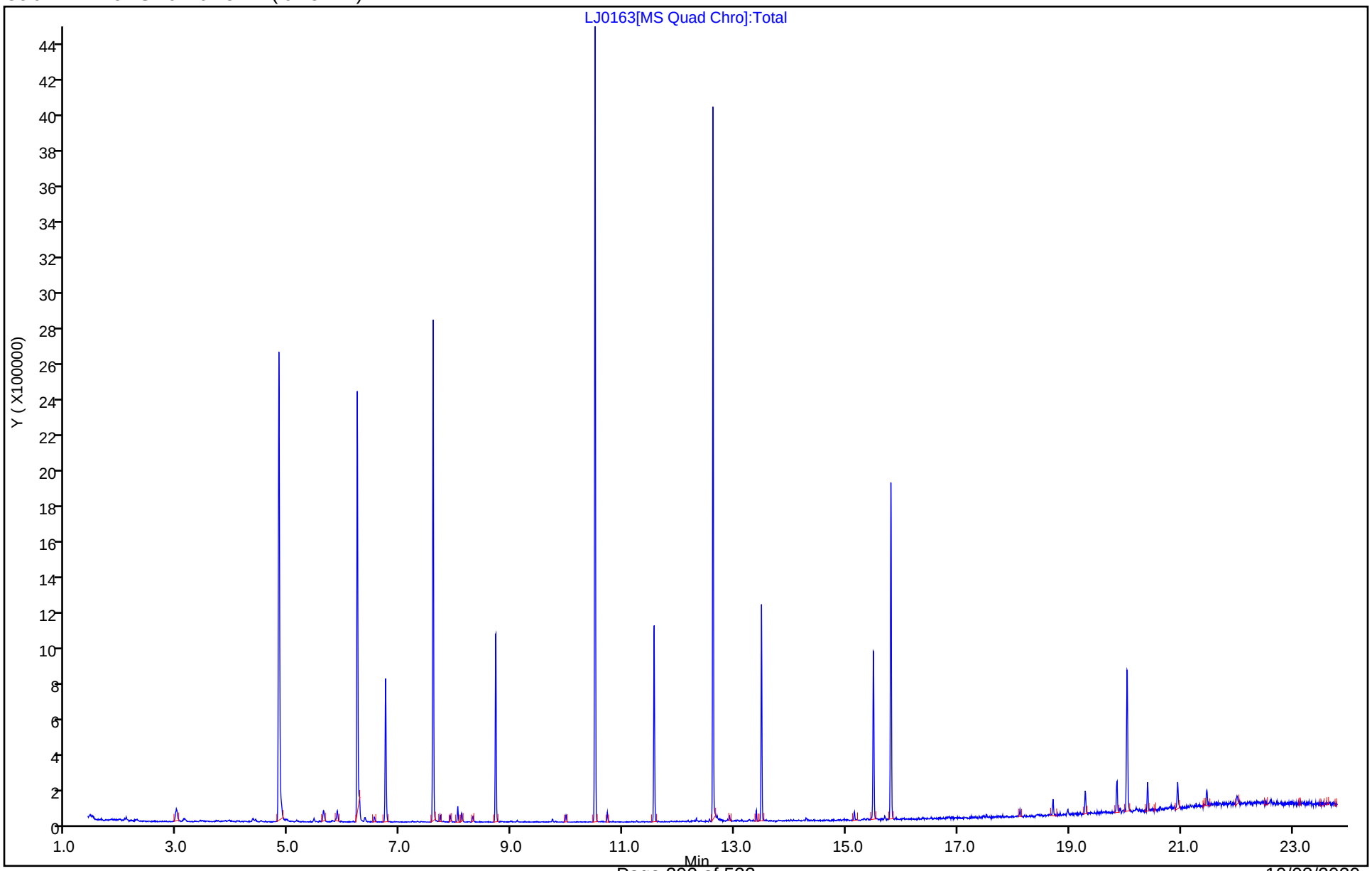
Report Date: 07-Oct-2020 14:40:30 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0163.D

Injection Date:	07-Oct-2020 00:23:20	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	410-15514-D-9-A	Lab Sample ID:	410-15514-9	Worklist Smp#:	15
Client ID:	MW-14D-20200929				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



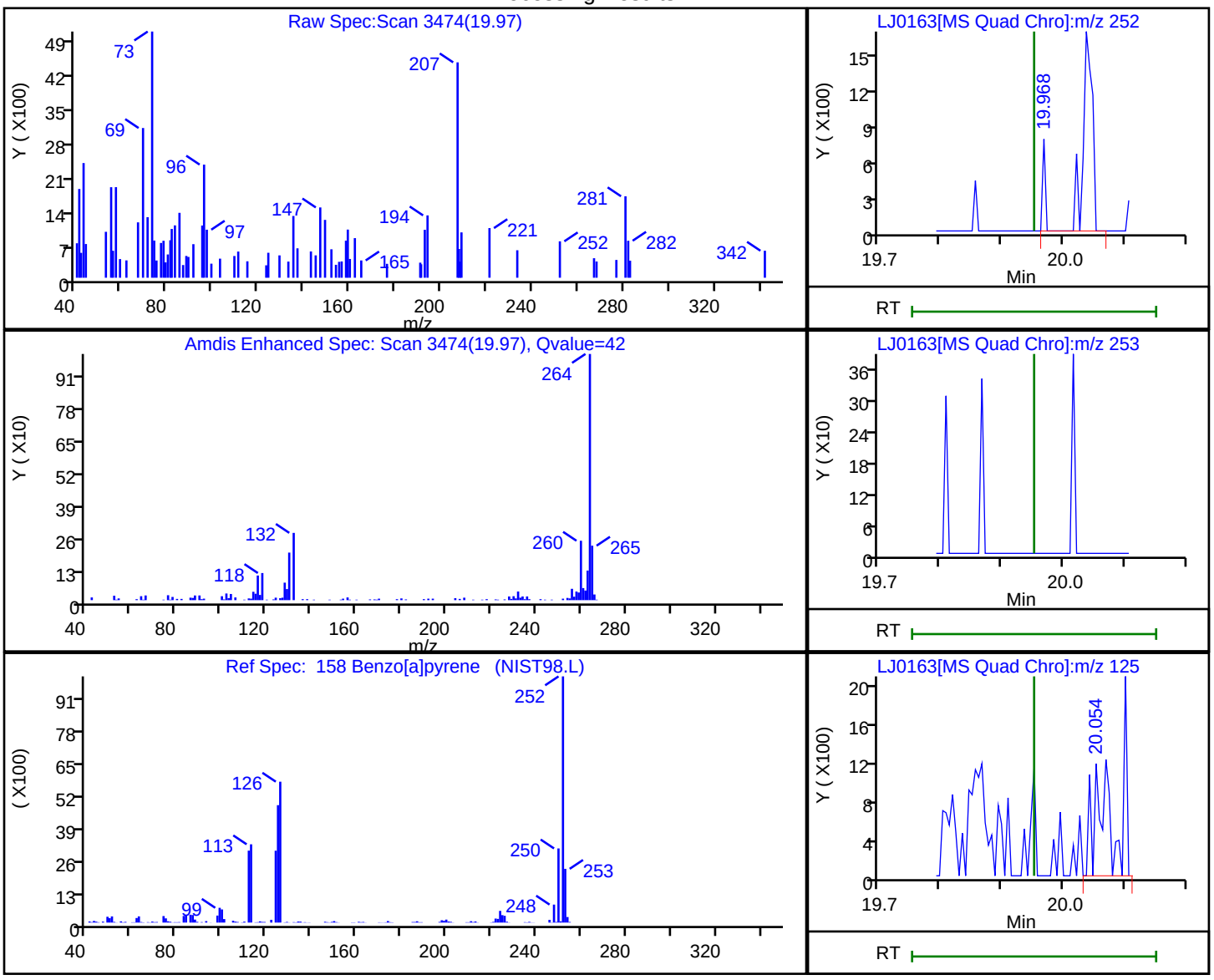
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0163.D				
Injection Date:	07-Oct-2020 00:23:20	Instrument ID:	HP20296		
Lims ID:	410-15514-D-9-A	Lab Sample ID:	410-15514-9		
Client ID:	MW-14D-20200929				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

158 Benzo[a]pyrene, CAS: 50-32-8

Processing Results



RT	Mass	Response	Amount
19.97	252.00	1951	0.022646
19.95	253.00	0	
20.05	125.00	2609	

Reviewer: beckk, 07-Oct-2020 14:28:25

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15514-1

SDG No.:

Client Sample ID: FB-20200929 Lab Sample ID: 410-15514-10

Matrix: Water Lab File ID: LJ0164.D

Analysis Method: 8270D Date Collected: 09/29/2020 10:10

Extract. Method: 3510C Date Extracted: 10/05/2020 09:20

Sample wt/vol: 251(mL) Date Analyzed: 10/07/2020 00:52

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.: 51485 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.50	0.10
208-96-8	Acenaphthylene	ND		0.50	0.10
120-12-7	Anthracene	ND		0.50	0.10
56-55-3	Benzo[a]anthracene	ND		0.50	0.10
50-32-8	Benzo[a]pyrene	ND		0.50	0.10
205-99-2	Benzo[b]fluoranthene	ND		0.50	0.10
191-24-2	Benzo[g,h,i]perylene	ND		0.50	0.10
207-08-9	Benzo[k]fluoranthene	ND		0.50	0.10
218-01-9	Chrysene	ND		0.50	0.10
53-70-3	Dibenz(a,h)anthracene	ND		0.50	0.10
206-44-0	Fluoranthene	ND		0.50	0.10
86-73-7	Fluorene	ND		0.50	0.10
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.50	0.10
91-20-3	Naphthalene	ND		0.50	0.10
85-01-8	Phenanthrene	ND		0.50	0.10
129-00-0	Pyrene	ND		0.50	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	89		44-102
4165-60-0	Nitrobenzene-d5 (Surr)	95		38-113
1718-51-0	p-Terphenyl-d14 (Surr)	85		34-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0164.D
Lims ID: 410-15514-D-10-A
Client ID: FB-20200929
Sample Type: Client
Inject. Date: 07-Oct-2020 00:52:32 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-15514-D-10-A
Misc. Info.: 410-0012211-016
Operator ID: kel10217 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Oct-2020 14:36:36 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1017

First Level Reviewer: beckk Date: 07-Oct-2020 14:28:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 24 1,4-Dichlorobenzene-d4	152	6.735	6.730	0.005	93	133067	5.00	
$ 41 Nitrobenzene-d5	82	7.591	7.596	0.000	91	1306984	23.8	
* 55 Naphthalene-d8	136	8.714	8.709	0.005	99	541503	5.00	
56 Naphthalene	128		8.746				ND	
$ 76 2-Fluorobiphenyl (Surr)	172	10.496	10.496	0.001	99	1560293	22.3	
90 Acenaphthylene	152		11.325				ND	
* 92 Acenaphthene-d10	164	11.555	11.555	0.001	95	223236	5.00	
93 Acenaphthene	153		11.603				ND	
105 Fluorene	166		12.319				ND	
* 127 Phenanthrene-d10	188	13.480	13.485	-0.005	97	399147	5.00	
129 Phenanthrene	178		13.512				ND	7
130 Anthracene	178		13.582				ND	7
138 Fluoranthene	202		15.176				ND	
* 140 Pyrene-d10 (IS)	212	15.486	15.491	-0.005	98	366066	5.00	
141 Pyrene	202		15.518				ND	7
$ 142 p-Terphenyl-d14	244	15.807	15.807	0.000	96	1407441	21.3	
149 Benzo[a]anthracene	228		17.545				ND	
151 Chrysene	228		17.609				ND	
155 Benzo[b]fluoranthene	252		19.422				ND	7
157 Benzo[k]fluoranthene	252		19.465				ND	7
158 Benzo[a]pyrene	252		19.952				ND	7
* 159 Perylene-d12	264	20.037	20.043	-0.006	96	359516	5.00	
163 Indeno[1,2,3-cd]pyrene	276		21.669				ND	
164 Dibenz(a,h)anthracene	278		21.706				ND	7
165 Benzo[g,h,i]perylene	276		22.059				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSS_RV8270_IS_00013 Amount Added: 20.00 Units: uL Run Reagent

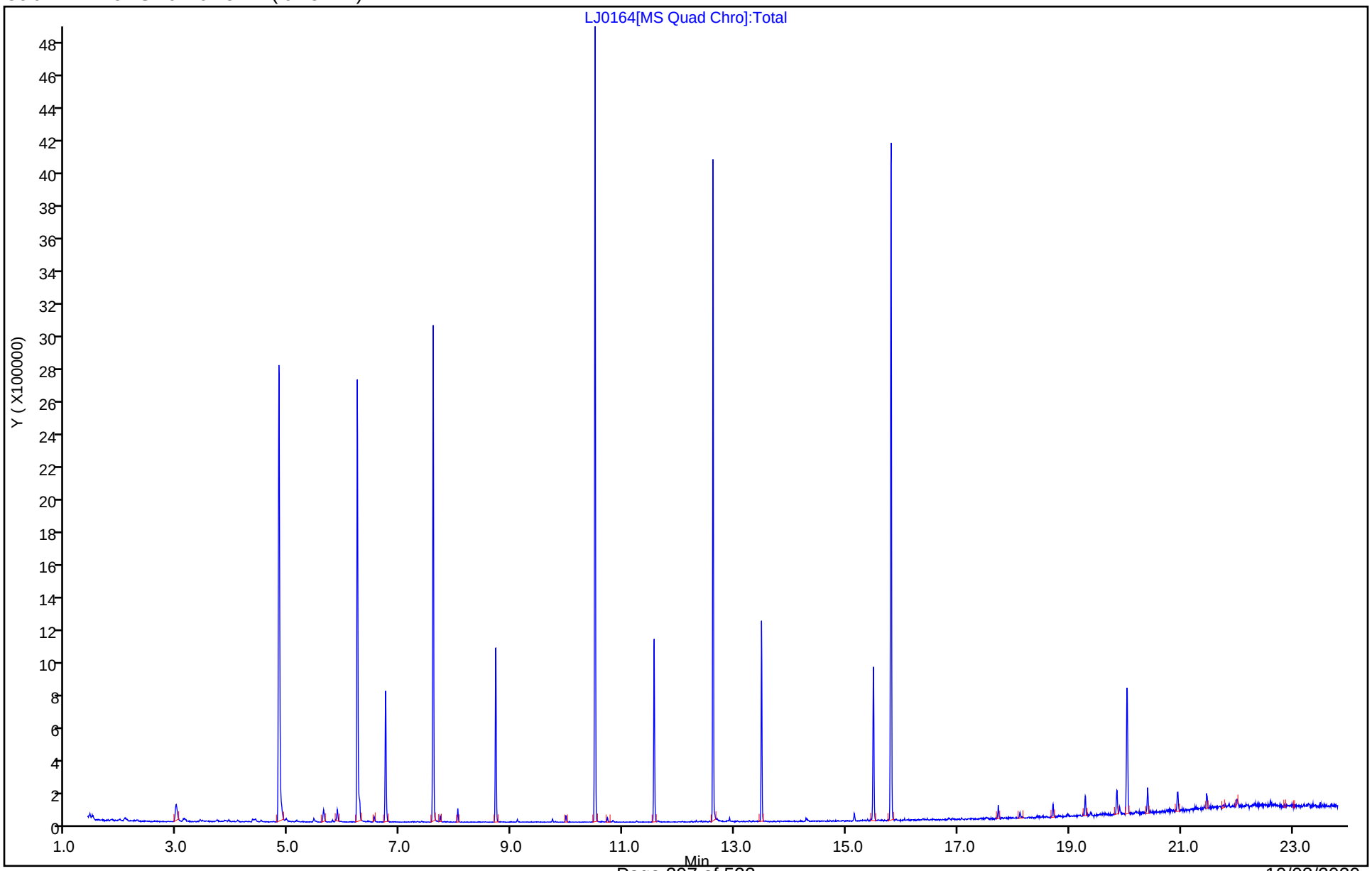
Report Date: 07-Oct-2020 14:40:36 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0164.D

Injection Date:	07-Oct-2020 00:52:32	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	410-15514-D-10-A	Lab Sample ID:	410-15514-10	Worklist Smp#:	16
Client ID:	FB-20200929				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15514-1

SDG No.:

Client Sample ID: MW-12S-20200929 Lab Sample ID: 410-15514-11

Matrix: Ground Water Lab File ID: LJ0165.D

Analysis Method: 8270D Date Collected: 09/29/2020 10:55

Extract. Method: 3510C Date Extracted: 10/05/2020 09:20

Sample wt/vol: 246(mL) Date Analyzed: 10/07/2020 01:21

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.: 51485 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.51	0.10
208-96-8	Acenaphthylene	ND		0.51	0.10
120-12-7	Anthracene	ND		0.51	0.10
56-55-3	Benzo[a]anthracene	ND		0.51	0.10
50-32-8	Benzo[a]pyrene	ND		0.51	0.10
205-99-2	Benzo[b]fluoranthene	ND		0.51	0.10
191-24-2	Benzo[g,h,i]perylene	ND		0.51	0.10
207-08-9	Benzo[k]fluoranthene	ND		0.51	0.10
218-01-9	Chrysene	ND		0.51	0.10
53-70-3	Dibenz(a,h)anthracene	ND		0.51	0.10
206-44-0	Fluoranthene	ND		0.51	0.10
86-73-7	Fluorene	ND		0.51	0.10
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.51	0.10
91-20-3	Naphthalene	ND		0.51	0.10
85-01-8	Phenanthrene	ND		0.51	0.10
129-00-0	Pyrene	ND		0.51	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	83		44-102
4165-60-0	Nitrobenzene-d5 (Surr)	92		38-113
1718-51-0	p-Terphenyl-d14 (Surr)	34		34-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0165.D
Lims ID: 410-15514-D-11-A
Client ID: MW-12S-20200929
Sample Type: Client
Inject. Date: 07-Oct-2020 01:21:42 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-15514-D-11-A
Misc. Info.: 410-0012211-017
Operator ID: kel10217 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Oct-2020 14:36:36 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1017

First Level Reviewer: beckk Date: 07-Oct-2020 14:30:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 24 1,4-Dichlorobenzene-d4	152	6.735	6.730	0.005	93	136486	5.00	
$ 41 Nitrobenzene-d5	82	7.591	7.596	0.000	90	1308107	23.1	
* 55 Naphthalene-d8	136	8.714	8.709	0.005	99	560005	5.00	
56 Naphthalene	128		8.746				ND	7
$ 76 2-Fluorobiphenyl (Surr)	172	10.496	10.496	0.001	98	1519774	20.8	
90 Acenaphthylene	152		11.325				ND	7
* 92 Acenaphthene-d10	164	11.555	11.555	0.001	96	232782	5.00	
93 Acenaphthene	153		11.603				ND	
105 Fluorene	166		12.319				ND	
* 127 Phenanthrene-d10	188	13.480	13.485	-0.005	96	395544	5.00	
129 Phenanthrene	178		13.512				ND	7
130 Anthracene	178		13.582				ND	7
138 Fluoranthene	202		15.176				ND	7
* 140 Pyrene-d10 (IS)	212	15.491	15.491	0.000	98	378840	5.00	
141 Pyrene	202		15.518				ND	U
$ 142 p-Terphenyl-d14	244	15.807	15.807	0.000	96	592903	8.65	
149 Benzo[a]anthracene	228		17.545				ND	7
151 Chrysene	228		17.609				ND	7
155 Benzo[b]fluoranthene	252		19.422				ND	
157 Benzo[k]fluoranthene	252		19.465				ND	
158 Benzo[a]pyrene	252		19.952				ND	7
* 159 Perylene-d12	264	20.043	20.043	0.000	95	376233	5.00	
163 Indeno[1,2,3-cd]pyrene	276		21.669				ND	
164 Dibenz(a,h)anthracene	278		21.706				ND	7
165 Benzo[g,h,i]perylene	276		22.059				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
U - Marked Undetected

Reagents:

MSS_RV8270_IS_00013 Amount Added: 20.00 Units: uL Run Reagent

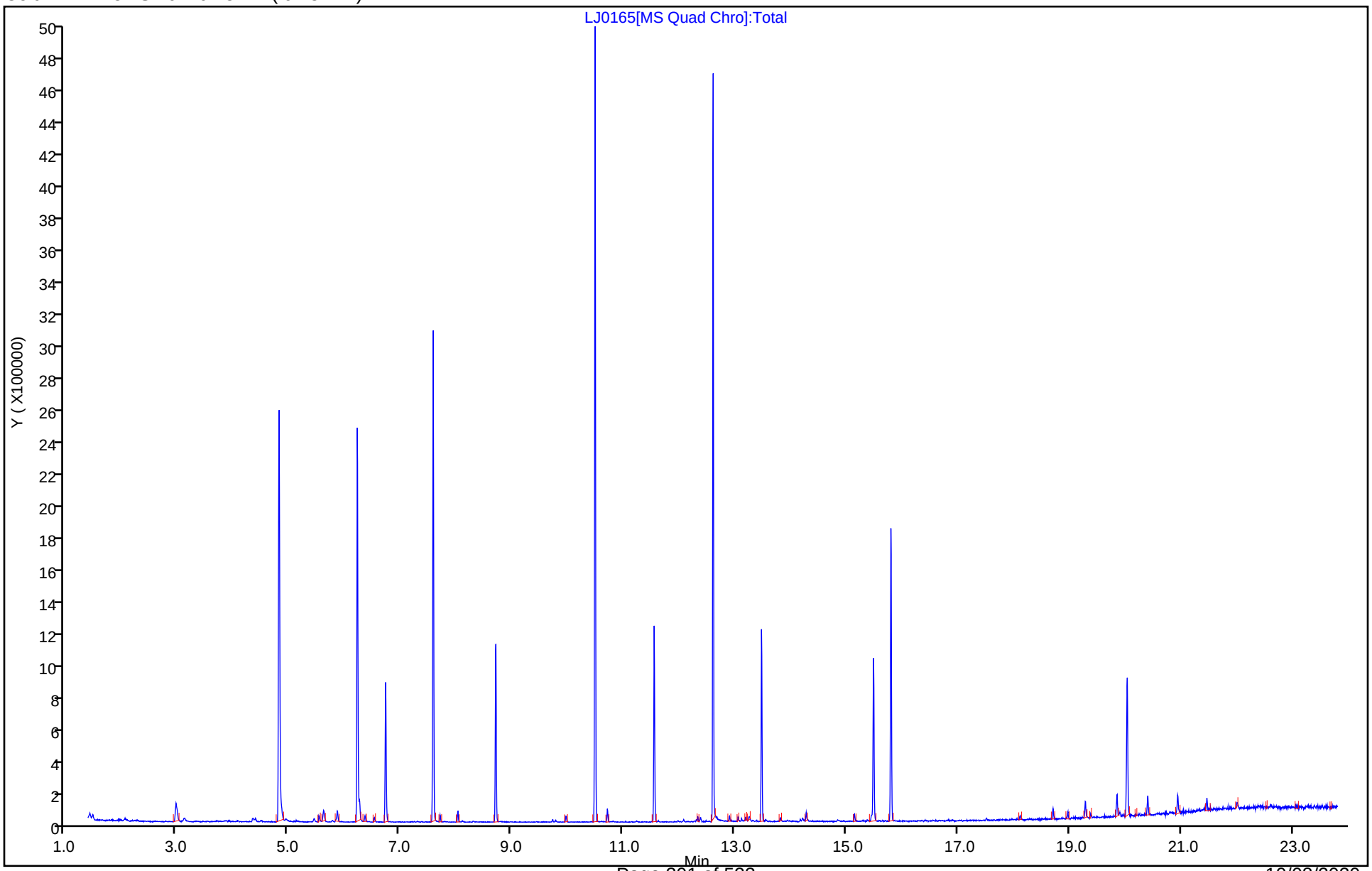
Report Date: 07-Oct-2020 14:40:42 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0165.D

Injection Date:	07-Oct-2020 01:21:42	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	410-15514-D-11-A	Lab Sample ID:	410-15514-11	Worklist Smp#:	17
Client ID:	MW-12S-20200929				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



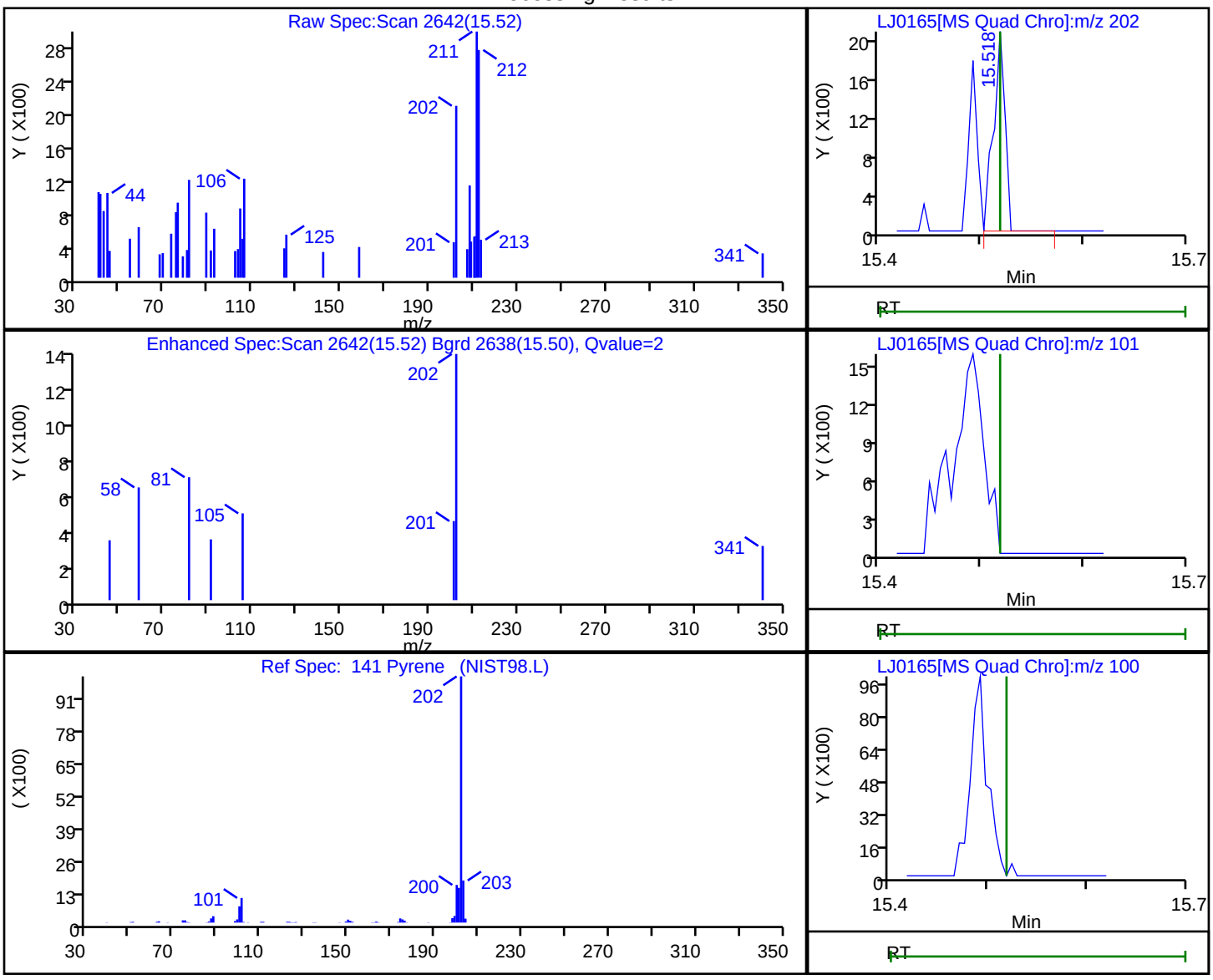
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0165.D				
Injection Date:	07-Oct-2020 01:21:42	Instrument ID:	HP20296		
Lims ID:	410-15514-D-11-A	Lab Sample ID:	410-15514-11		
Client ID:	MW-12S-20200929				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

141 Pyrene, CAS: 129-00-0

Processing Results



RT	Mass	Response	Amount
15.52	202.00	1598	0.015176
15.52	101.00	0	
15.52	100.00	0	
15.52	203.00	0	

Reviewer: beckk, 07-Oct-2020 14:28:51

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15514-1

SDG No.:

Client Sample ID: MW-12D-20200929 Lab Sample ID: 410-15514-12

Matrix: Ground Water Lab File ID: LJ0166.D

Analysis Method: 8270D Date Collected: 09/29/2020 11:33

Extract. Method: 3510C Date Extracted: 10/05/2020 09:20

Sample wt/vol: 244(mL) Date Analyzed: 10/07/2020 01:50

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.: 51485 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.51	0.10
208-96-8	Acenaphthylene	ND		0.51	0.10
120-12-7	Anthracene	ND		0.51	0.10
56-55-3	Benzo[a]anthracene	ND		0.51	0.10
50-32-8	Benzo[a]pyrene	ND		0.51	0.10
205-99-2	Benzo[b]fluoranthene	ND		0.51	0.10
191-24-2	Benzo[g,h,i]perylene	ND		0.51	0.10
207-08-9	Benzo[k]fluoranthene	ND		0.51	0.10
218-01-9	Chrysene	ND		0.51	0.10
53-70-3	Dibenz(a,h)anthracene	ND		0.51	0.10
206-44-0	Fluoranthene	ND		0.51	0.10
86-73-7	Fluorene	ND		0.51	0.10
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.51	0.10
91-20-3	Naphthalene	ND		0.51	0.10
85-01-8	Phenanthrene	ND		0.51	0.10
129-00-0	Pyrene	ND		0.51	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	75		44-102
4165-60-0	Nitrobenzene-d5 (Surr)	81		38-113
1718-51-0	p-Terphenyl-d14 (Surr)	61		34-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0166.D
Lims ID: 410-15514-D-12-A
Client ID: MW-12D-20200929
Sample Type: Client
Inject. Date: 07-Oct-2020 01:50:48 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-15514-D-12-A
Misc. Info.: 410-0012211-018
Operator ID: kel10217 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Oct-2020 14:36:36 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1017

First Level Reviewer: beckk Date: 07-Oct-2020 14:31:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 24 1,4-Dichlorobenzene-d4	152	6.736	6.730	0.006	94	143458	5.00	
$ 41 Nitrobenzene-d5	82	7.591	7.596	0.000	90	1108009	20.3	
* 55 Naphthalene-d8	136	8.715	8.709	0.005	99	540184	5.00	
56 Naphthalene	128		8.746				ND	7
$ 76 2-Fluorobiphenyl (Surr)	172	10.496	10.496	0.001	99	1294348	18.8	
90 Acenaphthylene	152		11.325				ND	
* 92 Acenaphthene-d10	164	11.555	11.555	0.001	96	219388	5.00	
93 Acenaphthene	153		11.603				ND	
105 Fluorene	166		12.319				ND	
* 127 Phenanthrene-d10	188	13.480	13.485	-0.005	96	394329	5.00	
129 Phenanthrene	178		13.512				ND	7
130 Anthracene	178		13.582				ND	7
138 Fluoranthene	202		15.176				ND	
* 140 Pyrene-d10 (IS)	212	15.491	15.491	0.000	98	353610	5.00	
141 Pyrene	202		15.518				ND	7
$ 142 p-Terphenyl-d14	244	15.807	15.807	0.000	96	972558	15.2	
149 Benzo[a]anthracene	228		17.545				ND	
151 Chrysene	228		17.609				ND	
155 Benzo[b]fluoranthene	252		19.422				ND	
157 Benzo[k]fluoranthene	252		19.465				ND	7
158 Benzo[a]pyrene	252		19.952				ND	U
* 159 Perylene-d12	264	20.043	20.043	0.000	96	363590	5.00	
163 Indeno[1,2,3-cd]pyrene	276		21.669				ND	
164 Dibenz(a,h)anthracene	278		21.706				ND	7
165 Benzo[g,h,i]perylene	276		22.059				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
U - Marked Undetected

Reagents:

MSS_RV8270_IS_00013 Amount Added: 20.00 Units: uL Run Reagent

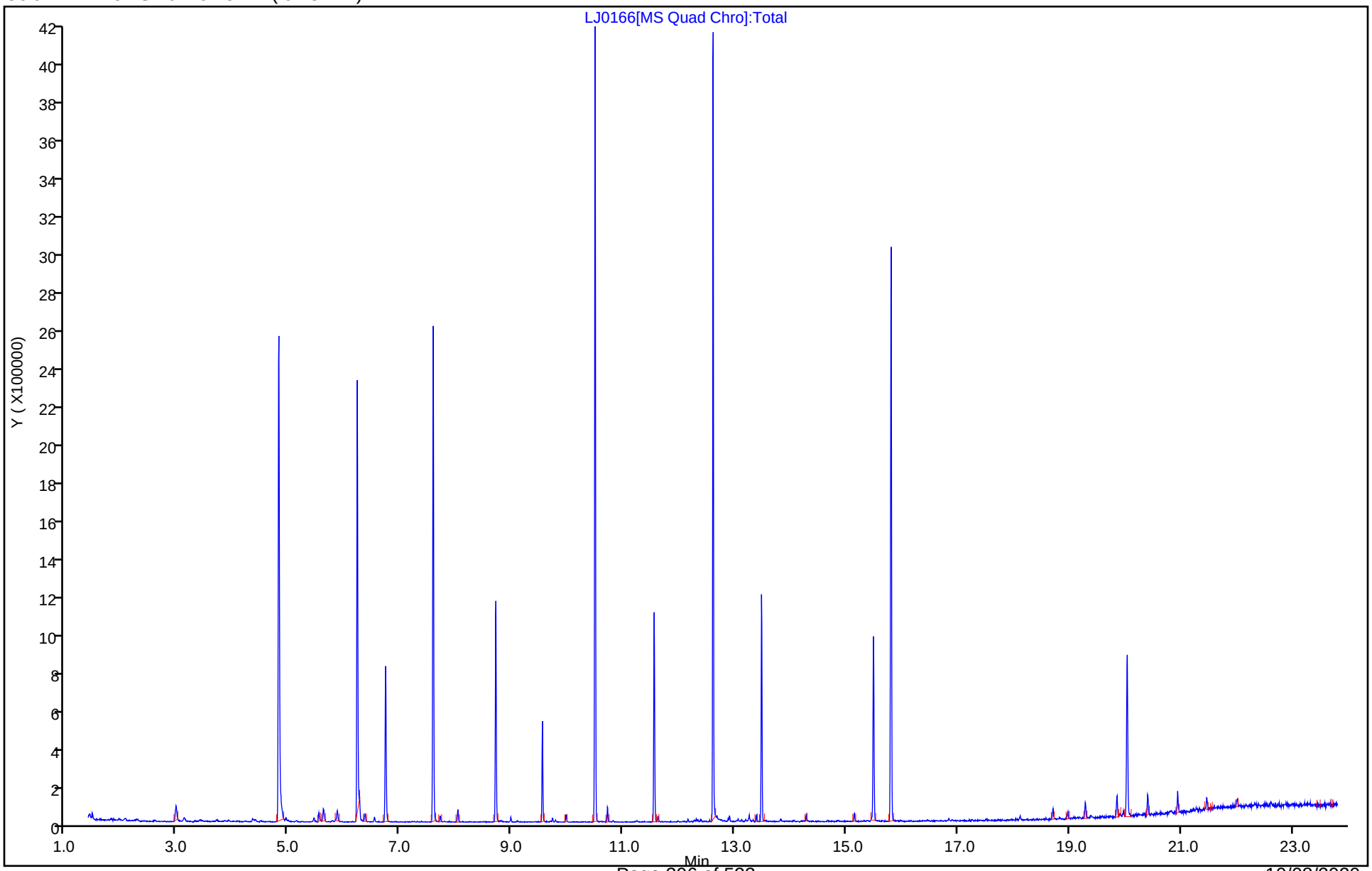
Report Date: 07-Oct-2020 14:40:50 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0166.D

Injection Date:	07-Oct-2020 01:50:48	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	410-15514-D-12-A	Lab Sample ID:	410-15514-12	Worklist Smp#:	18
Client ID:	MW-12D-20200929				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



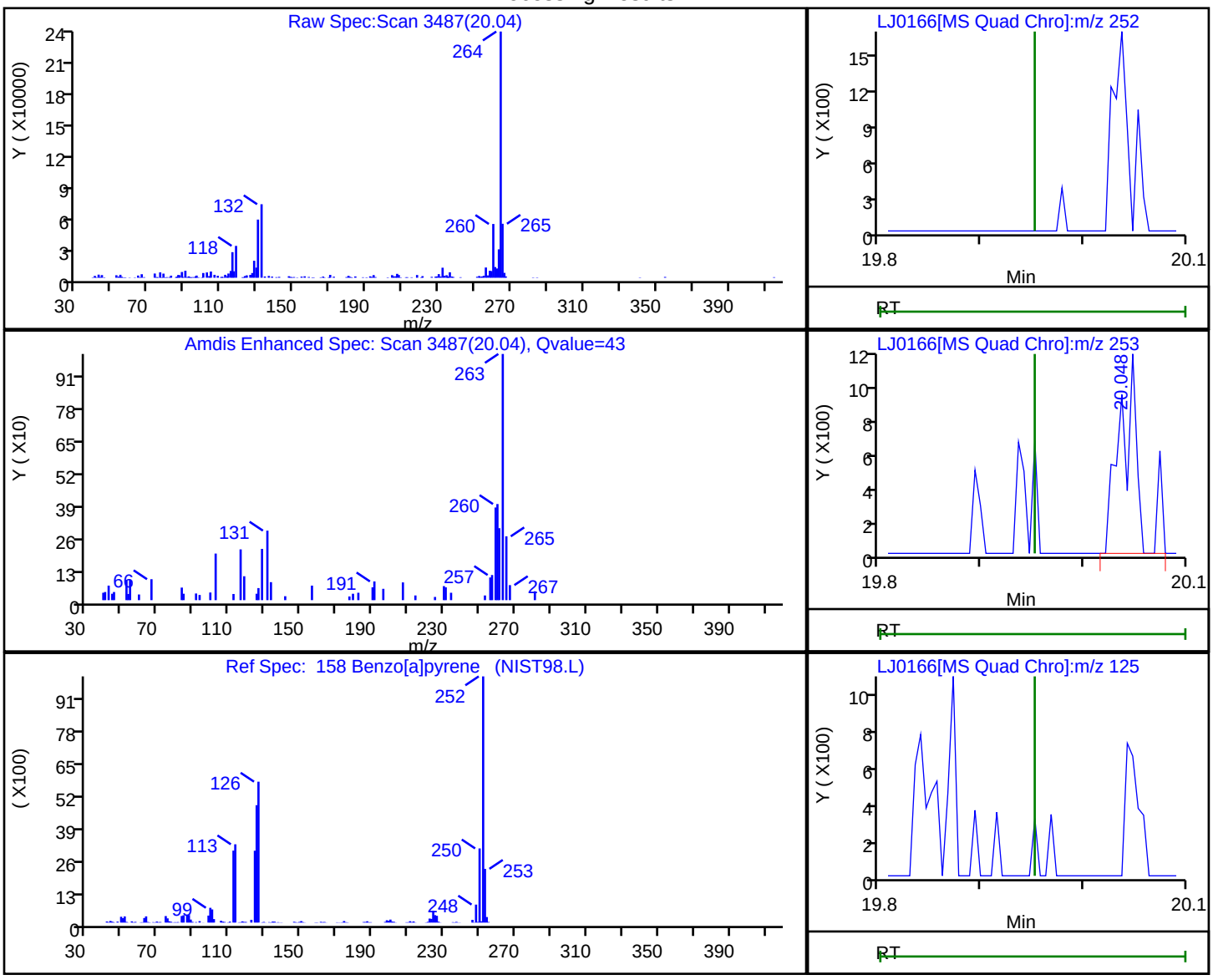
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0166.D				
Injection Date:	07-Oct-2020 01:50:48	Instrument ID:	HP20296		
Lims ID:	410-15514-D-12-A	Lab Sample ID:	410-15514-12		
Client ID:	MW-12D-20200929				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

158 Benzo[a]pyrene, CAS: 50-32-8

Processing Results



RT	Mass	Response	Amount
20.04	252.00	2033	0.023457
20.05	253.00	1385	
20.04	125.00	813	

Reviewer: beckk, 07-Oct-2020 14:31:03

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.: 410-15514-1

SDG No.:

Client Sample ID: MW-4S-20200929 Lab Sample ID: 410-15514-13

Matrix: Ground Water Lab File ID: LJ0167.D

Analysis Method: 8270D Date Collected: 09/29/2020 13:10

Extract. Method: 3510C Date Extracted: 10/05/2020 09:20

Sample wt/vol: 242(mL) Date Analyzed: 10/07/2020 02:20

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.: 51485 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	23		0.52	0.10
208-96-8	Acenaphthylene	ND		0.52	0.10
120-12-7	Anthracene	0.48	J	0.52	0.10
56-55-3	Benzo[a]anthracene	ND		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	ND		0.52	0.10
53-70-3	Dibenz(a,h)anthracene	ND		0.52	0.10
206-44-0	Fluoranthene	2.9		0.52	0.10
86-73-7	Fluorene	7.3		0.52	0.10
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.52	0.10
91-20-3	Naphthalene	ND		0.52	0.10
85-01-8	Phenanthrene	3.3		0.52	0.10
129-00-0	Pyrene	4.4		0.52	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	79		44-102
4165-60-0	Nitrobenzene-d5 (Surr)	95		38-113
1718-51-0	p-Terphenyl-d14 (Surr)	55		34-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0167.D
Lims ID: 410-15514-D-13-A
Client ID: MW-4S-20200929
Sample Type: Client
Inject. Date: 07-Oct-2020 02:20:00 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-15514-D-13-A
Misc. Info.: 410-0012211-019
Operator ID: kel10217 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Oct-2020 14:36:36 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1017

First Level Reviewer: beckk Date: 07-Oct-2020 14:31:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 24 1,4-Dichlorobenzene-d4	152	6.735	6.730	0.005	94	131338	5.00	
$ 41 Nitrobenzene-d5	82	7.591	7.596	0.000	90	1263496	23.7	
* 55 Naphthalene-d8	136	8.714	8.709	0.005	99	526643	5.00	
56 Naphthalene	128		8.746				ND	U
$ 76 2-Fluorobiphenyl (Surr)	172	10.495	10.496	0.000	99	1396483	19.8	
90 Acenaphthylene	152		11.325				ND	U
* 92 Acenaphthene-d10	164	11.554	11.555	0.000	97	224836	5.00	
93 Acenaphthene	153	11.603	11.603	0.000	97	383751	5.64	
105 Fluorene	166	12.314	12.320	-0.005	91	125043	1.76	
* 127 Phenanthrene-d10	188	13.480	13.485	-0.005	96	378729	5.00	
129 Phenanthrene	178	13.512	13.512	0.000	99	73555	0.7987	
130 Anthracene	178	13.582	13.582	0.000	62	10748	0.1151	
138 Fluoranthene	202	15.170	15.176	-0.006	99	67491	0.7123	
* 140 Pyrene-d10 (IS)	212	15.491	15.491	0.000	98	353667	5.00	
141 Pyrene	202	15.518	15.518	0.000	95	105389	1.07	
$ 142 p-Terphenyl-d14	244	15.807	15.807	0.000	97	883729	13.8	
149 Benzo[a]anthracene	228		17.545				ND	7
151 Chrysene	228		17.609				ND	7
155 Benzo[b]fluoranthene	252		19.422				ND	7
157 Benzo[k]fluoranthene	252		19.465				ND	7
158 Benzo[a]pyrene	252		19.952				ND	U
* 159 Perylene-d12	264	20.043	20.043	0.000	95	341532	5.00	
163 Indeno[1,2,3-cd]pyrene	276		21.669				ND	7
164 Dibenz(a,h)anthracene	278		21.706				ND	7
165 Benzo[g,h,i]perylene	276		22.059				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
U - Marked Undetected

Reagents:

MSS_RV8270_IS_00013 Amount Added: 20.00 Units: uL Run Reagent

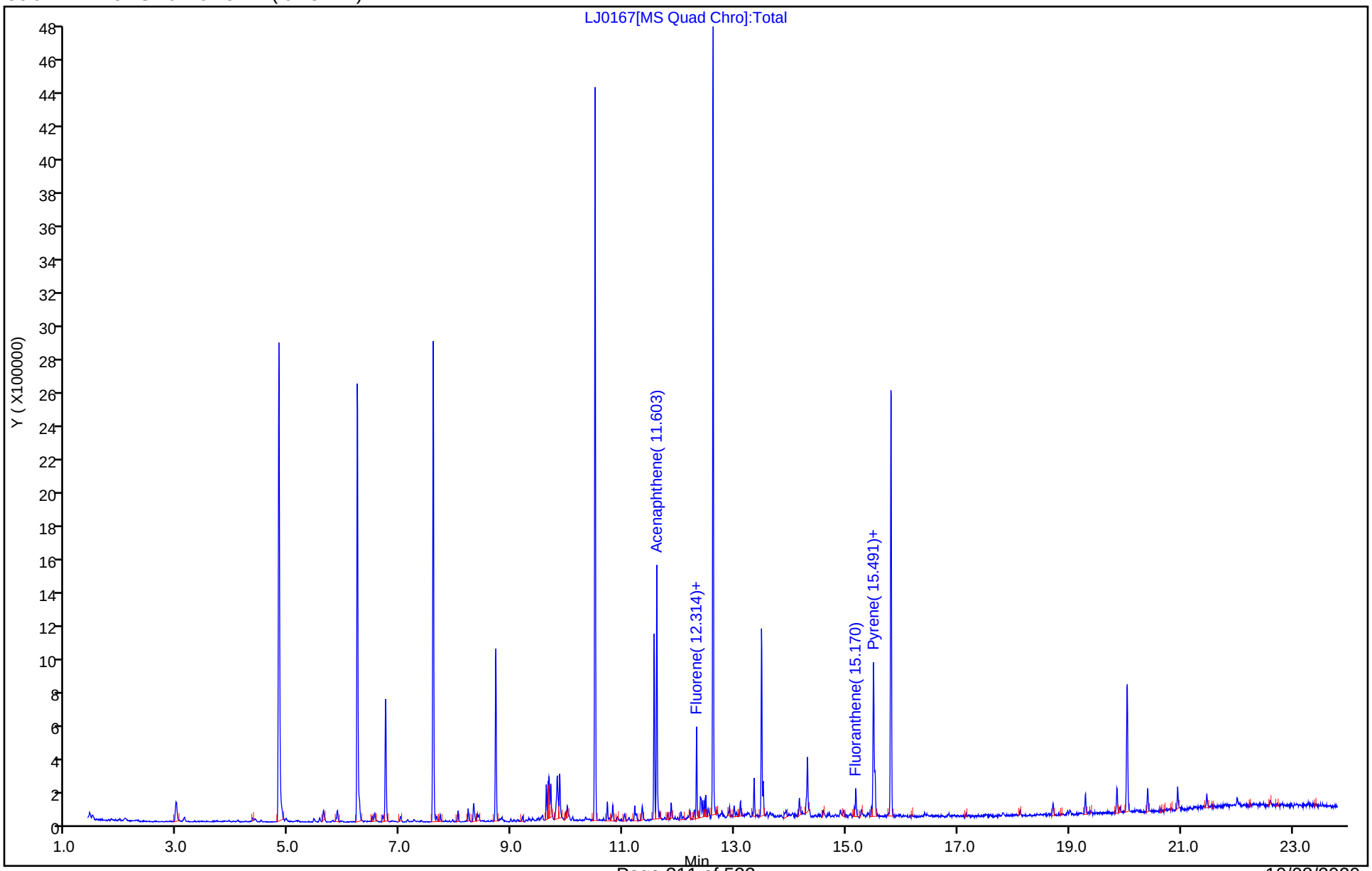
Report Date: 07-Oct-2020 14:40:55 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0167.D

Injection Date:	07-Oct-2020 02:20:00	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	410-15514-D-13-A	Lab Sample ID:	410-15514-13	Worklist Smp#:	19
Client ID:	MW-4S-20200929				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

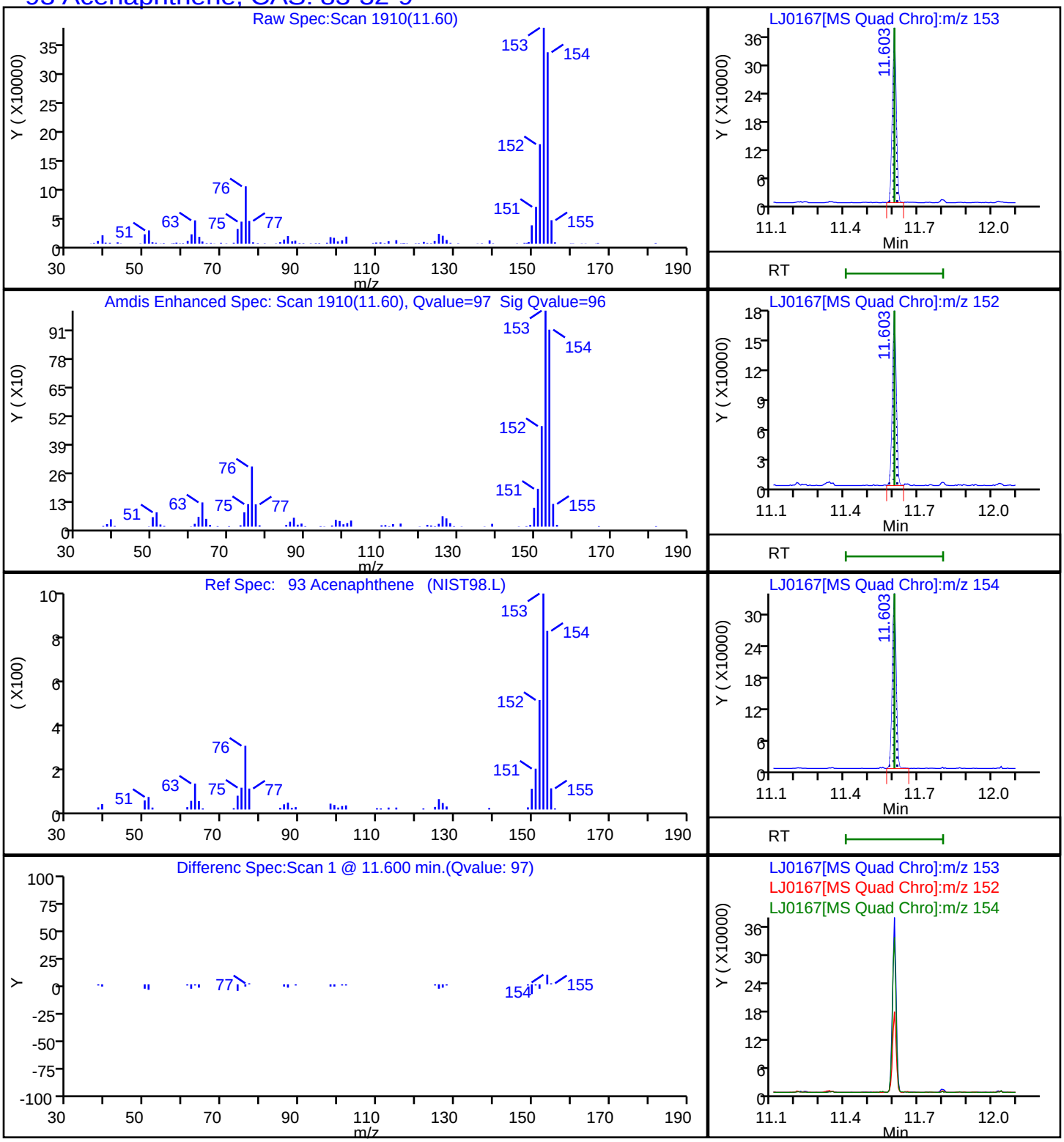
Column: DB-5MS 20m 0.18mm (0.18 mm)



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0167.D				
Injection Date:	07-Oct-2020 02:20:00	Instrument ID:	HP20296		
Lims ID:	410-15514-D-13-A	Lab Sample ID:	410-15514-13		
Client ID:	MW-4S-20200929				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

93 Acenaphthene, CAS: 83-32-9



Report Date: 07-Oct-2020 14:40:56 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0167.D

Injection Date: 07-Oct-2020 02:20:00 Instrument ID: HP20296

Lims ID: 410-15514-D-13-A Lab Sample ID: 410-15514-13

Client ID: MW-4S-20200929

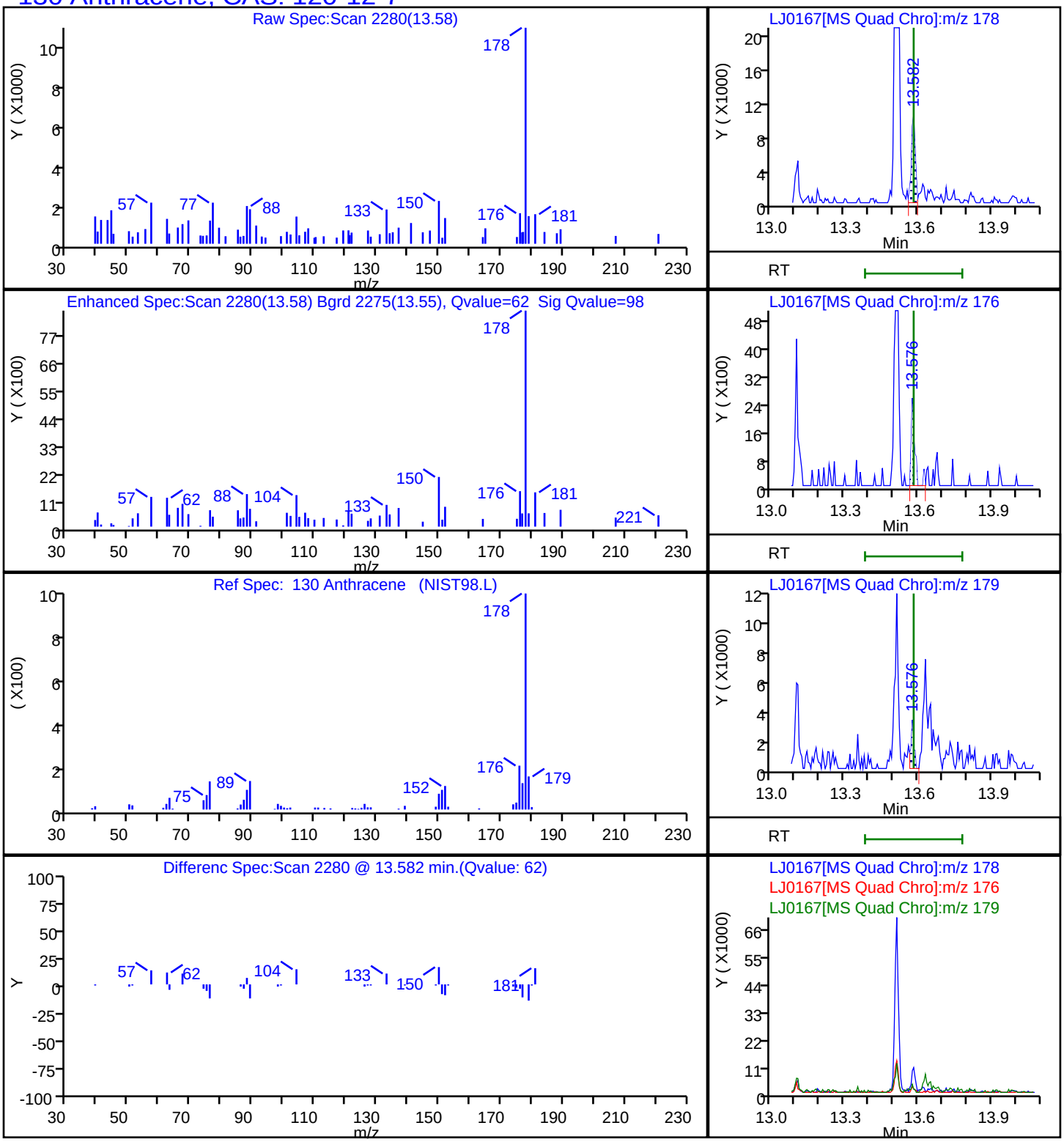
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 19

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

130 Anthracene, CAS: 120-12-7

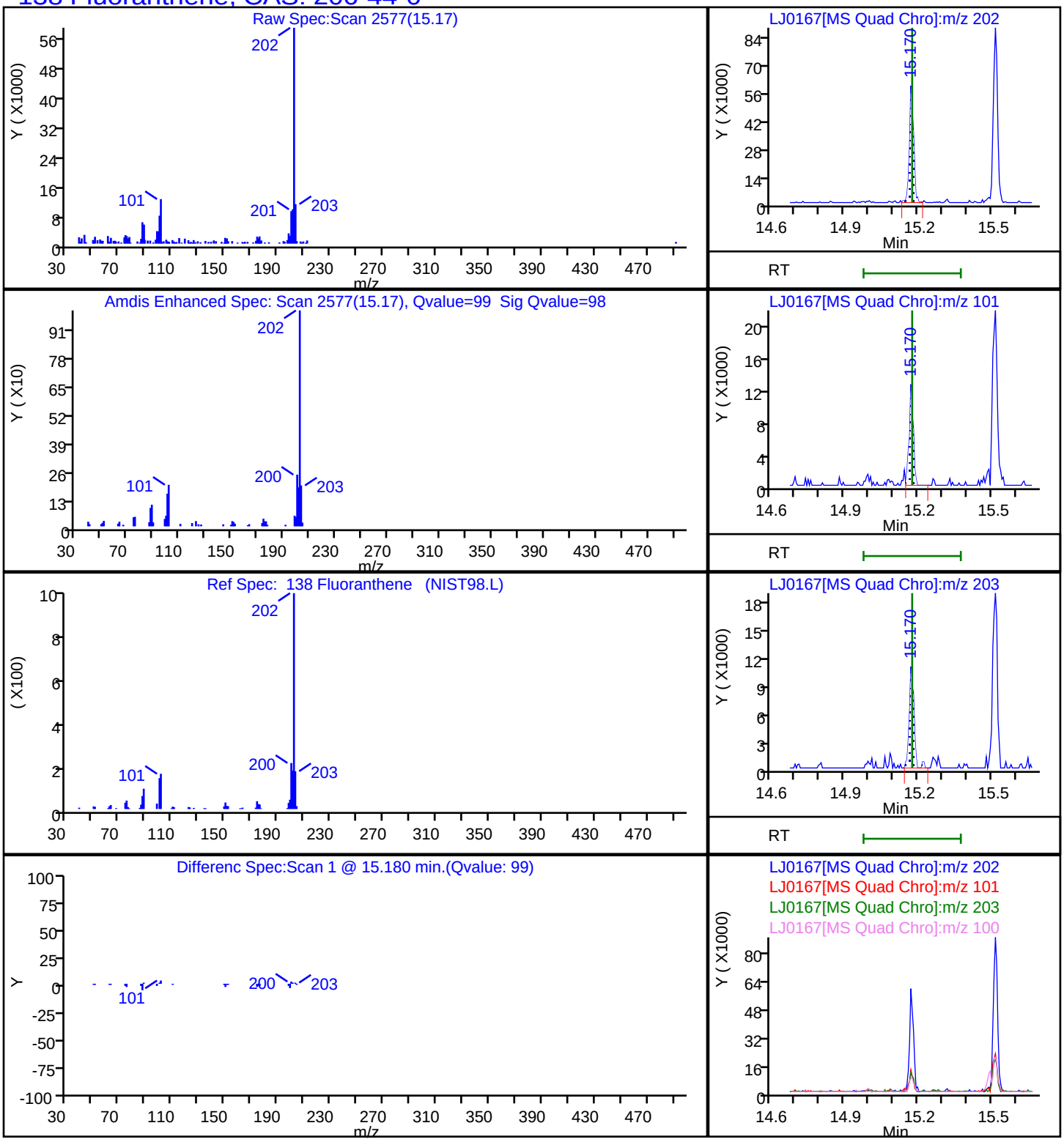


Report Date: 07-Oct-2020 14:40:56 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0167.D				
Injection Date:	07-Oct-2020 02:20:00	Instrument ID:	HP20296		
Lims ID:	410-15514-D-13-A	Lab Sample ID:	410-15514-13		
Client ID:	MW-4S-20200929				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

138 Fluoranthene, CAS: 206-44-0



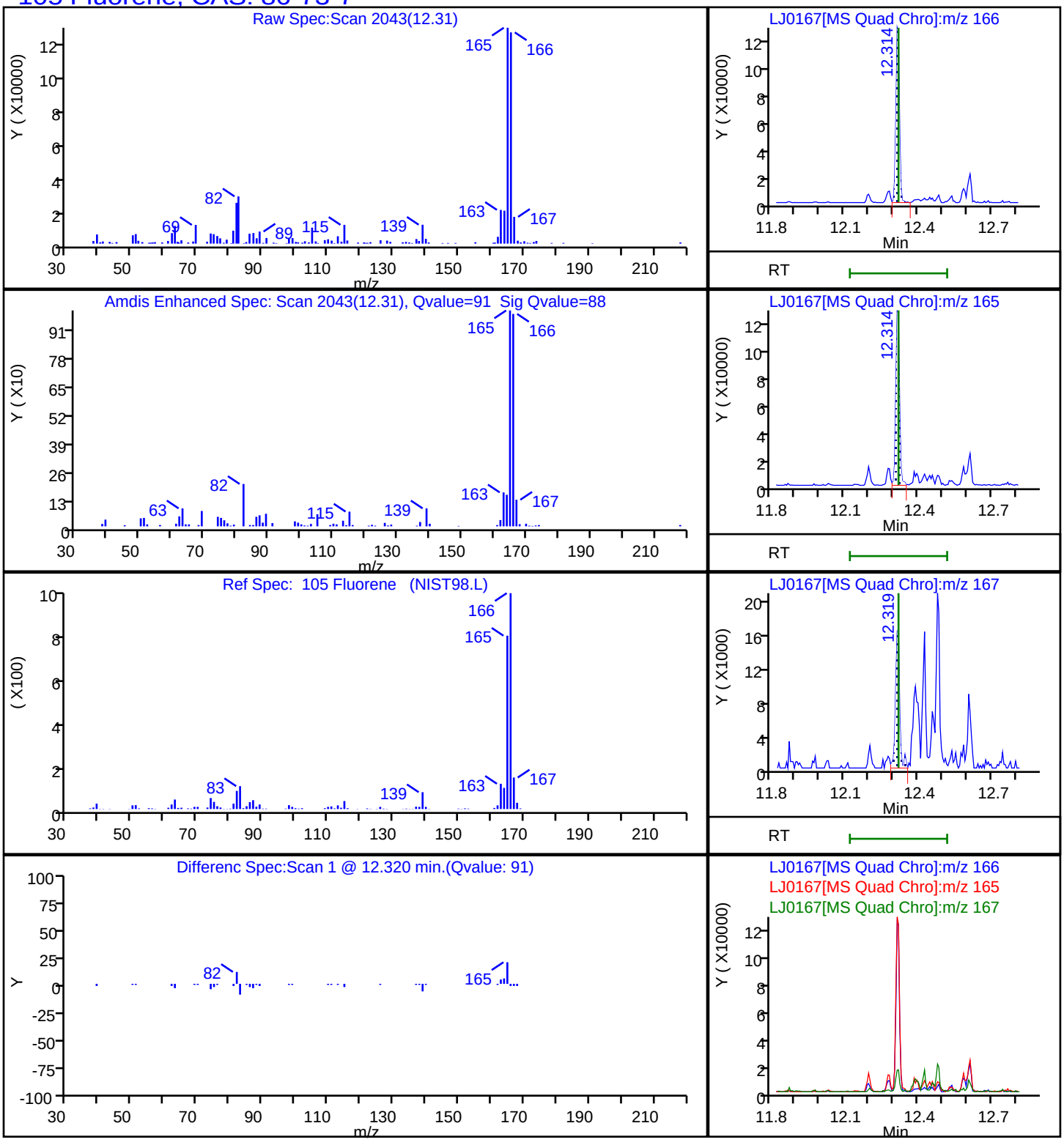
Report Date: 07-Oct-2020 14:40:56 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0167.D

Injection Date:	07-Oct-2020 02:20:00	Instrument ID:	HP20296		
Lims ID:	410-15514-D-13-A	Lab Sample ID:	410-15514-13		
Client ID:	MW-4S-20200929				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

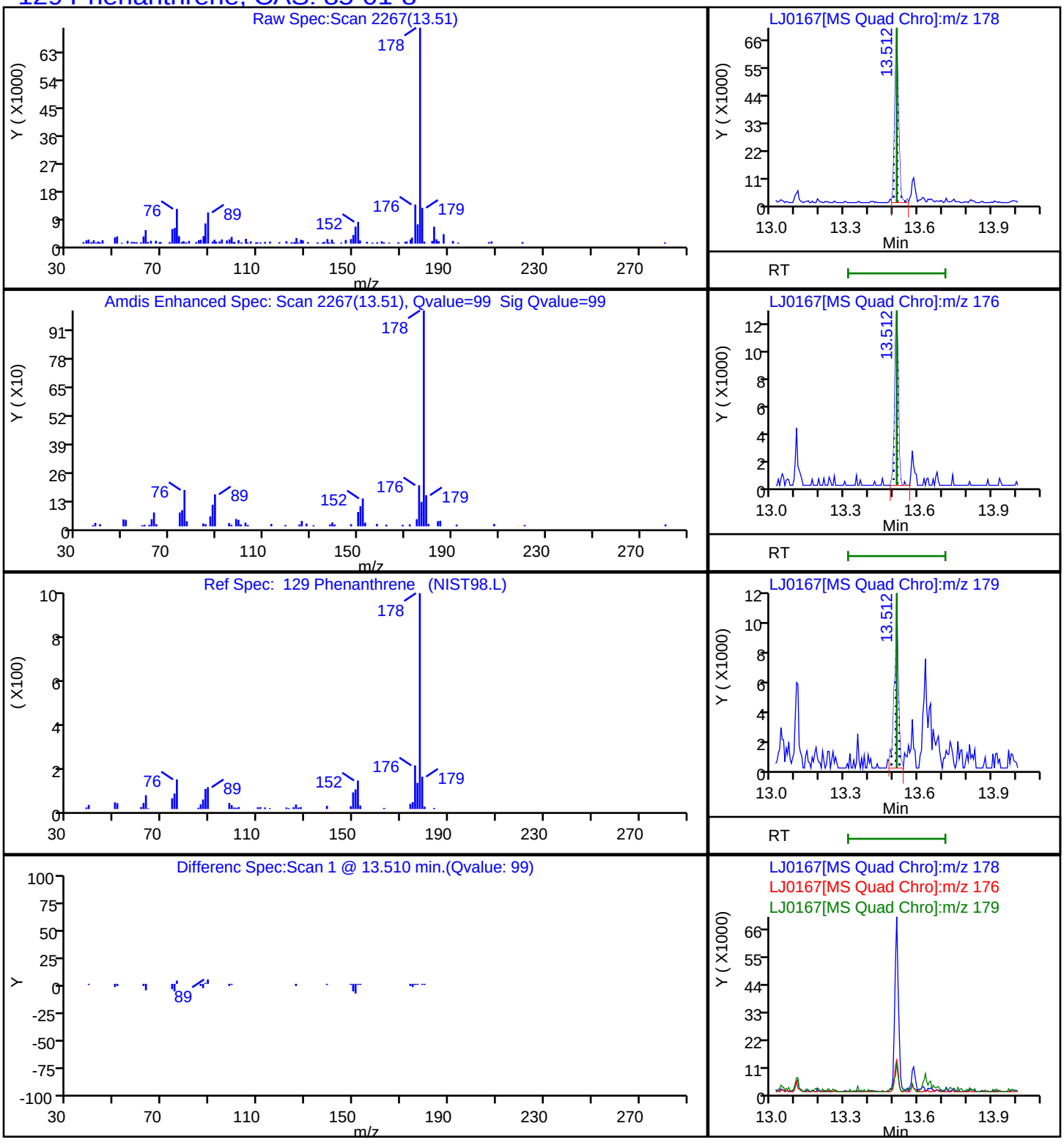
105 Fluorene, CAS: 86-73-7



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0167.D		
Injection Date:	07-Oct-2020 02:20:00	Instrument ID:	HP20296
Lims ID:	410-15514-D-13-A	Lab Sample ID:	410-15514-13
Client ID:	MW-4S-20200929		
Operator ID:	kel10217	ALS Bottle#:	0 Worklist Smp#: 19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN

129 Phenanthrene, CAS: 85-01-8



Report Date: 07-Oct-2020 14:40:56 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0167.D

Injection Date: 07-Oct-2020 02:20:00 Instrument ID: HP20296

Lims ID: 410-15514-D-13-A Lab Sample ID: 410-15514-13

Client ID: MW-4S-20200929

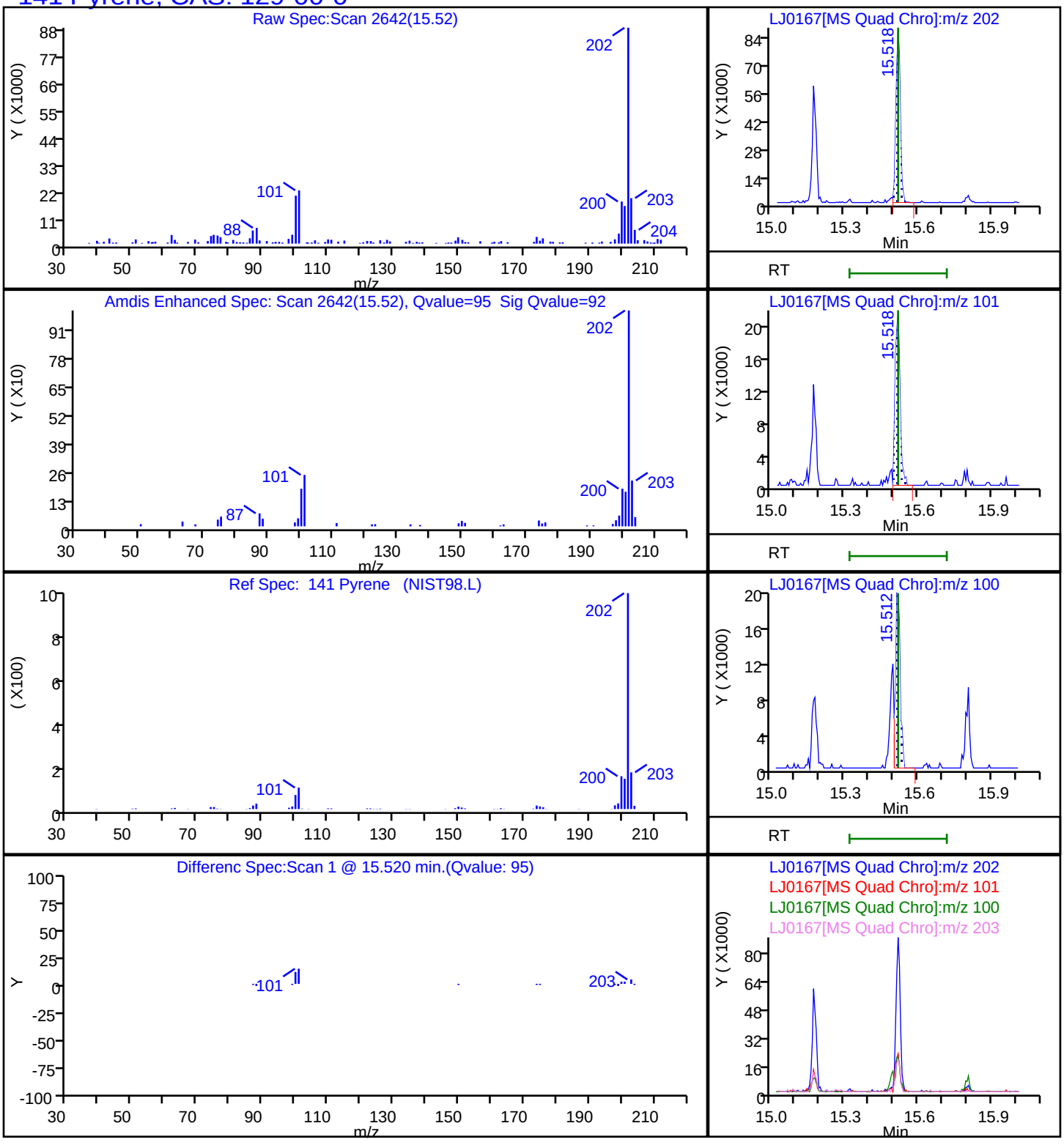
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 19

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

141 Pyrene, CAS: 129-00-0



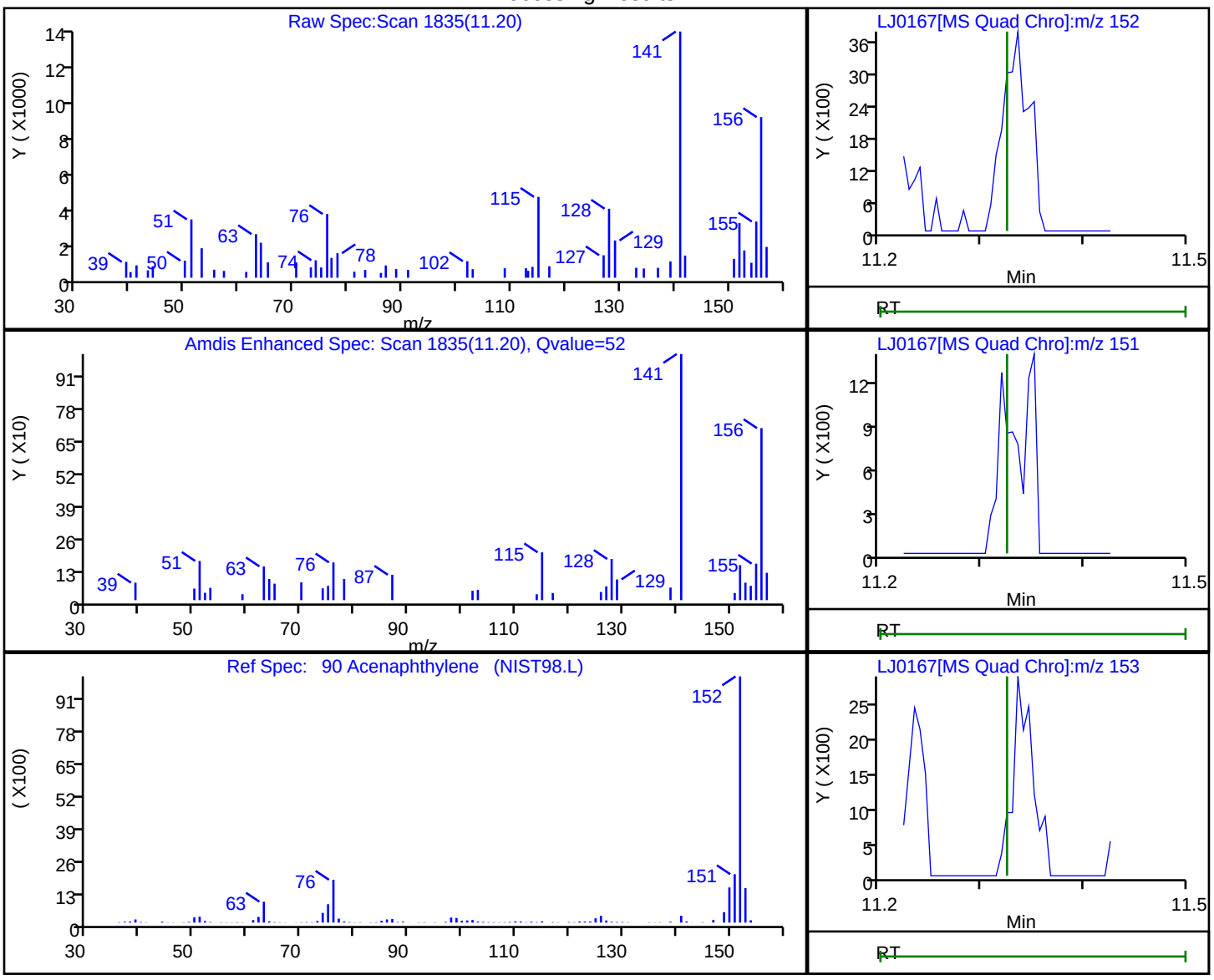
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0167.D				
Injection Date:	07-Oct-2020 02:20:00	Instrument ID:	HP20296		
Lims ID:	410-15514-D-13-A	Lab Sample ID:	410-15514-13		
Client ID:	MW-4S-20200929				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

90 Acenaphthylene, CAS: 208-96-8

Processing Results



RT	Mass	Response	Amount
11.20	152.00	4420	0.047985
11.20	151.00	943	
11.21	153.00	2883	

Reviewer: beckk, 07-Oct-2020 14:31:26

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

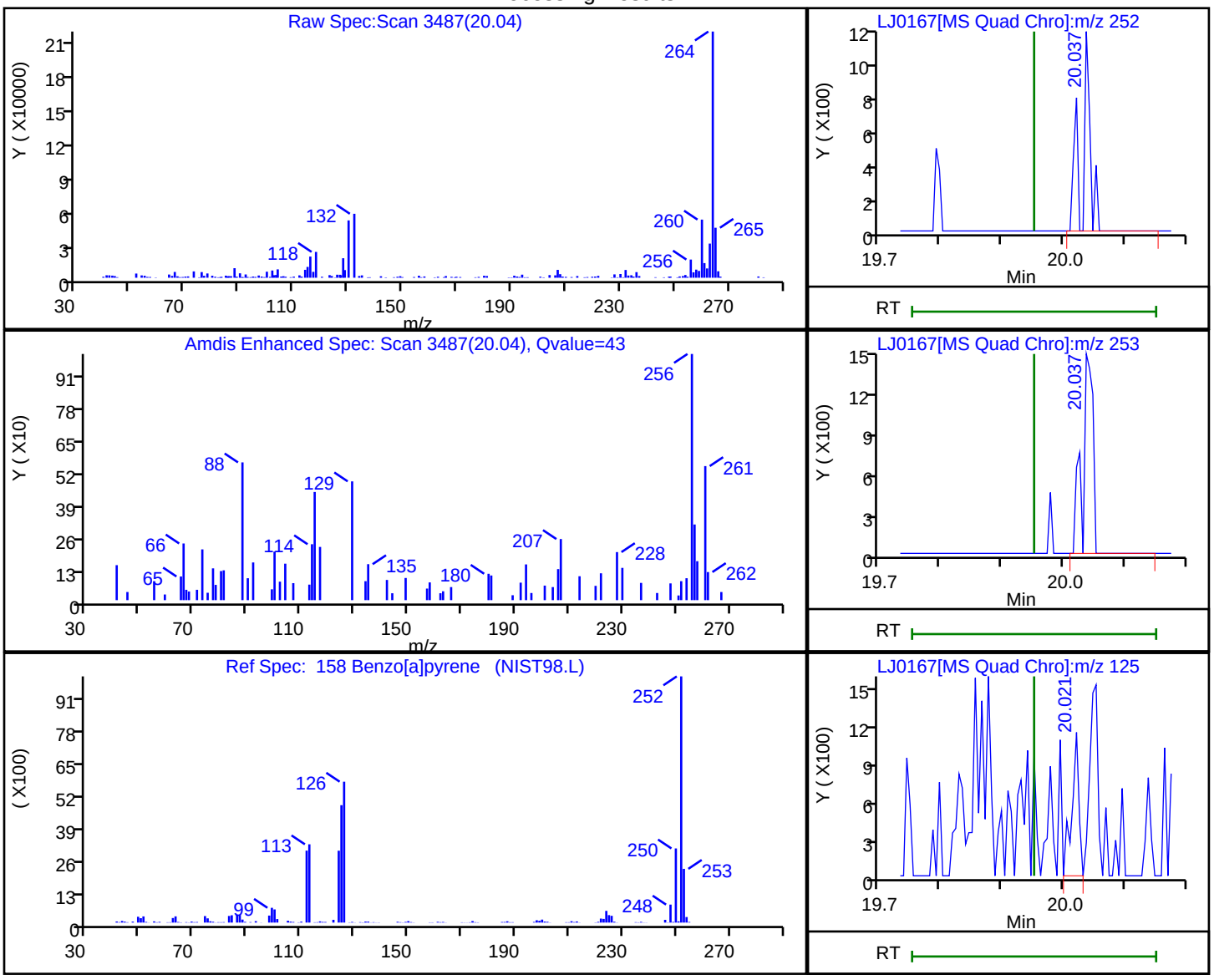
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0167.D				
Injection Date:	07-Oct-2020 02:20:00	Instrument ID:	HP20296		
Lims ID:	410-15514-D-13-A	Lab Sample ID:	410-15514-13		
Client ID:	MW-4S-20200929				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

158 Benzo[a]pyrene, CAS: 50-32-8

Processing Results



RT	Mass	Response	Amount
20.04	252.00	1067	0.013106
20.04	253.00	1736	
20.02	125.00	919	

Reviewer: beckk, 07-Oct-2020 14:31:48

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

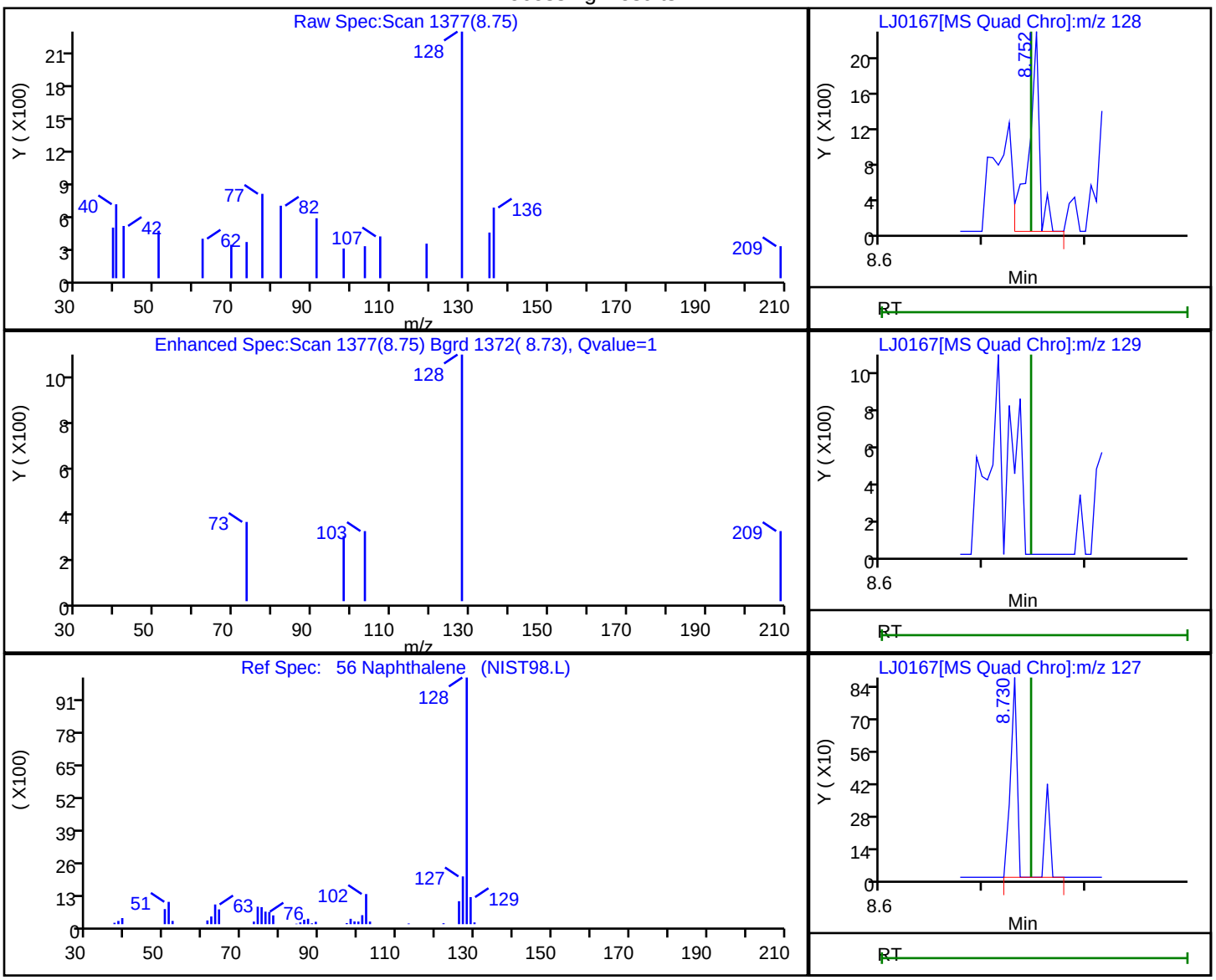
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0167.D				
Injection Date:	07-Oct-2020 02:20:00	Instrument ID:	HP20296		
Lims ID:	410-15514-D-13-A	Lab Sample ID:	410-15514-13		
Client ID:	MW-4S-20200929				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

56 Naphthalene, CAS: 91-20-3

Processing Results



RT	Mass	Response	Amount
8.75	128.00	1592	0.013364
8.75	129.00	0	
8.73	127.00	515	

Reviewer: beckk, 07-Oct-2020 14:31:23

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.: 410-15514-1

SDG No.:

Client Sample ID: MW-4D-20200929 Lab Sample ID: 410-15514-14

Matrix: Ground Water Lab File ID: LJ0168.D

Analysis Method: 8270D Date Collected: 09/29/2020 13:49

Extract. Method: 3510C Date Extracted: 10/05/2020 09:20

Sample wt/vol: 246(mL) Date Analyzed: 10/07/2020 02:49

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.: 51485 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.51	0.10
208-96-8	Acenaphthylene	ND		0.51	0.10
120-12-7	Anthracene	ND		0.51	0.10
56-55-3	Benzo[a]anthracene	ND		0.51	0.10
50-32-8	Benzo[a]pyrene	ND		0.51	0.10
205-99-2	Benzo[b]fluoranthene	ND		0.51	0.10
191-24-2	Benzo[g,h,i]perylene	ND		0.51	0.10
207-08-9	Benzo[k]fluoranthene	ND		0.51	0.10
218-01-9	Chrysene	ND		0.51	0.10
53-70-3	Dibenz(a,h)anthracene	ND		0.51	0.10
206-44-0	Fluoranthene	ND		0.51	0.10
86-73-7	Fluorene	ND		0.51	0.10
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.51	0.10
91-20-3	Naphthalene	ND		0.51	0.10
85-01-8	Phenanthrene	ND		0.51	0.10
129-00-0	Pyrene	ND		0.51	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	71		44-102
4165-60-0	Nitrobenzene-d5 (Surr)	87		38-113
1718-51-0	p-Terphenyl-d14 (Surr)	69		34-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0168.D
Lims ID: 410-15514-D-14-A
Client ID: MW-4D-20200929
Sample Type: Client
Inject. Date: 07-Oct-2020 02:49:04 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-15514-D-14-A
Misc. Info.: 410-0012211-020
Operator ID: kel10217 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Oct-2020 14:36:36 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1017

First Level Reviewer: beckk Date: 07-Oct-2020 14:32:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 24 1,4-Dichlorobenzene-d4	152	6.736	6.730	0.006	95	130317	5.00	
$ 41 Nitrobenzene-d5	82	7.591	7.596	0.000	90	1192307	21.8	
* 55 Naphthalene-d8	136	8.715	8.709	0.006	99	539752	5.00	
56 Naphthalene	128		8.746				ND	7
$ 76 2-Fluorobiphenyl (Surr)	172	10.496	10.496	0.001	99	1326553	17.8	
90 Acenaphthylene	152		11.325				ND	
* 92 Acenaphthene-d10	164	11.555	11.555	0.001	97	237586	5.00	
93 Acenaphthene	153		11.603				ND	7
105 Fluorene	166		12.319				ND	
* 127 Phenanthrene-d10	188	13.480	13.485	-0.005	96	407220	5.00	
129 Phenanthrene	178		13.512				ND	7
130 Anthracene	178		13.582				ND	7
138 Fluoranthene	202		15.176				ND	7
* 140 Pyrene-d10 (IS)	212	15.491	15.491	0.000	98	357090	5.00	
141 Pyrene	202		15.518				ND	7
$ 142 p-Terphenyl-d14	244	15.807	15.807	0.000	96	1126500	17.4	
149 Benzo[a]anthracene	228		17.545				ND	
151 Chrysene	228		17.609				ND	
155 Benzo[b]fluoranthene	252		19.422				ND	7
157 Benzo[k]fluoranthene	252		19.465				ND	7
158 Benzo[a]pyrene	252		19.952				ND	U
* 159 Perylene-d12	264	20.043	20.043	0.000	95	371160	5.00	
163 Indeno[1,2,3-cd]pyrene	276		21.669				ND	
164 Dibenz(a,h)anthracene	278		21.706				ND	7
165 Benzo[g,h,i]perylene	276		22.059				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
U - Marked Undetected

Reagents:

MSS_RV8270_IS_00013 Amount Added: 20.00 Units: uL Run Reagent

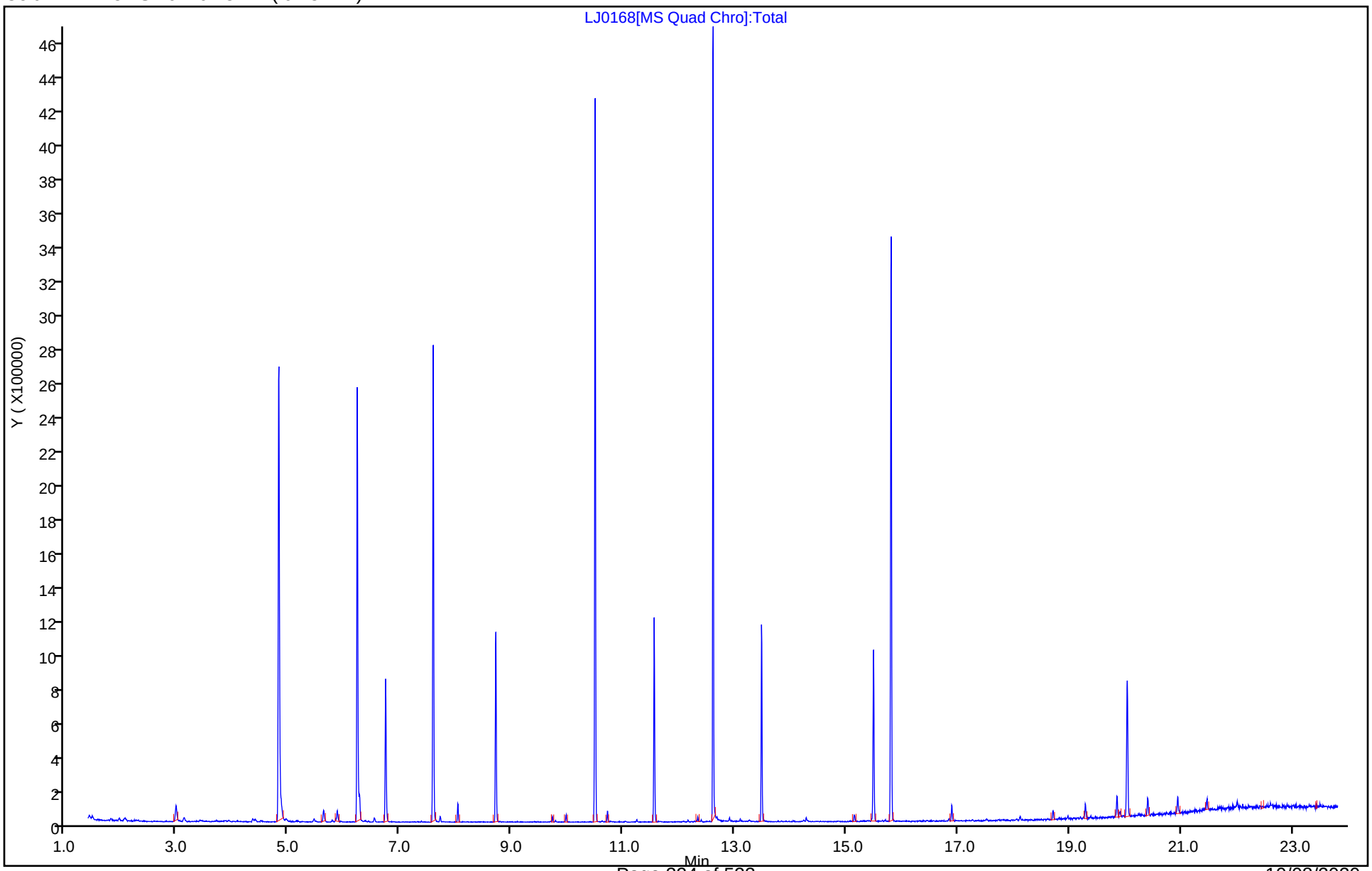
Report Date: 07-Oct-2020 14:41:03 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0168.D

Injection Date:	07-Oct-2020 02:49:04	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	410-15514-D-14-A	Lab Sample ID:	410-15514-14	Worklist Smp#:	20
Client ID:	MW-4D-20200929				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



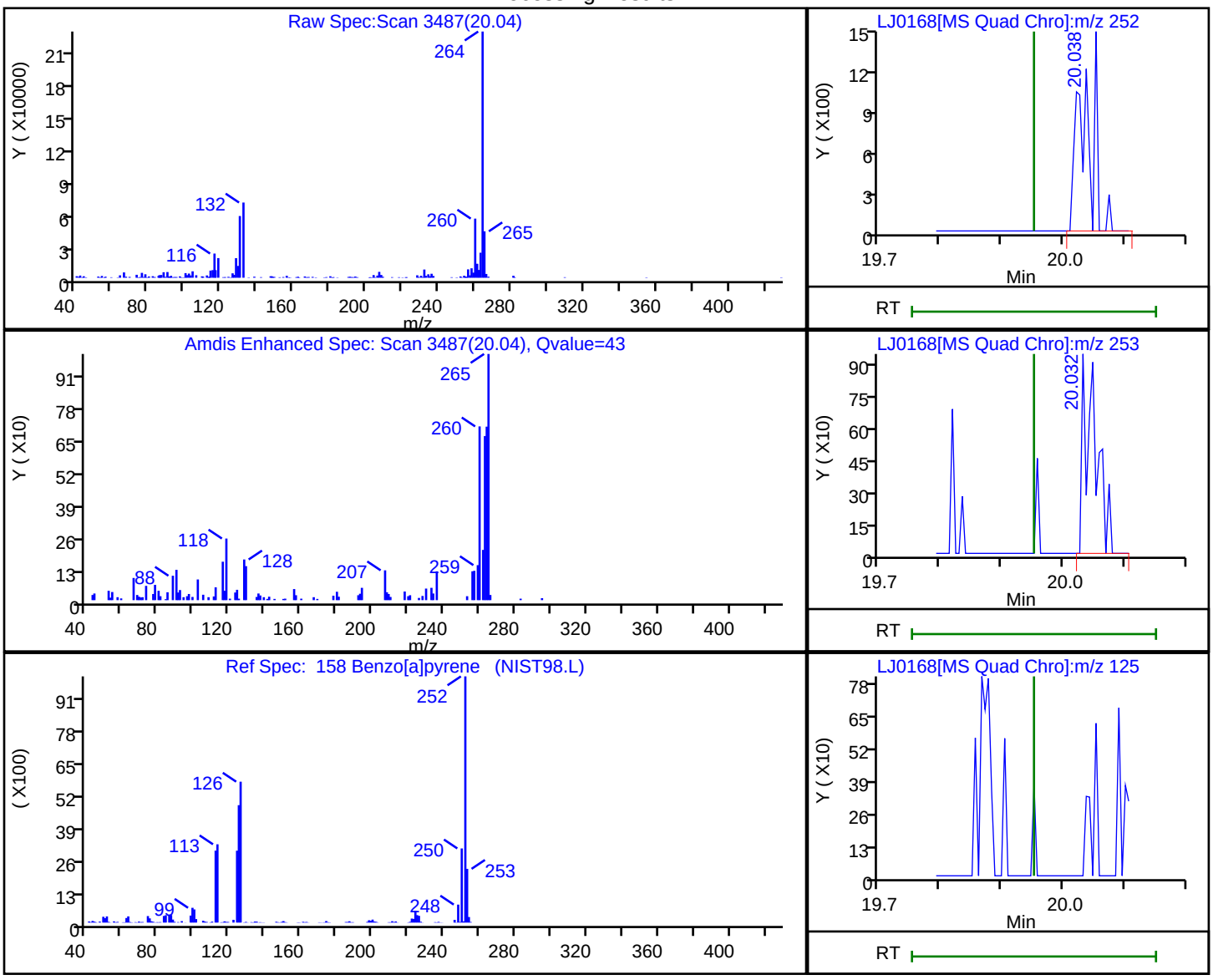
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0168.D				
Injection Date:	07-Oct-2020 02:49:04	Instrument ID:	HP20296		
Lims ID:	410-15514-D-14-A	Lab Sample ID:	410-15514-14		
Client ID:	MW-4D-20200929				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

158 Benzo[a]pyrene, CAS: 50-32-8

Processing Results



RT	Mass	Response	Amount
20.04	252.00	2074	0.023442
20.03	253.00	1396	
20.09	125.00	631	

Reviewer: beckk, 07-Oct-2020 14:32:03

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.: 410-15514-1

SDG No.:

Client Sample ID: MW-11S-20200929 Lab Sample ID: 410-15514-15

Matrix: Ground Water Lab File ID: LJ0169.D

Analysis Method: 8270D Date Collected: 09/29/2020 14:53

Extract. Method: 3510C Date Extracted: 10/05/2020 09:20

Sample wt/vol: 250(mL) Date Analyzed: 10/07/2020 03:18

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 51485 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	64		0.50	0.10
208-96-8	Acenaphthylene	ND		0.50	0.10
120-12-7	Anthracene	4.9		0.50	0.10
56-55-3	Benzo[a]anthracene	0.40	J	0.50	0.10
50-32-8	Benzo[a]pyrene	ND		0.50	0.10
205-99-2	Benzo[b]fluoranthene	ND		0.50	0.10
191-24-2	Benzo[g,h,i]perylene	ND		0.50	0.10
207-08-9	Benzo[k]fluoranthene	ND		0.50	0.10
218-01-9	Chrysene	0.45	J	0.50	0.10
53-70-3	Dibenz(a,h)anthracene	ND		0.50	0.10
206-44-0	Fluoranthene	5.4		0.50	0.10
86-73-7	Fluorene	14		0.50	0.10
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.50	0.10
91-20-3	Naphthalene	4.5		0.50	0.10
85-01-8	Phenanthrene	26		0.50	0.10
129-00-0	Pyrene	7.0		0.50	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	71		44-102
4165-60-0	Nitrobenzene-d5 (Surr)	80		38-113
1718-51-0	p-Terphenyl-d14 (Surr)	66		34-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0169.D
Lims ID: 410-15514-D-15-A
Client ID: MW-11S-20200929
Sample Type: Client
Inject. Date: 07-Oct-2020 03:18:07 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-15514-D-15-A
Misc. Info.: 410-0012211-021
Operator ID: kel10217 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Oct-2020 14:36:36 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1017

First Level Reviewer: beckk Date: 07-Oct-2020 14:32:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 24 1,4-Dichlorobenzene-d4	152	6.735	6.730	0.005	95	134799	5.00	
$ 41 Nitrobenzene-d5	82	7.591	7.596	0.000	90	1133821	20.0	
* 55 Naphthalene-d8	136	8.714	8.709	0.005	99	561088	5.00	
56 Naphthalene	128	8.746	8.747	0.000	98	142348	1.12	
$ 76 2-Fluorobiphenyl (Surr)	172	10.495	10.496	0.000	98	1312816	17.8	
90 Acenaphthylene	152		11.325				ND	U
* 92 Acenaphthene-d10	164	11.555	11.555	0.000	96	234841	5.00	
93 Acenaphthene	153	11.608	11.603	0.005	98	1141840	16.1	
105 Fluorene	166	12.314	12.320	-0.005	91	268488	3.61	
* 127 Phenanthrene-d10	188	13.480	13.485	-0.005	96	414332	5.00	
129 Phenanthrene	178	13.512	13.512	0.000	99	651422	6.47	
130 Anthracene	178	13.582	13.582	0.000	98	124451	1.22	
138 Fluoranthene	202	15.176	15.176	0.000	99	138830	1.34	
* 140 Pyrene-d10 (IS)	212	15.491	15.491	0.000	98	371969	5.00	
141 Pyrene	202	15.518	15.518	0.000	91	179687	1.74	
$ 142 p-Terphenyl-d14	244	15.807	15.807	0.000	97	1118406	16.6	
149 Benzo[a]anthracene	228	17.545	17.545	0.000	90	8582	0.0997	
151 Chrysene	228	17.609	17.609	0.000	55	9686	0.1123	
155 Benzo[b]fluoranthene	252		19.422				ND	U
157 Benzo[k]fluoranthene	252		19.465				ND	7
158 Benzo[a]pyrene	252		19.952				ND	7
* 159 Perylene-d12	264	20.043	20.043	0.000	96	367932	5.00	
163 Indeno[1,2,3-cd]pyrene	276		21.669				ND	7
164 Dibenz(a,h)anthracene	278		21.706				ND	7
165 Benzo[g,h,i]perylene	276		22.059				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
U - Marked Undetected

Reagents:

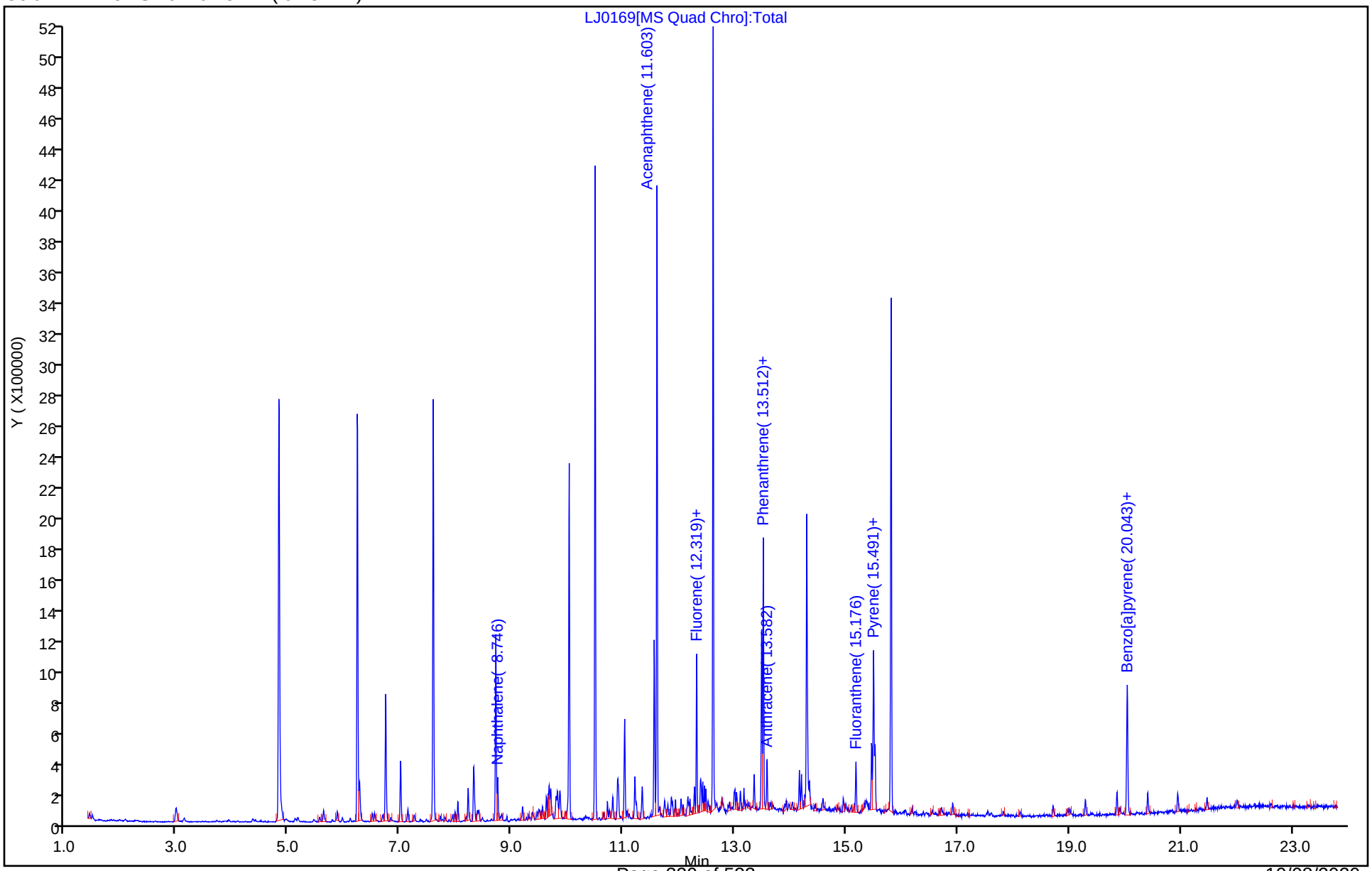
MSS_RV8270_IS_00013 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 07-Oct-2020 14:41:09 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0169.D				
Injection Date:	07-Oct-2020 03:18:07	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	410-15514-D-15-A	Lab Sample ID:	410-15514-15	Worklist Smp#:	21
Client ID:	MW-11S-20200929				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

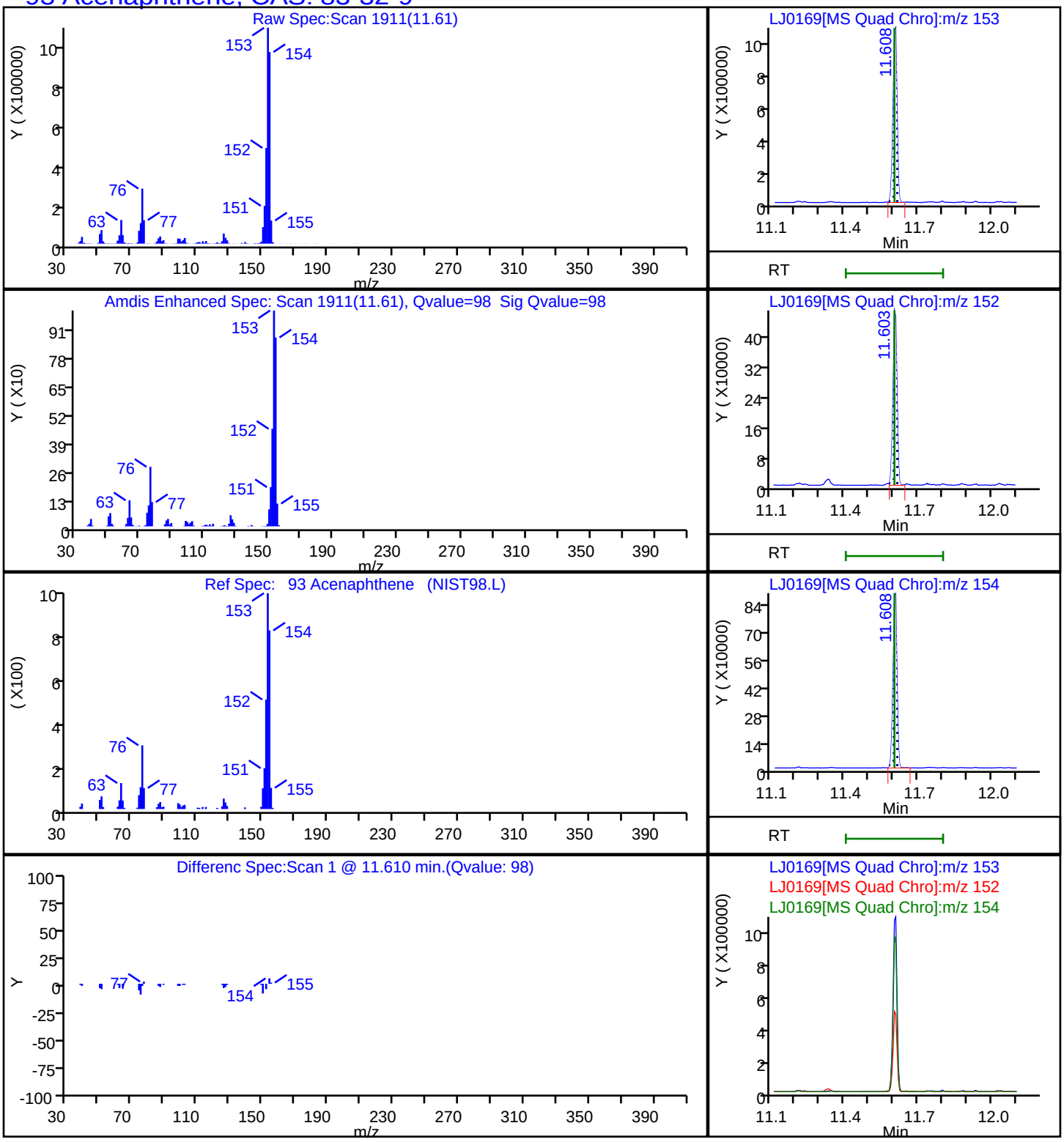
Column: DB-5MS 20m 0.18mm (0.18 mm)



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0169.D		
Injection Date:	07-Oct-2020 03:18:07	Instrument ID:	HP20296
Lims ID:	410-15514-D-15-A	Lab Sample ID:	410-15514-15
Client ID:	MW-11S-20200929		
Operator ID:	kel10217	ALS Bottle#:	0 Worklist Smp#: 21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN

93 Acenaphthene, CAS: 83-32-9

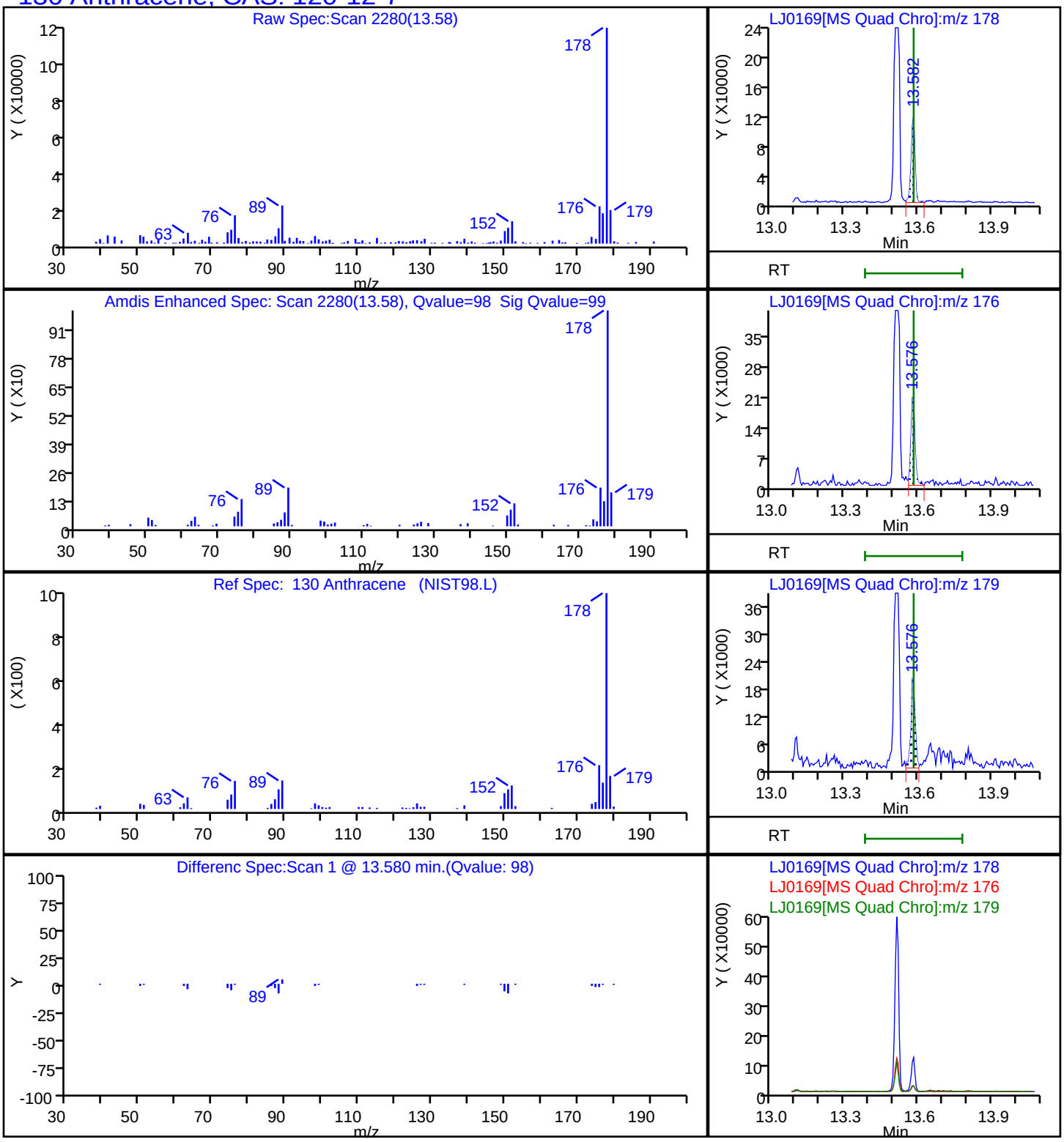


Report Date: 07-Oct-2020 14:41:10 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0169.D				
Injection Date:	07-Oct-2020 03:18:07	Instrument ID:	HP20296		
Lims ID:	410-15514-D-15-A	Lab Sample ID:	410-15514-15		
Client ID:	MW-11S-20200929				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

130 Anthracene, CAS: 120-12-7

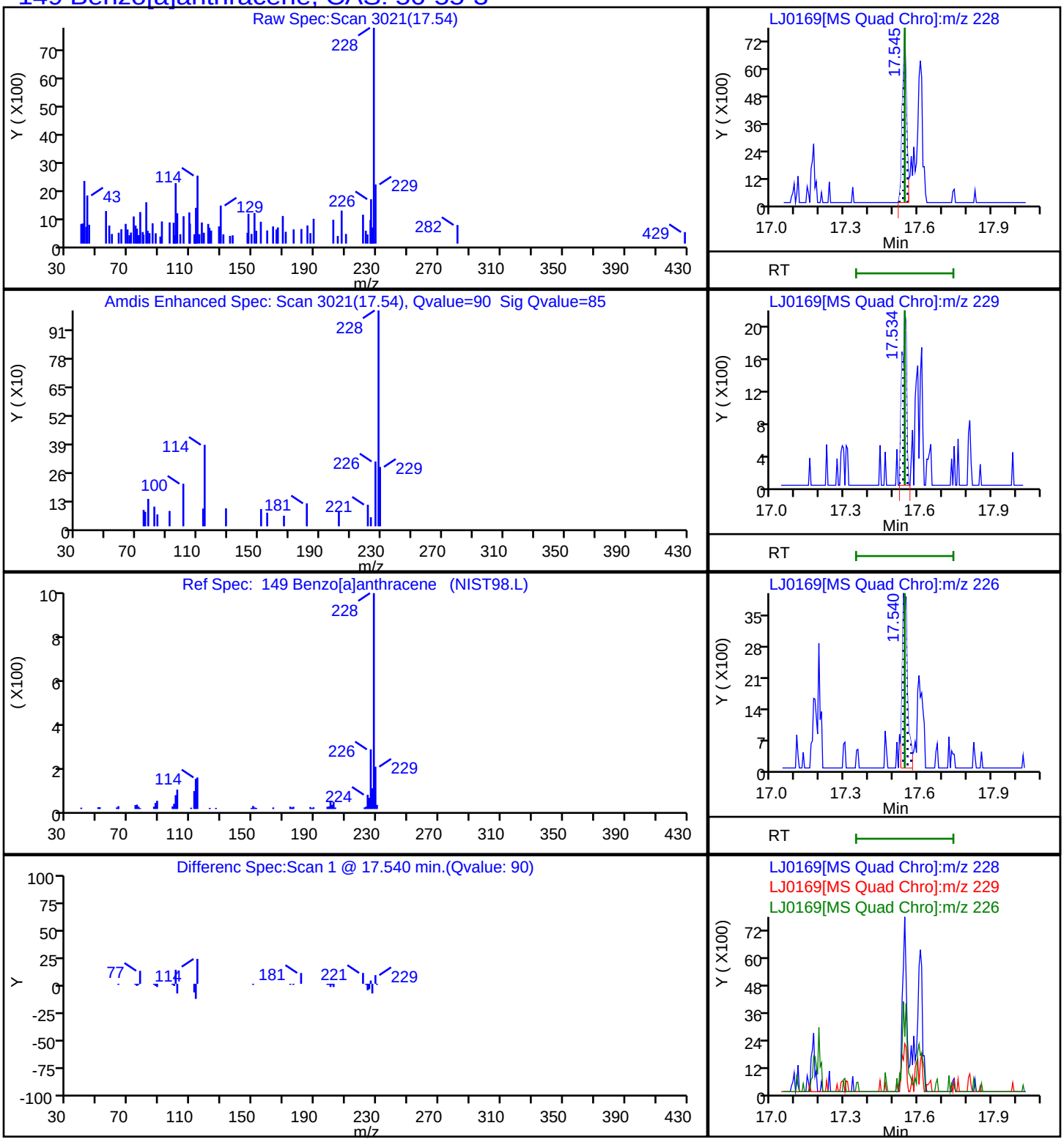


Report Date: 07-Oct-2020 14:41:10 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0169.D				
Injection Date:	07-Oct-2020 03:18:07	Instrument ID:	HP20296		
Lims ID:	410-15514-D-15-A	Lab Sample ID:	410-15514-15		
Client ID:	MW-11S-20200929				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

149 Benzo[a]anthracene, CAS: 56-55-3

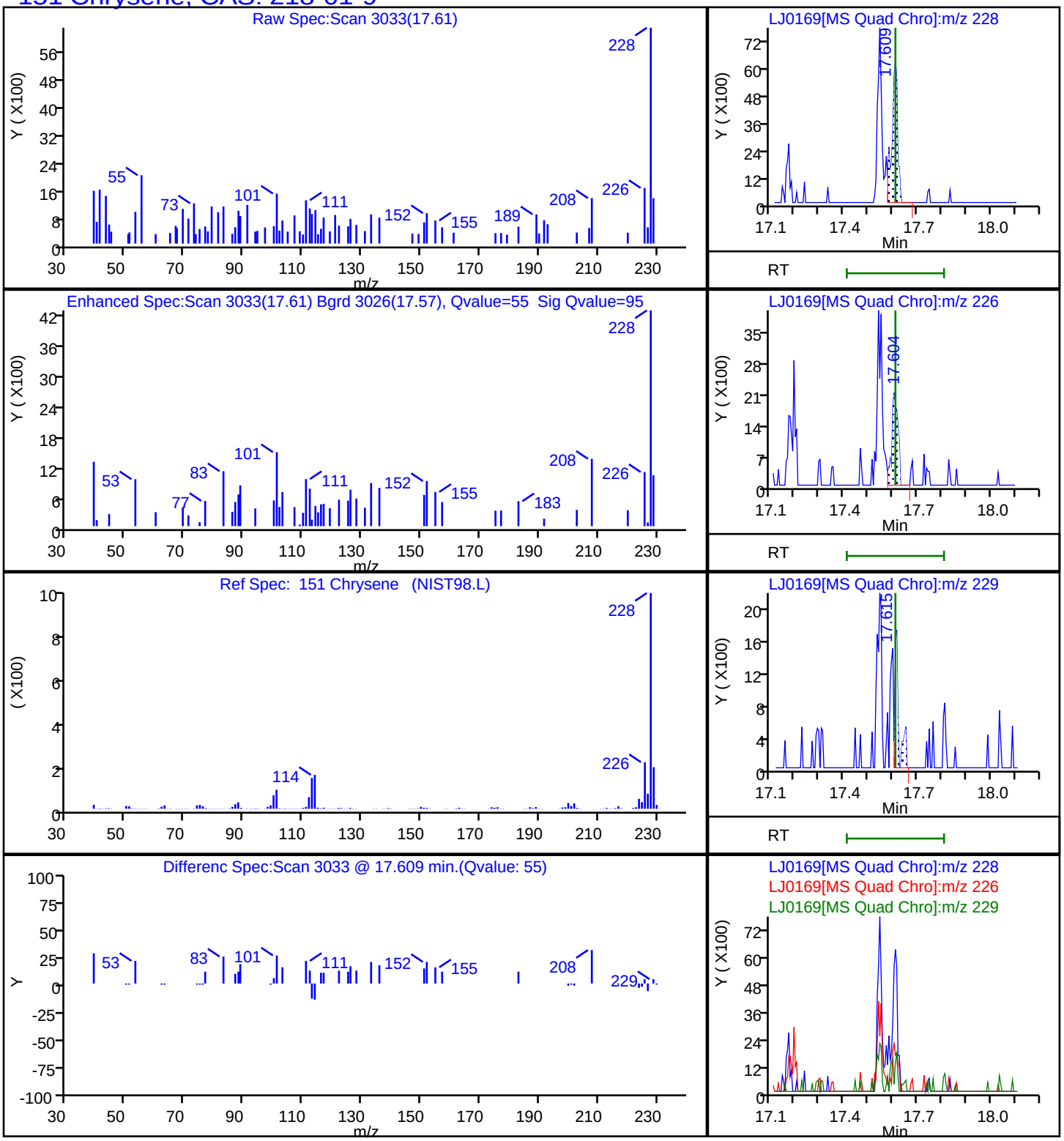


Report Date: 07-Oct-2020 14:41:10 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0169.D				
Injection Date:	07-Oct-2020 03:18:07	Instrument ID:	HP20296		
Lims ID:	410-15514-D-15-A	Lab Sample ID:	410-15514-15		
Client ID:	MW-11S-20200929				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

151 Chrysene, CAS: 218-01-9



Report Date: 07-Oct-2020 14:41:10 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0169.D

Injection Date: 07-Oct-2020 03:18:07 Instrument ID: HP20296

Lims ID: 410-15514-D-15-A Lab Sample ID: 410-15514-15

Client ID: MW-11S-20200929

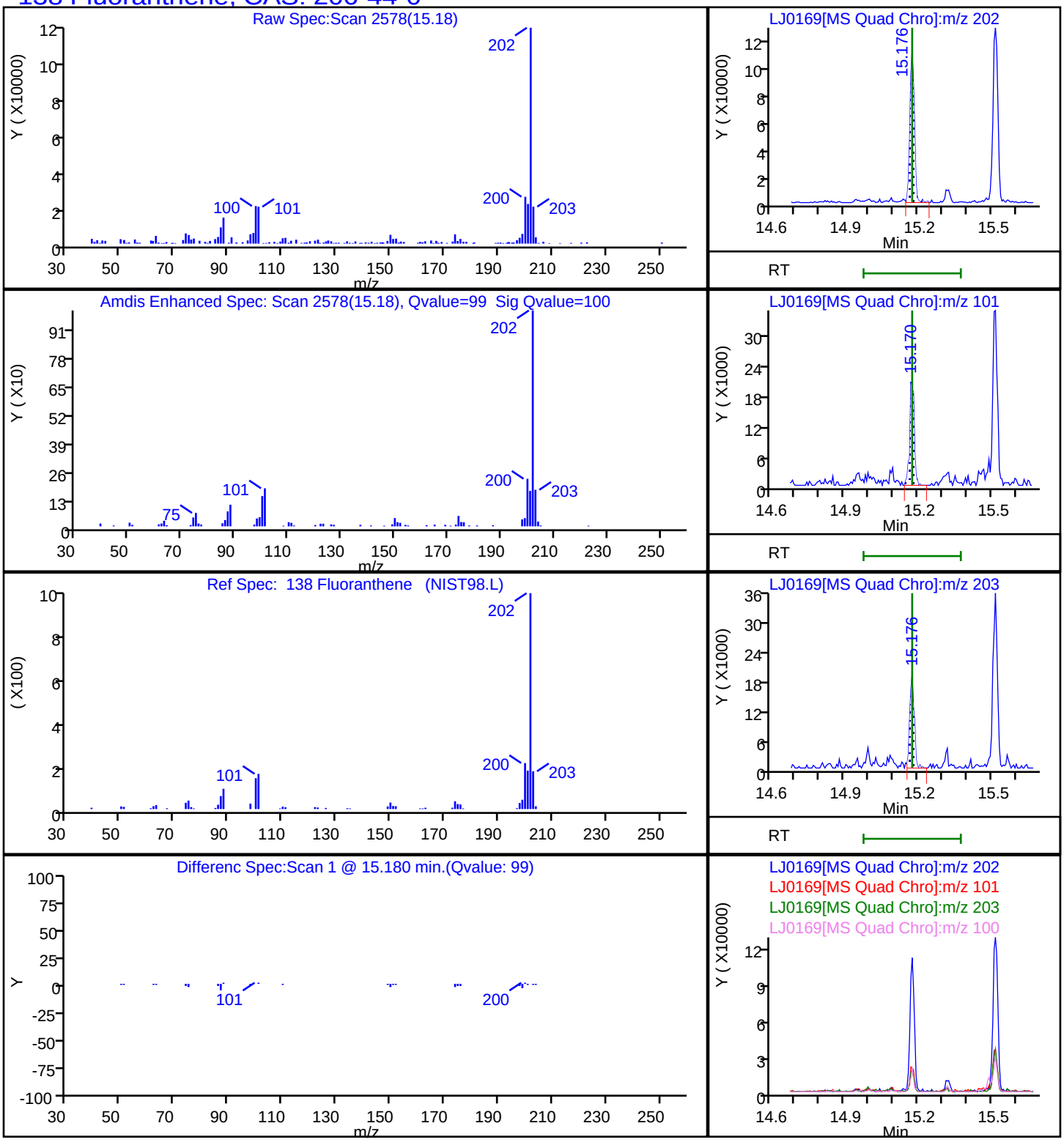
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 21

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

138 Fluoranthene, CAS: 206-44-0

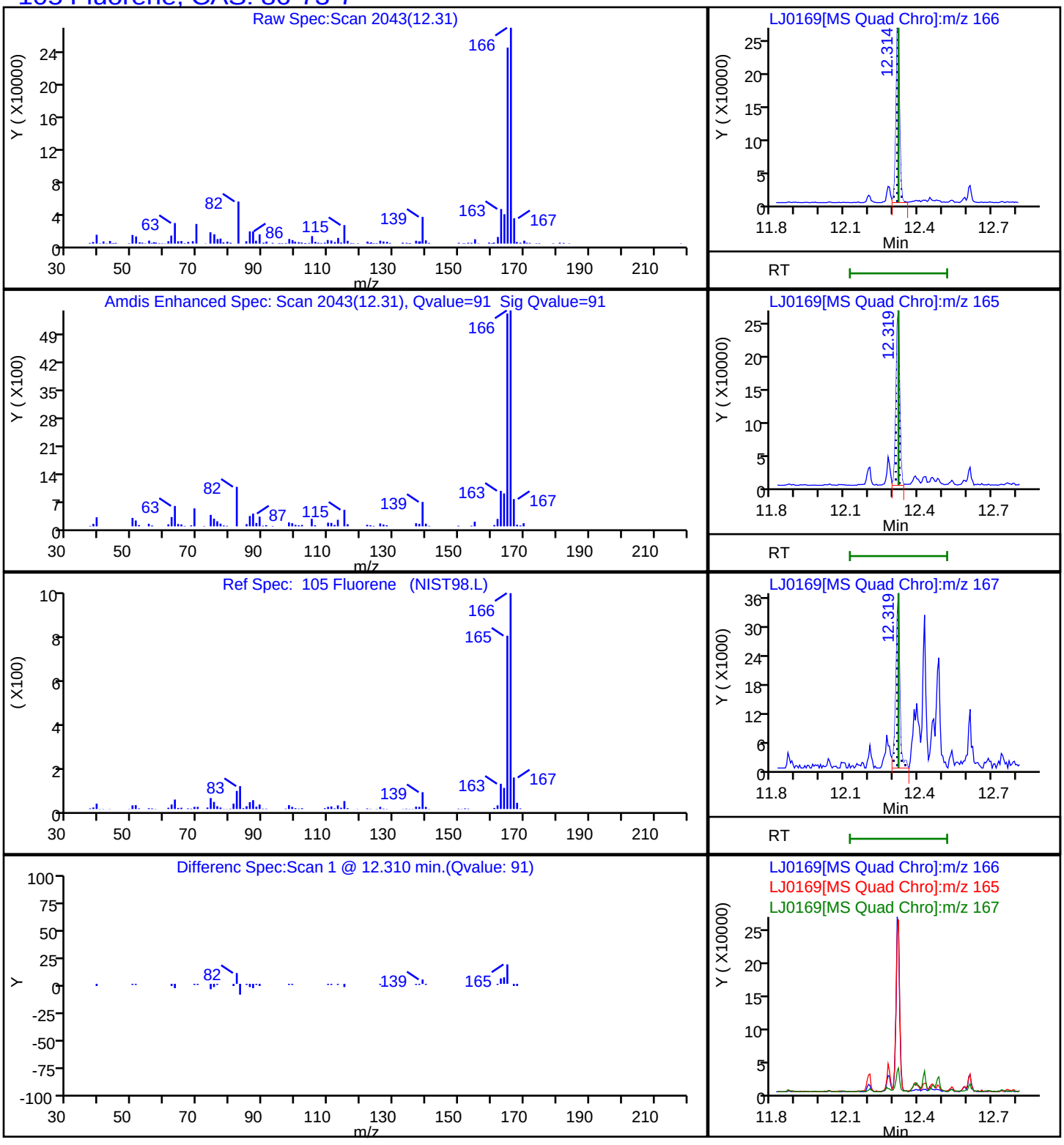


Report Date: 07-Oct-2020 14:41:10 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0169.D		
Injection Date:	07-Oct-2020 03:18:07	Instrument ID:	HP20296
Lims ID:	410-15514-D-15-A	Lab Sample ID:	410-15514-15
Client ID:	MW-11S-20200929		
Operator ID:	kel10217	ALS Bottle#:	0 Worklist Smp#: 21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN

105 Fluorene, CAS: 86-73-7

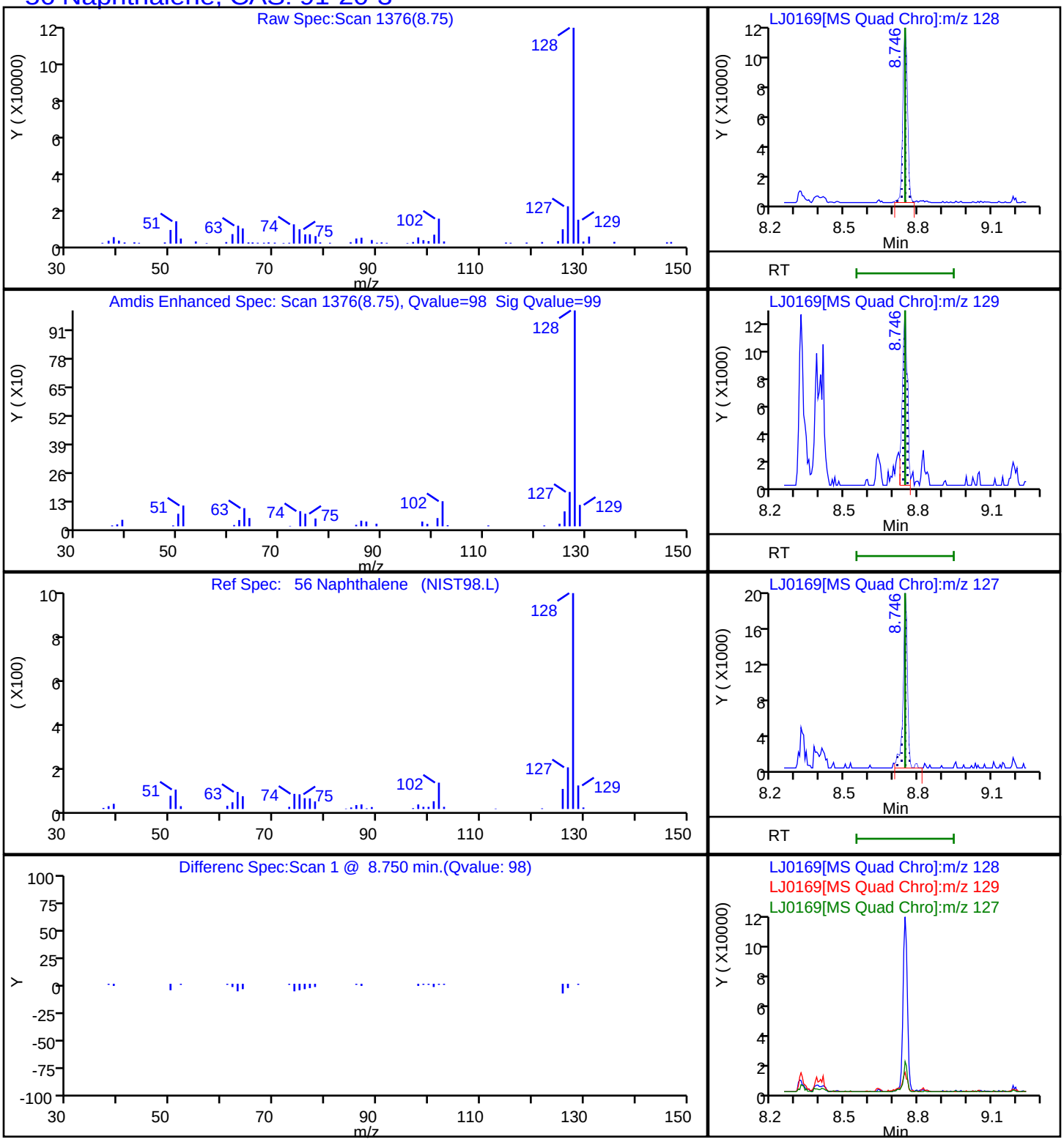


Report Date: 07-Oct-2020 14:41:09 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0169.D		
Injection Date:	07-Oct-2020 03:18:07	Instrument ID:	HP20296
Lims ID:	410-15514-D-15-A	Lab Sample ID:	410-15514-15
Client ID:	MW-11S-20200929		
Operator ID:	kel10217	ALS Bottle#:	0 Worklist Smp#: 21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN

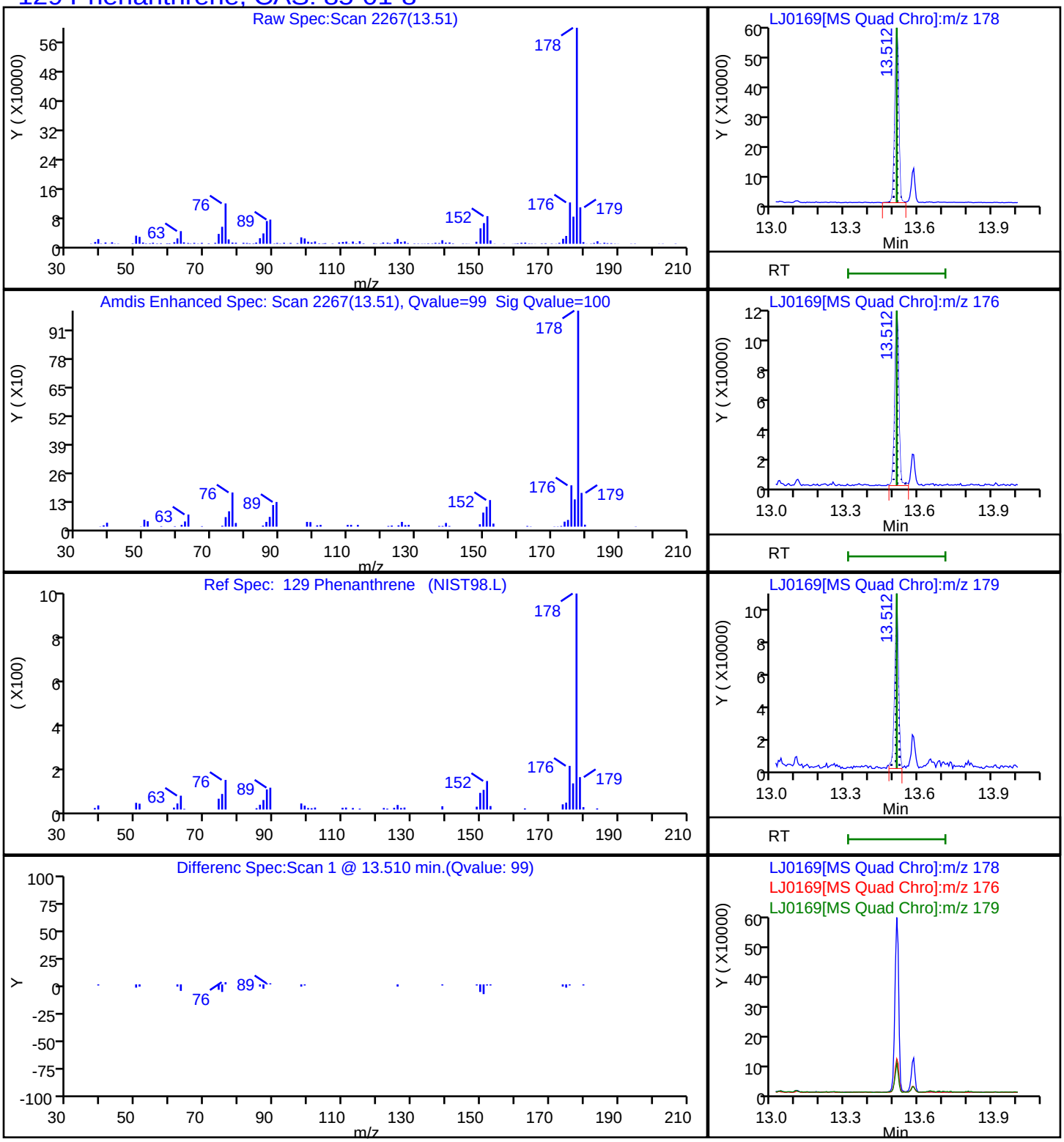
56 Naphthalene, CAS: 91-20-3



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0169.D		
Injection Date:	07-Oct-2020 03:18:07	Instrument ID:	HP20296
Lims ID:	410-15514-D-15-A	Lab Sample ID:	410-15514-15
Client ID:	MW-11S-20200929		
Operator ID:	kel10217	ALS Bottle#:	0 Worklist Smp#: 21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN

129 Phenanthrene, CAS: 85-01-8



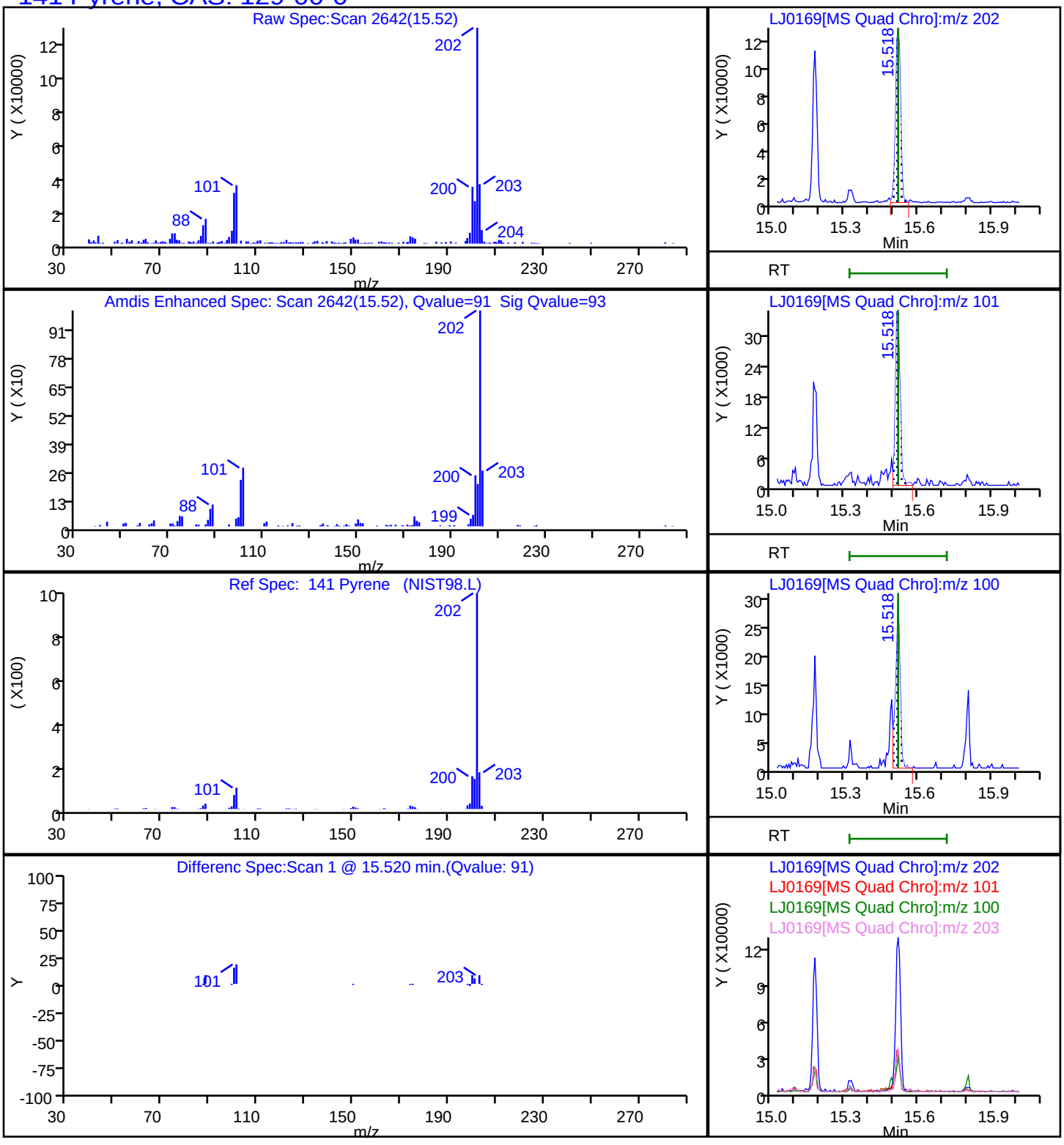
Report Date: 07-Oct-2020 14:41:10 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0169.D

Injection Date:	07-Oct-2020 03:18:07	Instrument ID:	HP20296
Lims ID:	410-15514-D-15-A	Lab Sample ID:	410-15514-15
Client ID:	MW-11S-20200929		
Operator ID:	kel10217	ALS Bottle#:	0 Worklist Smp#: 21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN

141 Pyrene, CAS: 129-00-0



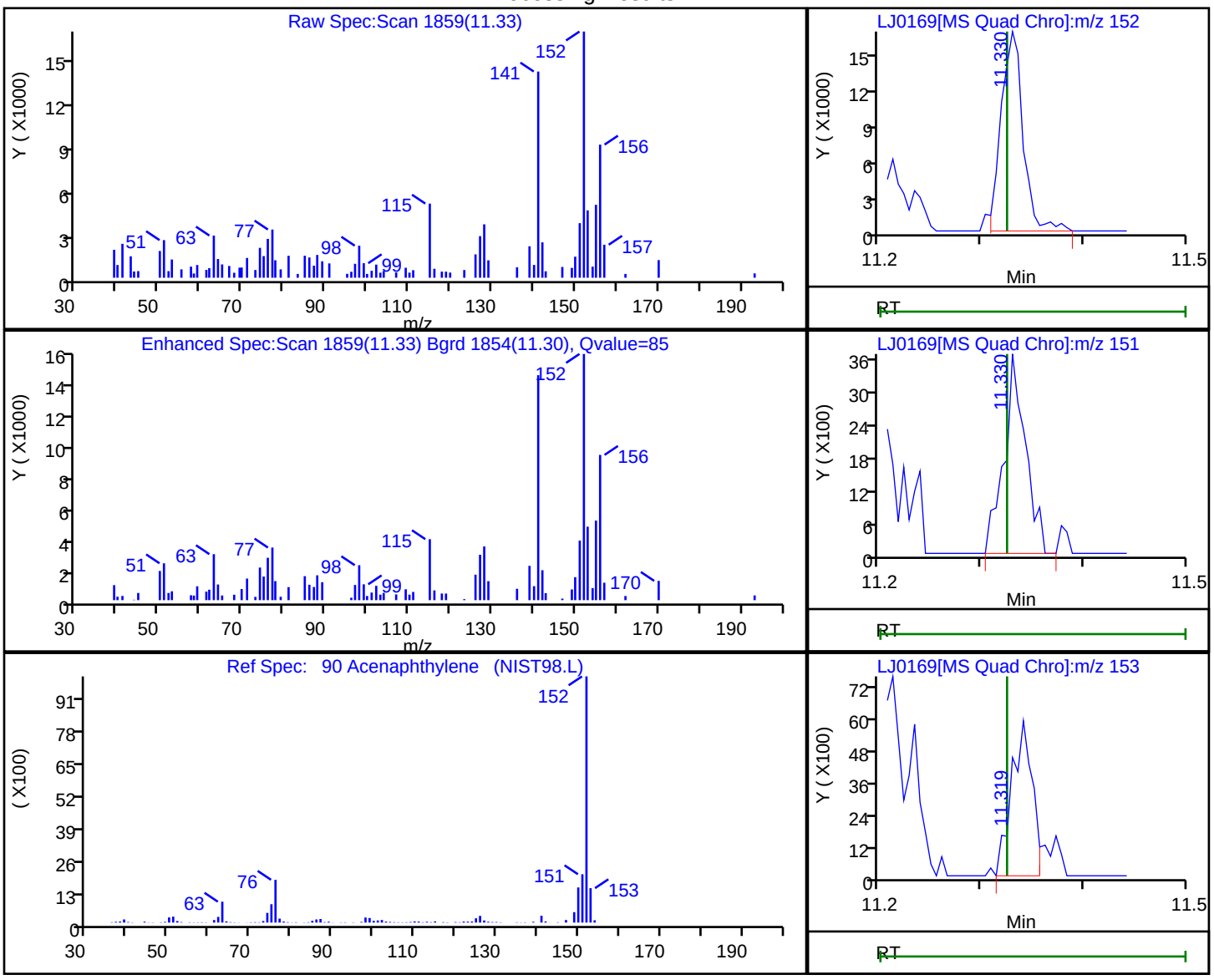
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0169.D				
Injection Date:	07-Oct-2020 03:18:07	Instrument ID:	HP20296		
Lims ID:	410-15514-D-15-A	Lab Sample ID:	410-15514-15		
Client ID:	MW-11S-20200929				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

90 Acenaphthylene, CAS: 208-96-8

Processing Results



RT	Mass	Response	Amount
11.33	152.00	24274	0.252298
11.33	151.00	5327	
11.32	153.00	8158	

Reviewer: beckk, 07-Oct-2020 14:32:28

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

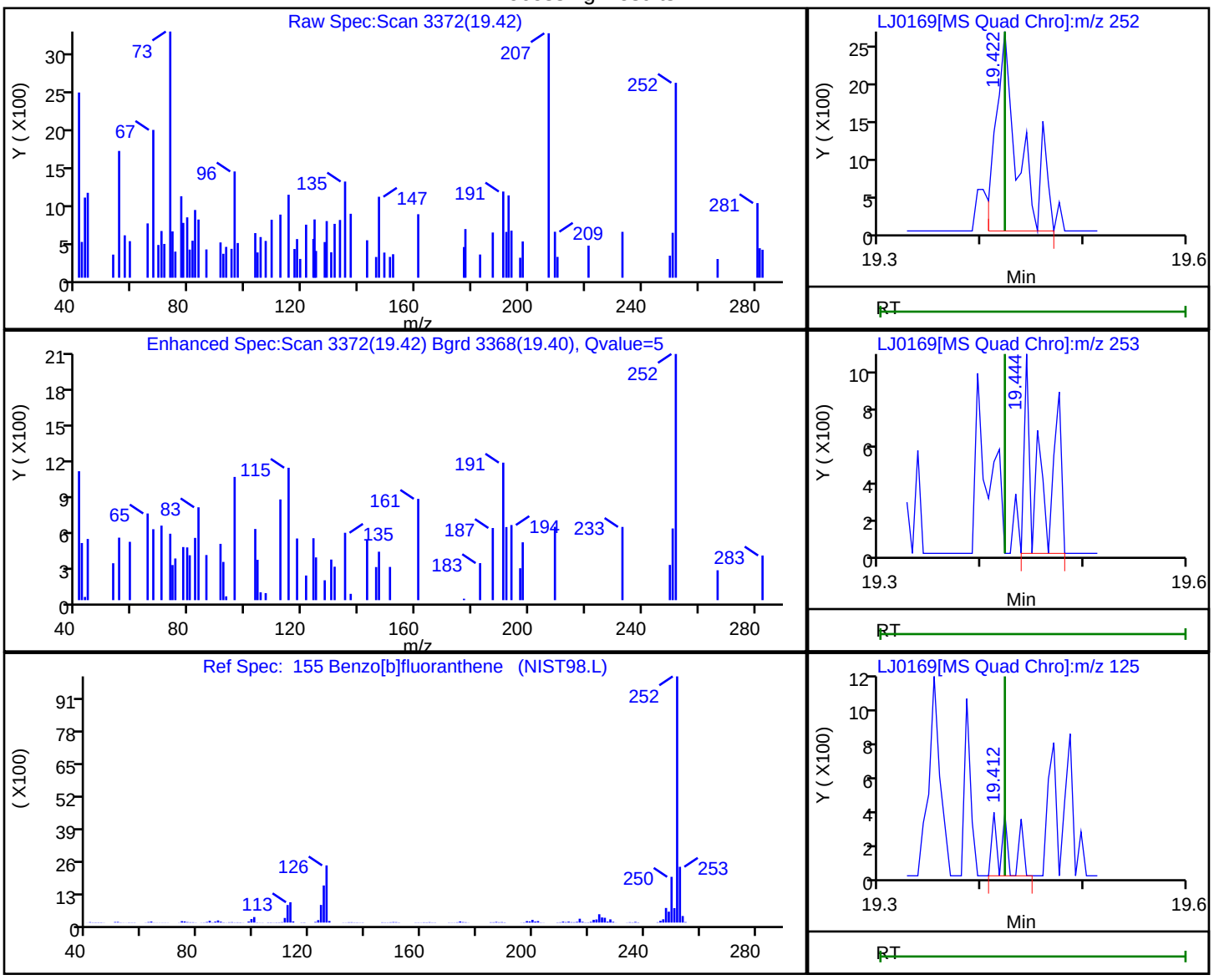
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0169.D				
Injection Date:	07-Oct-2020 03:18:07	Instrument ID:	HP20296		
Lims ID:	410-15514-D-15-A	Lab Sample ID:	410-15514-15		
Client ID:	MW-11S-20200929				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

155 Benzo[b]fluoranthene, CAS: 205-99-2

Processing Results



RT	Mass	Response	Amount
19.42	252.00	4055	0.043135
19.44	253.00	1130	
19.41	125.00	337	

Reviewer: beckk, 07-Oct-2020 14:32:40

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1 Analy Batch No.: 22758

SDG No.:

Instrument ID: HP20296 GC Column: DB-5MS 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 13:18 Calibration End Date: 07/15/2020 16:51 Calibration ID: 6917

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-22758/3	LG0652.D
Level 2	IC 410-22758/9	LG0658.D
Level 3	IC 410-22758/8	LG0657.D
Level 4	IC 410-22758/7	LG0656.D
Level 5	ICIS 410-22758/2	LG0651.D
Level 6	IC 410-22758/6	LG0655.D
Level 7	IC 410-22758/5	LG0654.D
Level 8	IC 410-22758/4	LG0653.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	+++++ 0.6173	+++++ 0.6290	0.5761 0.7206	0.4837	0.6907	Ave		0.6196				13.6		20.0			
N-Nitrosodimethylamine	+++++ 1.0534	+++++ 1.1007	0.7831 1.1753	0.8003	0.8374	Ave		0.9584				17.9		20.0			
Pyridine	+++++ 1.8945	+++++ 1.9323	1.5086 1.9716	1.3899	1.4931	Ave		1.6983				15.4		20.0			
2-Picoline	+++++ 1.7612	+++++ 1.9875	2.0535 2.0591	1.9472	1.9684	Ave		1.9628				5.5		20.0			
N-Nitrosomethylethylamine	+++++ 0.7507	+++++ 0.7974	0.7989 0.8315	0.7607	0.7873	Ave		0.7877				3.7		20.0			
Methyl methanesulfonate	+++++ 0.9159	+++++ 0.8802	0.8825 0.8365	0.8567	0.8735	Ave		0.8742				3.1		20.0			
N-Nitrosodiethylamine	+++++ 0.7333	0.7151 0.7922	0.7730 0.8137	0.7254	0.7675	Ave		0.7600				4.8		20.0			
Ethyl methanesulfonate	+++++ 0.8230	0.7535 0.8739	0.8792 0.9014	0.8033	0.8688	Ave		0.8433				6.2		20.0			
Benzaldehyde	+++++ 1.6074	1.7262 1.4591	1.5022 1.4123	1.4903	1.4249	Ave		1.5175			0.0100	7.4		20.0			
Phenol	+++++ 2.3216	2.1677 2.4323	2.3847 2.4939	2.1409	2.2218	Ave		2.3090			0.8000	5.9		20.0			
Aniline	+++++ 2.8339	2.7652 2.8651	2.7124 2.9701	2.7328	2.8233	Ave		2.8147				3.1		20.0			
Bis(2-chloroethyl)ether	+++++ 1.8916	2.0048 1.8396	1.9372 1.9231	1.8063	1.8696	Ave		1.8960			0.7000	3.5		20.0			
2-Chlorophenol	+++++ 1.5800	1.5471 1.5285	1.4875 1.5883	1.4985	1.5464	Ave		1.5395			0.8000	2.5		20.0			
1,3-Dichlorobenzene	+++++ 1.6577	1.8364 1.6112	1.6206 1.6433	1.5751	1.5975	Ave		1.6488				5.3		20.0			

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1 Analy Batch No.: 22758

SDG No.:

Instrument ID: HP20296 GC Column: DB-5MS 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 13:18 Calibration End Date: 07/15/2020 16:51 Calibration ID: 6917

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,4-Dichlorobenzene	+++++ 1.6727	1.7980 1.6314	1.6724 1.6809	1.5921	1.6589	Ave		1.6724				3.8		20.0			
Benzyl alcohol	+++++ 1.1729	+++++ 1.1983	1.1430 1.2197	1.0992	1.2171	Ave		1.1750				4.0		20.0			
1,2-Dichlorobenzene	+++++ 1.5761	1.6577 1.5560	1.6299 1.6054	1.5125	1.5581	Ave		1.5851				3.1		20.0			
2-Methylphenol	+++++ 1.5405	1.5405 1.5377	1.6067 1.6058	1.5123	1.5528	Ave		1.5566			0.7000	2.3		20.0			
Indene	+++++ 2.4076	+++++ 2.4415	2.4971 2.4429	2.2217	2.4292	Ave		2.4067				4.0		20.0			
2,2'-oxybis[1-chloropropane]	+++++ 2.0480	2.3524 2.1009	2.1506 2.1676	2.0100	2.1612	Ave		2.1415			0.0100	5.2		20.0			
N-Nitrosopyrrolidine	+++++ 0.9064	0.7820 0.8970	0.8578 0.8893	0.8565	0.8710	Ave		0.8657				4.8		20.0			
Acetophenone	+++++ 2.6835	2.6633 2.4618	2.4141 2.5854	2.4656	2.4478	Ave		2.5316			0.0100	4.4		20.0			
4-Methylphenol (and/or 3-Methylphenol)	+++++ 1.6919	1.6169 1.6544	1.6433 1.6618	1.5857	1.6314	Ave		1.6408			0.6000	2.1		20.0			
N-Nitrosodi-n-propylamine	+++++ 1.4479	1.3376 1.4273	1.4432 1.4870	1.3765	1.3886	Ave		1.4154			0.5000	3.6		20.0			
N-Nitrosomorpholine	+++++ 0.9870	+++++ 0.9569	0.9673 0.9434	0.9606	0.9465	Ave		0.9603				1.6		20.0			
o-Toluidine	+++++ 2.7835	2.8293 2.7438	2.8482 2.7713	2.6346	2.7309	Ave		2.7631				2.6		20.0			
Hexachloroethane	+++++ 0.7692	+++++ 0.7380	0.7906 0.7635	0.7305	0.7587	Ave		0.7584			0.3000	2.9		20.0			
Nitrobenzene	+++++ 0.5074	0.5122 0.5116	0.5356 0.5149	0.5004	0.5143	Ave		0.5138			0.2000	2.1		20.0			
N-Nitrosopiperidine	+++++ 0.2038	0.1796 0.2029	0.1992 0.2018	0.1920	0.1999	Ave		0.1971				4.4		20.0			
Isophorone	+++++ 0.9099	0.8865 0.9205	0.9138 0.9191	0.8896	0.9164	Ave		0.9080			0.4000	1.6		20.0			
2-Nitrophenol	+++++ 0.1916	+++++ 0.1896	0.1749 0.1880	0.1785	0.1879	Ave		0.1851			0.1000	3.6		20.0			
2,4-Dimethylphenol	+++++ 0.4318	0.3961 0.4330	0.4327 0.4277	0.4251	0.4270	Ave		0.4248			0.2000	3.1		20.0			
o,o',o''-Triethylphosphorothioate	+++++ 0.1529	0.1481 0.1523	0.1505 0.1496	0.1431	0.1477	Ave		0.1492				2.2		20.0			
Benzoic acid	+++++ 0.2973	+++++ 0.3212	0.2465 0.2643	0.2613	0.3052	Ave		0.2826				10.4		20.0			

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1 Analy Batch No.: 22758

SDG No.:

Instrument ID: HP20296 GC Column: DB-5MS 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 13:18 Calibration End Date: 07/15/2020 16:51 Calibration ID: 6917

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Bis(2-chloroethoxy)methane	+++++ 0.5867	0.5999 0.5668	0.6072 0.5536	0.5694	0.5886	Ave		0.5817			0.3000	3.3		20.0			
2,4-Dichlorophenol	+++++ 0.2956	0.2525 0.2950	0.2798 0.2939	0.2874	0.3002	Ave		0.2863			0.2000	5.7		20.0			
1,2,4-Trichlorobenzene	+++++ 0.2951	0.3085 0.2935	0.2983 0.2909	0.2889	0.2955	Ave		0.2958				2.2		20.0			
Naphthalene	1.2079 1.1163	1.1494 1.1174	1.1247 1.1131	1.0926	1.1263	Ave		1.1310			0.7000	3.1		20.0			
4-Chloroaniline	+++++ 0.4539	0.4600 0.4571	0.4490 0.4545	0.4385	0.4467	Ave		0.4514			0.0100	1.6		20.0			
2,6-Dichlorophenol	+++++ 0.2885	0.2475 0.2807	0.2840 0.2782	0.2762	0.2893	Ave		0.2778				5.1		20.0			
Hexachloropropene	+++++ 0.1790	+++++ 0.1799	0.1746 0.1791	0.1697	0.1805	Ave		0.1771				2.4		20.0			
Hexachlorobutadiene	+++++ 0.1585	0.1503 0.1570	0.1601 0.1536	0.1503	0.1574	Ave		0.1553			0.0100	2.5		20.0			
Quinoline	+++++ 0.6939	+++++ 0.6939	0.7267 0.6900	0.6869	0.6890	Ave		0.6967				2.1		20.0			
Caprolactam	+++++ 0.1135	+++++ 0.1112	0.1082 0.1119	0.1078	0.1117	Ave		0.1107			0.0100	2.0		20.0			
N-Nitrosodi-n-butylamine	+++++ 0.4201	0.3184 0.4161	0.3314 0.4152	0.3072	0.3279	Ave		0.3623				14.3		20.0			
4-Chloro-3-methylphenol	+++++ 0.3716	0.3632 0.3816	0.3657 0.3733	0.3694	0.3773	Ave		0.3717			0.2000	1.7		20.0			
Safrole, Total	+++++ 0.2614	+++++ 0.2535	0.2430 0.2574	0.2434	0.2608	Ave		0.2533				3.3		20.0			
2-Methylnaphthalene	0.7224 0.7201	0.6757 0.7137	0.7566 0.7137	0.7129	0.7127	Ave		0.7160			0.4000	3.1		20.0			
1-Methylnaphthalene	0.6959 0.6865	0.6758 0.6816	0.6903 0.6742	0.6634	0.6743	Ave		0.6803				1.5		20.0			
Hexachlorocyclopentadiene	+++++ 0.3626	+++++ 0.3695	0.3612 0.3772	0.3581	0.3714	Ave		0.3667			0.0500	2.0		20.0			
1,2,4,5-Tetrachlorobenzene	+++++ 0.5517	0.5705 0.5604	0.5755 0.5711	0.5522	0.5752	Ave		0.5652			0.0100	1.8		20.0			
Isosafrole Peak 1	+++++ 0.6336	+++++ 0.6481	0.6913 0.6458	0.6022	0.6351	Ave		0.6427				4.5		20.0			
2,4,6-Trichlorophenol	+++++ 0.4102	0.3945 0.4208	0.3857 0.4300	0.3851	0.4109	Ave		0.4053			0.2000	4.3		20.0			
2,4,5-Trichlorophenol	+++++ 0.4295	0.3842 0.4380	0.4287 0.4437	0.4294	0.4487	Ave		0.4289			0.2000	4.9		20.0			

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1 Analy Batch No.: 22758

SDG No.:

Instrument ID: HP20296 GC Column: DB-5MS 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 13:18 Calibration End Date: 07/15/2020 16:51 Calibration ID: 6917

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Isosafrole Peak 2	+++++ 0.6739	0.6662 0.6839	0.6764 0.6983	0.6677	0.6859	Ave		0.6789				1.7		20.0			
1,1'-Biphenyl	+++++ 1.8438	1.8424 1.7783	1.7454 1.8551	1.8049	1.7948	Ave		1.8092			0.0100	2.2		20.0			
2-Chloronaphthalene	+++++ 1.3665	1.3747 1.4057	1.5358 1.4650	1.4113	1.4273	Ave		1.4266			0.8000	4.1		20.0			
1-Chloronaphthalene	+++++ 1.2645	1.3983 1.2307	1.2349 1.2363	1.2256	1.2895	Ave		1.2685				4.9		20.0			
Diphenyl ether	+++++ 0.8940	0.8503 0.9093	0.9256 0.9156	0.8944	0.9268	Ave		0.9023				2.9		20.0			
2-Nitroaniline	+++++ 0.4814	+++++ 0.4867	0.4862 0.5044	0.4765	0.4936	Ave		0.4881			0.0100	2.0		20.0			
1,4-Naphthoquinone	+++++ 0.5895	+++++ 0.5871	0.5452 0.5943	0.5857	0.5949	Ave		0.5828				3.2		20.0			
1,4-Dinitrobenzene	+++++ 0.2139	+++++ 0.2201	0.2108 0.2220	0.2100	0.2177	Ave		0.2158				2.3		20.0			
Dimethyl phthalate	+++++ 1.5031	+++++ 1.5368	1.6641 1.5708	1.5907	1.5994	Ave		1.5775			0.0100	3.5		20.0			
1,3-Dinitrobenzene	+++++ 0.2407	+++++ 0.2440	0.2508 0.2464	0.2409	0.2408	Ave		0.2439				1.7		20.0			
2,6-Dinitrotoluene	+++++ 0.3498	0.3201 0.3428	0.3547 0.3524	0.3546	0.3531	Ave		0.3468			0.2000	3.6		20.0			
Acenaphthylene	1.9894 2.0326	2.0919 2.0635	2.0472 2.1084	2.0138	2.0409	Ave		2.0484			0.9000	1.9		20.0			
3-Nitroaniline	+++++ 0.4080	+++++ 0.4030	0.4155 0.4223	0.4083	0.3937	Ave		0.4085			0.0100	2.4		20.0			
Acenaphthene	1.5791 1.4688	1.5352 1.5064	1.5217 1.5213	1.4736	1.5067	Ave		1.5141			0.9000	2.3		20.0			
2,4-Dinitrophenol	+++++ 0.1888	+++++ 0.1993	+++++ 0.2049	0.1677	0.1745	Ave		0.1870			0.0100	8.5		20.0			
4-Nitrophenol	+++++ 0.2901	+++++ 0.3264	+++++ 0.3267	0.2694	0.2800	Ave		0.2985			0.0100	8.9		20.0			
Pentachlorobenzene	+++++ 0.4731	0.4893 0.4760	0.5054 0.4766	0.4953	0.4966	Ave		0.4875				2.5		20.0			
2,4-Dinitrotoluene	+++++ 0.4755	+++++ 0.4807	0.4717 0.4959	0.4617	0.4727	Ave		0.4764			0.2000	2.4		20.0			
Dibenzofuran	+++++ 1.8662	1.9172 1.8692	2.0302 1.8873	1.8554	1.8999	Ave		1.9036			0.8000	3.1		20.0			
1-Naphthylamine	+++++ 1.5091	+++++ 1.5613	+++++ 1.6113	1.4821	1.5052	Ave		1.5338				3.4		20.0			

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1 Analy Batch No.: 22758

SDG No.:

Instrument ID: HP20296 GC Column: DB-5MS 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 13:18 Calibration End Date: 07/15/2020 16:51 Calibration ID: 6917

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2,3,4,6-Tetrachlorophenol	+++++ 0.3026	0.3168 0.3143	0.2965 0.3171	0.2969	0.3061	Ave		0.3072			0.0100	2.9		20.0			
2-Naphthylamine	+++++ 1.5388	+++++ 1.5620	+++++ 1.5845	1.5070	1.4840	Ave		1.5353				2.6		20.0			
Diethyl phthalate	+++++ 1.6324	+++++ 1.6755	1.7189 1.7247	1.5999	1.6375	Ave		1.6648			0.0100	3.0		20.0			
Thionazin	+++++ 0.3248	+++++ 0.3296	0.3445 0.3494	0.3425	0.3130	Ave		0.3340				4.2		20.0			
Fluorene	1.8275 1.5123	1.5998 1.5245	1.6108 1.5462	1.5164	1.5175	Ave		1.5819			0.9000	6.7		20.0			
4-Chlorophenyl-phenyl ether	+++++ 0.6286	0.6717 0.6265	0.6933 0.6455	0.6387	0.6507	Ave		0.6507			0.4000	3.7		20.0			
5-Nitro-o-toluidine	+++++ 0.4587	0.4558 0.4618	0.4817 0.4710	0.4457	0.4472	Ave		0.4603				2.8		20.0			
4-Nitroaniline	0.4388 0.4284	0.4494 0.4352	0.4695 0.4472	0.4488	0.4623	Ave		0.4475			0.0100	3.0		20.0			
4,6-Dinitro-2-methylphenol	+++++ 0.1255	+++++ 0.1265	+++++ 0.1275	0.1167	0.1246	Ave		0.1241			0.0100	3.5		20.0			
N-Nitrosodiphenylamine	+++++ 0.6738	0.7333 0.6712	0.7357 0.6767	0.6979	0.6868	Ave		0.6965			0.0100	3.9		20.0			
1,2-Diphenylhydrazine	+++++ 1.1918	1.2460 1.1700	1.2411 1.1611	1.1898	1.1795	Ave		1.1970				2.8		20.0			
Sulfotepp	+++++ 0.1994	+++++ 0.1920	0.1924 0.1987	0.2054	0.2059	Ave		0.1990				3.0		20.0			
cis-Diallate	+++++ 0.4747	+++++ 0.4783	0.5090 0.4844	0.4848	0.4861	Ave		0.4862				2.5		20.0			
Phorate	+++++ 0.7647	0.6678 0.7616	0.7814 0.7705	0.7480	0.7658	Ave		0.7514				5.1		20.0			
Phenacetin	+++++ 0.5728	0.4926 0.5610	0.5603 0.5633	0.5551	0.5687	Ave		0.5534				5.0		20.0			
4-Bromophenyl-phenylether	0.2027 0.1810	0.2317 0.1874	0.1984 0.1812	0.1899	0.1857	Ave		0.1947			0.1000	8.6		20.0			
trans-Diallate	+++++ 0.5045	+++++ 0.4927	0.5198 0.4974	0.4745	0.4896	Ave		0.4964				3.1		20.0			
Hexachlorobenzene	0.1978 0.2148	0.2230 0.2134	0.2194 0.2100	0.2156	0.2057	Ave		0.2125			0.1000	3.7		20.0			
Dimethoate	+++++ 0.5080	+++++ 0.4944	0.4733 0.5025	0.4869	0.5088	Ave		0.4957				2.8		20.0			
Atrazine	+++++ 0.2115	+++++ 0.1942	0.2269 0.1825	0.2193	0.2146	Ave		0.2082			0.0100	8.0		20.0			

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1 Analy Batch No.: 22758

SDG No.:

Instrument ID: HP20296 GC Column: DB-5MS 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 13:18 Calibration End Date: 07/15/2020 16:51 Calibration ID: 6917

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Pentachlorophenol	+++++ 0.1464	+++++ 0.1447	0.1263 0.1453	0.1345	0.1410	Ave		0.1397			0.0500	5.6		20.0			
4-Aminobiphenyl	+++++ 0.6699	0.6733 0.6542	0.6615 0.6281	0.6499	0.6795	Ave		0.6595				2.6		20.0			
Pentachloronitrobenzene	+++++ 0.1012	+++++ 0.0965	0.1029 0.0993	0.1000	0.0960	Ave		0.0993				2.7		20.0			
Pronamide	+++++ 0.4143	0.3516 0.4149	0.4084 0.4125	0.4018	0.4169	Ave		0.4029				5.8		20.0			
Dinoseb	+++++ 0.1851	+++++ 0.1892	+++++ 0.1915	0.1671	0.1772	Ave		0.1820				5.5		20.0			
Phenanthrene	1.2340 1.2214	1.3013 1.1779	1.2493 1.1842	1.1765	1.1819	Ave		1.2158			0.7000	3.7		20.0			
Anthracene	1.2675 1.2407	1.2759 1.2073	1.2256 1.2060	1.2200	1.2210	Ave		1.2330			0.7000	2.1		20.0			
Carbazole	+++++ 1.1766	1.1378 1.1570	1.1623 1.1589	1.1382	1.1613	Ave		1.1560			0.0100	1.2		20.0			
Methyl parathion	+++++ 0.4101	+++++ 0.4006	0.3594 0.4040	0.3788	0.3993	Ave		0.3920				4.9		20.0			
Di-n-butyl phthalate	+++++ 1.6563	+++++ 1.6470	1.6451 1.6523	1.6302	1.6739	Ave		1.6508			0.0100	0.9		20.0			
Parathion	+++++ 0.2522	+++++ 0.2473	0.2203 0.2446	0.2306	0.2373	Ave		0.2387				5.0		20.0			
4-Nitroquinoline-1-oxide	+++++ 0.1531	+++++ 0.1536	+++++ 0.1536	0.1277	0.1438	Ave		0.1464				7.7		20.0			
Octachlorostyrene	+++++ 0.0983	+++++ 0.0979	0.1026 0.0978	0.0979	0.1037	Ave		0.0997				2.7		20.0			
Isodrin	+++++ 0.1419	0.1755 0.1375	0.1478 0.1374	0.1381	0.1443	Ave		0.1461				9.3		20.0			
Fluoranthene	1.2677 1.2817	1.1337 1.2585	1.2819 1.2642	1.2418	1.2774	Ave		1.2509			0.6000	3.9		20.0			
Benzidine	+++++ 0.9865	+++++ 0.9305	0.9510 0.9267	0.9226	0.9389	Ave		0.9427				2.5		20.0			
Pyrene	1.5360 1.3914	1.4395 1.3307	1.3549 1.3461	1.3364	1.3832	Ave		1.3898			0.6000	5.0		20.0			
p-Dimethylamino azobenzene	+++++ 0.2274	+++++ 0.2161	0.1886 0.2252	0.2029	0.2232	Ave		0.2139				7.1		20.0			
Chlorobenzilate	+++++ 0.5461	+++++ 0.5285	0.5089 0.5395	0.5145	0.5464	Ave		0.5306				3.0		20.0			
3,3'-Dimethylbenzidine	+++++ 0.9521	+++++ 0.9043	0.8084 0.9041	0.8634	0.9115	Ave		0.8906				5.5		20.0			

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1 Analy Batch No.: 22758

SDG No.:

Instrument ID: HP20296 GC Column: DB-5MS 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 13:18 Calibration End Date: 07/15/2020 16:51 Calibration ID: 6917

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Butylbenzylphthalate	+++++ 0.8022	0.6604 0.7743	0.7287 0.7781	0.7568	0.7969	Ave		0.7568			0.0100	6.5		20.0			
2-Acetylaminofluorene	+++++ 0.6197	+++++ 0.6027	0.5091 0.6047	0.5369	0.6014	Ave		0.5791				7.7		20.0			
3,3'-Dichlorobenzidine	+++++ 0.4831	+++++ 0.4660	0.4073 0.4630	0.4468	0.4632	Ave		0.4549			0.0100	5.7		20.0			
4,4'-Methylene bis(2-chloroaniline)	+++++ 0.2488	+++++ 0.2381	0.2264 0.2381	0.2279	0.2478	Ave		0.2379				4.0		20.0			
Benzo[a]anthracene	1.1408 1.2129	1.1094 1.1517	1.1518 1.1588	1.1475	1.1859	Ave		1.1574			0.8000	2.7		20.0			
Chrysene	1.1444 1.1912	1.1646 1.1361	1.1517 1.1353	1.1669	1.1826	Ave		1.1591			0.7000	1.8		20.0			
Bis(2-ethylhexyl) phthalate	+++++ 1.1847	+++++ 1.1450	1.0608 1.1622	1.1073	1.1740	Ave		1.1390			0.0100	4.1		20.0			
6-Methylchrysene	+++++ 0.8404	+++++ 0.8035	0.7713 0.8041	0.7804	0.8284	Ave		0.8047				3.3		20.0			
Di-n-octyl phthalate	+++++ 2.1870	+++++ 2.2260	1.8676 2.2535	1.9746	2.1229	Ave		2.1053			0.0100	7.3		20.0			
Benzo[b]fluoranthene	1.2570 1.2814	1.2315 1.3046	1.2841 1.3177	1.2391	1.3046	Ave		1.2775			0.7000	2.5		20.0			
7,12-Dimethylbenz(a)anthracene	+++++ 0.5639	0.4627 0.5699	0.5185 0.5708	0.5207	0.5612	Ave		0.5383				7.5		20.0			
Benzo[k]fluoranthene	1.1876 1.2520	1.1928 1.2495	1.2281 1.2385	1.2408	1.2441	Ave		1.2292			0.7000	2.0		20.0			
Benzo[a]pyrene	1.1353 1.2135	1.1840 1.2208	1.1917 1.2287	1.1585	1.2024	Ave		1.1919			0.7000	2.7		20.0			
3-Methylcholanthrene	+++++ 0.6195	0.4884 0.6256	0.5672 0.6264	0.5715	0.6259	Ave		0.5892				8.7		20.0			
Dibenz[a,h]acridine	+++++ 0.9326	+++++ 0.9459	0.8705 0.9421	0.8869	0.9438	Ave		0.9203				3.6		20.0			
Dibenz[a,j]acridine	+++++ 0.9490	+++++ 0.9723	0.8961 0.9549	0.9191	0.9500	Ave		0.9402				2.9		20.0			
Indeno[1,2,3-cd]pyrene	1.1174 1.1188	1.0297 1.1510	1.0621 1.1656	1.1053	1.1333	Ave		1.1104			0.5000	4.1		20.0			
Dibenz(a,h)anthracene	1.0150 1.1573	1.0216 1.1635	1.1067 1.1614	1.1189	1.1605	Ave		1.1131			0.4000	5.6		20.0			
Benzo[g,h,i]perylene	1.2441 1.1294	1.0663 1.1309	1.0910 1.1181	1.1099	1.1390	Ave		1.1286			0.5000	4.6		20.0			
2-Fluorophenol (Surr)	+++++ 1.5115	+++++ 1.5766	1.6991 1.6463	1.4948	1.5934	Ave		1.5869				4.9		20.0			

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1 Analy Batch No.: 22758

SDG No.:

Instrument ID: HP20296 GC Column: DB-5MS 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 13:18 Calibration End Date: 07/15/2020 16:51 Calibration ID: 6917

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Phenol-d5 (Surr)	+++++ 2.0876	+++++ 2.0841	1.9695 2.1216	1.9524	2.0626	Ave		2.0463				3.4		20.0			
Nitrobenzene-d5 (Surr)	+++++ 0.5062	+++++ 0.5077	0.5227 0.5082	0.4837	0.5083	Ave		0.5061				2.5		20.0			
2-Fluorobiphenyl (Surr)	+++++ 1.5342	+++++ 1.5644	1.5691 1.6052	1.5531	1.5857	Ave		1.5686				1.6		20.0			
2,4,6-Tribromophenol (Surr)	+++++ 0.2014	+++++ 0.2029	0.1973 0.2087	0.1852	0.1973	Ave		0.1988				4.0		20.0			
p-Terphenyl-d14 (Surr)	+++++ 0.9212	+++++ 0.8974	0.8914 0.8993	0.8900	0.9269	Ave		0.9044				1.7		20.0			

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1 Analy Batch No.: 22758

SDG No.:

Instrument ID: HP20296 GC Column: DB-5MS 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 13:18 Calibration End Date: 07/15/2020 16:51 Calibration ID: 6917

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-22758/3	LG0652.D
Level 2	IC 410-22758/9	LG0658.D
Level 3	IC 410-22758/8	LG0657.D
Level 4	IC 410-22758/7	LG0656.D
Level 5	ICIS 410-22758/2	LG0651.D
Level 6	IC 410-22758/6	LG0655.D
Level 7	IC 410-22758/5	LG0654.D
Level 8	IC 410-22758/4	LG0653.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dioxane	DCBd 4	Ave	+++++ 271359	+++++ 468531	26188 807956	66346	199505	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
N-Nitrosodimethylamine	DCBd 4	Ave	+++++ 463048	+++++ 819891	35596 1317818	109775	241901	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Pyridine	DCBd 4	Ave	+++++ 832736	+++++ 1439356	68572 2210689	190665	431307	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
2-Picoline	DCBd 4	Ave	+++++ 774180	+++++ 1480452	93341 2308780	267107	568585	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
N-Nitrosomethylethylamine	DCBd 4	Ave	+++++ 329990	+++++ 593943	36312 932280	104350	227410	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Methyl methanesulfonate	DCBd 4	Ave	+++++ 402597	+++++ 655616	40115 937938	117524	252308	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
N-Nitrosodiethylamine	DCBd 4	Ave	+++++ 322312	6339 590124	35135 912374	99501	221707	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Ethyl methanesulfonate	DCBd 4	Ave	+++++ 361758	6679 650953	39963 1010729	110196	250965	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzaldehyde	DCBd 4	Ave	+++++ 706568	15301 1086833	68281 1583576	204433	411584	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Phenol	DCBd 4	Ave	+++++ 1020515	19215 1811756	108396 2796255	293684	641781	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Aniline	DCBd 4	Ave	+++++ 1245694	24511 2134140	123292 3330216	374869	815537	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Bis(2-chloroethyl)ether	DCBd 4	Ave	+++++ 831492	17771 1370274	88053 2156287	247777	540058	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Chlorophenol	DCBd 4	Ave	+++++ 694499	13714 1138554	67613 1780907	205555	446699	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,3-Dichlorobenzene	DCBd 4	Ave	+++++ 728650	16278 1200193	73664 1842508	216065	461438	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,4-Dichlorobenzene	DCBd 4	Ave	+++++ 735266	15938 1215216	76019 1884765	218396	479199	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1 Analy Batch No.: 22758

SDG No.:

Instrument ID: HP20296 GC Column: DB-5MS 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 13:18 Calibration End Date: 07/15/2020 16:51 Calibration ID: 6917

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Benzyl alcohol	DCBd 4	Ave	+++++ 515557	+++++ 892593	51952 1367536	150788	351566	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
1,2-Dichlorobenzene	DCBd 4	Ave	+++++ 692797	14694 1159056	74084 1800038	207472	450074	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Methylphenol	DCBd 4	Ave	+++++ 677171	13655 1145417	73031 1800514	207445	448525	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Indene	DCBd 4	Ave	+++++ 1058285	+++++ 1818605	113505 2739107	304767	701687	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
2,2'-oxybis[1-chloropropane]	DCBd 4	Ave	+++++ 900250	20852 1564952	97756 2430414	275725	624280	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
N-Nitrosopyrrolidine	DCBd 4	Ave	+++++ 398414	6932 668145	38992 997135	117488	251604	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Acetophenone	DCBd 4	Ave	+++++ 1179574	23608 1833786	109729 2898897	338219	707053	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4-Methylphenol (and/or 3-Methylphenol)	DCBd 4	Ave	+++++ 743696	14332 1232338	74693 1863285	217517	471256	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
N-Nitrosodi-n-propylamine	DCBd 4	Ave	+++++ 636432	11857 1063198	65599 1667271	188818	401114	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
N-Nitrosomorpholine	DCBd 4	Ave	+++++ 433864	+++++ 712769	43970 1057823	131772	273394	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
o-Toluidine	DCBd 4	Ave	+++++ 1223527	25079 2043837	129464 3107327	361403	788835	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Hexachloroethane	DCBd 4	Ave	+++++ 338115	+++++ 549701	35938 856077	100209	219163	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Nitrobenzene	NPT	Ave	+++++ 940453	18828 1553743	98704 2422758	276032	595515	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
N-Nitrosopiperidine	NPT	Ave	+++++ 377778	6603 616322	36715 949556	105915	231477	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Isophorone	NPT	Ave	+++++ 1686331	32590 2795391	168383 4324367	490757	1061110	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Nitrophenol	NPT	Ave	+++++ 355127	+++++ 575810	32236 884363	98464	217594	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
2,4-Dimethylphenol	NPT	Ave	+++++ 800324	14561 1315089	79728 2012207	234498	494380	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
o,o',o''-Triethylphosphorothioate	NPT	Ave	+++++ 283330	5445 462659	27735 703800	78962	171004	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzoic acid	NPT	Ave	+++++ 551094	+++++ 975337	136277 1243453	288279	471231	+++++ 12.5	+++++ 20.0	3.75 30.0	7.50	10.0
Bis(2-chloroethoxy)methane	NPT	Ave	+++++ 1087362	22055 1721300	111890 2604569	314104	681513	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,4-Dichlorophenol	NPT	Ave	+++++ 547777	9282 896022	51569 1382748	158525	347615	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1 Analy Batch No.: 22758

SDG No.:

Instrument ID: HP20296 GC Column: DB-5MS 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 13:18 Calibration End Date: 07/15/2020 16:51 Calibration ID: 6917

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2,4-Trichlorobenzene	NPT	Ave	+++++ 546907	11343 891266	54965 1368771	159360	342098	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Naphthalene	NPT	Ave	23364 2068897	42254 3393457	207248 5236874	602777	1304146	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4-Chloroaniline	NPT	Ave	+++++ 841319	16912 1388198	82747 2138555	241886	517214	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,6-Dichlorophenol	NPT	Ave	+++++ 534723	9097 852387	52329 1309133	152396	335000	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Hexachloropropene	NPT	Ave	+++++ 331832	+++++ 546293	32170 842615	93626	208993	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Hexachlorobutadiene	NPT	Ave	+++++ 293706	5527 476653	29498 722675	82935	182243	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Quinoline	NPT	Ave	+++++ 1286154	+++++ 2107221	133909 3246609	378939	797790	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Caprolactam	NPT	Ave	+++++ 210320	+++++ 337715	19946 526453	59490	129280	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
N-Nitrosodi-n-butylamine	NPT	Ave	+++++ 778629	11707 1263532	61070 1953592	169488	379644	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4-Chloro-3-methylphenol	NPT	Ave	+++++ 688728	13352 1158966	67381 1756446	203795	436900	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Safrole, Total	NPT	Ave	+++++ 484562	+++++ 769946	44787 1211194	134266	301930	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
2-Methylnaphthalene	NPT	Ave	13974 1334647	24840 2167392	139416 3358094	393299	825208	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1-Methylnaphthalene	NPT	Ave	13460 1272328	24846 2069975	127207 3172185	365995	780769	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Hexachlorocyclopentadiene	ANT	Ave	+++++ 317499	+++++ 526675	31910 810592	91620	199781	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
1,2,4,5-Tetrachlorobenzene	ANT	Ave	+++++ 483084	9603 798738	50839 1227143	141279	309390	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Isosafrole Peak 1	ANT	Ave	+++++ 88771	+++++ 147785	9771 222026	24652	54662	+++++ 2.00	+++++ 3.20	0.200 4.80	0.600	1.20
2,4,6-Trichlorophenol	ANT	Ave	+++++ 359178	6640 599703	34068 923894	98540	220994	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,4,5-Trichlorophenol	ANT	Ave	+++++ 376075	6467 624219	37870 953326	109872	241355	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Isosafrole Peak 2	ANT	Ave	+++++ 495705	9419 818794	50190 1260436	143500	309898	+++++ 10.5	0.210 16.8	1.05 25.2	3.15	6.30
1,1'-Biphenyl	ANT	Ave	+++++ 1614546	31010 2534569	154181 3986124	461803	965376	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Chloronaphthalene	ANT	Ave	+++++ 1196604	23138 2003446	135662 3147744	361107	767720	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1 Analy Batch No.: 22758

SDG No.:

Instrument ID: HP20296 GC Column: DB-5MS 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 13:18 Calibration End Date: 07/15/2020 16:51 Calibration ID: 6917

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1-Chloronaphthalene	ANT	Ave	+++++ 1107260	23535 1754050	109082 2656394	313575	693580	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Diphenyl ether	ANT	Ave	+++++ 782880	14311 1296074	81764 1967301	228840	498509	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Nitroaniline	ANT	Ave	+++++ 421502	+++++ 693623	42946 1083777	121908	265517	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
1,4-Naphthoquinone	ANT	Ave	+++++ 516187	+++++ 836851	48162 1277028	149849	319974	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
1,4-Dinitrobenzene	ANT	Ave	+++++ 187342	+++++ 313660	18621 477059	53742	117093	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Dimethyl phthalate	ANT	Ave	+++++ 1316180	+++++ 2190413	146999 3375226	407006	860319	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
1,3-Dinitrobenzene	ANT	Ave	+++++ 210739	+++++ 347782	22151 529351	61637	129548	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
2,6-Dinitrotoluene	ANT	Ave	+++++ 306276	5388 488524	31330 757250	90733	189928	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Acenaphthylene	ANT	Ave	17282 1779855	35210 2941018	180835 4530221	515254	1097747	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
3-Nitroaniline	ANT	Ave	+++++ 357232	+++++ 574335	36703 907492	104479	211750	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Acenaphthene	ANT	Ave	13718 1286194	25840 2147085	134414 3268801	377030	810421	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,4-Dinitrophenol	ANT	Ave	+++++ 165309	+++++ 284010	+++++ 440203	85817	125138	+++++ 12.5	+++++ 20.0	+++++ 30.0	7.50	10.0
4-Nitrophenol	ANT	Ave	+++++ 253994	+++++ 465172	+++++ 702056	68935	150590	+++++ 12.5	+++++ 20.0	+++++ 30.0	3.75	7.50
Pentachlorobenzene	ANT	Ave	+++++ 414297	8235 678395	44647 1024013	126721	267099	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,4-Dinitrotoluene	ANT	Ave	+++++ 416394	+++++ 685188	41671 1065642	118120	254248	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Dibenzofuran	ANT	Ave	+++++ 1634200	32270 2664080	179339 4055191	474710	1021923	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1-Naphthylamine	ANT	Ave	+++++ 1321443	+++++ 2225246	+++++ 3462168	379219	809614	+++++ 12.5	+++++ 20.0	+++++ 30.0	3.75	7.50
2,3,4,6-Tetrachlorophenol	ANT	Ave	+++++ 265006	5333 448025	26191 681250	75959	164638	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Naphthylamine	ANT	Ave	+++++ 1347425	+++++ 2226254	+++++ 3404644	385585	798226	+++++ 12.5	+++++ 20.0	+++++ 30.0	3.75	7.50
Diethyl phthalate	ANT	Ave	+++++ 1429396	+++++ 2388048	151833 3705882	409349	880805	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Thionazin	ANT	Ave	+++++ 284414	+++++ 469789	30429 750739	87623	168351	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1 Analy Batch No.: 22758

SDG No.:

Instrument ID: HP20296 GC Column: DB-5MS 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 13:18 Calibration End Date: 07/15/2020 16:51 Calibration ID: 6917

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Fluorene	ANT	Ave	15876 1324233	26927 2172891	142287 3322383	387980	816219	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4-Chlorophenyl-phenyl ether	ANT	Ave	+++++ 550453	11305 892903	61245 1386899	163422	349982	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
5-Nitro-o-toluidine	ANT	Ave	+++++ 401693	7671 658199	42553 1012000	114043	240521	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4-Nitroaniline	ANT	Ave	3812 375176	7564 620236	41473 960858	114837	248650	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4,6-Dinitro-2-methylphenol	PHN	Ave	+++++ 202226	+++++ 342142	+++++ 535722	54870	124123	+++++ 12.5	+++++ 20.0	+++++ 30.0	3.75	7.50
N-Nitrosodiphenylamine	PHN	Ave	+++++ 1085698	22938 1815711	118882 2844194	328240	684265	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,2-Diphenylhydrazine	PHN	Ave	+++++ 1920240	38979 3164914	200556 4879948	559570	1175157	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Sulfotepp	PHN	Ave	+++++ 321362	+++++ 519333	31085 834942	96581	205164	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
cis-Diallate	PHN	Ave	+++++ 566024	+++++ 957398	60861 1506574	168735	358393	+++++ 9.25	+++++ 14.8	0.925 22.2	2.78	5.55
Phorate	PHN	Ave	+++++ 1232164	20889 2060108	126277 3238121	351823	762996	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Phenacetin	PHN	Ave	+++++ 922940	15410 1517577	90537 2367591	261088	566555	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4-Bromophenyl-phenylether	PHN	Ave	3285 291586	7247 506861	32054 761661	89322	185015	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
trans-Diallate	PHN	Ave	+++++ 211344	+++++ 346518	21841 543469	58029	126816	+++++ 3.25	+++++ 5.20	0.325 7.80	0.975	1.95
Hexachlorobenzene	PHN	Ave	3206 346112	6977 577381	35452 882485	101397	204917	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dimethoate	PHN	Ave	+++++ 818558	+++++ 1337389	76490 2112024	229019	506912	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Atrazine	PHN	Ave	+++++ 340754	+++++ 525273	36667 766953	103133	213837	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Pentachlorophenol	PHN	Ave	+++++ 235890	+++++ 391430	20405 610463	63253	140510	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
4-Aminobiphenyl	PHN	Ave	+++++ 1079455	21064 1769719	106902 2639869	305675	676964	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Pentachloronitrobenzene	PHN	Ave	+++++ 163002	+++++ 260978	16624 417420	47017	95693	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Pronamide	PHN	Ave	+++++ 667520	11000 1122332	65997 1733642	188981	415371	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dinoseb	PHN	Ave	+++++ 298173	+++++ 511724	+++++ 804667	78577	176588	+++++ 12.5	+++++ 20.0	+++++ 30.0	3.75	7.50

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1 Analy Batch No.: 22758

SDG No.:

Instrument ID: HP20296 GC Column: DB-5MS 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 13:18 Calibration End Date: 07/15/2020 16:51 Calibration ID: 6917

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Phenanthrene	PHN	Ave	19996 1968020	40709 3186160	201884 4977020	553314	1177502	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Anthracene	PHN	Ave	20539 1999127	39913 3265869	198056 5068601	573815	1216522	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Carbazole	PHN	Ave	+++++ 1895833	35593 3129759	187822 4870556	535303	1157014	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Methyl parathion	PHN	Ave	+++++ 660773	+++++ 1083606	58074 1698059	178175	397851	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Di-n-butyl phthalate	PHN	Ave	+++++ 2668706	+++++ 4455242	265844 6944101	766703	1667708	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Parathion	PHN	Ave	+++++ 406425	+++++ 669006	35594 1027973	108476	236405	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
4-Nitroquinoline-1-oxide	PHN	Ave	+++++ 246613	+++++ 415520	+++++ 645333	60063	143306	+++++ 12.5	+++++ 20.0	+++++ 30.0	3.75	7.50
Octachlorostyrene	PHN	Ave	+++++ 158376	+++++ 264721	16585 410900	46022	103328	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Isodrin	PHN	Ave	+++++ 228562	5489 371924	23883 577260	64961	143806	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Fluoranthene	PHN	Ave	20542 2065223	35464 3404241	207142 5313202	584063	1272700	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzidine	PYR10	Ave	+++++ 4486151	+++++ 7228171	463646 11097442	1275964	2690879	+++++ 37.5	+++++ 60.0	3.75 90.0	11.3	22.5
Pyrene	PYR10	Ave	24277 2109273	43335 3445643	220205 5373359	616057	1321427	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
p-Dimethylamino azobenzene	PYR10	Ave	+++++ 344769	+++++ 559572	30658 899006	93541	213226	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Chlorobenzilate	PYR10	Ave	+++++ 827786	+++++ 1368509	82701 2153619	237166	522001	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
3,3'-Dimethylbenzidine	PYR10	Ave	+++++ 1443237	+++++ 2341591	131385 3608935	398000	870754	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Butylbenzylphthalate	PYR10	Ave	+++++ 1216038	19881 2005079	118433 3105918	348886	761298	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Acetylaminofluorene	PYR10	Ave	+++++ 939422	+++++ 1560589	82739 2414008	247519	574568	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
3,3'-Dichlorobenzidine	PYR10	Ave	+++++ 732366	+++++ 1206736	66194 1848023	205959	442477	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
4,4'-Methylene bis(2-chloroaniline)	PYR10	Ave	+++++ 377093	+++++ 616642	36800 950345	105076	236757	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Benzo[a]anthracene	PYR10	Ave	18032 1838626	33397 2982290	187198 4625732	528962	1132892	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Chrysene	PYR10	Ave	18088 1805825	35060 2941853	187176 4531782	537914	1129766	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1 Analy Batch No.: 22758

SDG No.:

Instrument ID: HP20296 GC Column: DB-5MS 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 13:18 Calibration End Date: 07/15/2020 16:51 Calibration ID: 6917

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Bis(2-ethylhexyl) phthalate	PYR10	Ave	+++++ 1795922	+++++ 2964810	172406 4639182	510465	1121526	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
6-Methylchrysene	PYR10	Ave	+++++ 1273967	+++++ 2080525	125350 3209964	359739	791425	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Di-n-octyl phthalate	PRY	Ave	+++++ 3166207	+++++ 5251670	278142 8233994	870053	1948821	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Benzo[b]fluoranthene	PRY	Ave	18584 1855115	34904 3077802	191247 4814737	545993	1197598	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
7,12-Dimethylbenz(a)anthracene	PRY	Ave	+++++ 816467	13114 1344551	77223 2085638	229435	515160	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzo[k]fluoranthene	PRY	Ave	17557 1812579	33805 2947772	182905 4525455	546740	1142095	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzo[a]pyrene	PRY	Ave	16784 1756860	33556 2880188	177483 4489432	510456	1103845	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
3-Methylcholanthrene	PRY	Ave	+++++ 896946	13842 1475865	84471 2288807	251819	574631	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dibenz[a,h]acridine	PRY	Ave	+++++ 1350247	+++++ 2231697	129646 3442414	390814	866400	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Dibenz[a,j]acridine	PRY	Ave	+++++ 1373915	+++++ 2293981	133449 3488965	404988	872120	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Indeno[1,2,3-cd]pyrene	PRY	Ave	16520 1619765	29184 2715563	158181 4258795	487033	1040344	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dibenz(a,h)anthracene	PRY	Ave	15006 1675474	28955 2745026	164819 4243568	493007	1065370	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzo[g,h,i]perylene	PRY	Ave	18392 1635041	30221 2668026	162489 4085581	489056	1045647	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Fluorophenol (Surr)	DCBd4	Ave	+++++ 1328823	+++++ 2348795	154459 3691801	410102	920512	+++++ 25.0	+++++ 40.0	2.50 60.0	7.50	15.0
Phenol-d5 (Surr)	DCBd4	Ave	+++++ 1835233	+++++ 3104755	179048 4757697	535644	1191604	+++++ 25.0	+++++ 40.0	2.50 60.0	7.50	15.0
Nitrobenzene-d5 (Surr)	NPT	Ave	+++++ 1876351	+++++ 3083794	192648 4781897	533744	1177035	+++++ 25.0	+++++ 40.0	2.50 60.0	7.50	15.0
2-Fluorobiphenyl (Surr)	ANT	Ave	+++++ 2686936	+++++ 4459531	277209 6898149	794751	1705834	+++++ 25.0	+++++ 40.0	2.50 60.0	7.50	15.0
2,4,6-Tribromophenol (Surr)	ANT	Ave	+++++ 352754	+++++ 578365	34858 896961	94761	212254	+++++ 25.0	+++++ 40.0	2.50 60.0	7.50	15.0
p-Terphenyl-d14 (Surr)	PYR10	Ave	+++++ 2792843	+++++ 4647281	289744 7179903	820601	1770889	+++++ 25.0	+++++ 40.0	2.50 60.0	7.50	15.0

Curve Type Legend:
Ave = Average ISTD

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0651.D
Lims ID: ICIS L5
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 15-Jul-2020 13:18:15 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS L5
Misc. Info.: 410-0005639-002
Operator ID: lmh00956 Instrument ID: HP20296
Sublist: chrom-MSSemi_HP20296*sub6

Method: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 15-Jul-2020 19:25:24 Calib Date: 15-Jul-2020 16:51:20
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0658.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1062

First Level Reviewer: transuea Date: 15-Jul-2020 19:25:24

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	2.740	2.740	0.000	93	199505	7.50	8.36	
2 N-Nitrosodimethylamine	74	3.248	3.248	0.000	91	241901	7.50	6.55	
3 Pyridine	79	3.286	3.286	0.000	98	431307	7.50	6.59	
5 2-Picoline	93	4.425	4.425	0.000	93	568585	7.50	7.52	
6 N-Nitrosomethylethylamine	88	4.607	4.607	0.000	87	227410	7.50	7.50	
9 Methyl methanesulfonate	80	5.051	5.051	0.000	82	252308	7.50	7.49	
$ 10 2-Fluorophenol	112	5.291	5.291	0.000	94	920512	15.0	15.1	
11 N-Nitrosodiethylamine	102	5.628	5.628	0.000	94	221707	7.50	7.57	
13 Ethyl methanesulfonate	109	6.078	6.078	0.000	97	250965	7.50	7.73	
15 Benzaldehyde	77	6.559	6.559	0.000	95	411584	7.50	7.04	
$ 16 Phenol-d5	99	6.661	6.661	0.000	99	1191604	15.0	15.1	
17 Phenol	94	6.677	6.677	0.000	98	641781	7.50	7.22	
18 Aniline	93	6.719	6.719	0.000	98	815537	7.50	7.52	
19 Bis(2-chloroethyl)ether	93	6.832	6.832	0.000	95	540058	7.50	7.40	
20 2-Chlorophenol	128	6.885	6.885	0.000	96	446699	7.50	7.53	
22 1,3-Dichlorobenzene	146	7.121	7.121	0.000	94	461438	7.50	7.27	
* 24 1,4-Dichlorobenzene-d4	152	7.212	7.212	0.000	97	192572	5.00	5.00	
25 1,4-Dichlorobenzene	146	7.238	7.238	0.000	90	479199	7.50	7.44	
27 Benzyl alcohol	108	7.420	7.420	0.000	92	351566	7.50	7.77	
29 1,2-Dichlorobenzene	146	7.463	7.463	0.000	93	450074	7.50	7.37	
30 Indene	115	7.602	7.602	0.000	88	701687	7.50	7.57	
31 2-Methylphenol	108	7.602	7.602	0.000	71	448525	7.50	7.48	
32 2,2'-oxybis[1-chloropropane]	45	7.650	7.650	0.000	95	624280	7.50	7.57	
34 N-Nitrosopyrrolidine	100	7.789	7.789	0.000	95	251604	7.50	7.55	
35 Acetophenone	105	7.832	7.832	0.000	90	707053	7.50	7.25	
36 4-Methylphenol	108	7.837	7.837	0.000	93	471256	7.50	7.46	
37 N-Nitrosodi-n-propylamine	70	7.848	7.848	0.000	80	401114	7.50	7.36	
38 N-Nitrosomorpholine	56	7.859	7.859	0.000	88	273394	7.50	7.39	
39 2-Toluidine	106	7.885	7.885	0.000	94	788835	7.50	7.41	
40 Hexachloroethane	117	7.987	7.987	0.000	94	219163	7.50	7.50	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	8.062	8.062	0.000	86	1177035	15.0	15.1	
42 Nitrobenzene	77	8.089	8.089	0.000	84	595515	7.50	7.51	
44 N-Nitrosopiperidine	114	8.324	8.324	0.000	89	231477	7.50	7.61	
46 Isophorone	82	8.474	8.474	0.000	98	1061110	7.50	7.57	
47 2-Nitrophenol	139	8.592	8.592	0.000	97	217594	7.50	7.62	
48 2,4-Dimethylphenol	107	8.677	8.677	0.000	97	494380	7.50	7.54	
49 o,o',o''-Triethylphosphorothioat	198	8.805	8.805	0.000	91	171004	7.50	7.43	
50 Benzoic acid	105	8.816	8.816	0.000	88	471231	10.0	10.8	M
51 Bis(2-chloroethoxy)methane	93	8.843	8.843	0.000	99	681513	7.50	7.59	
S 53 Dinitrotoluene	165				0		15.0	15.1	
52 2,4-Dichlorophenol	162	8.971	8.971	0.000	97	347615	7.50	7.86	
54 1,2,4-Trichlorobenzene	180	9.110	9.110	0.000	93	342098	7.50	7.49	
* 55 Naphthalene-d8	136	9.196	9.196	0.000	100	771902	5.00	5.00	
56 Naphthalene	128	9.228	9.228	0.000	98	1304146	7.50	7.47	
57 4-Chloroaniline	127	9.324	9.324	0.000	93	517214	7.50	7.42	
58 2,6-Dichlorophenol	162	9.335	9.335	0.000	94	335000	7.50	7.81	
59 Hexachloropropene	213	9.383	9.383	0.000	93	208993	7.50	7.64	
60 Hexachlorobutadiene	225	9.447	9.447	0.000	96	182243	7.50	7.60	
S 63 Diallate	86				0		7.50	7.47	
62 Quinoline	129	9.763	9.763	0.000	95	797790	7.50	7.42	
64 Caprolactam	113	9.859	9.859	0.000	83	129280	7.50	7.56	
65 N-Nitrosodi-n-butylamine	84	9.902	9.902	0.000	90	379644	7.50	6.79	
66 4-Chloro-3-methylphenol	107	10.127	10.127	0.000	92	436900	7.50	7.61	
67 Safrole, Total	162	10.234	10.234	0.000	85	301930	7.50	7.72	
69 2-Methylnaphthalene	142	10.357	10.357	0.000	90	825208	7.50	7.47	
70 1-Methylnaphthalene	142	10.517	10.517	0.000	92	780769	7.50	7.43	
71 Hexachlorocyclopentadiene	237	10.624	10.624	0.000	96	199781	7.50	7.60	
72 1,2,4,5-Tetrachlorobenzene	216	10.629	10.629	0.000	97	309390	7.50	7.63	
73 Isosafrole Peak 1	162	10.715	10.715	0.000	82	54662	1.20	1.19	
74 2,4,6-Trichlorophenol	196	10.822	10.822	0.000	93	220994	7.50	7.60	
75 2,4,5-Trichlorophenol	196	10.870	10.870	0.000	90	241355	7.50	7.85	
$ 76 2-Fluorobiphenyl (Surr)	172	10.977	10.977	0.000	99	1705834	15.0	15.2	
77 Isosafrole Peak 2	162	11.084	11.084	0.000	88	309898	6.30	6.36	
79 1,1'-Biphenyl	154	11.132	11.132	0.000	96	965376	7.50	7.44	
80 2-Chloronaphthalene	162	11.148	11.148	0.000	99	767720	7.50	7.50	
81 1-Chloronaphthalene	162	11.180	11.180	0.000	95	693580	7.50	7.62	
82 Phenyl ether	170	11.314	11.314	0.000	88	498509	7.50	7.70	
83 2-Nitroaniline	138	11.319	11.319	0.000	76	265517	7.50	7.58	
84 1,4-Naphthoquinone	158	11.437	11.437	0.000	79	319974	7.50	7.66	
85 1,4-Dinitrobenzene	168	11.549	11.549	0.000	83	117093	7.50	7.57	
86 Dimethyl phthalate	163	11.640	11.640	0.000	97	860319	7.50	7.60	
87 1,3-Dinitrobenzene	168	11.656	11.656	0.000	82	129548	7.50	7.41	
88 2,6-Dinitrotoluene	165	11.715	11.715	0.000	87	189928	7.50	7.64	
90 Acenaphthylene	152	11.795	11.795	0.000	99	1097747	7.50	7.47	
91 3-Nitroaniline	138	11.940	11.940	0.000	91	211750	7.50	7.23	
* 92 Acenaphthene-d10	164	11.999	11.999	0.000	98	358590	5.00	5.00	
93 Acenaphthene	153	12.041	12.041	0.000	98	810421	7.50	7.46	
94 2,4-Dinitrophenol	184	12.090	12.090	0.000	76	125138	10.0	9.33	
96 4-Nitrophenol	109	12.180	12.180	0.000	92	150590	7.50	7.03	
98 Pentachlorobenzene	250	12.223	12.223	0.000	96	267099	7.50	7.64	
99 2,4-Dinitrotoluene	165	12.271	12.271	0.000	85	254248	7.50	7.44	
100 Dibenzofuran	168	12.277	12.277	0.000	95	1021923	7.50	7.49	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 1-Naphthylamine	143	12.378	12.378	0.000	98	809614	7.50	7.36	
102 2,3,4,6-Tetrachlorophenol	232	12.437	12.437	0.000	83	164638	7.50	7.47	
103 2-Naphthylamine	143	12.480	12.480	0.000	94	798226	7.50	7.25	
104 Diethyl phthalate	149	12.608	12.608	0.000	97	880805	7.50	7.38	
106 Thionazin	107	12.705	12.705	0.000	79	168351	7.50	7.03	
105 Fluorene	166	12.715	12.715	0.000	91	816219	7.50	7.19	
107 N-Nitro-o-toluidine	152	12.731	12.731	0.000	72	240521	7.50	7.29	
108 4-Chlorophenyl phenyl ether	204	12.737	12.737	0.000	89	349982	7.50	7.50	
109 4-Nitroaniline	138	12.737	12.737	0.000	84	248650	7.50	7.75	
110 4,6-Dinitro-2-methylphenol	198	12.785	12.785	0.000	73	124123	7.50	7.53	
111 N-Nitrosodiphenylamine	169	12.881	12.881	0.000	65	684265	7.50	7.40	
112 1,2-Diphenylhydrazine	77	12.929	12.929	0.000	42	1175157	7.50	7.39	
$ 113 2,4,6-Tribromophenol	330	13.020	13.020	0.000	88	212254	15.0	14.9	
114 Sulfotepp	97	13.111	13.111	0.000	78	205164	7.50	7.76	
115 cis-Diallate	86	13.266	13.266	0.000	97	358393	5.55	5.55	
116 Phorate	75	13.272	13.272	0.000	95	762996	7.50	7.64	
117 Phenacetin	108	13.282	13.282	0.000	86	566555	7.50	7.71	
118 4-Bromophenyl phenyl ether	248	13.357	13.357	0.000	75	185015	7.50	7.15	
119 trans-Diallate	86	13.379	13.379	0.000	97	126816	1.95	1.92	
120 Hexachlorobenzene	284	13.416	13.416	0.000	89	204917	7.50	7.26	
121 Dimethoate	87	13.480	13.480	0.000	97	506912	7.50	7.70	
122 Atrazine	200	13.582	13.582	0.000	86	213837	7.50	7.73	
123 Pentachlorophenol	266	13.678	13.678	0.000	86	140510	7.50	7.57	
124 4-Aminobiphenyl	169	13.689	13.689	0.000	91	676964	7.50	7.73	
125 Pentachloronitrobenzene	237	13.699	13.699	0.000	82	95693	7.50	7.25	
126 Pronamide	173	13.785	13.785	0.000	90	415371	7.50	7.76	
* 127 Phenanthrene-d10	188	13.935	13.935	0.000	96	664208	5.00	5.00	
128 Dinoseb	211	13.940	13.940	0.000	90	176588	7.50	7.30	
129 Phenanthrene	178	13.967	13.967	0.000	99	1177502	7.50	7.29	
130 Anthracene	178	14.036	14.036	0.000	99	1216522	7.50	7.43	
131 Carbazole	167	14.256	14.256	0.000	97	1157014	7.50	7.53	
132 Methyl parathion	109	14.459	14.459	0.000	89	397851	7.50	7.64	
133 Di-n-butyl phthalate	149	14.775	14.775	0.000	100	1667708	7.50	7.60	
134 Ethyl Parathion	109	15.031	15.031	0.000	82	236405	7.50	7.45	
135 4-Nitroquinoline-1-oxide	190	15.053	15.053	0.000	88	143306	7.50	7.37	
136 Octachlorostyrene	308	15.406	15.406	0.000	92	103328	7.50	7.80	
137 Isodrin	193	15.465	15.465	0.000	86	143806	7.50	7.41	
138 Fluoranthene	202	15.694	15.694	0.000	99	1272700	7.50	7.66	
139 Benzidine	184	15.919	15.919	0.000	99	2690879	22.5	22.4	
* 140 Pyrene-d10 (IS)	212	16.021	16.021	0.000	98	636876	5.00	5.00	
141 Pyrene	202	16.053	16.053	0.000	95	1321427	7.50	7.46	
$ 142 p-Terphenyl-d14	244	16.331	16.331	0.000	97	1770889	15.0	15.4	
143 p-Dimethylamino azobenzene	225	16.566	16.566	0.000	90	213226	7.50	7.83	
144 Chlorobenzilate	139	16.657	16.657	0.000	80	522001	7.50	7.72	
145 3,3'-Dimethylbenzidine	212	17.144	17.144	0.000	98	870754	7.50	7.68	
146 Butyl benzyl phthalate	149	17.197	17.197	0.000	93	761298	7.50	7.90	
147 2-Acetylaminofluorene	181	17.577	17.577	0.000	93	574568	7.50	7.79	
148 3,3'-Dichlorobenzidine	252	18.101	18.101	0.000	81	442477	7.50	7.64	
150 4,4'-Methylene bis(2-chloroanil	231	18.117	18.117	0.000	92	236757	7.50	7.81	
149 Benzo[a]anthracene	228	18.123	18.123	0.000	98	1132892	7.50	7.68	
151 Chrysene	228	18.187	18.187	0.000	97	1129766	7.50	7.65	
152 Bis(2-ethylhexyl) phthalate	149	18.283	18.283	0.000	97	1121526	7.50	7.73	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
153 6-Methylchrysene	242	19.005	19.005	0.000	98	791425	7.50	7.72	
154 Di-n-octyl phthalate	149	19.465	19.465	0.000	99	1948821	7.50	7.56	
155 Benzo[b]fluoranthene	252	20.016	20.016	0.000	96	1197598	7.50	7.66	
156 7,12-Dimethylbenz(a)anthracene	256	20.016	20.016	0.000	83	515160	7.50	7.82	
157 Benzo[k]fluoranthene	252	20.070	20.070	0.000	98	1142095	7.50	7.59	
158 Benzo[a]pyrene	252	20.556	20.556	0.000	82	1103845	7.50	7.57	
* 159 Perylene-d12	264	20.647	20.647	0.000	95	612010	5.00	5.00	
160 3-Methylcholanthrene	268	21.134	21.134	0.000	94	574631	7.50	7.97	
161 Dibenz[a,h]acridine	279	21.974	21.974	0.000	92	866400	7.50	7.69	
162 Dibenz[a,j]acridine	279	22.054	22.054	0.000	95	872120	7.50	7.58	
163 Indeno[1,2,3-cd]pyrene	276	22.343	22.343	0.000	96	1040344	7.50	7.65	
164 Dibenz(a,h)anthracene	278	22.386	22.386	0.000	97	1065370	7.50	7.82	
165 Benzo[g,h,i]perylene	276	22.792	22.792	0.000	93	1045647	7.50	7.57	
S 166 Isosafrole	162				0		7.50	7.55	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_5_00006 Amount Added: 1.00 Units: mL

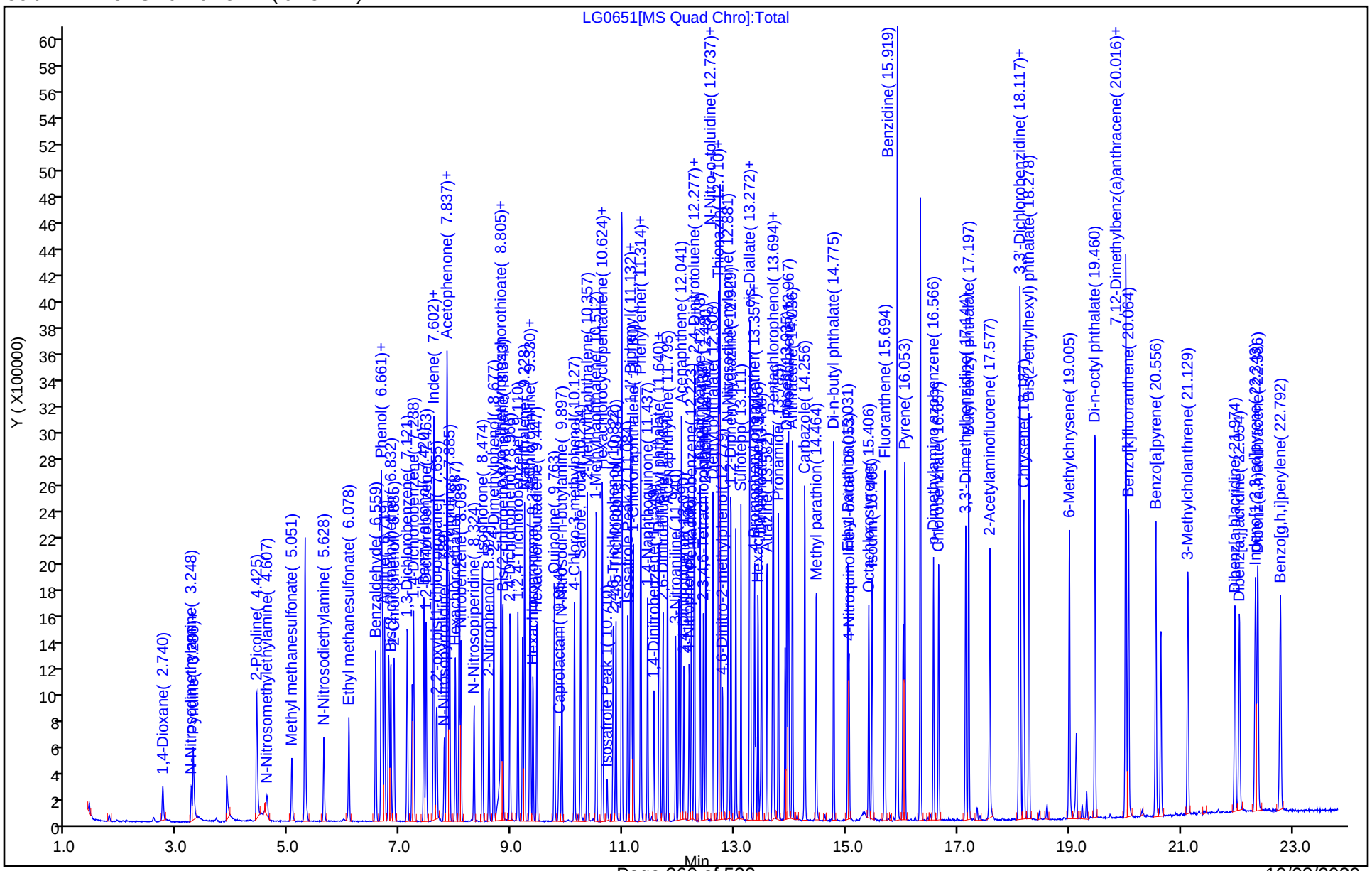
Report Date: 15-Jul-2020 19:25:28 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0651.D

Injection Date:	15-Jul-2020 13:18:15	Instrument ID:	HP20296	Operator ID:	lmh00956
Lims ID:	ICIS L5			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

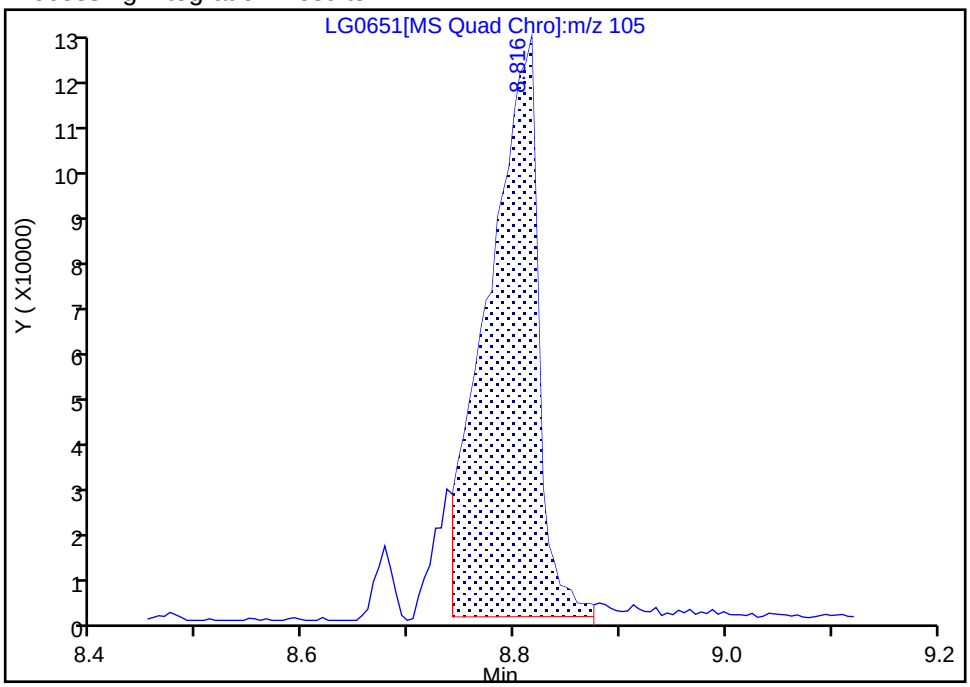
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0651.D				
Injection Date:	15-Jul-2020 13:18:15	Instrument ID:	HP20296		
Lims ID:	ICIS L5				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

50 Benzoic acid, CAS: 65-85-0

Signal: 1

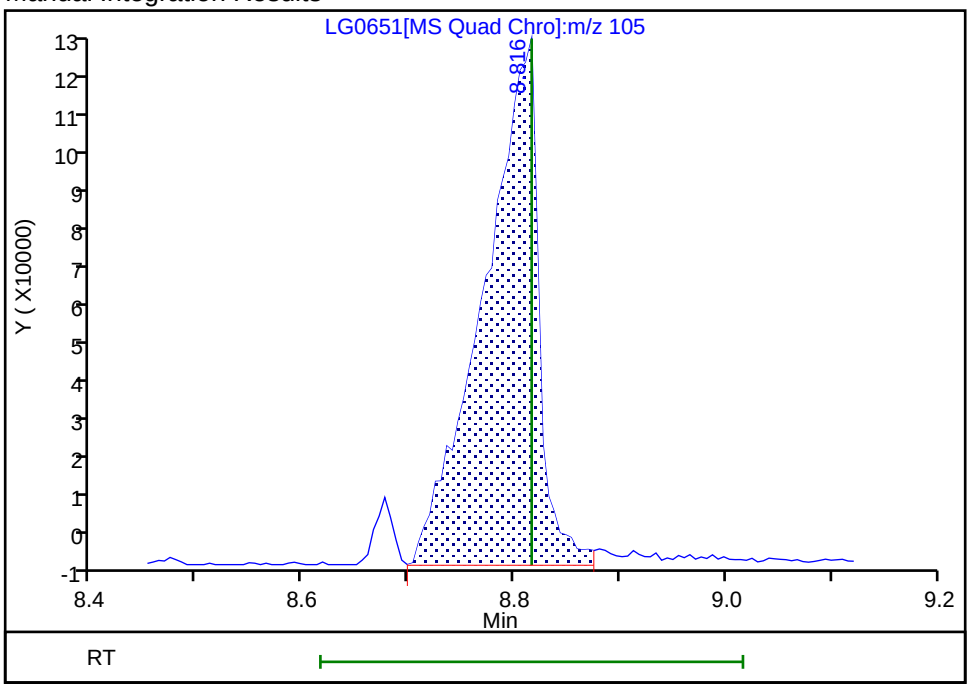
Processing Integration Results

RT: 8.82
Area: 427115
Amount: 14.813935
Amount Units: ug/ml



Manual Integration Results

RT: 8.82
Area: 471231
Amount: 10.799776
Amount Units: ug/ml



Reviewer: hartenstinel, 15-Jul-2020 15:56:29

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0652.D
Lims ID: IC L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 15-Jul-2020 13:56:59 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L1
Misc. Info.: 410-0005639-003
Operator ID: lmh00956 Instrument ID: HP20296
Sublist: chrom-MSSemi_HP20296*sub6

Method: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 15-Jul-2020 19:25:35 Calib Date: 15-Jul-2020 16:51:20
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0658.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1062

First Level Reviewer: hartenstinel Date: 15-Jul-2020 15:53:04

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	2.751	2.740	0.011	29	2583	0.1250	0.1079	
2 N-Nitrosodimethylamine	74	3.280	3.248	0.032	53	5519	0.1250	0.1491	
3 Pyridine	79	3.323	3.286	0.037	95	11175	0.1250	0.1703	
5 2-Picoline	93	4.446	4.425	0.021	91	9303	0.1250	0.1227	
6 N-Nitrosomethylethylamine	88	4.575	4.607	-0.032	4	3126	0.1250	0.1027	
9 Methyl methanesulfonate	80	5.056	5.051	0.005	80	4415	0.1250	0.1307	
$ 10 2-Fluorophenol	112	5.291	5.291	0.000	92	15823	0.2500	0.2581	
11 N-Nitrosodiethylamine	102	5.623	5.628	-0.005	90	3826	0.1250	0.1303	
13 Ethyl methanesulfonate	109	6.072	6.078	-0.006	96	4723	0.1250	0.1450	
15 Benzaldehyde	77	6.554	6.559	-0.005	94	9247	0.1250	0.1578	
$ 16 Phenol-d5	99	6.650	6.661	-0.011	95	20046	0.2500	0.2536	M
17 Phenol	94	6.671	6.677	-0.006	92	13740	0.1250	0.1541	
18 Aniline	93	6.714	6.719	-0.005	97	15947	0.1250	0.1467	
19 Bis(2-chloroethyl)ether	93	6.826	6.832	-0.006	96	10656	0.1250	0.1455	
20 2-Chlorophenol	128	6.885	6.885	0.000	94	7404	0.1250	0.1245	
22 1,3-Dichlorobenzene	146	7.126	7.121	0.005	93	8198	0.1250	0.1287	
* 24 1,4-Dichlorobenzene-d4	152	7.212	7.212	0.000	97	193135	5.00	5.00	
25 1,4-Dichlorobenzene	146	7.238	7.238	0.000	86	7738	0.1250	0.1198	
27 Benzyl alcohol	108	7.420	7.420	0.000	89	5419	0.1250	0.1194	
29 1,2-Dichlorobenzene	146	7.463	7.463	0.000	93	7804	0.1250	0.1275	
30 Indene	115	7.602	7.602	0.000	82	10587	0.1250	0.1139	
31 2-Methylphenol	108	7.591	7.602	-0.011	81	7540	0.1250	0.1254	
32 2,2'-oxybis[1-chloropropane]	45	7.656	7.650	0.006	95	10635	0.1250	0.1286	
34 N-Nitrosopyrrolidine	100	7.784	7.789	-0.005	85	3679	0.1250	0.1100	
35 Acetophenone	105	7.827	7.832	-0.005	84	13098	0.1250	0.1339	
36 4-Methylphenol	108	7.837	7.837	0.000	88	8625	0.1250	0.1361	
37 N-Nitrosodi-n-propylamine	70	7.837	7.848	-0.011	78	7735	0.1250	0.1415	
38 N-Nitrosomorpholine	56	7.843	7.859	-0.016	38	4894	0.1250	0.1319	
39 2-Toluidine	106	7.875	7.885	-0.010	95	13765	0.1250	0.1290	
40 Hexachloroethane	117	7.987	7.987	0.000	89	4224	0.1250	0.1442	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	8.057	8.062	-0.005	85	20031	0.2500	0.2558	
42 Nitrobenzene	77	8.078	8.089	-0.011	81	11830	0.1250	0.1488	
44 N-Nitrosopiperidine	114	8.319	8.324	-0.005	88	4304	0.1250	0.1412	
46 Isophorone	82	8.469	8.474	-0.006	97	19111	0.1250	0.1360	
47 2-Nitrophenol	139	8.586	8.592	-0.006	94	3066	0.1250	0.1070	
48 2,4-Dimethylphenol	107	8.677	8.677	0.000	96	8456	0.1250	0.1287	
49 o,o',o''-Triethylphosphorothioat	198	8.805	8.805	0.000	87	2892	0.1250	0.1253	
50 Benzoic acid	105	8.731	8.816	-0.085	86	38728	1.25	0.8855	M
51 Bis(2-chloroethoxy)methane	93	8.838	8.843	-0.005	96	12589	0.1250	0.1398	
S 53 Dinitrotoluene	165				0		0.2500	0.2532	
52 2,4-Dichlorophenol	162	8.961	8.971	-0.010	89	6466	0.1250	0.1459	
54 1,2,4-Trichlorobenzene	180	9.110	9.110	0.000	90	5705	0.1250	0.1246	
* 55 Naphthalene-d8	136	9.196	9.196	0.000	100	773714	5.00	5.00	
56 Naphthalene	128	9.228	9.228	0.000	96	23364	0.1250	0.1335	
57 4-Chloroaniline	127	9.319	9.324	-0.005	90	9928	0.1250	0.1421	
58 2,6-Dichlorophenol	162	9.330	9.335	-0.005	74	5523	0.1250	0.1285	
59 Hexachloropropene	213	9.372	9.383	-0.011	89	2739	0.1250	0.0999	
60 Hexachlorobutadiene	225	9.447	9.447	0.000	89	2992	0.1250	0.1245	
S 63 Diallate	86				0		0.1250	0.1446	
62 Quinoline	129	9.763	9.763	0.000	93	15596	0.1250	0.1447	
64 Caprolactam	113	9.822	9.859	-0.037	83	2848	0.1250	0.1662	
65 N-Nitrosodi-n-butylamine	84	9.891	9.902	-0.011	87	5980	0.1250	0.1067	
66 4-Chloro-3-methylphenol	107	10.116	10.127	-0.011	93	8811	0.1250	0.1532	
67 Safrole, Total	162	10.228	10.234	-0.006	79	4637	0.1250	0.1183	
69 2-Methylnaphthalene	142	10.357	10.357	0.000	91	13974	0.1250	0.1261	
70 1-Methylnaphthalene	142	10.512	10.517	-0.005	88	13460	0.1250	0.1279	
71 Hexachlorocyclopentadiene	237	10.619	10.624	-0.005	72	3002	0.1250	0.1178	
72 1,2,4,5-Tetrachlorobenzene	216	10.629	10.629	0.000	91	5554	0.1250	0.1414	
73 Isosafrole Peak 1	162	10.715	10.715	0.000	1	490	0.0200	0.0110	M
74 2,4,6-Trichlorophenol	196	10.817	10.822	-0.005	84	3739	0.1250	0.1327	
75 2,4,5-Trichlorophenol	196	10.859	10.870	-0.011	86	3608	0.1250	0.1210	
$ 76 2-Fluorobiphenyl (Surr)	172	10.972	10.977	-0.005	98	27284	0.2500	0.2503	
77 Isosafrole Peak 2	162	11.079	11.084	-0.005	91	5940	0.1050	0.1259	
79 1,1'-Biphenyl	154	11.132	11.132	0.000	95	16483	0.1250	0.1311	
80 2-Chloronaphthalene	162	11.148	11.148	0.000	95	12731	0.1250	0.1284	
81 1-Chloronaphthalene	162	11.175	11.180	-0.005	91	10451	0.1250	0.1185	
82 Phenyl ether	170	11.309	11.314	-0.005	83	7729	0.1250	0.1233	
83 2-Nitroaniline	138	11.309	11.319	-0.010	67	3518	0.1250	0.1037	
84 1,4-Naphthoquinone	158	11.432	11.437	-0.005	85	4371	0.1250	0.1079	
85 1,4-Dinitrobenzene	168	11.544	11.549	-0.005	82	1702	0.1250	0.1135	
86 Dimethyl phthalate	163	11.635	11.640	-0.005	95	14283	0.1250	0.1303	
87 1,3-Dinitrobenzene	168	11.656	11.656	0.000	80	2541	0.1250	0.1499	
88 2,6-Dinitrotoluene	165	11.710	11.715	-0.005	83	3001	0.1250	0.1245	
90 Acenaphthylene	152	11.790	11.795	-0.005	97	17282	0.1250	0.1214	
91 3-Nitroaniline	138	11.940	11.940	0.000	85	3519	0.1250	0.1240	
* 92 Acenaphthene-d10	164	11.999	11.999	0.000	97	347487	5.00	5.00	
93 Acenaphthene	153	12.041	12.041	0.000	97	13718	0.1250	0.1304	
94 2,4-Dinitrophenol	184	12.084	12.090	-0.006	76	10675	1.13	0.8213	
96 4-Nitrophenol	109	12.175	12.180	-0.005	89	10111	0.6250	0.4874	
98 Pentachlorobenzene	250	12.223	12.223	0.000	91	5015	0.1250	0.1480	
99 2,4-Dinitrotoluene	165	12.266	12.271	-0.005	83	4261	0.1250	0.1287	
100 Dibenzofuran	168	12.277	12.277	0.000	96	17857	0.1250	0.1350	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 1-Naphthylamine	143	12.378	12.378	0.000	93	13310	0.1250	0.1249	
102 2,3,4,6-Tetrachlorophenol	232	12.432	12.437	-0.005	76	2300	0.1250	0.1077	
103 2-Naphthylamine	143	12.475	12.480	-0.005	98	15952	0.1250	0.1495	
104 Diethyl phthalate	149	12.603	12.608	-0.005	96	14157	0.1250	0.1224	
106 Thionazin	107	12.699	12.705	-0.006	73	4132	0.1250	0.1780	
105 Fluorene	166	12.715	12.715	0.000	96	15876	0.1250	0.1444	
107 N-Nitro-o-toluidine	152	12.721	12.731	-0.010	71	3961	0.1250	0.1238	
108 4-Chlorophenyl phenyl ether	204	12.731	12.737	-0.006	73	6656	0.1250	0.1472	
109 4-Nitroaniline	138	12.726	12.737	-0.011	72	3812	0.1250	0.1226	
110 4,6-Dinitro-2-methylphenol	198	12.780	12.785	-0.005	58	6717	0.6250	0.4174	
111 N-Nitrosodiphenylamine	169	12.876	12.881	-0.005	63	13165	0.1250	0.1458	
112 1,2-Diphenylhydrazine	77	12.929	12.929	0.000	41	20278	0.1250	0.1307	
$ 113 2,4,6-Tribromophenol	330	13.015	13.020	-0.005	82	3105	0.2500	0.2247	
114 Sulfotepp	97	13.111	13.111	0.000	77	4265	0.1250	0.1654	
115 cis-Diallate	86	13.261	13.266	-0.005	76	6807	0.0925	0.1080	
116 Phorate	75	13.272	13.272	0.000	93	13846	0.1250	0.1421	
117 Phenacetin	108	13.272	13.282	-0.010	71	9587	0.1250	0.1336	
118 4-Bromophenyl phenyl ether	248	13.352	13.357	-0.005	41	3285	0.1250	0.1301	M
119 trans-Diallate	86	13.379	13.379	0.000	31	2356	0.0325	0.0366	M
120 Hexachlorobenzene	284	13.421	13.416	0.005	79	3206	0.1250	0.1164	
121 Dimethoate	87	13.469	13.480	-0.011	95	7286	0.1250	0.1134	
122 Atrazine	200	13.576	13.582	-0.006	75	3756	0.1250	0.1392	
123 Pentachlorophenol	266	13.678	13.678	0.000	85	2589	0.1250	0.1430	
124 4-Aminobiphenyl	169	13.683	13.689	-0.006	93	10452	0.1250	0.1223	
125 Pentachloronitrobenzene	237	13.678	13.699	-0.021	49	1691	0.1250	0.1314	
126 Pronamide	173	13.780	13.785	-0.005	88	6615	0.1250	0.1266	
* 127 Phenanthrene-d10	188	13.929	13.935	-0.006	96	648168	5.00	5.00	
128 Dinoseb	211	13.935	13.940	-0.005	60	2272	0.1250	0.0963	
129 Phenanthrene	178	13.967	13.967	0.000	95	19996	0.1250	0.1269	
130 Anthracene	178	14.031	14.036	-0.005	98	20539	0.1250	0.1285	
131 Carbazole	167	14.250	14.256	-0.006	95	20752	0.1250	0.1385	
132 Methyl parathion	109	14.459	14.459	0.000	88	5582	0.1250	0.1098	
133 Di-n-butyl phthalate	149	14.769	14.775	-0.006	99	26251	0.1250	0.1227	
134 Ethyl Parathion	109	15.021	15.031	-0.010	80	2943	0.1250	0.0951	
135 4-Nitroquinoline-1-oxide	190	15.042	15.053	-0.011	82	2143	0.1250	0.1130	
136 Octachlorostyrene	308	15.406	15.406	0.000	78	1661	0.1250	0.1285	
137 Isodrin	193	15.465	15.465	0.001	73	2964	0.1250	0.1565	
138 Fluoranthene	202	15.689	15.694	-0.005	98	20542	0.1250	0.1267	
139 Benzidine	184	15.908	15.919	-0.011	98	152122	1.00	1.28	
* 140 Pyrene-d10 (IS)	212	16.021	16.021	0.000	98	632233	5.00	5.00	
141 Pyrene	202	16.048	16.053	-0.005	94	24277	0.1250	0.1381	
$ 142 p-Terphenyl-d14	244	16.326	16.331	-0.005	96	30301	0.2500	0.2650	
143 p-Dimethylamino azobenzene	225	16.566	16.566	0.000	90	2998	0.1250	0.1108	
144 Chlorobenzilate	139	16.652	16.657	-0.005	78	7289	0.1250	0.1086	
145 3,3'-Dimethylbenzidine	212	17.139	17.144	-0.005	96	14870	0.1250	0.1320	
146 Butyl benzyl phthalate	149	17.192	17.197	-0.005	92	11092	0.1250	0.1159	
147 2-Acetylaminofluorene	181	17.567	17.577	-0.010	94	7734	0.1250	0.1056	
148 3,3'-Dichlorobenzidine	252	18.085	18.101	-0.016	77	6664	0.1250	0.1159	
150 4,4'-Methylene bis(2-chloroanil	231	18.107	18.117	-0.010	66	3574	0.1250	0.1188	
149 Benzo[a]anthracene	228	18.117	18.123	-0.006	97	18032	0.1250	0.1232	
151 Chrysene	228	18.182	18.187	-0.005	95	18088	0.1250	0.1234	
152 Bis(2-ethylhexyl) phthalate	149	18.278	18.283	-0.005	96	16568	0.1250	0.1150	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
153 6-Methylchrysene	242	19.000	19.005	-0.005	96	12757	0.1250	0.1254	
154 Di-n-octyl phthalate	149	19.460	19.465	-0.005	99	25226	0.1250	0.1013	
155 Benzo[b]fluoranthene	252	20.006	20.016	-0.010	95	18584	0.1250	0.1230	
156 7,12-Dimethylbenz(a)anthracene	256	20.006	20.016	-0.010	67	8256	0.1250	0.1297	
157 Benzo[k]fluoranthene	252	20.048	20.070	-0.022	95	17557	0.1250	0.1208	
158 Benzo[a]pyrene	252	20.546	20.556	-0.010	83	16784	0.1250	0.1191	
* 159 Perylene-d12	264	20.642	20.647	-0.005	95	591353	5.00	5.00	
160 3-Methylcholanthrene	268	21.123	21.134	-0.011	90	7477	0.1250	0.1073	
161 Dibenz[a,h]acridine	279	21.963	21.974	-0.011	88	12932	0.1250	0.1188	
162 Dibenz[a,j]acridine	279	22.038	22.054	-0.016	93	15293	0.1250	0.1375	
163 Indeno[1,2,3-cd]pyrene	276	22.327	22.343	-0.016	94	16520	0.1250	0.1258	M
164 Dibenz(a,h)anthracene	278	22.375	22.386	-0.011	87	15006	0.1250	0.1140	
165 Benzo[g,h,i]perylene	276	22.771	22.792	-0.021	96	18392	0.1250	0.1378	
S 166 Isosafrole	162				0		0.1250	0.1369	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_1_00007 Amount Added: 1.00 Units: mL

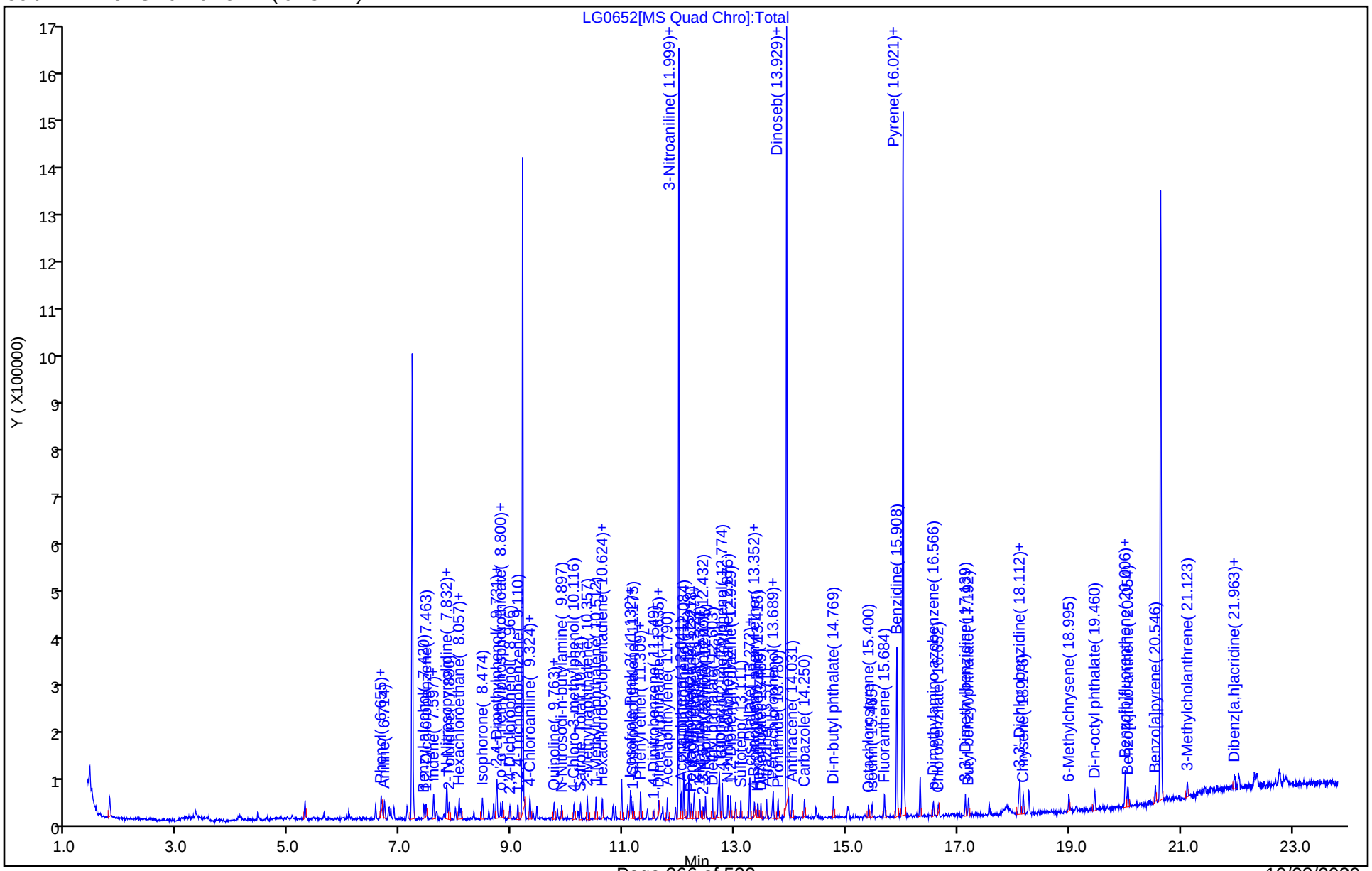
Report Date: 15-Jul-2020 19:25:38 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0652.D

Injection Date:	15-Jul-2020 13:56:59	Instrument ID:	HP20296	Operator ID:	lmh00956
Lims ID:	IC L1			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

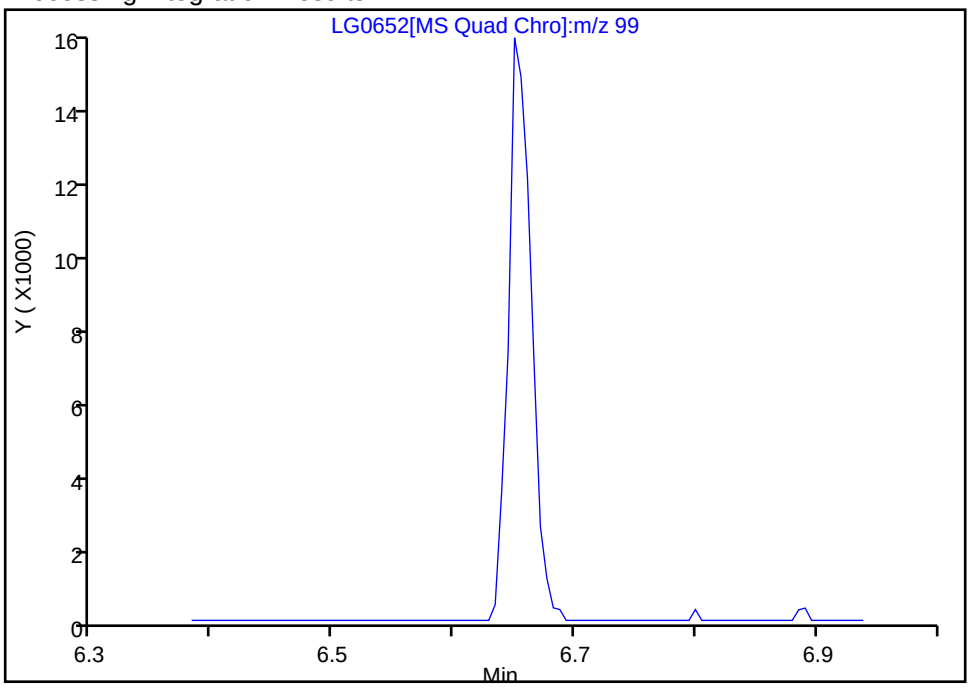
Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0652.D
Injection Date: 15-Jul-2020 13:56:59 Instrument ID: HP20296
Lims ID: IC L1
Client ID:
Operator ID: lmh00956 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

$ 16 Phenol-d5, CAS: 4165-62-2

Signal: 1

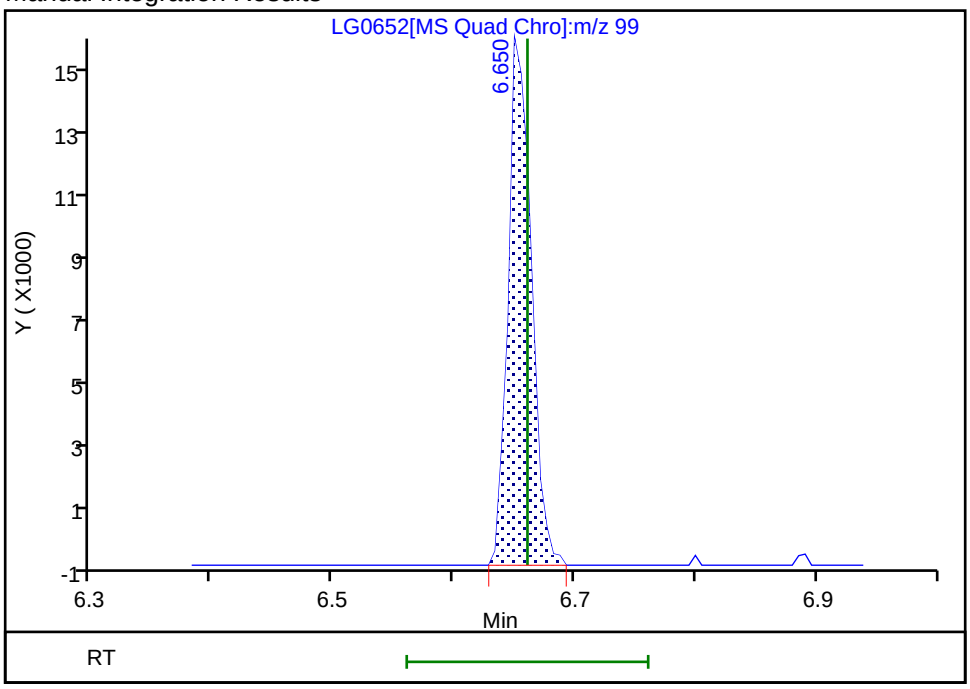
Not Detected
Expected RT: 6.66

Processing Integration Results



Manual Integration Results

RT: 6.65
Area: 20046
Amount: 0.253611
Amount Units: ug/ml



Reviewer: hartenstinel, 15-Jul-2020 15:59:52
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

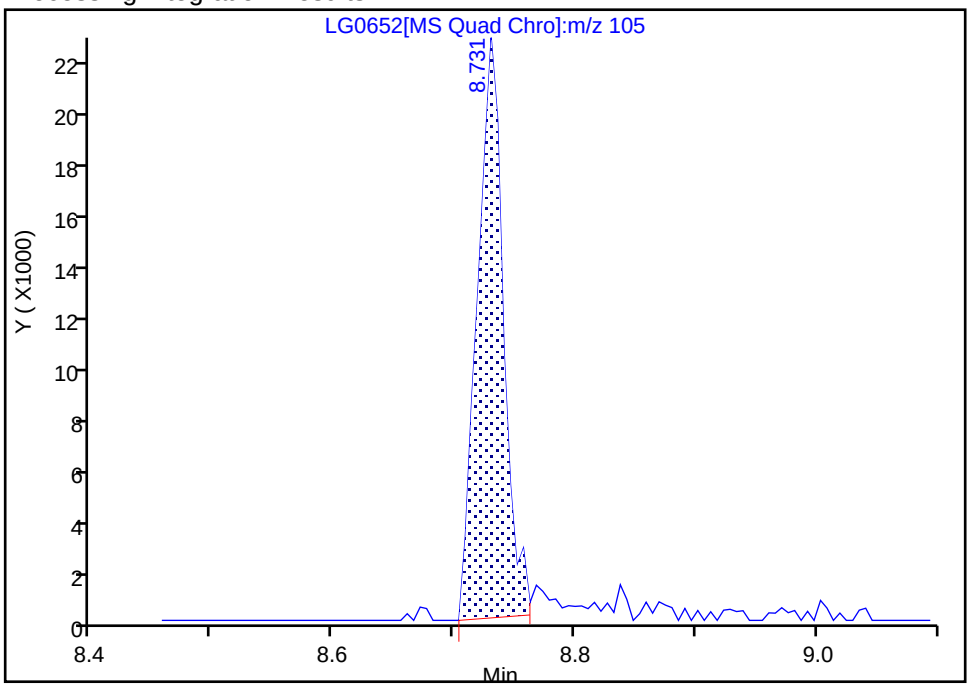
Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0652.D
Injection Date: 15-Jul-2020 13:56:59 Instrument ID: HP20296
Lims ID: IC L1
Client ID:
Operator ID: lmh00956 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

50 Benzoic acid, CAS: 65-85-0

Signal: 1

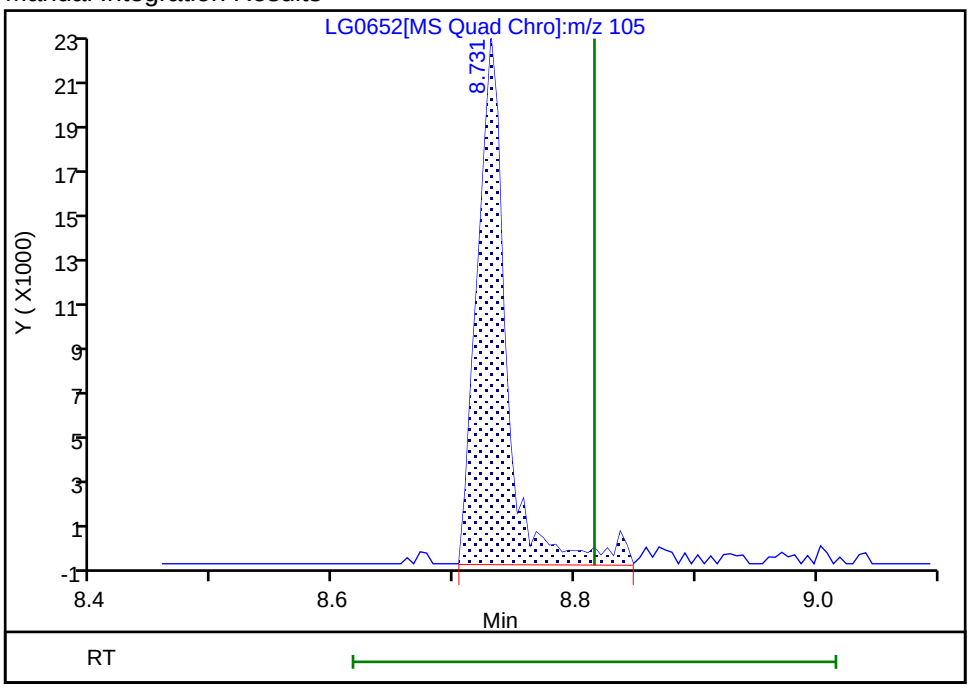
Processing Integration Results

RT: 8.73
Area: 34223
Amount: 1.282182
Amount Units: ug/ml



Manual Integration Results

RT: 8.73
Area: 38728
Amount: 0.885498
Amount Units: ug/ml



Reviewer: hartenstinel, 15-Jul-2020 16:00:23
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

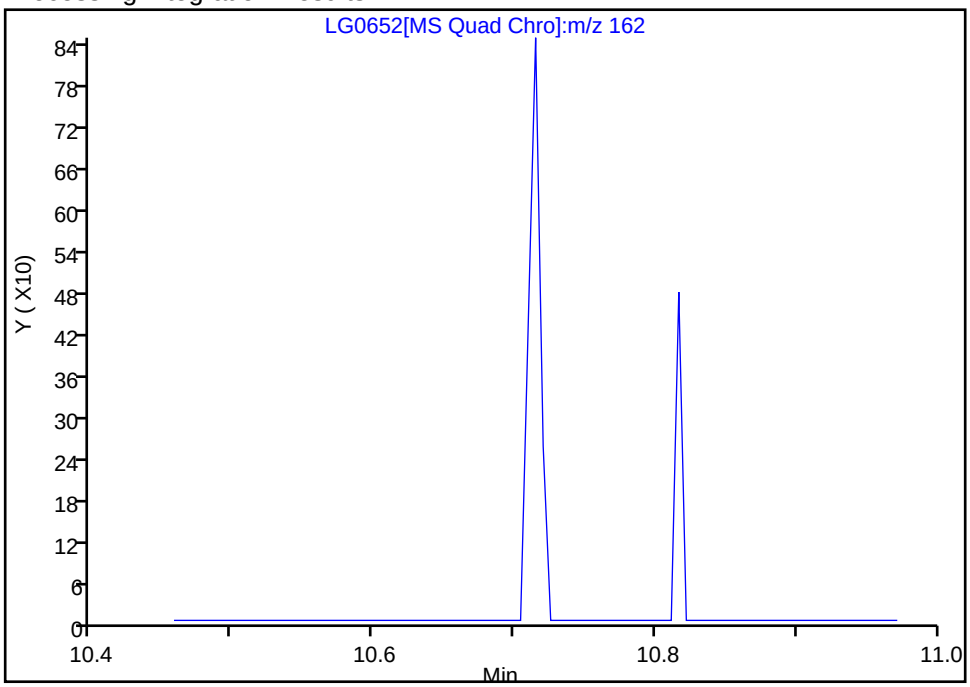
Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0652.D
Injection Date: 15-Jul-2020 13:56:59 Instrument ID: HP20296
Lims ID: IC L1
Client ID:
Operator ID: lmh00956 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

73 Isosafrole Peak 1, CAS: 120-58-1

Signal: 1

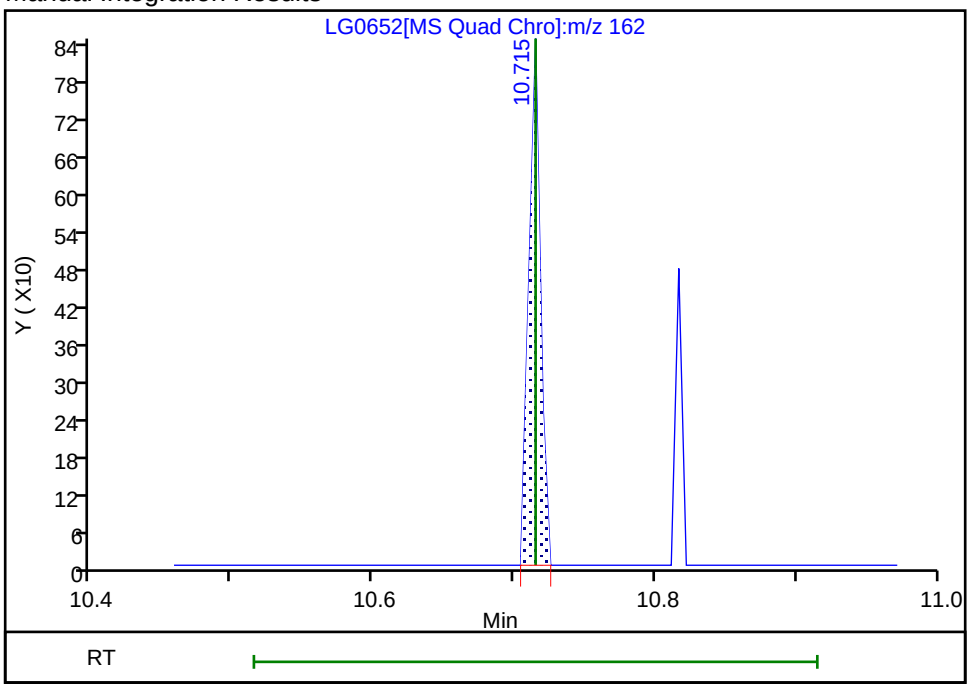
Not Detected
Expected RT: 10.71

Processing Integration Results



Manual Integration Results

RT: 10.71
Area: 490
Amount: 0.010970
Amount Units: ug/ml



Reviewer: hartenstinel, 15-Jul-2020 16:00:58
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

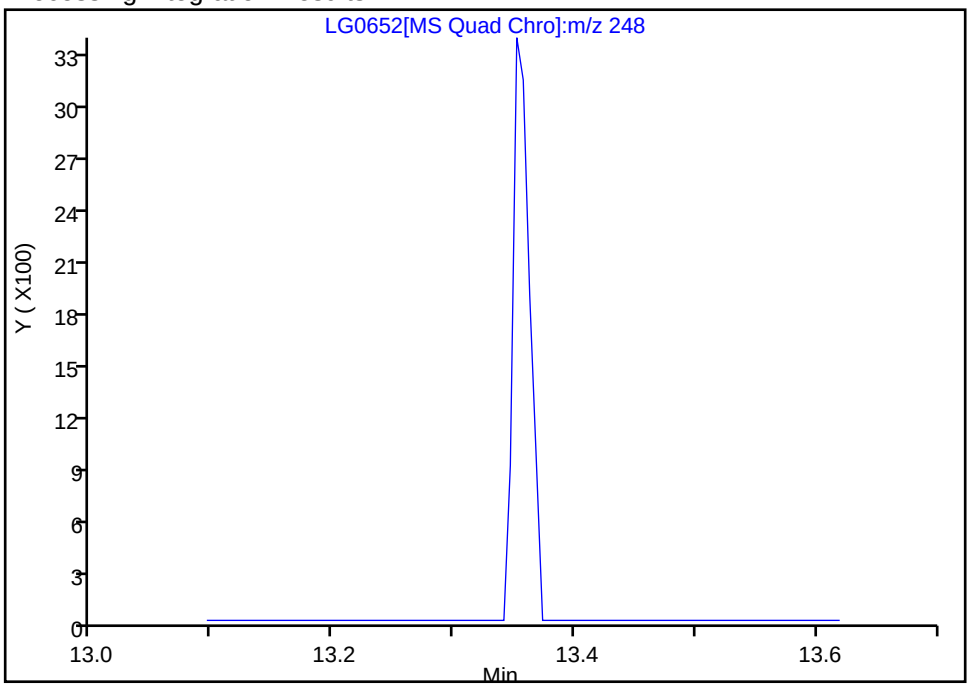
Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0652.D
Injection Date: 15-Jul-2020 13:56:59 Instrument ID: HP20296
Lims ID: IC L1
Client ID:
Operator ID: lmh00956 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

118 4-Bromophenyl phenyl ether, CAS: 101-55-3

Signal: 1

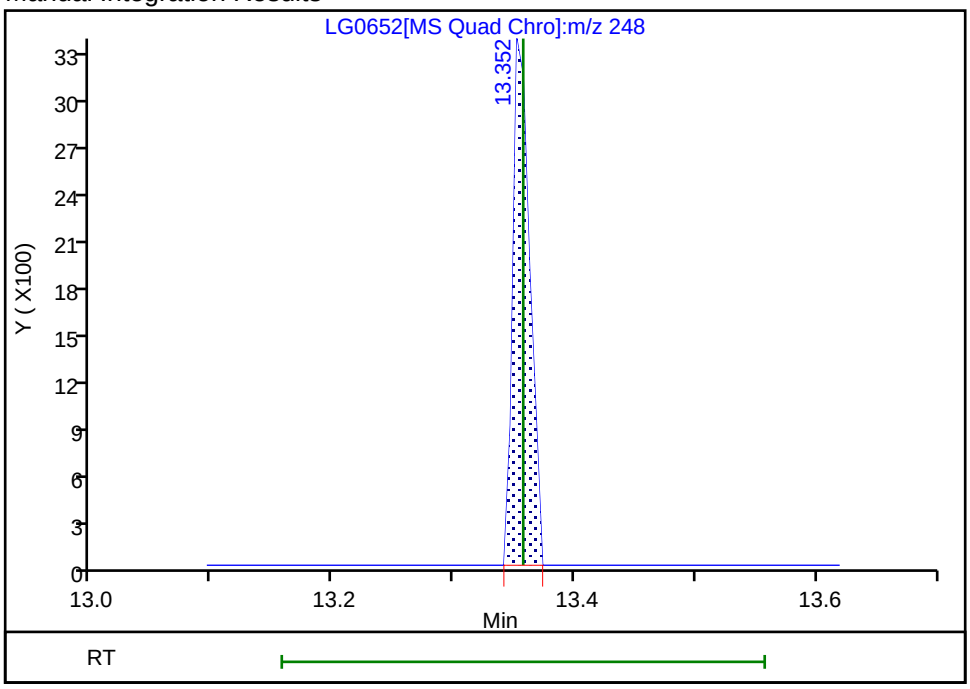
Not Detected
Expected RT: 13.36

Processing Integration Results



Manual Integration Results

RT: 13.35
Area: 3285
Amount: 0.130124
Amount Units: ug/ml



Reviewer: hartenstinel, 15-Jul-2020 16:01:30
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

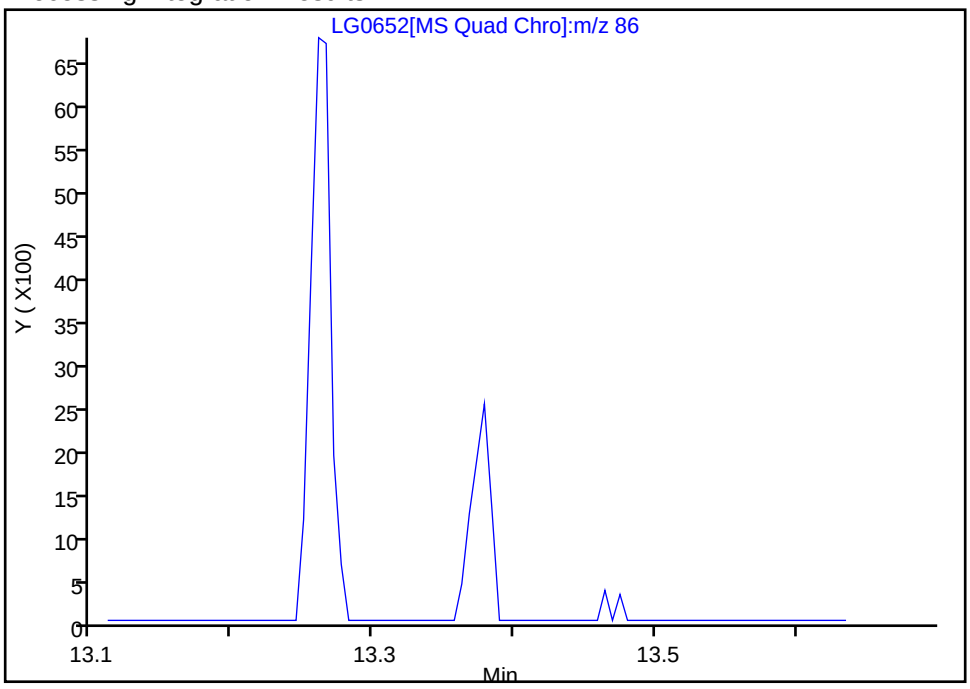
Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0652.D
Injection Date: 15-Jul-2020 13:56:59 Instrument ID: HP20296
Lims ID: IC L1
Client ID:
Operator ID: lmh00956 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

119 trans-Diallate, CAS: 17708-58-6

Signal: 1

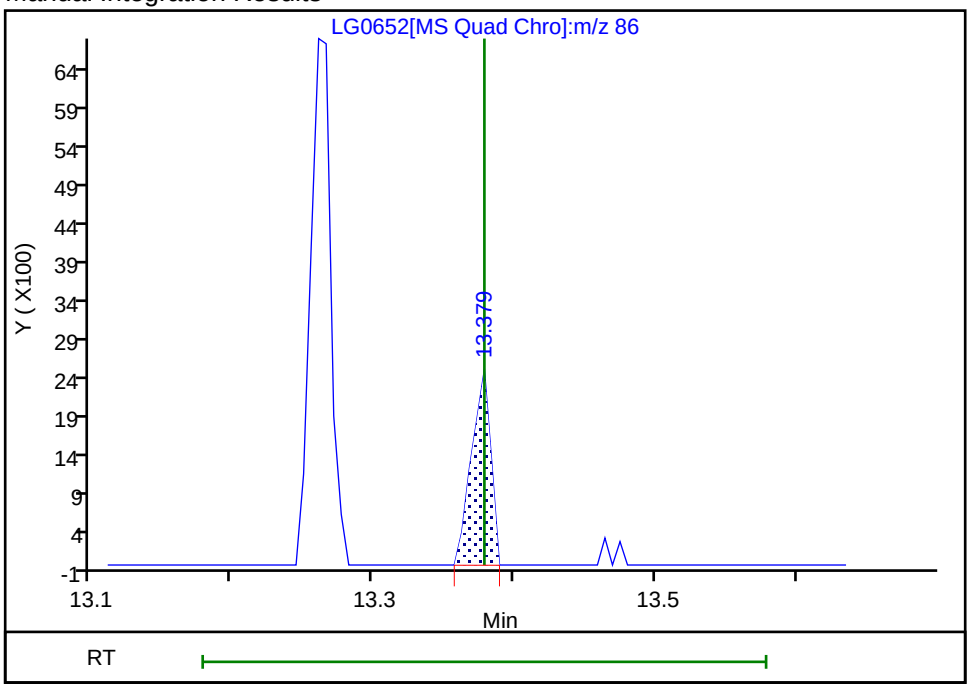
Not Detected
Expected RT: 13.38

Processing Integration Results



Manual Integration Results

RT: 13.38
Area: 2356
Amount: 0.036611
Amount Units: ug/ml



Reviewer: hartenstinel, 15-Jul-2020 16:01:42
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

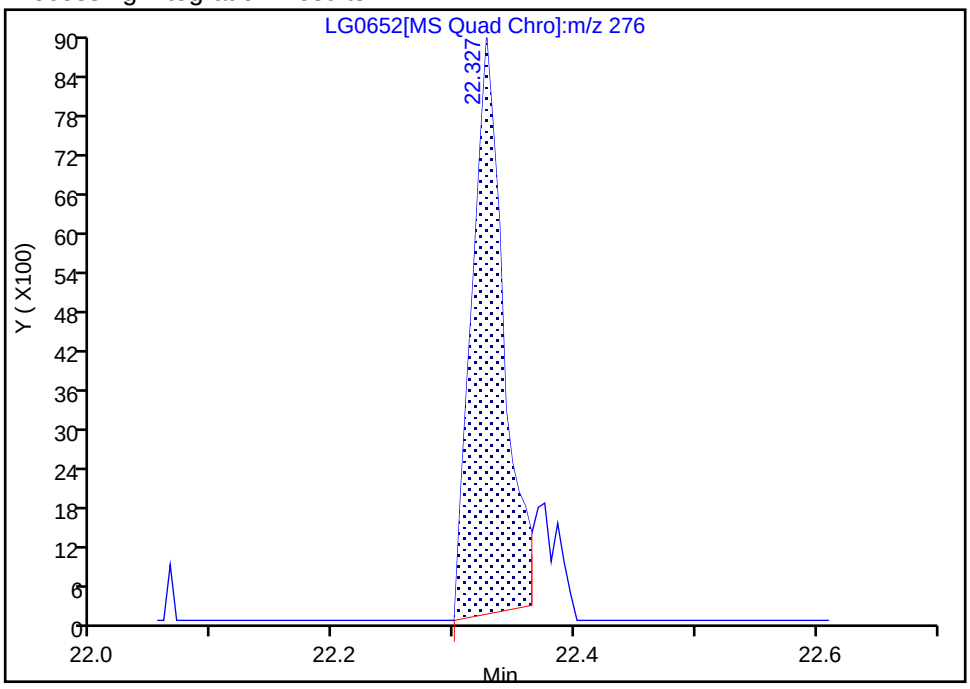
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0652.D				
Injection Date:	15-Jul-2020 13:56:59	Instrument ID:	HP20296		
Lims ID:	IC L1				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

163 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

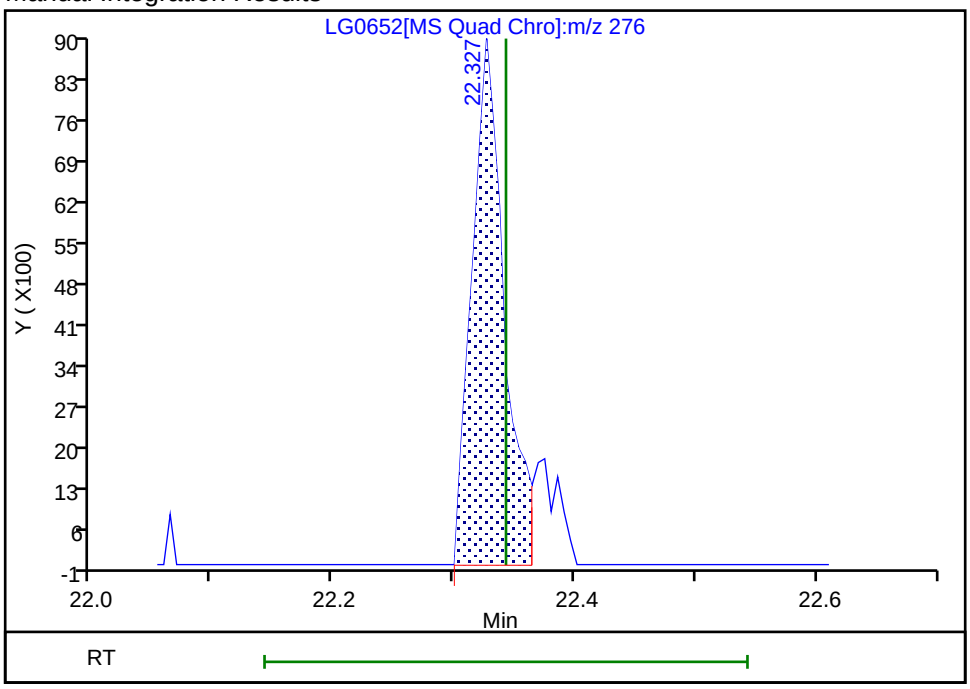
Processing Integration Results

RT: 22.33
Area: 16033
Amount: 0.112749
Amount Units: ug/ml



Manual Integration Results

RT: 22.33
Area: 16520
Amount: 0.125792
Amount Units: ug/ml



Reviewer: hartenstinel, 15-Jul-2020 16:02:18

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0653.D
Lims ID: IC L8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 15-Jul-2020 14:26:04 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L8
Misc. Info.: 410-0005639-004
Operator ID: lmh00956 Instrument ID: HP20296
Sublist: chrom-MSSemi_HP20296*sub6

Method: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 15-Jul-2020 19:25:44 Calib Date: 15-Jul-2020 16:51:20
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0658.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1062

First Level Reviewer: hartenstinel Date: 15-Jul-2020 15:49:30

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	2.745	2.740	0.005	92	807956	30.0	34.9	
2 N-Nitrosodimethylamine	74	3.270	3.248	0.022	88	1317818	30.0	36.8	
3 Pyridine	79	3.291	3.286	0.005	96	2210689	30.0	34.8	
5 2-Picoline	93	4.436	4.425	0.011	93	2308780	30.0	31.5	
6 N-Nitrosomethylethylamine	88	4.617	4.607	0.010	83	932280	30.0	31.7	
9 Methyl methanesulfonate	80	5.072	5.051	0.021	84	937938	30.0	28.7	
$ 10 2-Fluorophenol	112	5.313	5.291	0.022	94	3691801	60.0	62.2	
11 N-Nitrosodiethylamine	102	5.644	5.628	0.016	96	912374	30.0	32.1	
13 Ethyl methanesulfonate	109	6.099	6.078	0.021	97	1010729	30.0	32.1	
15 Benzaldehyde	77	6.564	6.559	0.005	95	1583576	30.0	27.9	
$ 16 Phenol-d5	99	6.687	6.661	0.026	97	4757697	60.0	62.2	
17 Phenol	94	6.703	6.677	0.026	98	2796255	30.0	32.4	
18 Aniline	93	6.730	6.719	0.011	98	3330216	30.0	31.7	
19 Bis(2-chloroethyl)ether	93	6.842	6.832	0.010	95	2156287	30.0	30.4	
20 2-Chlorophenol	128	6.896	6.885	0.011	96	1780907	30.0	31.0	
22 1,3-Dichlorobenzene	146	7.131	7.121	0.010	95	1842508	30.0	29.9	
* 24 1,4-Dichlorobenzene-d4	152	7.217	7.212	0.005	97	186875	5.00	5.00	
25 1,4-Dichlorobenzene	146	7.244	7.238	0.006	90	1884765	30.0	30.2	
27 Benzyl alcohol	108	7.442	7.420	0.022	91	1367536	30.0	31.1	
29 1,2-Dichlorobenzene	146	7.468	7.463	0.005	94	1800038	30.0	30.4	
30 Indene	115	7.607	7.602	0.005	87	2739107	30.0	30.5	
31 2-Methylphenol	108	7.613	7.602	0.011	90	1800514	30.0	30.9	
32 2,2'-oxybis[1-chloropropane]	45	7.661	7.650	0.011	95	2430414	30.0	30.4	
34 N-Nitrosopyrrolidine	100	7.827	7.789	0.038	93	997135	30.0	30.8	a
35 Acetophenone	105	7.848	7.832	0.016	95	2898897	30.0	30.6	
36 4-Methylphenol	108	7.864	7.837	0.027	94	1863285	30.0	30.4	
37 N-Nitrosodi-n-propylamine	70	7.880	7.848	0.032	83	1667271	30.0	31.5	
38 N-Nitrosomorpholine	56	7.880	7.859	0.021	88	1057823	30.0	29.5	
39 2-Toluidine	106	7.902	7.885	0.017	94	3107327	30.0	30.1	
40 Hexachloroethane	117	7.992	7.987	0.005	93	856077	30.0	30.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	8.078	8.062	0.016	86	4781897	60.0	60.2	
42 Nitrobenzene	77	8.105	8.089	0.016	83	2422758	30.0	30.1	
44 N-Nitrosopiperidine	114	8.340	8.324	0.016	89	949556	30.0	30.7	
46 Isophorone	82	8.490	8.474	0.016	98	4324367	30.0	30.4	
47 2-Nitrophenol	139	8.602	8.592	0.010	97	884363	30.0	30.5	
48 2,4-Dimethylphenol	107	8.688	8.677	0.011	98	2012207	30.0	30.2	
49 o,o',o''-Triethylphosphorothioat	198	8.816	8.805	0.011	92	703800	30.0	30.1	
50 Benzoic acid	105	8.896	8.816	0.080	88	1243453	30.0	28.1	M
51 Bis(2-chloroethoxy)methane	93	8.854	8.843	0.011	98	2604569	30.0	28.5	
S 53 Dinitrotoluene	165				0		60.0	61.7	
52 2,4-Dichlorophenol	162	8.982	8.971	0.011	97	1382748	30.0	30.8	
54 1,2,4-Trichlorobenzene	180	9.116	9.110	0.006	93	1368771	30.0	29.5	
* 55 Naphthalene-d8	136	9.201	9.196	0.005	100	784151	5.00	5.00	
56 Naphthalene	128	9.239	9.228	0.011	98	5236874	30.0	29.5	
57 4-Chloroaniline	127	9.335	9.324	0.011	94	2138555	30.0	30.2	
58 2,6-Dichlorophenol	162	9.346	9.335	0.011	93	1309133	30.0	30.1	
59 Hexachloropropene	213	9.383	9.383	0.000	93	842615	30.0	30.3	
60 Hexachlorobutadiene	225	9.453	9.447	0.006	96	722675	30.0	29.7	
S 63 Diallate	86				0		30.0	29.9	
62 Quinoline	129	9.779	9.763	0.016	95	3246609	30.0	29.7	
64 Caprolactam	113	9.929	9.859	0.070	76	526453	30.0	30.3	a
65 N-Nitrosodi-n-butylamine	84	9.913	9.902	0.011	89	1953592	30.0	34.4	
66 4-Chloro-3-methylphenol	107	10.143	10.127	0.016	93	1756446	30.0	30.1	
67 Safrole, Total	162	10.244	10.234	0.010	83	1211194	30.0	30.5	
69 2-Methylnaphthalene	142	10.367	10.357	0.010	91	3358094	30.0	29.9	
70 1-Methylnaphthalene	142	10.522	10.517	0.005	91	3172185	30.0	29.7	
71 Hexachlorocyclopentadiene	237	10.629	10.624	0.005	95	810592	30.0	30.9	
72 1,2,4,5-Tetrachlorobenzene	216	10.635	10.629	0.006	96	1227143	30.0	30.3	
73 Isosafrole Peak 1	162	10.715	10.715	0.000	83	222026	4.80	4.82	
74 2,4,6-Trichlorophenol	196	10.833	10.822	0.011	92	923894	30.0	31.8	
75 2,4,5-Trichlorophenol	196	10.886	10.870	0.016	90	953326	30.0	31.0	
$ 76 2-Fluorobiphenyl (Surr)	172	10.982	10.977	0.005	99	6898149	60.0	61.4	
77 Isosafrole Peak 2	162	11.095	11.084	0.011	87	1260436	25.2	25.9	
79 1,1'-Biphenyl	154	11.143	11.132	0.011	97	3986124	30.0	30.8	
80 2-Chloronaphthalene	162	11.159	11.148	0.011	99	3147744	30.0	30.8	
81 1-Chloronaphthalene	162	11.191	11.180	0.011	95	2656394	30.0	29.2	
82 Phenyl ether	170	11.319	11.314	0.005	87	1967301	30.0	30.4	
83 2-Nitroaniline	138	11.335	11.319	0.016	82	1083777	30.0	31.0	
84 1,4-Naphthoquinone	158	11.448	11.437	0.011	79	1277028	30.0	30.6	
85 1,4-Dinitrobenzene	168	11.565	11.549	0.016	83	477059	30.0	30.9	
86 Dimethyl phthalate	163	11.656	11.640	0.016	97	3375226	30.0	29.9	
87 1,3-Dinitrobenzene	168	11.678	11.656	0.022	83	529351	30.0	30.3	
88 2,6-Dinitrotoluene	165	11.731	11.715	0.016	89	757250	30.0	30.5	
90 Acenaphthylene	152	11.801	11.795	0.006	99	4530221	30.0	30.9	
91 3-Nitroaniline	138	11.961	11.940	0.021	93	907492	30.0	31.0	
* 92 Acenaphthene-d10	164	12.004	11.999	0.005	97	358116	5.00	5.00	
93 Acenaphthene	153	12.052	12.041	0.011	98	3268801	30.0	30.1	
94 2,4-Dinitrophenol	184	12.106	12.090	0.016	78	440203	30.0	32.9	
96 4-Nitrophenol	109	12.202	12.180	0.022	91	702056	30.0	32.8	
98 Pentachlorobenzene	250	12.229	12.223	0.006	96	1024013	30.0	29.3	
99 2,4-Dinitrotoluene	165	12.287	12.271	0.016	68	1065642	30.0	31.2	
100 Dibenzofuran	168	12.287	12.277	0.010	94	4055191	30.0	29.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 1-Naphthylamine	143	12.389	12.378	0.011	98	3462168	30.0	31.5	
102 2,3,4,6-Tetrachlorophenol	232	12.448	12.437	0.011	83	681250	30.0	31.0	
103 2-Naphthylamine	143	12.491	12.480	0.011	94	3404644	30.0	31.0	
104 Diethyl phthalate	149	12.624	12.608	0.016	97	3705882	30.0	31.1	
106 Thionazin	107	12.726	12.705	0.021	77	750739	30.0	31.4	
105 Fluorene	166	12.721	12.715	0.006	92	3322383	30.0	29.3	
107 N-Nitro-o-toluidine	152	12.753	12.731	0.022	87	1012000	30.0	30.7	
108 4-Chlorophenyl phenyl ether	204	12.737	12.737	0.000	94	1386899	30.0	29.8	
109 4-Nitroaniline	138	12.763	12.737	0.026	80	960858	30.0	30.0	
110 4,6-Dinitro-2-methylphenol	198	12.801	12.785	0.016	70	535722	30.0	30.8	
111 N-Nitrosodiphenylamine	169	12.892	12.881	0.011	64	2844194	30.0	29.1	
112 1,2-Diphenylhydrazine	77	12.940	12.929	0.011	42	4879948	30.0	29.1	a
$ 113 2,4,6-Tribromophenol	330	13.031	13.020	0.011	89	896961	60.0	63.0	
114 Sulfotepp	97	13.116	13.111	0.005	78	834942	30.0	30.0	
115 cis-Diallate	86	13.272	13.266	0.006	89	1506574	22.2	22.1	
116 Phorate	75	13.282	13.272	0.010	95	3238121	30.0	30.8	
117 Phenacetin	108	13.309	13.282	0.027	90	2367591	30.0	30.5	
118 4-Bromophenyl phenyl ether	248	13.362	13.357	0.005	74	761661	30.0	27.9	
119 trans-Diallate	86	13.379	13.379	-0.001	95	543469	7.80	7.81	
120 Hexachlorobenzene	284	13.427	13.416	0.011	90	882485	30.0	29.6	
121 Dimethoate	87	13.502	13.480	0.022	97	2112024	30.0	30.4	
122 Atrazine	200	13.592	13.582	0.010	86	766953	30.0	26.3	
123 Pentachlorophenol	266	13.689	13.678	0.011	89	610463	30.0	31.2	
124 4-Aminobiphenyl	169	13.699	13.689	0.010	92	2639869	30.0	28.6	
125 Pentachloronitrobenzene	237	13.705	13.699	0.006	81	417420	30.0	30.0	
126 Pronamide	173	13.796	13.785	0.011	90	1733642	30.0	30.7	
* 127 Phenanthrene-d10	188	13.940	13.935	0.005	96	700459	5.00	5.00	
128 Dinoseb	211	13.945	13.940	0.005	91	804667	30.0	31.6	
129 Phenanthrene	178	13.978	13.967	0.011	98	4977020	30.0	29.2	
130 Anthracene	178	14.047	14.036	0.011	99	5068601	30.0	29.3	
131 Carbazole	167	14.266	14.256	0.010	96	4870556	30.0	30.1	
132 Methyl parathion	109	14.470	14.459	0.011	88	1698059	30.0	30.9	
133 Di-n-butyl phthalate	149	14.785	14.775	0.010	100	6944101	30.0	30.0	
134 Ethyl Parathion	109	15.037	15.031	0.006	82	1027973	30.0	30.7	
135 4-Nitroquinoline-1-oxide	190	15.069	15.053	0.016	88	645333	30.0	31.5	
136 Octachlorostyrene	308	15.411	15.406	0.005	92	410900	30.0	29.4	
137 Isodrin	193	15.470	15.465	0.006	86	577260	30.0	28.2	
138 Fluoranthene	202	15.705	15.694	0.011	99	5313202	30.0	30.3	
139 Benzidine	184	15.941	15.919	0.021	99	11097442	90.0	88.5	
* 140 Pyrene-d10 (IS)	212	16.026	16.021	0.005	99	665294	5.00	5.00	
141 Pyrene	202	16.064	16.053	0.011	95	5373359	30.0	29.1	
$ 142 p-Terphenyl-d14	244	16.347	16.331	0.016	97	7179903	60.0	59.7	
143 p-Dimethylamino azobenzene	225	16.577	16.566	0.011	90	899006	30.0	31.6	
144 Chlorobenzilate	139	16.663	16.657	0.006	80	2153619	30.0	30.5	
145 3,3'-Dimethylbenzidine	212	17.155	17.144	0.011	98	3608935	30.0	30.5	
146 Butyl benzyl phthalate	149	17.208	17.197	0.011	93	3105918	30.0	30.8	
147 2-Acetylaminofluorene	181	17.599	17.577	0.022	93	2414008	30.0	31.3	
148 3,3'-Dichlorobenzidine	252	18.112	18.101	0.011	82	1848023	30.0	30.5	
150 4,4'-Methylene bis(2-chloroanil	231	18.128	18.117	0.011	93	950345	30.0	30.0	
149 Benzo[a]anthracene	228	18.133	18.123	0.010	99	4625732	30.0	30.0	
151 Chrysene	228	18.203	18.187	0.016	96	4531782	30.0	29.4	
152 Bis(2-ethylhexyl) phthalate	149	18.289	18.283	0.006	97	4639182	30.0	30.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
153 6-Methylchrysene	242	19.021	19.005	0.016	99	3209964	30.0	30.0	
154 Di-n-octyl phthalate	149	19.471	19.465	0.006	99	8233994	30.0	32.1	
155 Benzo[b]fluoranthene	252	20.038	20.016	0.022	97	4814737	30.0	30.9	
156 7,12-Dimethylbenz(a)anthracene	256	20.043	20.016	0.027	86	2085638	30.0	31.8	
157 Benzo[k]fluoranthene	252	20.091	20.070	0.021	97	4525455	30.0	30.2	
158 Benzo[a]pyrene	252	20.572	20.556	0.016	82	4489432	30.0	30.9	
* 159 Perylene-d12	264	20.653	20.647	0.006	95	608981	5.00	5.00	
160 3-Methylcholanthrene	268	21.145	21.134	0.011	94	2288807	30.0	31.9	
161 Dibenz[a,h]acridine	279	21.990	21.974	0.016	92	3442414	30.0	30.7	
162 Dibenz[a,j]acridine	279	22.075	22.054	0.021	95	3488965	30.0	30.5	
163 Indeno[1,2,3-cd]pyrene	276	22.370	22.343	0.027	97	4258795	30.0	31.5	M
164 Dibenz(a,h)anthracene	278	22.407	22.386	0.021	95	4243568	30.0	31.3	
165 Benzo[g,h,i]perylene	276	22.824	22.792	0.032	93	4085581	30.0	29.7	
S 166 Isosafrole	162				0		30.0	30.7	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSS_RV8270_8_00006 Amount Added: 1.00 Units: mL

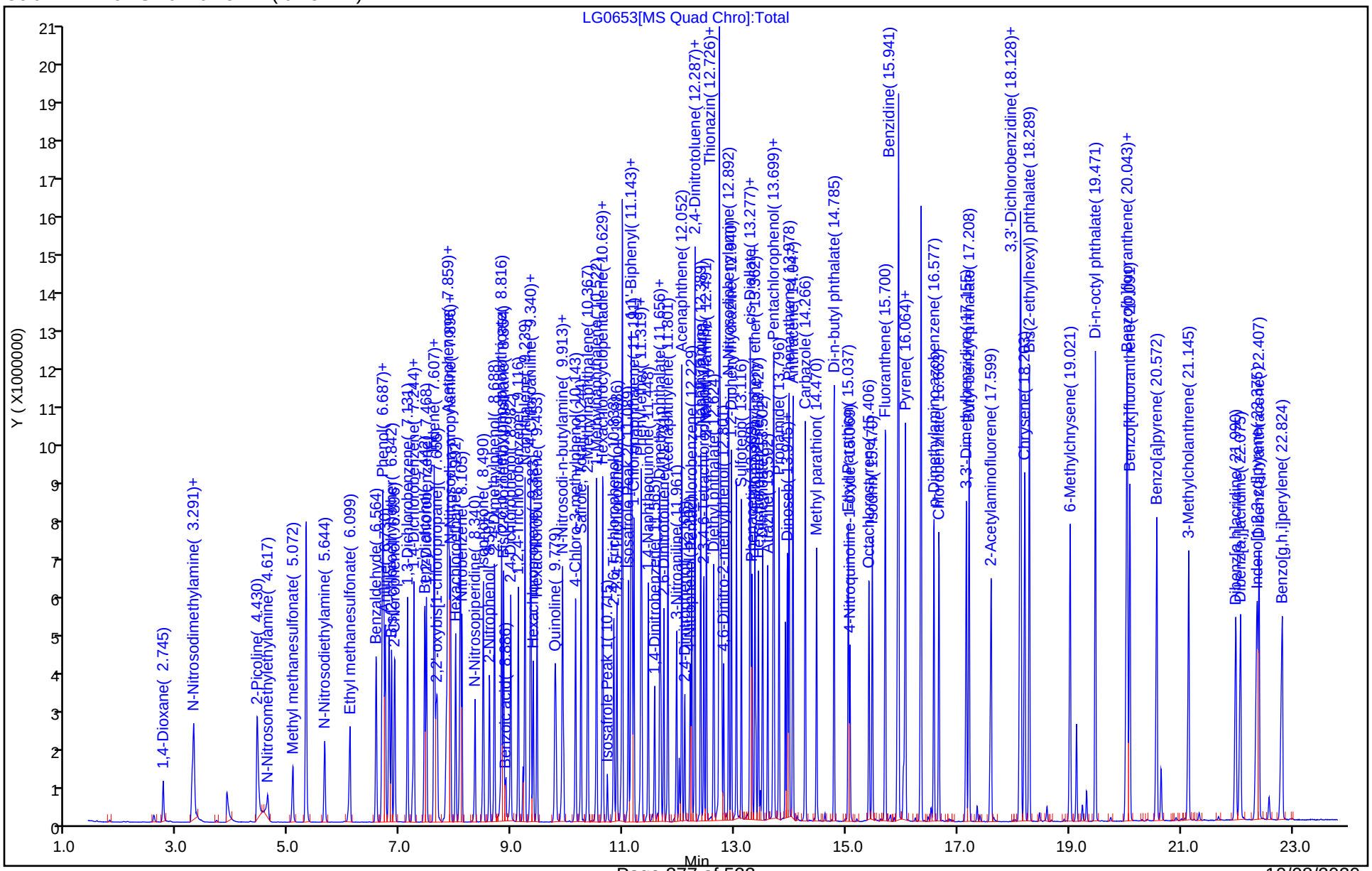
Report Date: 15-Jul-2020 19:25:48 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0653.D

Injection Date:	15-Jul-2020 14:26:04	Instrument ID:	HP20296	Operator ID:	lmh00956
Lims ID:	IC L8			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

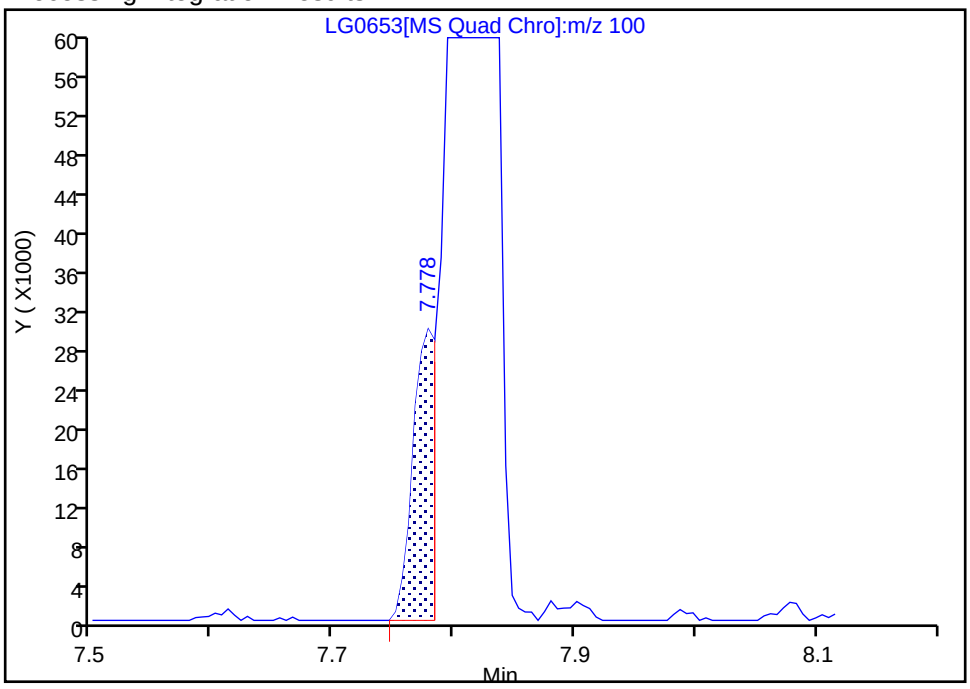
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0653.D				
Injection Date:	15-Jul-2020 14:26:04	Instrument ID:	HP20296		
Lims ID:	IC L8				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

34 N-Nitrosopyrrolidine, CAS: 930-55-2

Signal: 1

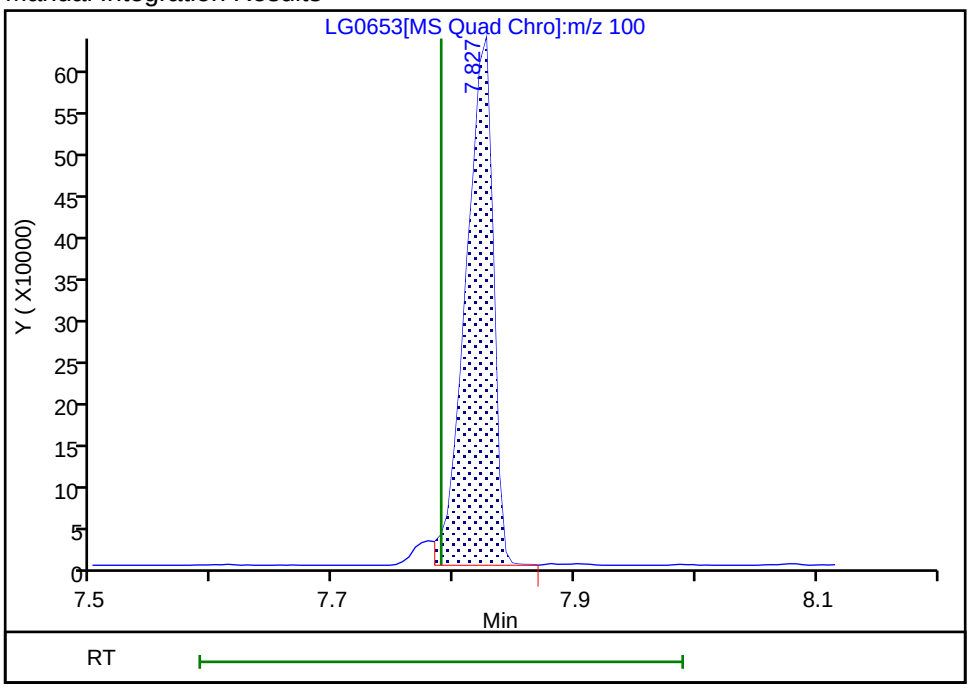
Processing Integration Results

RT: 7.78
Area: 34704
Amount: 1.287064
Amount Units: ug/ml



Manual Integration Results

RT: 7.83
Area: 997135
Amount: 30.817371
Amount Units: ug/ml



Reviewer: hartenstinel, 15-Jul-2020 16:02:52

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

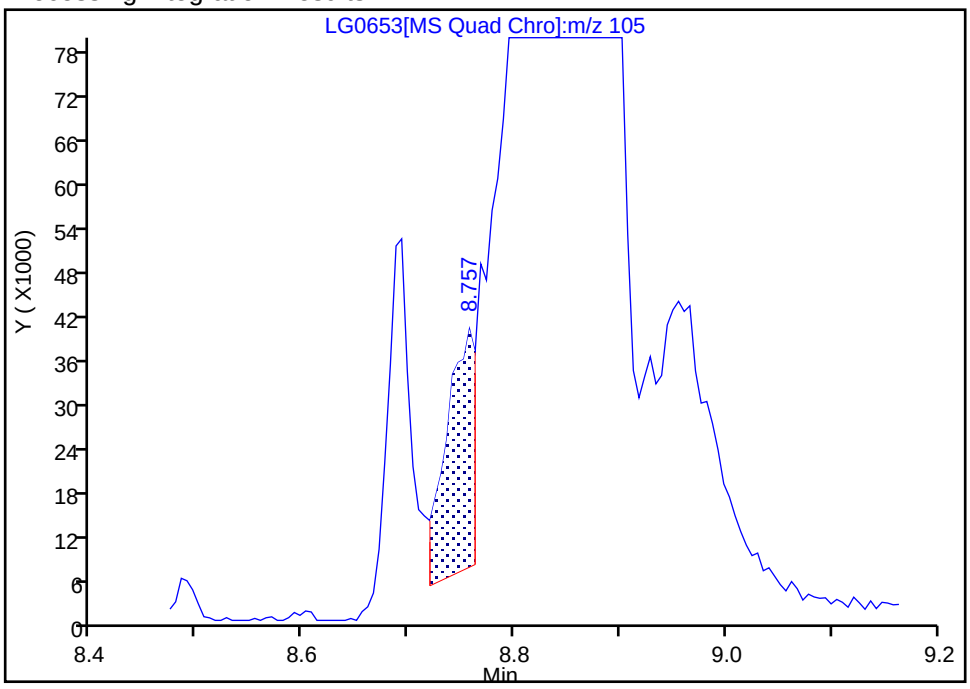
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0653.D				
Injection Date:	15-Jul-2020 14:26:04	Instrument ID:	HP20296		
Lims ID:	IC L8				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

50 Benzoic acid, CAS: 65-85-0

Signal: 1

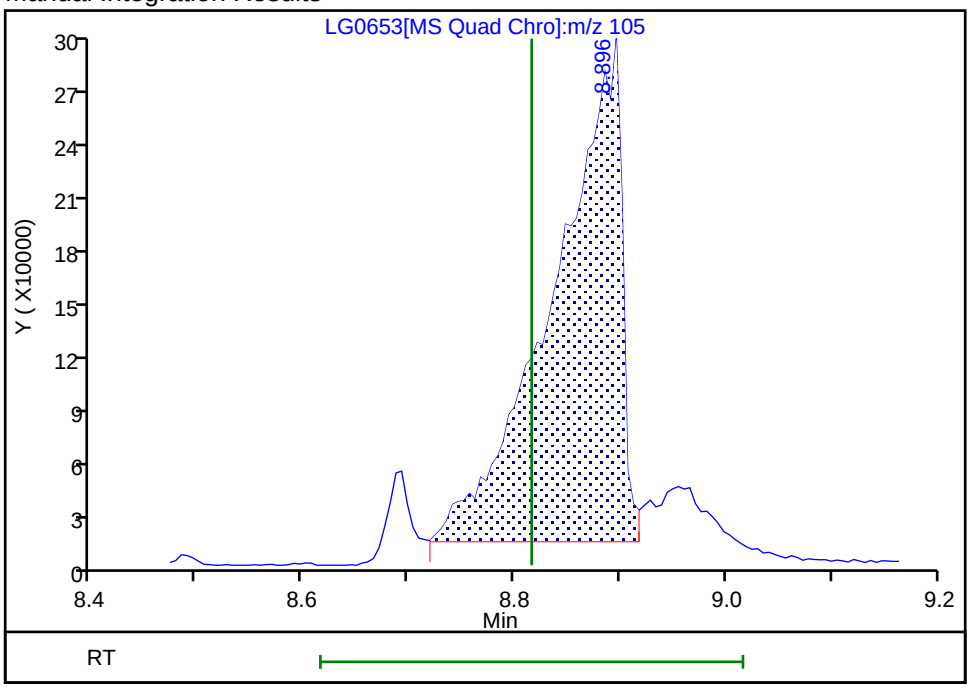
Processing Integration Results

RT: 8.76
Area: 58607
Amount: 2.166516
Amount Units: ug/ml



Manual Integration Results

RT: 8.90
Area: 1243453
Amount: 28.052576
Amount Units: ug/ml



Reviewer: hartenstinel, 15-Jul-2020 16:03:14

Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

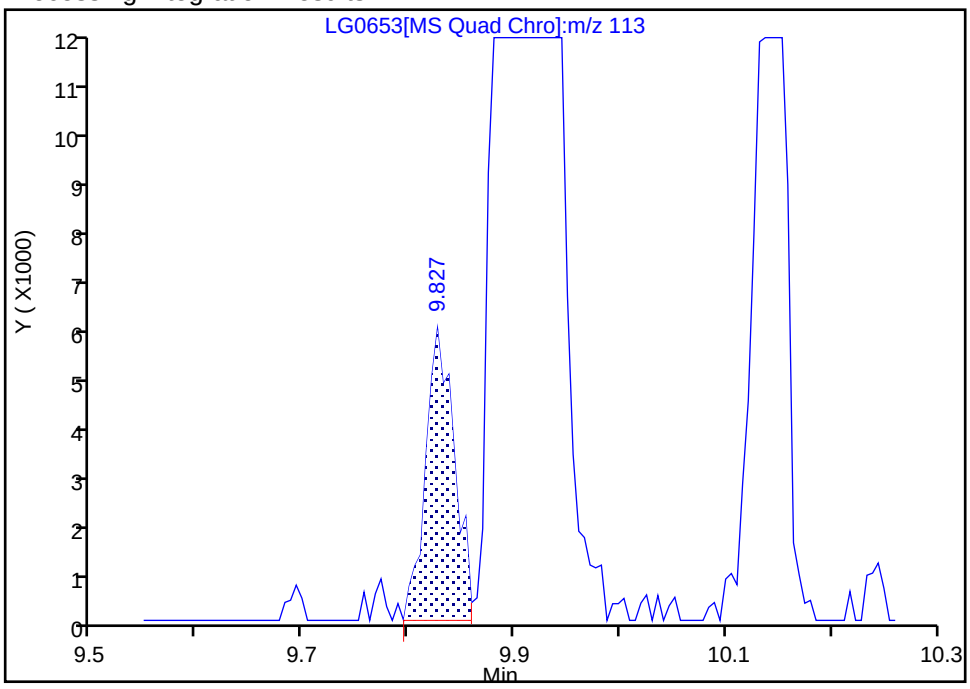
Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0653.D
Injection Date: 15-Jul-2020 14:26:04 Instrument ID: HP20296
Lims ID: IC L8
Client ID:
Operator ID: lmh00956 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

64 Caprolactam, CAS: 105-60-2

Signal: 1

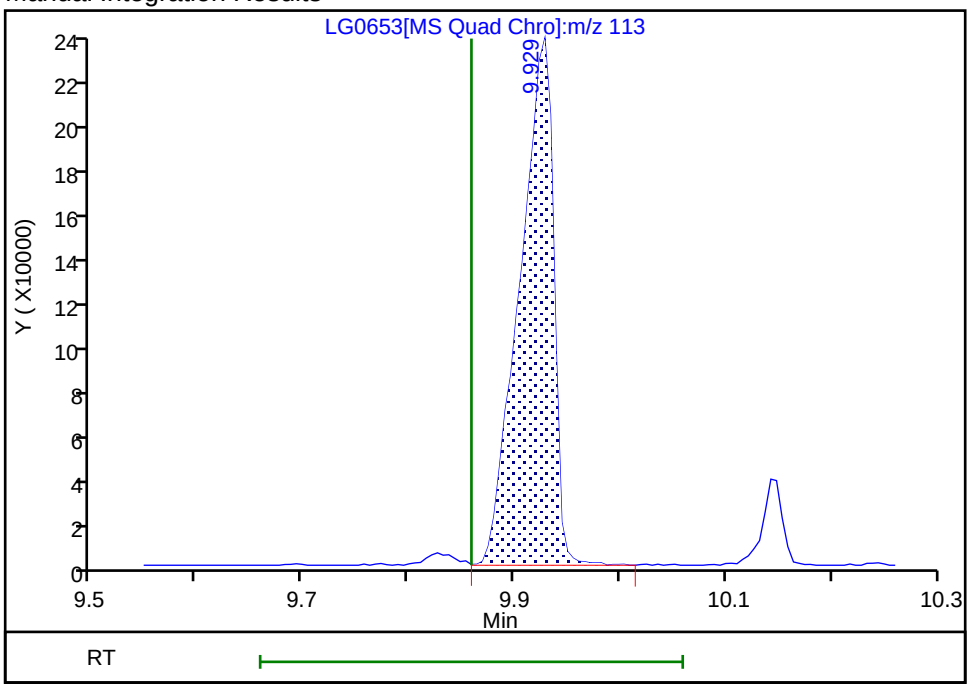
Processing Integration Results

RT: 9.83
Area: 10456
Amount: 0.725662
Amount Units: ug/ml



Manual Integration Results

RT: 9.93
Area: 526453
Amount: 30.318918
Amount Units: ug/ml



Reviewer: hartenstinel, 15-Jul-2020 16:03:24
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

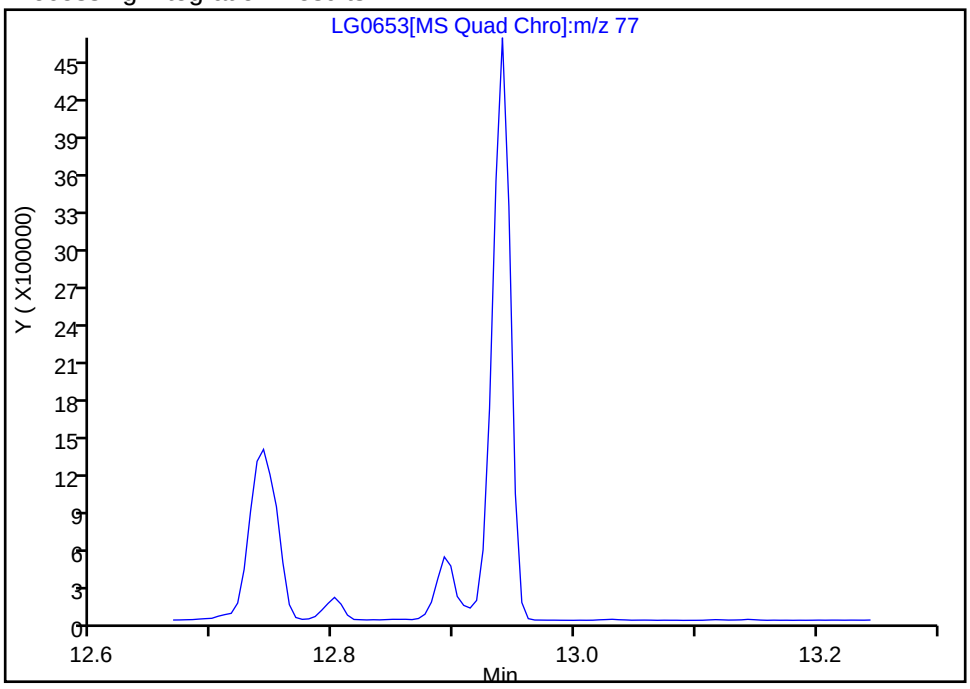
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0653.D				
Injection Date:	15-Jul-2020 14:26:04	Instrument ID:	HP20296		
Lims ID:	IC L8				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

112 1,2-Diphenylhydrazine, CAS: 122-66-7

Signal: 1

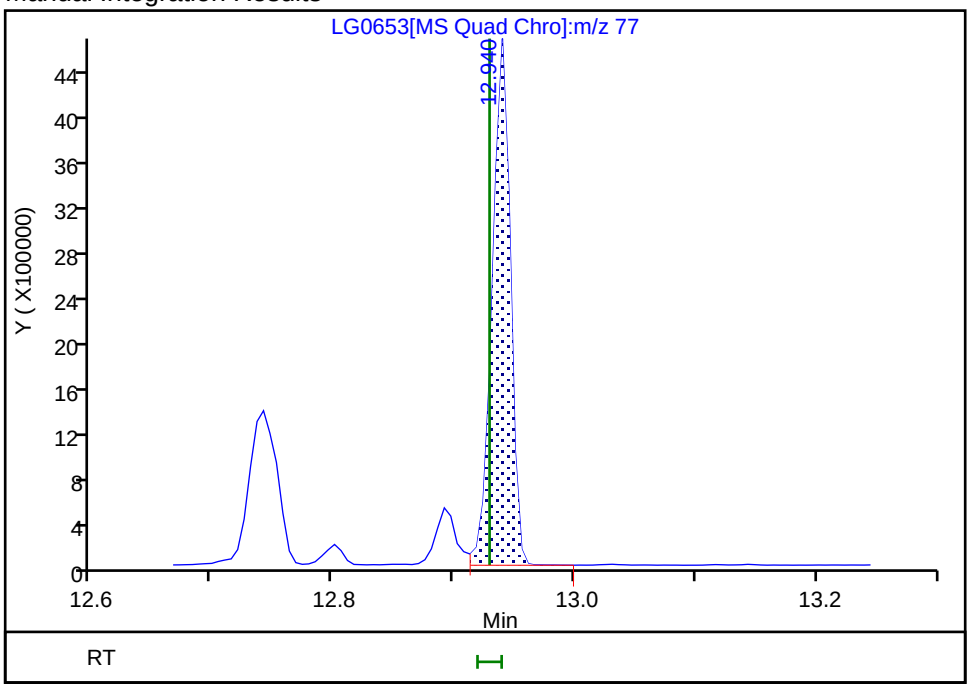
Not Detected
Expected RT: 12.93

Processing Integration Results



Manual Integration Results

RT: 12.94
Area: 4879948
Amount: 29.099974
Amount Units: ug/ml



Reviewer: hartenstinel, 15-Jul-2020 16:03:40
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

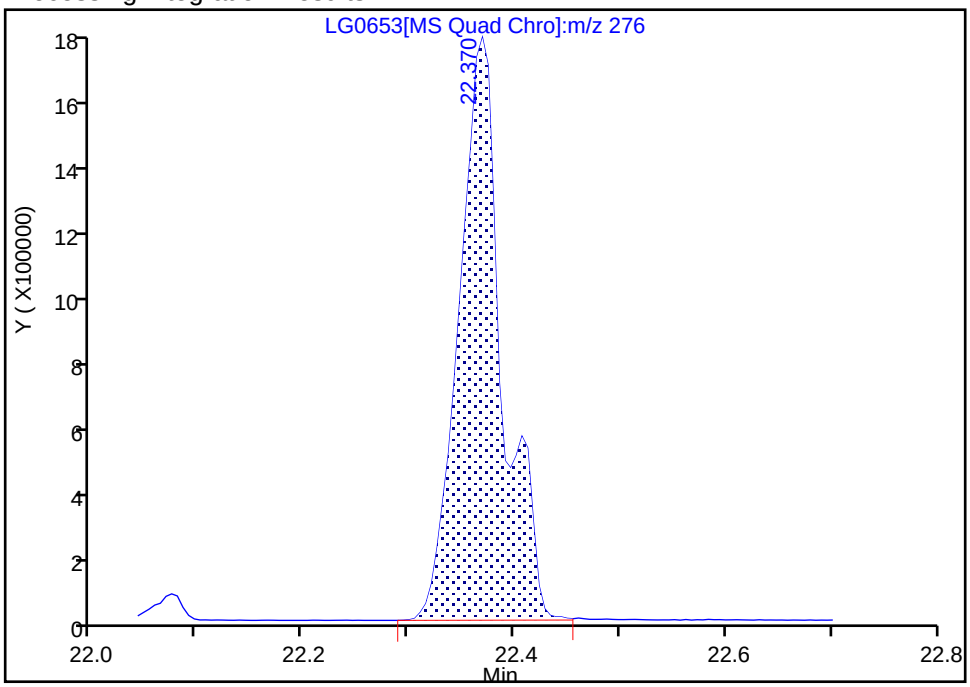
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0653.D				
Injection Date:	15-Jul-2020 14:26:04	Instrument ID:	HP20296		
Lims ID:	IC L8				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

163 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

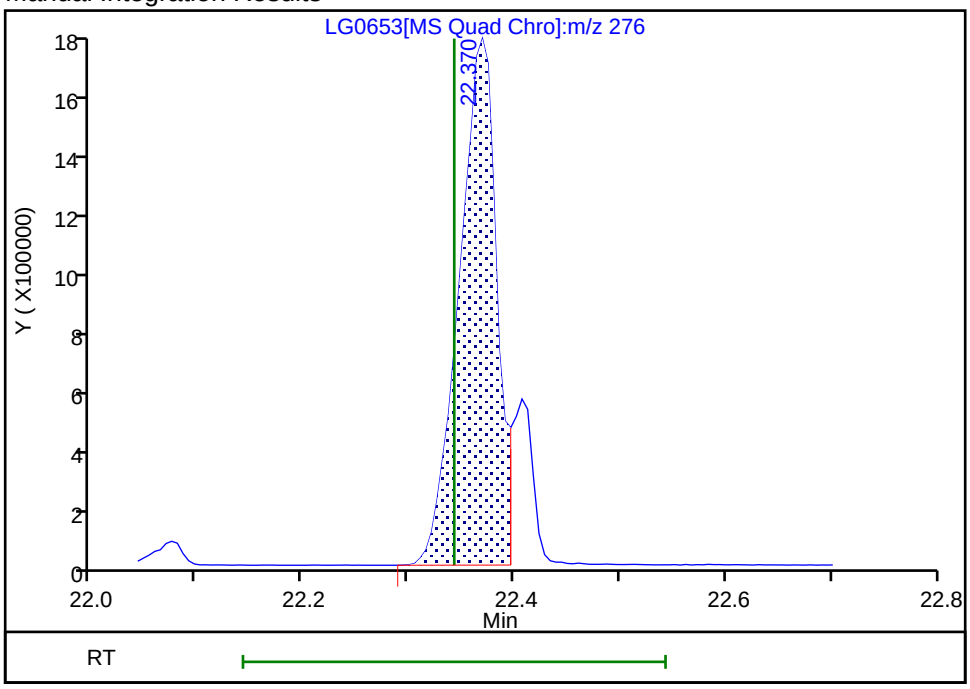
Processing Integration Results

RT: 22.37
Area: 4981621
Amount: 33.902098
Amount Units: ug/ml



Manual Integration Results

RT: 22.37
Area: 4258795
Amount: 31.489904
Amount Units: ug/ml



Reviewer: hartenstinel, 15-Jul-2020 16:04:07

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0654.D
Lims ID: IC L7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 15-Jul-2020 14:55:08 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L7
Misc. Info.: 410-0005639-005
Operator ID: lmh00956 Instrument ID: HP20296
Sublist: chrom-MSSemi_HP20296*sub6

Method: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 15-Jul-2020 19:25:56 Calib Date: 15-Jul-2020 16:51:20
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0658.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1062

First Level Reviewer: hartenstinel Date: 15-Jul-2020 16:05:30

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	2.745	2.740	0.005	92	468531	20.0	20.3	
2 N-Nitrosodimethylamine	74	3.259	3.248	0.011	89	819891	20.0	23.0	
3 Pyridine	79	3.291	3.286	0.005	98	1439356	20.0	22.8	
5 2-Picoline	93	4.430	4.425	0.005	93	1480452	20.0	20.3	
6 N-Nitrosomethylethylamine	88	4.618	4.607	0.011	86	593943	20.0	20.2	
9 Methyl methanesulfonate	80	5.067	5.051	0.016	84	655616	20.0	20.1	
$ 10 2-Fluorophenol	112	5.302	5.291	0.011	92	2348795	40.0	39.7	
11 N-Nitrosodiethylamine	102	5.639	5.628	0.011	90	590124	20.0	20.8	
13 Ethyl methanesulfonate	109	6.088	6.078	0.010	98	650953	20.0	20.7	
15 Benzaldehyde	77	6.564	6.559	0.005	96	1086833	20.0	19.2	
$ 16 Phenol-d5	99	6.677	6.661	0.016	98	3104755	40.0	40.7	
17 Phenol	94	6.693	6.677	0.016	97	1811756	20.0	21.1	
18 Aniline	93	6.725	6.719	0.006	98	2134140	20.0	20.4	
19 Bis(2-chloroethyl)ether	93	6.837	6.832	0.005	96	1370274	20.0	19.4	
20 2-Chlorophenol	128	6.896	6.885	0.011	96	1138554	20.0	19.9	
22 1,3-Dichlorobenzene	146	7.126	7.121	0.005	96	1200193	20.0	19.5	
* 24 1,4-Dichlorobenzene-d4	152	7.217	7.212	0.005	97	186221	5.00	5.00	
25 1,4-Dichlorobenzene	146	7.244	7.238	0.006	90	1215216	20.0	19.5	
27 Benzyl alcohol	108	7.431	7.420	0.011	91	892593	20.0	20.4	
29 1,2-Dichlorobenzene	146	7.468	7.463	0.005	94	1159056	20.0	19.6	
30 Indene	115	7.607	7.602	0.005	88	1818605	20.0	20.3	
31 2-Methylphenol	108	7.607	7.602	0.005	63	1145417	20.0	19.8	
32 2,2'-oxybis[1-chloropropane]	45	7.656	7.650	0.006	95	1564952	20.0	19.6	
34 N-Nitrosopyrrolidine	100	7.811	7.789	0.022	96	668145	20.0	20.7	
35 Acetophenone	105	7.843	7.832	0.011	93	1833786	20.0	19.4	
36 4-Methylphenol	108	7.853	7.837	0.016	92	1232338	20.0	20.2	
37 N-Nitrosodi-n-propylamine	70	7.864	7.848	0.016	78	1063198	20.0	20.2	
38 N-Nitrosomorpholine	56	7.875	7.859	0.016	89	712769	20.0	19.9	
39 2-Toluidine	106	7.896	7.885	0.011	94	2043837	20.0	19.9	
40 Hexachloroethane	117	7.993	7.987	0.005	95	549701	20.0	19.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	8.073	8.062	0.011	86	3083794	40.0	40.1	
42 Nitrobenzene	77	8.099	8.089	0.010	84	1553743	20.0	19.9	
44 N-Nitrosopiperidine	114	8.335	8.324	0.011	89	616322	20.0	20.6	
46 Isophorone	82	8.485	8.474	0.011	98	2795391	20.0	20.3	
47 2-Nitrophenol	139	8.597	8.592	0.005	97	575810	20.0	20.5	
48 2,4-Dimethylphenol	107	8.682	8.677	0.005	99	1315089	20.0	20.4	
49 o,o',o''-Triethylphosphorothioat	198	8.811	8.805	0.006	92	462659	20.0	20.4	
50 Benzoic acid	105	8.859	8.816	0.043	86	975337	20.0	22.7	M
51 Bis(2-chloroethoxy)methane	93	8.848	8.843	0.005	99	1721300	20.0	19.5	
S 53 Dinitrotoluene	165				0		40.0	40.0	
52 2,4-Dichlorophenol	162	8.977	8.971	0.006	97	896022	20.0	20.6	
54 1,2,4-Trichlorobenzene	180	9.116	9.110	0.006	93	891266	20.0	19.8	
* 55 Naphthalene-d8	136	9.201	9.196	0.005	100	759238	5.00	5.00	
56 Naphthalene	128	9.233	9.228	0.005	98	3393457	20.0	19.8	
57 4-Chloroaniline	127	9.330	9.324	0.006	94	1388198	20.0	20.3	
58 2,6-Dichlorophenol	162	9.340	9.335	0.005	95	852387	20.0	20.2	
59 Hexachloropropene	213	9.383	9.383	0.000	93	546293	20.0	20.3	
60 Hexachlorobutadiene	225	9.453	9.447	0.006	96	476653	20.0	20.2	
S 63 Diallate	86				0		20.0	19.7	
62 Quinoline	129	9.774	9.763	0.011	95	2107221	20.0	19.9	
64 Caprolactam	113	9.902	9.859	0.043	74	337715	20.0	20.1	
65 N-Nitrosodi-n-butylamine	84	9.907	9.902	0.005	88	1263532	20.0	23.0	
66 4-Chloro-3-methylphenol	107	10.137	10.127	0.010	92	1158966	20.0	20.5	
67 Safrole, Total	162	10.239	10.234	0.005	82	769946	20.0	20.0	
69 2-Methylnaphthalene	142	10.362	10.357	0.005	91	2167392	20.0	19.9	
70 1-Methylnaphthalene	142	10.517	10.517	0.000	92	2069975	20.0	20.0	
71 Hexachlorocyclopentadiene	237	10.629	10.624	0.005	95	526675	20.0	20.2	
72 1,2,4,5-Tetrachlorobenzene	216	10.635	10.629	0.006	96	798738	20.0	19.8	
73 Isosafrole Peak 1	162	10.715	10.715	0.000	87	147785	3.20	3.23	
74 2,4,6-Trichlorophenol	196	10.827	10.822	0.005	92	599703	20.0	20.8	
75 2,4,5-Trichlorophenol	196	10.875	10.870	0.005	90	624219	20.0	20.4	
$ 76 2-Fluorobiphenyl (Surr)	172	10.982	10.977	0.005	99	4459531	40.0	39.9	
77 Isosafrole Peak 2	162	11.089	11.084	0.005	87	818794	16.8	16.9	
79 1,1'-Biphenyl	154	11.138	11.132	0.006	97	2534569	20.0	19.7	
80 2-Chloronaphthalene	162	11.154	11.148	0.006	99	2003446	20.0	19.7	
81 1-Chloronaphthalene	162	11.186	11.180	0.006	95	1754050	20.0	19.4	
82 Phenyl ether	170	11.314	11.314	0.000	87	1296074	20.0	20.2	
83 2-Nitroaniline	138	11.330	11.319	0.011	77	693623	20.0	19.9	
84 1,4-Naphthoquinone	158	11.442	11.437	0.005	79	836851	20.0	20.1	
85 1,4-Dinitrobenzene	168	11.560	11.549	0.011	83	313660	20.0	20.4	
86 Dimethyl phthalate	163	11.651	11.640	0.011	97	2190413	20.0	19.5	
87 1,3-Dinitrobenzene	168	11.667	11.656	0.011	83	347782	20.0	20.0	
88 2,6-Dinitrotoluene	165	11.721	11.715	0.005	88	488524	20.0	19.8	
90 Acenaphthylene	152	11.795	11.795	0.000	99	2941018	20.0	20.1	
91 3-Nitroaniline	138	11.950	11.940	0.010	92	574335	20.0	19.7	
* 92 Acenaphthene-d10	164	11.999	11.999	0.000	96	356320	5.00	5.00	
93 Acenaphthene	153	12.047	12.041	0.006	98	2147085	20.0	19.9	
94 2,4-Dinitrophenol	184	12.100	12.090	0.010	78	284010	20.0	21.3	
96 4-Nitrophenol	109	12.197	12.180	0.017	92	465172	20.0	21.9	
98 Pentachlorobenzene	250	12.229	12.223	0.006	96	678395	20.0	19.5	
99 2,4-Dinitrotoluene	165	12.282	12.271	0.011	84	685188	20.0	20.2	
100 Dibenzofuran	168	12.282	12.277	0.005	96	2664080	20.0	19.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 1-Naphthylamine	143	12.384	12.378	0.006	98	2225246	20.0	20.4	
102 2,3,4,6-Tetrachlorophenol	232	12.443	12.437	0.006	82	448025	20.0	20.5	
103 2-Naphthylamine	143	12.485	12.480	0.005	95	2226254	20.0	20.3	
104 Diethyl phthalate	149	12.619	12.608	0.011	97	2388048	20.0	20.1	
106 Thionazin	107	12.715	12.705	0.010	77	469789	20.0	19.7	
105 Fluorene	166	12.721	12.715	0.006	93	2172891	20.0	19.3	
107 N-Nitro-o-toluidine	152	12.742	12.731	0.011	86	658199	20.0	20.1	
108 4-Chlorophenyl phenyl ether	204	12.737	12.737	0.000	92	892903	20.0	19.3	
109 4-Nitroaniline	138	12.753	12.737	0.016	81	620236	20.0	19.5	a
110 4,6-Dinitro-2-methylphenol	198	12.796	12.785	0.011	76	342142	20.0	20.4	
111 N-Nitrosodiphenylamine	169	12.887	12.881	0.005	65	1815711	20.0	19.3	
112 1,2-Diphenylhydrazine	77	12.935	12.929	0.006	42	3164914	20.0	19.5	
$ 113 2,4,6-Tribromophenol	330	13.026	13.020	0.006	90	578365	40.0	40.8	
114 Sulfotepp	97	13.116	13.111	0.005	79	519333	20.0	19.3	
115 cis-Diallate	86	13.266	13.266	0.000	85	957398	14.8	14.6	
116 Phorate	75	13.277	13.272	0.005	95	2060108	20.0	20.3	
117 Phenacetin	108	13.298	13.282	0.016	90	1517577	20.0	20.3	
118 4-Bromophenyl phenyl ether	248	13.363	13.357	0.006	74	506861	20.0	19.2	
119 trans-Diallate	86	13.379	13.379	0.000	97	346518	5.20	5.16	
120 Hexachlorobenzene	284	13.421	13.416	0.005	91	577381	20.0	20.1	
121 Dimethoate	87	13.491	13.480	0.011	97	1337389	20.0	19.9	
122 Atrazine	200	13.587	13.582	0.005	86	525273	20.0	18.7	
123 Pentachlorophenol	266	13.683	13.678	0.005	88	391430	20.0	20.7	
124 4-Aminobiphenyl	169	13.694	13.689	0.005	92	1769719	20.0	19.8	
125 Pentachloronitrobenzene	237	13.705	13.699	0.006	80	260978	20.0	19.4	
126 Pronamide	173	13.790	13.785	0.005	90	1122332	20.0	20.6	
* 127 Phenanthrene-d10	188	13.935	13.935	0.000	95	676256	5.00	5.00	
128 Dinoseb	211	13.940	13.940	0.000	90	511724	20.0	20.8	
129 Phenanthrene	178	13.972	13.967	0.005	98	3186160	20.0	19.4	
130 Anthracene	178	14.042	14.036	0.006	99	3265869	20.0	19.6	
131 Carbazole	167	14.261	14.256	0.005	96	3129759	20.0	20.0	
132 Methyl parathion	109	14.464	14.459	0.005	88	1083606	20.0	20.4	
133 Di-n-butyl phthalate	149	14.780	14.775	0.005	100	4455242	20.0	20.0	
134 Ethyl Parathion	109	15.031	15.031	0.000	82	669006	20.0	20.7	
135 4-Nitroquinoline-1-oxide	190	15.063	15.053	0.010	90	415520	20.0	21.0	
136 Octachlorostyrene	308	15.406	15.406	0.000	92	264721	20.0	19.6	
137 Isodrin	193	15.465	15.465	0.001	86	371924	20.0	18.8	
138 Fluoranthene	202	15.700	15.694	0.006	99	3404241	20.0	20.1	
139 Benzidine	184	15.930	15.919	0.011	99	7228171	60.0	59.2	
* 140 Pyrene-d10 (IS)	212	16.026	16.021	0.005	98	647352	5.00	5.00	
141 Pyrene	202	16.058	16.053	0.005	95	3445643	20.0	19.1	
$ 142 p-Terphenyl-d14	244	16.336	16.331	0.005	97	4647281	40.0	39.7	
143 p-Dimethylamino azobenzene	225	16.572	16.566	0.006	89	559572	20.0	20.2	
144 Chlorobenzilate	139	16.663	16.657	0.006	80	1368509	20.0	19.9	
145 3,3'-Dimethylbenzidine	212	17.149	17.144	0.005	98	2341591	20.0	20.3	
146 Butyl benzyl phthalate	149	17.203	17.197	0.006	94	2005079	20.0	20.5	
147 2-Acetylaminofluorene	181	17.593	17.577	0.016	93	1560589	20.0	20.8	
148 3,3'-Dichlorobenzidine	252	18.107	18.101	0.006	82	1206736	20.0	20.5	
150 4,4'-Methylene bis(2-chloroanil	231	18.123	18.117	0.006	92	616642	20.0	20.0	
149 Benzo[a]anthracene	228	18.128	18.123	0.005	98	2982290	20.0	19.9	
151 Chrysene	228	18.198	18.187	0.011	96	2941853	20.0	19.6	
152 Bis(2-ethylhexyl) phthalate	149	18.283	18.283	0.000	97	2964810	20.0	20.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
153 6-Methylchrysene	242	19.011	19.005	0.006	99	2080525	20.0	20.0	
154 Di-n-octyl phthalate	149	19.465	19.465	0.000	99	5251670	20.0	21.1	
155 Benzo[b]fluoranthene	252	20.027	20.016	0.011	94	3077802	20.0	20.4	
156 7,12-Dimethylbenz(a)anthracene	256	20.032	20.016	0.016	79	1344551	20.0	21.2	
157 Benzo[k]fluoranthene	252	20.080	20.070	0.010	97	2947772	20.0	20.3	
158 Benzo[a]pyrene	252	20.567	20.556	0.011	82	2880188	20.0	20.5	
* 159 Perylene-d12	264	20.647	20.647	0.000	95	589806	5.00	5.00	
160 3-Methylcholanthrene	268	21.139	21.134	0.005	93	1475865	20.0	21.2	
161 Dibenz[a,h]acridine	279	21.985	21.974	0.011	92	2231697	20.0	20.6	
162 Dibenz[a,j]acridine	279	22.065	22.054	0.011	95	2293981	20.0	20.7	
163 Indeno[1,2,3-cd]pyrene	276	22.359	22.343	0.016	98	2715563	20.0	20.7	M
164 Dibenz(a,h)anthracene	278	22.396	22.386	0.010	95	2745026	20.0	20.9	
165 Benzo[g,h,i]perylene	276	22.808	22.792	0.016	93	2668026	20.0	20.0	
S 166 Isosafrole	162				0		20.0	20.2	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSS_RV8270_7_00006 Amount Added: 1.00 Units: mL

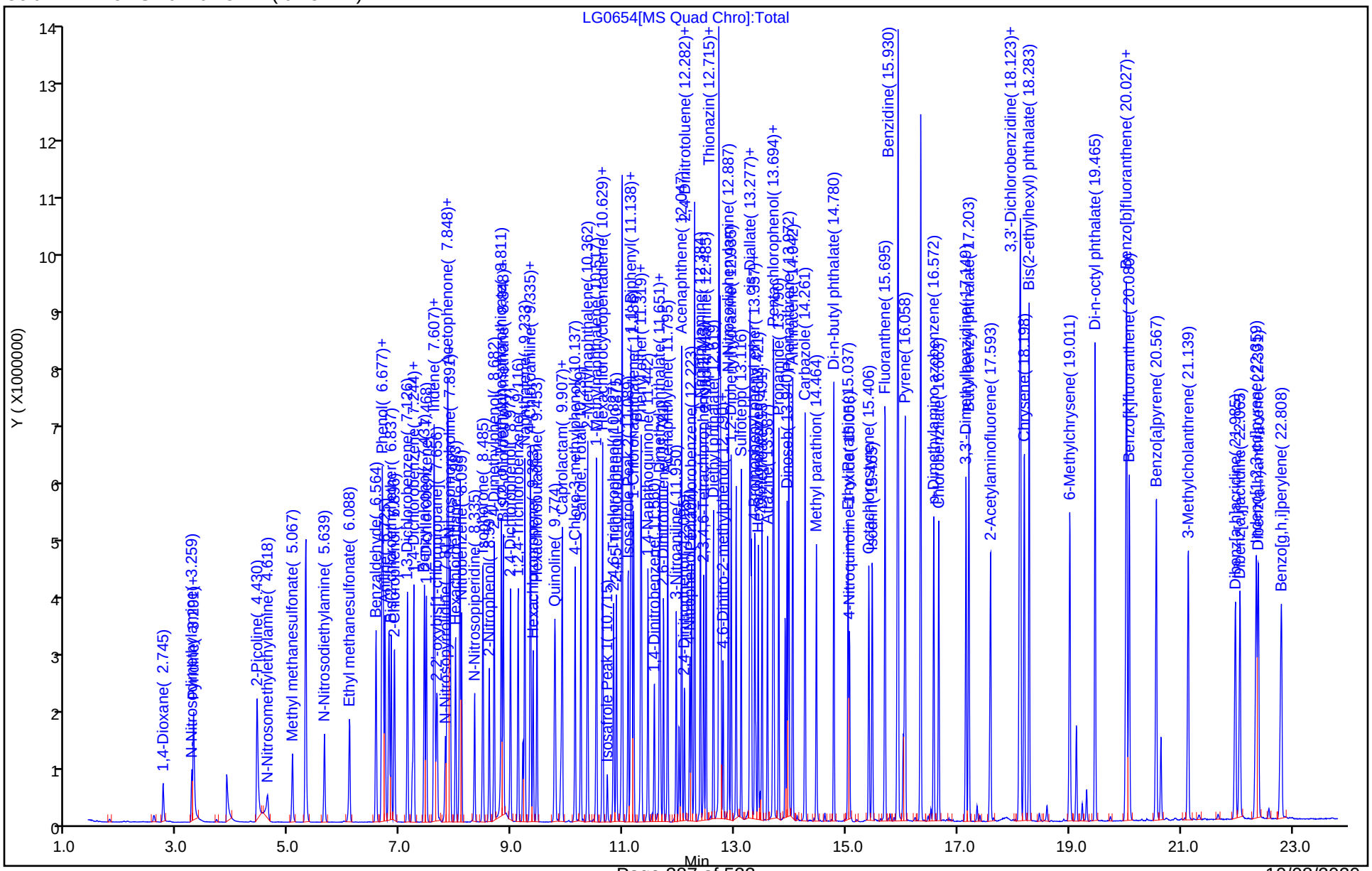
Report Date: 15-Jul-2020 19:26:00 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0654.D

Injection Date:	15-Jul-2020 14:55:08	Instrument ID:	HP20296	Operator ID:	lmh00956
Lims ID:	IC L7			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

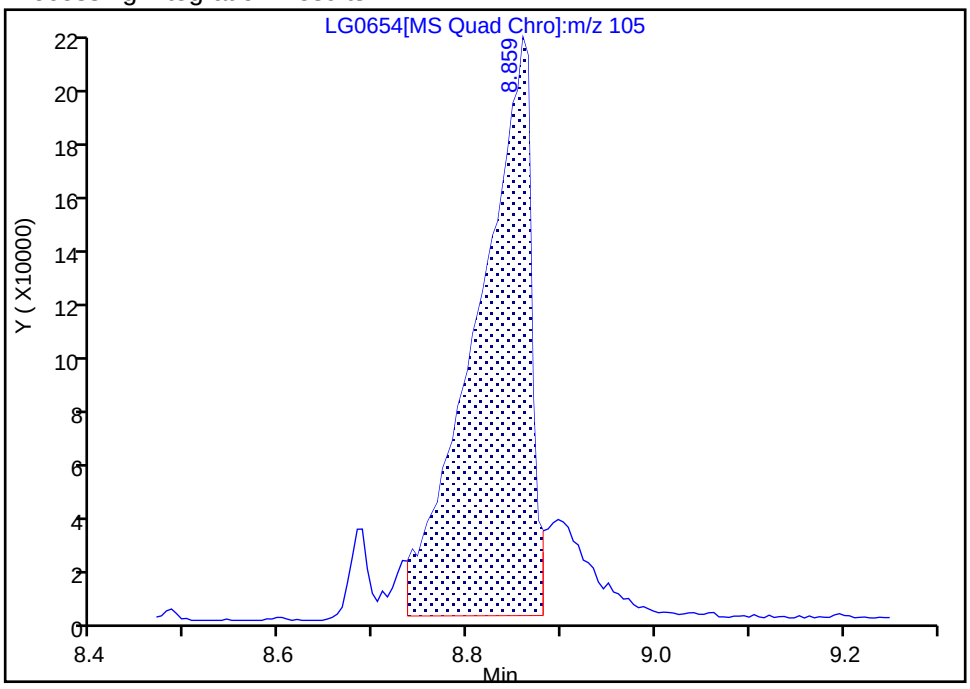
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0654.D				
Injection Date:	15-Jul-2020 14:55:08	Instrument ID:	HP20296		
Lims ID:	IC L7				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

50 Benzoic acid, CAS: 65-85-0

Signal: 1

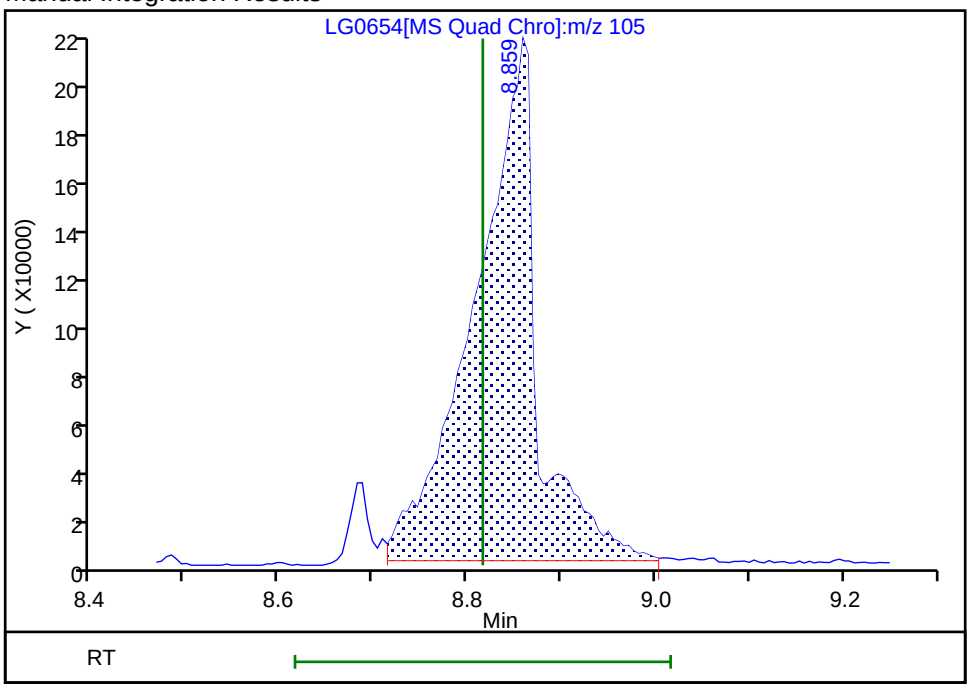
Processing Integration Results

RT: 8.86
Area: 839909
Amount: 21.670426
Amount Units: ug/ml



Manual Integration Results

RT: 8.86
Area: 975337
Amount: 22.725834
Amount Units: ug/ml



Reviewer: transuea, 15-Jul-2020 18:29:40

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

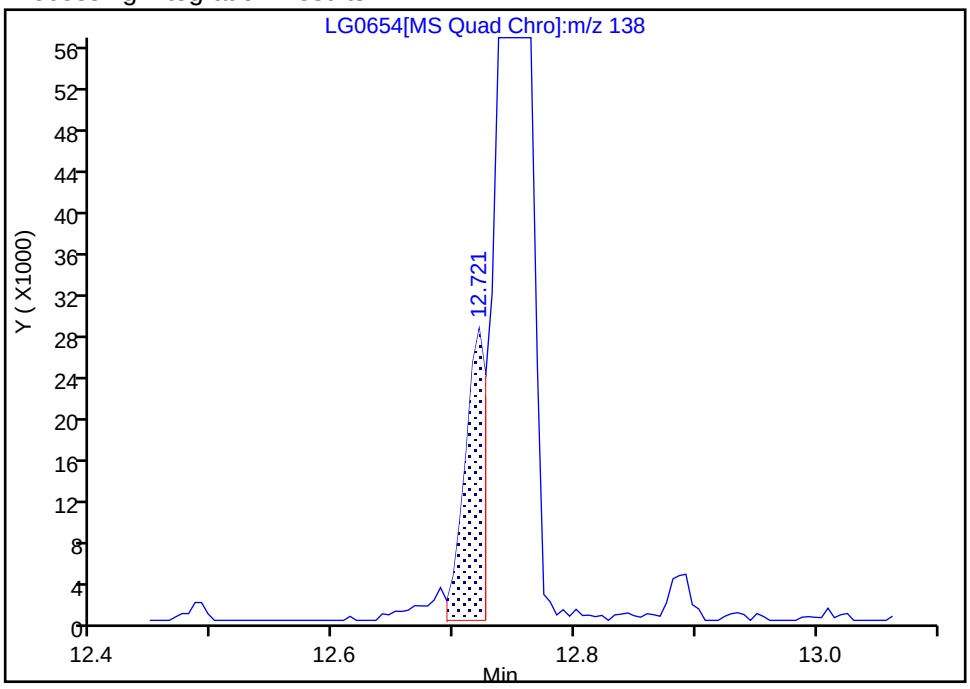
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0654.D				
Injection Date:	15-Jul-2020 14:55:08	Instrument ID:	HP20296		
Lims ID:	IC L7				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

109 4-Nitroaniline, CAS: 100-01-6

Signal: 1

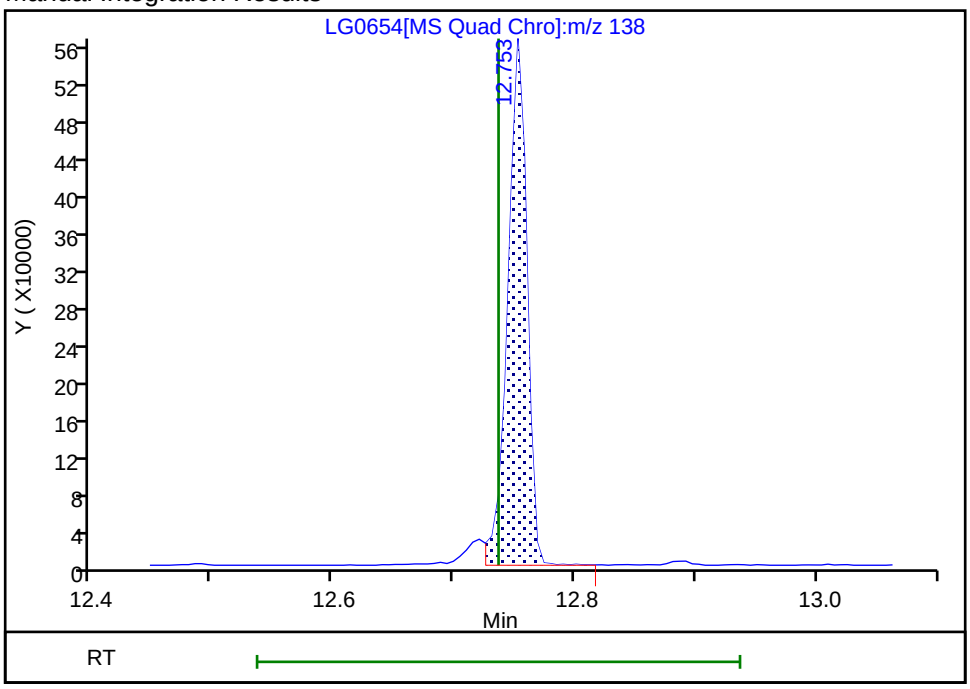
Processing Integration Results

RT: 12.72
Area: 30721
Amount: 1.089294
Amount Units: ug/ml



Manual Integration Results

RT: 12.75
Area: 620236
Amount: 19.450973
Amount Units: ug/ml



Reviewer: transuea, 15-Jul-2020 19:21:31

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

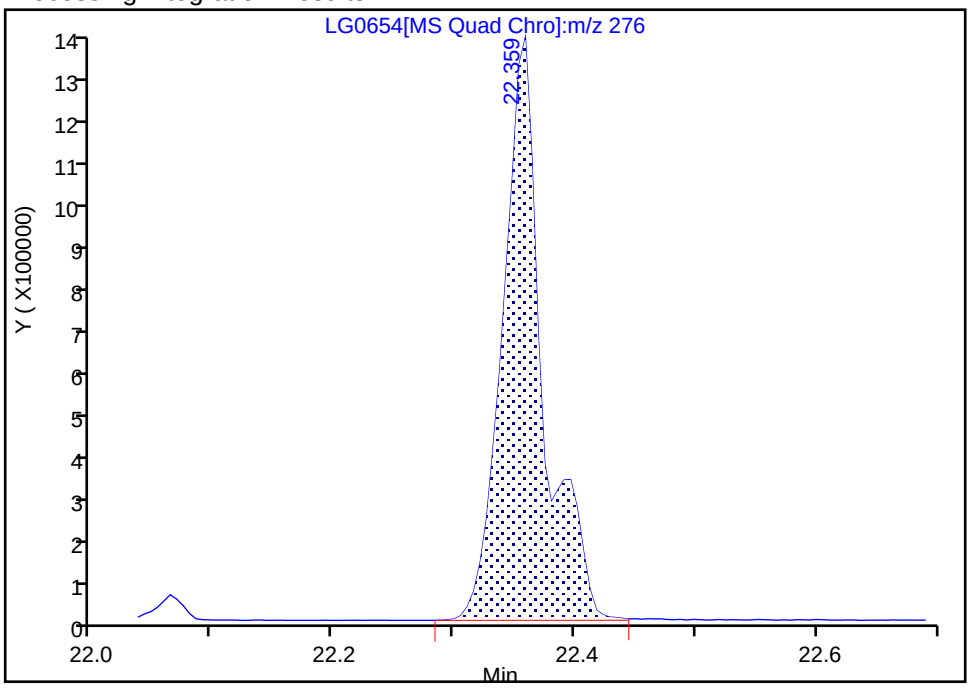
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0654.D				
Injection Date:	15-Jul-2020 14:55:08	Instrument ID:	HP20296		
Lims ID:	IC L7				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

163 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

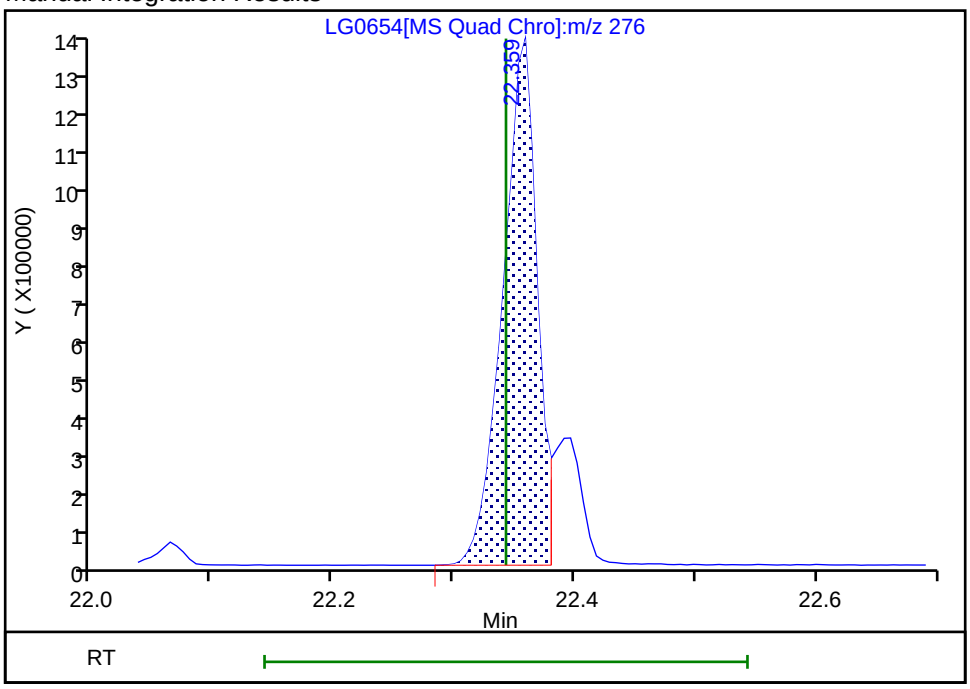
Processing Integration Results

RT: 22.36
Area: 3259763
Amount: 23.384628
Amount Units: ug/ml



Manual Integration Results

RT: 22.36
Area: 2715563
Amount: 20.731897
Amount Units: ug/ml



Reviewer: hartenstinel, 15-Jul-2020 16:05:18

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0655.D
Lims ID: IC L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 15-Jul-2020 15:24:08 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L6
Misc. Info.: 410-0005639-006
Operator ID: lmh00956 Instrument ID: HP20296
Sublist: chrom-MSSemi_HP20296*sub6

Method: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 15-Jul-2020 19:26:07 Calib Date: 15-Jul-2020 16:51:20
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0658.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1062

First Level Reviewer: hartenstinel Date: 15-Jul-2020 16:06:40

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	2.751	2.740	0.011	92	271359	12.5	12.5	
2 N-Nitrosodimethylamine	74	3.259	3.248	0.011	88	463048	12.5	13.7	
3 Pyridine	79	3.296	3.286	0.010	96	832736	12.5	13.9	
5 2-Picoline	93	4.430	4.425	0.005	93	774180	12.5	11.2	
6 N-Nitrosomethylethylamine	88	4.612	4.607	0.005	83	329990	12.5	11.9	
9 Methyl methanesulfonate	80	5.061	5.051	0.010	84	402597	12.5	13.1	
$ 10 2-Fluorophenol	112	5.302	5.291	0.011	93	1328823	25.0	23.8	
11 N-Nitrosodiethylamine	102	5.639	5.628	0.011	91	322312	12.5	12.1	
13 Ethyl methanesulfonate	109	6.083	6.078	0.005	97	361758	12.5	12.2	
15 Benzaldehyde	77	6.564	6.559	0.005	96	706568	12.5	13.2	
$ 16 Phenol-d5	99	6.671	6.661	0.010	98	1835233	25.0	25.5	
17 Phenol	94	6.687	6.677	0.010	97	1020515	12.5	12.6	
18 Aniline	93	6.725	6.719	0.006	97	1245694	12.5	12.6	
19 Bis(2-chloroethyl)ether	93	6.837	6.832	0.005	96	831492	12.5	12.5	
20 2-Chlorophenol	128	6.891	6.885	0.006	96	694499	12.5	12.8	
22 1,3-Dichlorobenzene	146	7.126	7.121	0.005	95	728650	12.5	12.6	
* 24 1,4-Dichlorobenzene-d4	152	7.217	7.212	0.005	97	175826	5.00	5.00	
25 1,4-Dichlorobenzene	146	7.244	7.238	0.006	91	735266	12.5	12.5	
27 Benzyl alcohol	108	7.431	7.420	0.011	90	515557	12.5	12.5	
29 1,2-Dichlorobenzene	146	7.468	7.463	0.005	93	692797	12.5	12.4	
30 Indene	115	7.607	7.602	0.005	87	1058285	12.5	12.5	
31 2-Methylphenol	108	7.607	7.602	0.005	96	677171	12.5	12.4	
32 2,2'-oxybis[1-chloropropane]	45	7.650	7.650	0.000	95	900250	12.5	12.0	
34 N-Nitrosopyrrolidine	100	7.800	7.789	0.011	96	398414	12.5	13.1	
35 Acetophenone	105	7.837	7.832	0.005	90	1179574	12.5	13.2	
36 4-Methylphenol	108	7.848	7.837	0.011	93	743696	12.5	12.9	
37 N-Nitrosodi-n-propylamine	70	7.853	7.848	0.005	76	636432	12.5	12.8	
38 N-Nitrosomorpholine	56	7.869	7.859	0.010	89	433864	12.5	12.8	
39 2-Toluidine	106	7.891	7.885	0.006	95	1223527	12.5	12.6	
40 Hexachloroethane	117	7.993	7.987	0.005	95	338115	12.5	12.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	8.067	8.062	0.005	86	1876351	25.0	25.0	
42 Nitrobenzene	77	8.094	8.089	0.005	84	940453	12.5	12.3	
44 N-Nitrosopiperidine	114	8.329	8.324	0.005	89	377778	12.5	12.9	
46 Isophorone	82	8.479	8.474	0.005	98	1686331	12.5	12.5	
47 2-Nitrophenol	139	8.592	8.592	0.000	97	355127	12.5	12.9	
48 2,4-Dimethylphenol	107	8.682	8.677	0.005	98	800324	12.5	12.7	
49 o,o',o''-Triethylphosphorothioat	198	8.811	8.805	0.006	91	283330	12.5	12.8	
50 Benzoic acid	105	8.827	8.816	0.011	88	551094	12.5	13.2	M
51 Bis(2-chloroethoxy)methane	93	8.843	8.843	0.000	98	1087362	12.5	12.6	
S 53 Dinitrotoluene	165				0		25.0	25.1	
52 2,4-Dichlorophenol	162	8.971	8.971	0.000	96	547777	12.5	12.9	
54 1,2,4-Trichlorobenzene	180	9.110	9.110	0.000	93	546907	12.5	12.5	
* 55 Naphthalene-d8	136	9.196	9.196	0.000	100	741357	5.00	5.00	
56 Naphthalene	128	9.233	9.228	0.005	98	2068897	12.5	12.3	
57 4-Chloroaniline	127	9.330	9.324	0.006	95	841319	12.5	12.6	
58 2,6-Dichlorophenol	162	9.340	9.335	0.005	94	534723	12.5	13.0	
59 Hexachloropropene	213	9.383	9.383	0.000	93	331832	12.5	12.6	
60 Hexachlorobutadiene	225	9.453	9.447	0.006	95	293706	12.5	12.8	
S 63 Diallate	86				0		12.5	12.3	
62 Quinoline	129	9.768	9.763	0.005	95	1286154	12.5	12.4	
64 Caprolactam	113	9.881	9.859	0.022	80	210320	12.5	12.8	
65 N-Nitrosodi-n-butylamine	84	9.902	9.902	0.000	88	778629	12.5	14.5	
66 4-Chloro-3-methylphenol	107	10.132	10.127	0.005	93	688728	12.5	12.5	
67 Safrole, Total	162	10.239	10.234	0.005	84	484562	12.5	12.9	
69 2-Methylnaphthalene	142	10.357	10.357	0.000	91	1334647	12.5	12.6	
70 1-Methylnaphthalene	142	10.517	10.517	0.000	92	1272328	12.5	12.6	
71 Hexachlorocyclopentadiene	237	10.624	10.624	0.000	96	317499	12.5	12.4	
72 1,2,4,5-Tetrachlorobenzene	216	10.629	10.629	0.000	97	483084	12.5	12.2	
73 Isosafrole Peak 1	162	10.715	10.715	0.000	85	88771	2.00	1.97	
74 2,4,6-Trichlorophenol	196	10.822	10.822	0.000	93	359178	12.5	12.7	
75 2,4,5-Trichlorophenol	196	10.875	10.870	0.005	89	376075	12.5	12.5	
$ 76 2-Fluorobiphenyl (Surr)	172	10.977	10.977	0.000	99	2686936	25.0	24.5	
77 Isosafrole Peak 2	162	11.084	11.084	0.000	87	495705	10.5	10.4	
79 1,1'-Biphenyl	154	11.132	11.132	0.000	96	1614546	12.5	12.7	
80 2-Chloronaphthalene	162	11.148	11.148	0.000	99	1196604	12.5	12.0	
81 1-Chloronaphthalene	162	11.186	11.180	0.006	96	1107260	12.5	12.5	
82 Phenyl ether	170	11.314	11.314	0.000	87	782880	12.5	12.4	
83 2-Nitroaniline	138	11.325	11.319	0.006	77	421502	12.5	12.3	
84 1,4-Naphthoquinone	158	11.442	11.437	0.005	80	516187	12.5	12.6	
85 1,4-Dinitrobenzene	168	11.555	11.549	0.006	84	187342	12.5	12.4	
86 Dimethyl phthalate	163	11.646	11.640	0.006	96	1316180	12.5	11.9	
87 1,3-Dinitrobenzene	168	11.662	11.656	0.006	83	210739	12.5	12.3	
88 2,6-Dinitrotoluene	165	11.715	11.715	0.000	90	306276	12.5	12.6	
90 Acenaphthylene	152	11.795	11.795	0.000	99	1779855	12.5	12.4	
91 3-Nitroaniline	138	11.945	11.940	0.005	91	357232	12.5	12.5	
* 92 Acenaphthene-d10	164	11.999	11.999	0.000	96	350264	5.00	5.00	
93 Acenaphthene	153	12.047	12.041	0.006	98	1286194	12.5	12.1	
94 2,4-Dinitrophenol	184	12.095	12.090	0.005	78	165309	12.5	12.6	
96 4-Nitrophenol	109	12.186	12.180	0.006	91	253994	12.5	12.1	
98 Pentachlorobenzene	250	12.223	12.223	0.000	96	414297	12.5	12.1	
99 2,4-Dinitrotoluene	165	12.277	12.271	0.006	84	416394	12.5	12.5	
100 Dibenzofuran	168	12.282	12.277	0.005	96	1634200	12.5	12.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 1-Naphthylamine	143	12.378	12.378	0.000	98	1321443	12.5	12.3	
102 2,3,4,6-Tetrachlorophenol	232	12.437	12.437	0.000	83	265006	12.5	12.3	
103 2-Naphthylamine	143	12.480	12.480	0.000	95	1347425	12.5	12.5	
104 Diethyl phthalate	149	12.614	12.608	0.006	97	1429396	12.5	12.3	
106 Thionazin	107	12.710	12.705	0.005	77	284414	12.5	12.2	
105 Fluorene	166	12.715	12.715	0.000	94	1324233	12.5	11.9	
107 N-Nitro-o-toluidine	152	12.737	12.731	0.006	78	401693	12.5	12.5	
108 4-Chlorophenyl phenyl ether	204	12.731	12.737	-0.006	82	550453	12.5	12.1	
109 4-Nitroaniline	138	12.742	12.737	0.005	81	375176	12.5	12.0	
110 4,6-Dinitro-2-methylphenol	198	12.785	12.785	0.000	70	202226	12.5	12.6	
111 N-Nitrosodiphenylamine	169	12.881	12.881	0.000	65	1085698	12.5	12.1	
112 1,2-Diphenylhydrazine	77	12.935	12.929	0.006	42	1920240	12.5	12.4	
$ 113 2,4,6-Tribromophenol	330	13.020	13.020	0.000	89	352754	25.0	25.3	
114 Sulfotepp	97	13.111	13.111	0.000	78	321362	12.5	12.5	
115 cis-Diallate	86	13.266	13.266	0.000	97	566024	9.25	9.03	
116 Phorate	75	13.272	13.272	0.000	95	1232164	12.5	12.7	
117 Phenacetin	108	13.288	13.282	0.006	87	922940	12.5	12.9	
118 4-Bromophenyl phenyl ether	248	13.357	13.357	0.000	74	291586	12.5	11.6	
119 trans-Diallate	86	13.379	13.379	0.000	96	211344	3.25	3.30	
120 Hexachlorobenzene	284	13.421	13.416	0.005	91	346112	12.5	12.6	
121 Dimethoate	87	13.480	13.480	0.000	97	818558	12.5	12.8	
122 Atrazine	200	13.582	13.582	0.000	86	340754	12.5	12.7	
123 Pentachlorophenol	266	13.678	13.678	0.000	87	235890	12.5	13.1	
124 4-Aminobiphenyl	169	13.689	13.689	0.000	91	1079455	12.5	12.7	
125 Pentachloronitrobenzene	237	13.700	13.699	0.001	82	163002	12.5	12.7	
126 Pronamide	173	13.785	13.785	0.000	90	667520	12.5	12.9	
* 127 Phenanthrene-d10	188	13.935	13.935	0.000	96	644511	5.00	5.00	
128 Dinoseb	211	13.940	13.940	0.000	89	298173	12.5	12.7	
129 Phenanthrene	178	13.967	13.967	0.000	99	1968020	12.5	12.6	
130 Anthracene	178	14.036	14.036	0.000	99	1999127	12.5	12.6	
131 Carbazole	167	14.256	14.256	0.000	96	1895833	12.5	12.7	
132 Methyl parathion	109	14.464	14.459	0.005	88	660773	12.5	13.1	
133 Di-n-butyl phthalate	149	14.775	14.775	0.000	100	2668706	12.5	12.5	
134 Ethyl Parathion	109	15.031	15.031	0.000	82	406425	12.5	13.2	
135 4-Nitroquinoline-1-oxide	190	15.053	15.053	0.000	90	246613	12.5	13.1	
136 Octachlorostyrene	308	15.406	15.406	0.000	92	158376	12.5	12.3	
137 Isodrin	193	15.465	15.465	0.001	86	228562	12.5	12.1	
138 Fluoranthene	202	15.695	15.694	0.001	99	2065223	12.5	12.8	
139 Benzidine	184	15.925	15.919	0.006	99	4486151	37.5	39.2	
* 140 Pyrene-d10 (IS)	212	16.021	16.021	0.000	97	606366	5.00	5.00	
141 Pyrene	202	16.053	16.053	0.000	95	2109273	12.5	12.5	
$ 142 p-Terphenyl-d14	244	16.331	16.331	0.000	97	2792843	25.0	25.5	
143 p-Dimethylamino azobenzene	225	16.566	16.566	0.000	90	344769	12.5	13.3	
144 Chlorobenzilate	139	16.657	16.657	0.000	80	827786	12.5	12.9	
145 3,3'-Dimethylbenzidine	212	17.144	17.144	0.000	98	1443237	12.5	13.4	
146 Butyl benzyl phthalate	149	17.198	17.197	0.001	94	1216038	12.5	13.2	
147 2-Acetylaminofluorene	181	17.583	17.577	0.006	93	939422	12.5	13.4	
148 3,3'-Dichlorobenzidine	252	18.101	18.101	0.000	77	732366	12.5	13.3	
150 4,4'-Methylene bis(2-chloroanil	231	18.117	18.117	0.000	92	377093	12.5	13.1	
149 Benzo[a]anthracene	228	18.123	18.123	0.000	98	1838626	12.5	13.1	
151 Chrysene	228	18.187	18.187	0.000	96	1805825	12.5	12.8	
152 Bis(2-ethylhexyl) phthalate	149	18.278	18.283	-0.005	97	1795922	12.5	13.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
153 6-Methylchrysene	242	19.005	19.005	0.000	99	1273967	12.5	13.1	
154 Di-n-octyl phthalate	149	19.460	19.465	-0.005	99	3166207	12.5	13.0	
155 Benzo[b]fluoranthene	252	20.022	20.016	0.006	97	1855115	12.5	12.5	
156 7,12-Dimethylbenz(a)anthracene	256	20.022	20.016	0.006	87	816467	12.5	13.1	
157 Benzo[k]fluoranthene	252	20.070	20.070	0.000	97	1812579	12.5	12.7	
158 Benzo[a]pyrene	252	20.556	20.556	0.000	82	1756860	12.5	12.7	
* 159 Perylene-d12	264	20.642	20.647	-0.005	95	579106	5.00	5.00	
160 3-Methylcholanthrene	268	21.129	21.134	-0.005	94	896946	12.5	13.1	
161 Dibenz[a,h]acridine	279	21.974	21.974	0.000	92	1350247	12.5	12.7	
162 Dibenz[a,j]acridine	279	22.059	22.054	0.005	95	1373915	12.5	12.6	
163 Indeno[1,2,3-cd]pyrene	276	22.348	22.343	0.005	96	1619765	12.5	12.6	M
164 Dibenz(a,h)anthracene	278	22.386	22.386	0.000	96	1675474	12.5	13.0	
165 Benzo[g,h,i]perylene	276	22.798	22.792	0.006	93	1635041	12.5	12.5	
S 166 Isosafrole	162				0		12.5	12.4	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_6_00006 Amount Added: 1.00 Units: mL

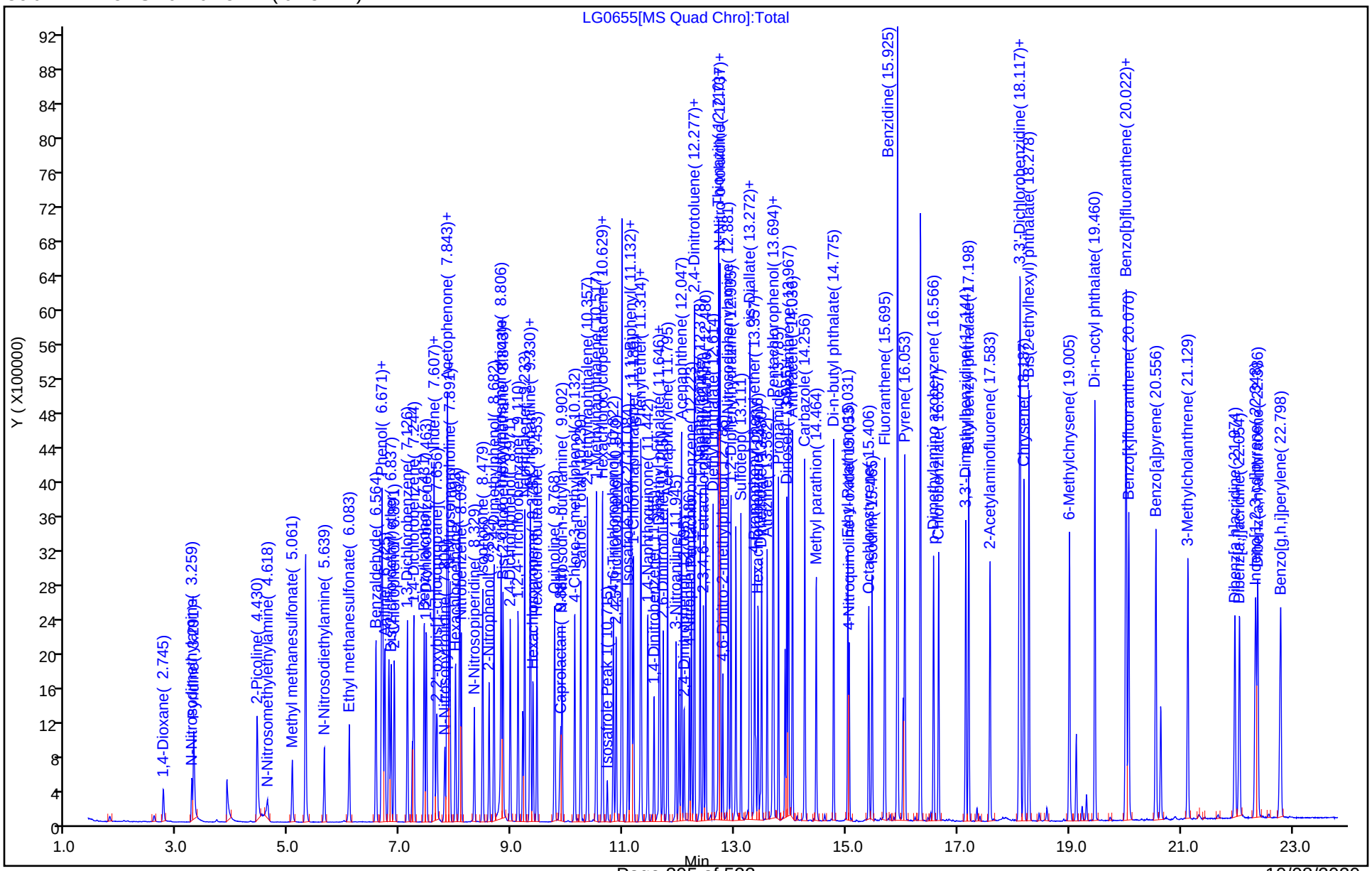
Report Date: 15-Jul-2020 19:26:11 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0655.D

Injection Date:	15-Jul-2020 15:24:08	Instrument ID:	HP20296	Operator ID:	lmh00956
Lims ID:	IC L6			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

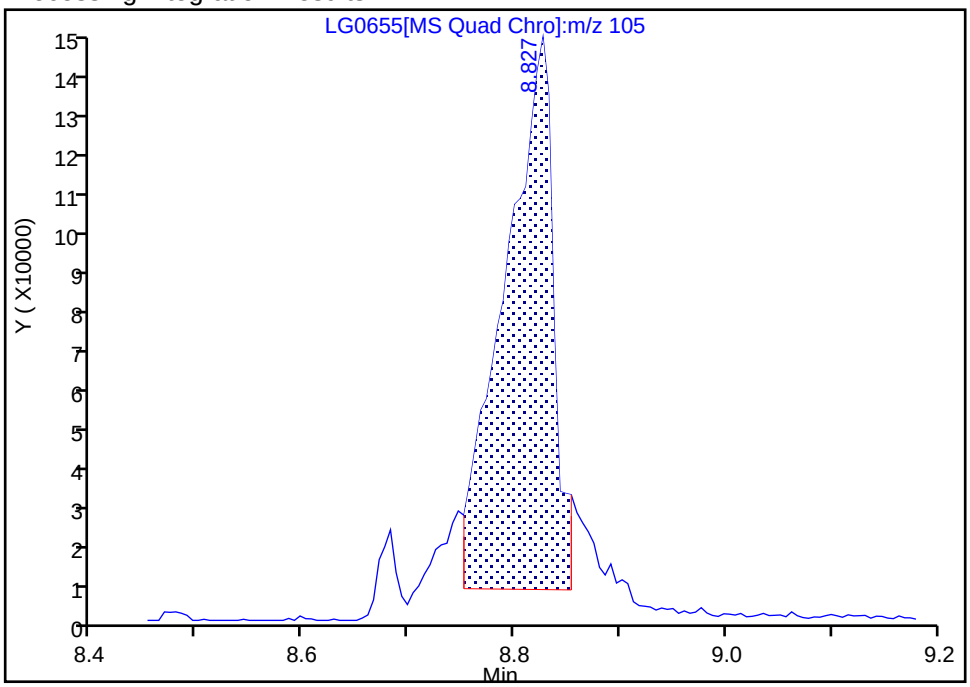
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0655.D				
Injection Date:	15-Jul-2020 15:24:08	Instrument ID:	HP20296		
Lims ID:	IC L6				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

50 Benzoic acid, CAS: 65-85-0

Signal: 1

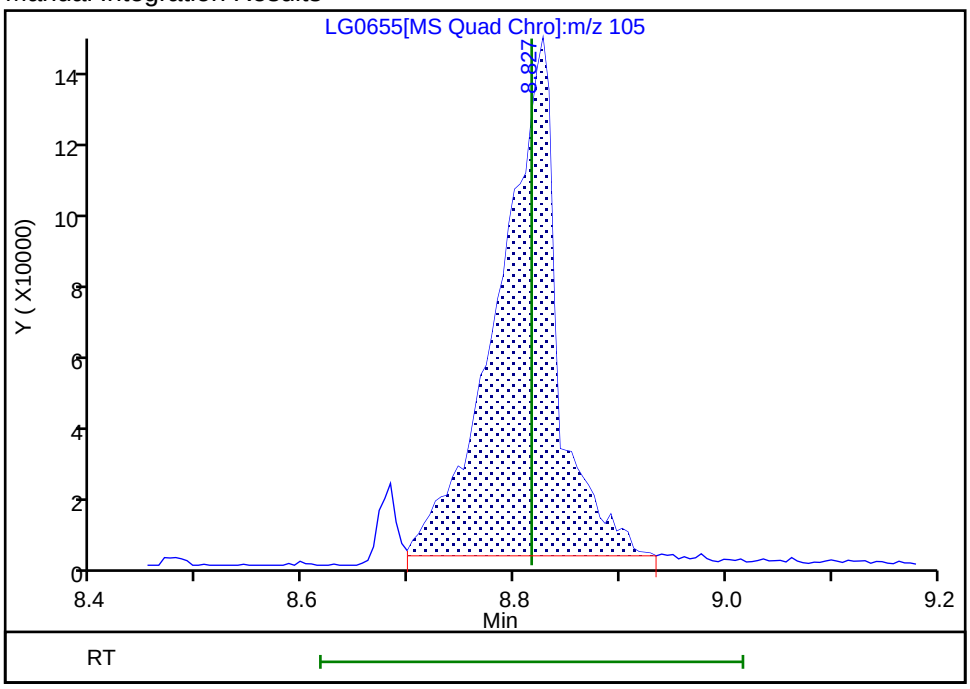
Processing Integration Results

RT: 8.83
Area: 429249
Amount: 11.021224
Amount Units: ug/ml



Manual Integration Results

RT: 8.83
Area: 551094
Amount: 13.150473
Amount Units: ug/ml



Reviewer: transuea, 15-Jul-2020 18:32:53

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

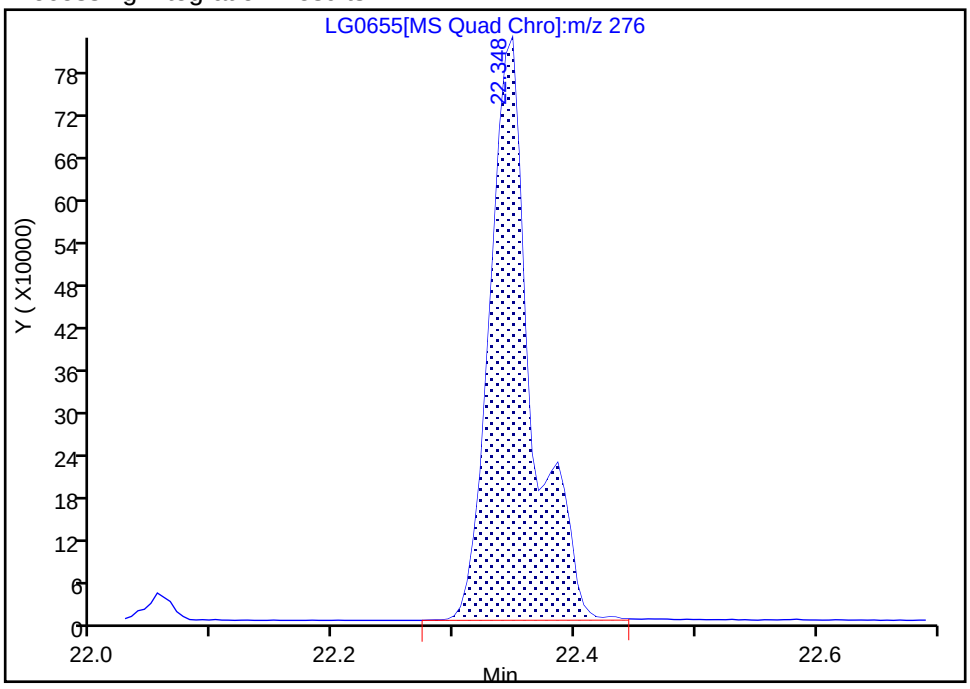
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0655.D				
Injection Date:	15-Jul-2020 15:24:08	Instrument ID:	HP20296		
Lims ID:	IC L6				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

163 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

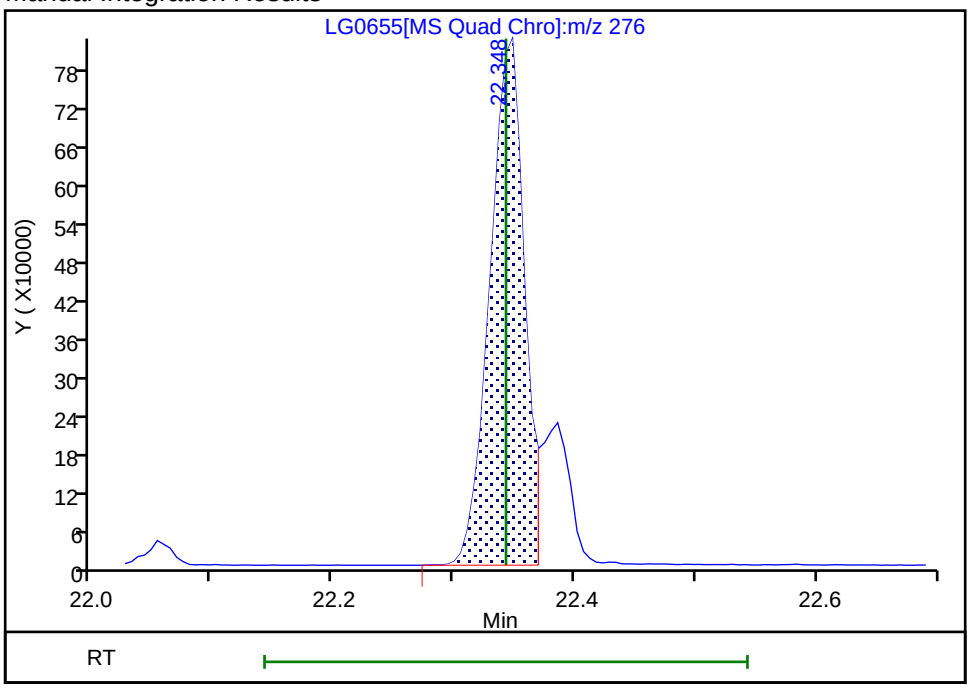
Processing Integration Results

RT: 22.35
Area: 1985110
Amount: 14.866481
Amount Units: ug/ml



Manual Integration Results

RT: 22.35
Area: 1619765
Amount: 12.594539
Amount Units: ug/ml



Reviewer: hartenstinel, 15-Jul-2020 16:06:30

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0656.D
Lims ID: IC L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 15-Jul-2020 15:53:17 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L4
Misc. Info.: 410-0005639-007
Operator ID: lmh00956 Instrument ID: HP20296
Sublist: chrom-MSSemi_HP20296*sub6

Method: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 15-Jul-2020 19:26:17 Calib Date: 15-Jul-2020 16:51:20
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0658.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1062

First Level Reviewer: transuea Date: 15-Jul-2020 18:39:01

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	2.745	2.740	0.005	89	66346	3.75	2.93	
2 N-Nitrosodimethylamine	74	3.259	3.248	0.011	86	109775	3.75	3.13	
3 Pyridine	79	3.296	3.286	0.010	95	190665	3.75	3.07	
5 2-Picoline	93	4.430	4.425	0.005	93	267107	3.75	3.72	
6 N-Nitrosomethylethylamine	88	4.607	4.607	0.000	88	104350	3.75	3.62	
9 Methyl methanesulfonate	80	5.056	5.051	0.005	84	117524	3.75	3.68	
$ 10 2-Fluorophenol	112	5.291	5.291	0.000	94	410102	7.50	7.06	
11 N-Nitrosodiethylamine	102	5.634	5.628	0.006	94	99501	3.75	3.58	
13 Ethyl methanesulfonate	109	6.078	6.078	0.000	97	110196	3.75	3.57	
15 Benzaldehyde	77	6.559	6.559	0.000	96	204433	3.75	3.68	
$ 16 Phenol-d5	99	6.661	6.661	0.000	98	535644	7.50	7.16	
17 Phenol	94	6.677	6.677	0.000	98	293684	3.75	3.48	
18 Aniline	93	6.719	6.719	0.000	99	374869	3.75	3.64	
19 Bis(2-chloroethyl)ether	93	6.832	6.832	0.000	96	247777	3.75	3.57	
20 2-Chlorophenol	128	6.891	6.885	0.005	97	205555	3.75	3.65	
22 1,3-Dichlorobenzene	146	7.126	7.121	0.005	94	216065	3.75	3.58	
* 24 1,4-Dichlorobenzene-d4	152	7.217	7.212	0.005	96	182901	5.00	5.00	
25 1,4-Dichlorobenzene	146	7.238	7.238	0.000	91	218396	3.75	3.57	
27 Benzyl alcohol	108	7.420	7.420	0.000	92	150788	3.75	3.51	
29 1,2-Dichlorobenzene	146	7.463	7.463	0.000	94	207472	3.75	3.58	
30 Indene	115	7.602	7.602	0.000	88	304767	3.75	3.46	
31 2-Methylphenol	108	7.597	7.602	-0.005	94	207445	3.75	3.64	
32 2,2'-oxybis[1-chloropropane]	45	7.650	7.650	0.000	94	275725	3.75	3.52	
34 N-Nitrosopyrrolidine	100	7.784	7.789	-0.005	95	117488	3.75	3.71	
35 Acetophenone	105	7.832	7.832	0.000	90	338219	3.75	3.65	
36 4-Methylphenol	108	7.837	7.837	0.000	93	217517	3.75	3.62	
37 N-Nitrosodi-n-propylamine	70	7.843	7.848	-0.005	78	188818	3.75	3.65	
38 N-Nitrosomorpholine	56	7.859	7.859	0.000	90	131772	3.75	3.75	
39 2-Toluidine	106	7.885	7.885	0.000	95	361403	3.75	3.58	
40 Hexachloroethane	117	7.987	7.987	0.000	94	100209	3.75	3.61	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	8.057	8.062	-0.006	87	533744	7.50	7.17	
42 Nitrobenzene	77	8.089	8.089	0.000	84	276032	3.75	3.65	
44 N-Nitrosopiperidine	114	8.324	8.324	0.000	89	105915	3.75	3.65	
46 Isophorone	82	8.474	8.474	0.000	98	490757	3.75	3.67	
47 2-Nitrophenol	139	8.591	8.592	-0.001	96	98464	3.75	3.62	
48 2,4-Dimethylphenol	107	8.677	8.677	0.000	97	234498	3.75	3.75	
49 o,o',o''-Triethylphosphorothioat	198	8.805	8.805	0.000	93	78962	3.75	3.60	
50 Benzoic acid	105	8.795	8.816	-0.021	88	288279	7.50	6.93	M
51 Bis(2-chloroethoxy)methane	93	8.843	8.843	0.000	97	314104	3.75	3.67	
S 53 Dinitrotoluene	165				0		7.50	7.47	
52 2,4-Dichlorophenol	162	8.971	8.971	0.000	96	158525	3.75	3.76	
54 1,2,4-Trichlorobenzene	180	9.110	9.110	0.000	93	159360	3.75	3.66	
* 55 Naphthalene-d8	136	9.196	9.196	0.000	100	735568	5.00	5.00	
56 Naphthalene	128	9.228	9.228	0.000	98	602777	3.75	3.62	
57 4-Chloroaniline	127	9.324	9.324	0.000	95	241886	3.75	3.64	
58 2,6-Dichlorophenol	162	9.335	9.335	0.000	94	152396	3.75	3.73	
59 Hexachloropropene	213	9.378	9.383	-0.005	94	93626	3.75	3.59	
60 Hexachlorobutadiene	225	9.453	9.447	0.005	95	82935	3.75	3.63	
S 63 Diallate	86				0		3.75	3.70	
62 Quinoline	129	9.763	9.763	0.000	96	378939	3.75	3.70	
64 Caprolactam	113	9.838	9.859	-0.021	84	59490	3.75	3.65	
65 N-Nitrosodi-n-butylamine	84	9.896	9.902	-0.006	91	169488	3.75	3.18	
66 4-Chloro-3-methylphenol	107	10.121	10.127	-0.006	94	203795	3.75	3.73	
67 Safrole, Total	162	10.233	10.234	-0.001	84	134266	3.75	3.60	
69 2-Methylnaphthalene	142	10.356	10.357	-0.001	92	393299	3.75	3.73	
70 1-Methylnaphthalene	142	10.512	10.517	-0.005	92	365995	3.75	3.66	
71 Hexachlorocyclopentadiene	237	10.624	10.624	0.000	96	91620	3.75	3.66	
72 1,2,4,5-Tetrachlorobenzene	216	10.629	10.629	0.000	95	141279	3.75	3.66	
73 Isosafrole Peak 1	162	10.715	10.715	0.000	86	24652	0.6000	0.5622	
74 2,4,6-Trichlorophenol	196	10.816	10.822	-0.006	92	98540	3.75	3.56	
75 2,4,5-Trichlorophenol	196	10.865	10.870	-0.005	91	109872	3.75	3.75	
$ 76 2-Fluorobiphenyl (Surr)	172	10.972	10.977	-0.005	99	794751	7.50	7.43	
77 Isosafrole Peak 2	162	11.078	11.084	-0.006	88	143500	3.15	3.10	
79 1,1'-Biphenyl	154	11.132	11.132	0.000	96	461803	3.75	3.74	
80 2-Chloronaphthalene	162	11.148	11.148	0.000	99	361107	3.75	3.71	
81 1-Chloronaphthalene	162	11.180	11.180	0.000	95	313575	3.75	3.62	
82 Phenyl ether	170	11.308	11.314	-0.006	88	228840	3.75	3.72	
83 2-Nitroaniline	138	11.314	11.319	-0.005	76	121908	3.75	3.66	
84 1,4-Naphthoquinone	158	11.437	11.437	0.000	83	149849	3.75	3.77	
85 1,4-Dinitrobenzene	168	11.549	11.549	0.000	84	53742	3.75	3.65	
86 Dimethyl phthalate	163	11.640	11.640	0.000	96	407006	3.75	3.78	
87 1,3-Dinitrobenzene	168	11.656	11.656	0.000	83	61637	3.75	3.70	
88 2,6-Dinitrotoluene	165	11.710	11.715	-0.005	89	90733	3.75	3.83	
90 Acenaphthylene	152	11.790	11.795	-0.005	99	515254	3.75	3.69	
91 3-Nitroaniline	138	11.940	11.940	0.000	93	104479	3.75	3.75	
* 92 Acenaphthene-d10	164	11.998	11.999	-0.001	97	341146	5.00	5.00	
93 Acenaphthene	153	12.041	12.041	0.000	98	377030	3.75	3.65	
94 2,4-Dinitrophenol	184	12.089	12.090	-0.001	76	85817	7.50	6.73	
96 4-Nitrophenol	109	12.175	12.180	-0.005	92	68935	3.75	3.38	
98 Pentachlorobenzene	250	12.223	12.223	0.000	96	126721	3.75	3.81	
99 2,4-Dinitrotoluene	165	12.266	12.271	-0.005	86	118120	3.75	3.63	
100 Dibenzofuran	168	12.277	12.277	0.000	95	474710	3.75	3.65	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 1-Naphthylamine	143	12.373	12.378	-0.005	98	379219	3.75	3.62	
102 2,3,4,6-Tetrachlorophenol	232	12.437	12.437	0.000	80	75959	3.75	3.62	
103 2-Naphthylamine	143	12.474	12.480	-0.006	95	385585	3.75	3.68	
104 Diethyl phthalate	149	12.603	12.608	-0.005	97	409349	3.75	3.60	
106 Thionazin	107	12.699	12.705	-0.006	75	87623	3.75	3.85	
105 Fluorene	166	12.710	12.715	-0.005	91	387980	3.75	3.59	
107 N-Nitro-o-toluidine	152	12.726	12.731	-0.005	84	114043	3.75	3.63	
108 4-Chlorophenyl phenyl ether	204	12.731	12.737	-0.006	90	163422	3.75	3.68	
109 4-Nitroaniline	138	12.731	12.737	-0.006	80	114837	3.75	3.76	
110 4,6-Dinitro-2-methylphenol	198	12.779	12.785	-0.006	76	54870	3.75	3.52	
111 N-Nitrosodiphenylamine	169	12.881	12.881	0.000	66	328240	3.75	3.76	
112 1,2-Diphenylhydrazine	77	12.929	12.929	0.000	42	559570	3.75	3.73	
$ 113 2,4,6-Tribromophenol	330	13.020	13.020	0.000	91	94761	7.50	6.99	
114 Sulfotepp	97	13.111	13.111	0.000	78	96581	3.75	3.87	
115 cis-Diallate	86	13.261	13.266	-0.005	86	168735	2.78	2.77	
116 Phorate	75	13.271	13.272	-0.001	95	351823	3.75	3.73	
117 Phenacetin	108	13.277	13.282	-0.005	87	261088	3.75	3.76	
118 4-Bromophenyl phenyl ether	248	13.357	13.357	0.000	75	89322	3.75	3.66	
119 trans-Diallate	86	13.373	13.379	-0.006	93	58029	0.9750	0.9320	
120 Hexachlorobenzene	284	13.416	13.416	0.000	90	101397	3.75	3.81	
121 Dimethoate	87	13.475	13.480	-0.005	97	229019	3.75	3.68	
122 Atrazine	200	13.576	13.582	-0.006	85	103133	3.75	3.95	
123 Pentachlorophenol	266	13.678	13.678	0.000	87	63253	3.75	3.61	
124 4-Aminobiphenyl	169	13.689	13.689	0.000	92	305675	3.75	3.70	
125 Pentachloronitrobenzene	237	13.694	13.699	-0.005	83	47017	3.75	3.77	
126 Pronamide	173	13.780	13.785	-0.005	90	188981	3.75	3.74	
* 127 Phenanthrene-d10	188	13.929	13.935	-0.006	96	627097	5.00	5.00	
128 Dinoseb	211	13.935	13.940	-0.005	89	78577	3.75	3.44	
129 Phenanthrene	178	13.961	13.967	-0.006	99	553314	3.75	3.63	
130 Anthracene	178	14.031	14.036	-0.005	99	573815	3.75	3.71	
131 Carbazole	167	14.250	14.256	-0.006	96	535303	3.75	3.69	
132 Methyl parathion	109	14.459	14.459	0.000	89	178175	3.75	3.62	
133 Di-n-butyl phthalate	149	14.774	14.775	-0.001	100	766703	3.75	3.70	
134 Ethyl Parathion	109	15.026	15.031	-0.005	82	108476	3.75	3.62	
135 4-Nitroquinoline-1-oxide	190	15.047	15.053	-0.006	86	60063	3.75	3.27	
136 Octachlorostyrene	308	15.406	15.406	0.000	92	46022	3.75	3.68	
137 Isodrin	193	15.464	15.465	0.000	86	64961	3.75	3.55	
138 Fluoranthene	202	15.689	15.694	-0.005	99	584063	3.75	3.72	
139 Benzidine	184	15.914	15.919	-0.005	99	1275964	11.3	11.0	
* 140 Pyrene-d10 (IS)	212	16.015	16.021	-0.006	98	614648	5.00	5.00	
141 Pyrene	202	16.047	16.053	-0.006	95	616057	3.75	3.61	
$ 142 p-Terphenyl-d14	244	16.326	16.331	-0.005	97	820601	7.50	7.38	
143 p-Dimethylamino azobenzene	225	16.566	16.566	0.000	89	93541	3.75	3.56	
144 Chlorobenzilate	139	16.657	16.657	0.000	80	237166	3.75	3.64	
145 3,3'-Dimethylbenzidine	212	17.139	17.144	-0.006	98	398000	3.75	3.64	
146 Butyl benzyl phthalate	149	17.197	17.197	0.000	93	348886	3.75	3.75	
147 2-Acetylaminofluorene	181	17.572	17.577	-0.005	93	247519	3.75	3.48	
148 3,3'-Dichlorobenzidine	252	18.096	18.101	-0.005	77	205959	3.75	3.68	
150 4,4'-Methylene bis(2-chloroanil	231	18.112	18.117	-0.005	92	105076	3.75	3.59	
149 Benzo[a]anthracene	228	18.117	18.123	-0.006	98	528962	3.75	3.72	
151 Chrysene	228	18.181	18.187	-0.006	96	537914	3.75	3.78	
152 Bis(2-ethylhexyl) phthalate	149	18.278	18.283	-0.005	97	510465	3.75	3.65	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
153 6-Methylchrysene	242	19.000	19.005	-0.005	96	359739	3.75	3.64	
154 Di-n-octyl phthalate	149	19.460	19.465	-0.005	99	870053	3.75	3.52	
155 Benzo[b]fluoranthene	252	20.011	20.016	-0.005	95	545993	3.75	3.64	
156 7,12-Dimethylbenz(a)anthracene	256	20.011	20.016	-0.005	76	229435	3.75	3.63	
157 Benzo[k]fluoranthene	252	20.059	20.070	-0.011	97	546740	3.75	3.79	
158 Benzo[a]pyrene	252	20.546	20.556	-0.010	82	510456	3.75	3.64	
* 159 Perylene-d12	264	20.642	20.647	-0.005	95	587503	5.00	5.00	
160 3-Methylcholanthrene	268	21.123	21.134	-0.011	95	251819	3.75	3.64	
161 Dibenz[a,h]acridine	279	21.968	21.974	-0.006	92	390814	3.75	3.61	
162 Dibenz[a,j]acridine	279	22.043	22.054	-0.011	95	404988	3.75	3.67	
163 Indeno[1,2,3-cd]pyrene	276	22.332	22.343	-0.011	96	487033	3.75	3.73	M
164 Dibenz(a,h)anthracene	278	22.369	22.386	-0.017	94	493007	3.75	3.77	
165 Benzo[g,h,i]perylene	276	22.776	22.792	-0.016	93	489056	3.75	3.69	
S 166 Isosafrole	162				0		3.75	3.66	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_4_00006 Amount Added: 1.00 Units: mL

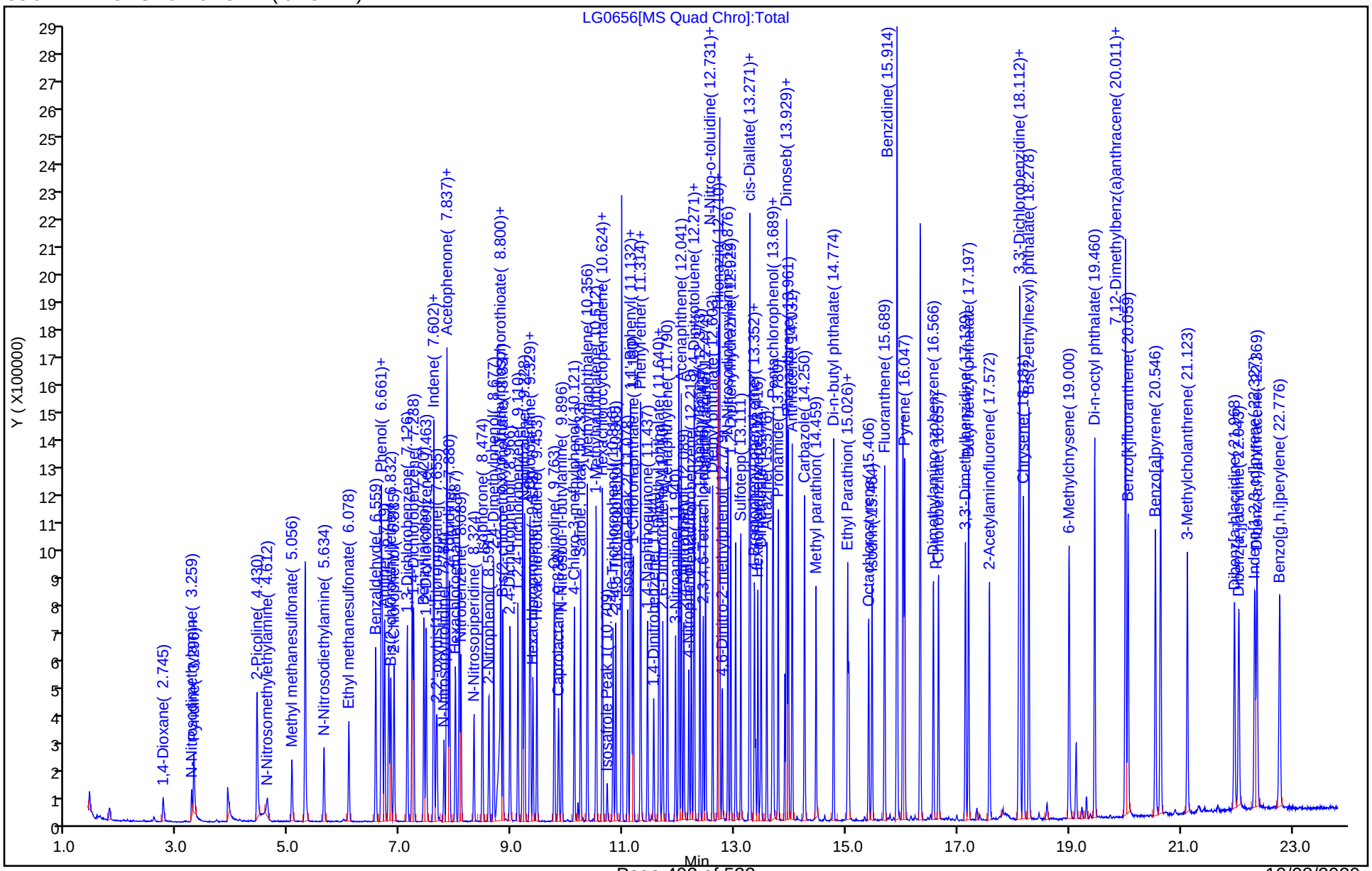
Report Date: 15-Jul-2020 19:26:21 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0656.D

Injection Date:	15-Jul-2020 15:53:17	Instrument ID:	HP20296	Operator ID:	lmh00956
Lims ID:	IC L4			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

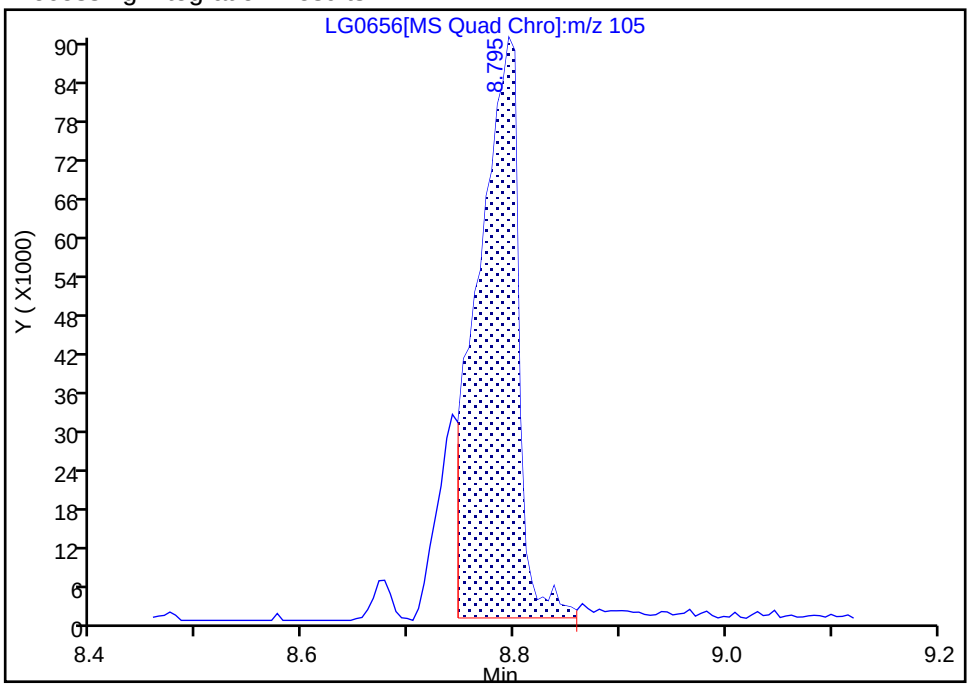
Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0656.D
Injection Date: 15-Jul-2020 15:53:17 Instrument ID: HP20296
Lims ID: IC L4
Client ID:
Operator ID: lmh00956 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

50 Benzoic acid, CAS: 65-85-0

Signal: 1

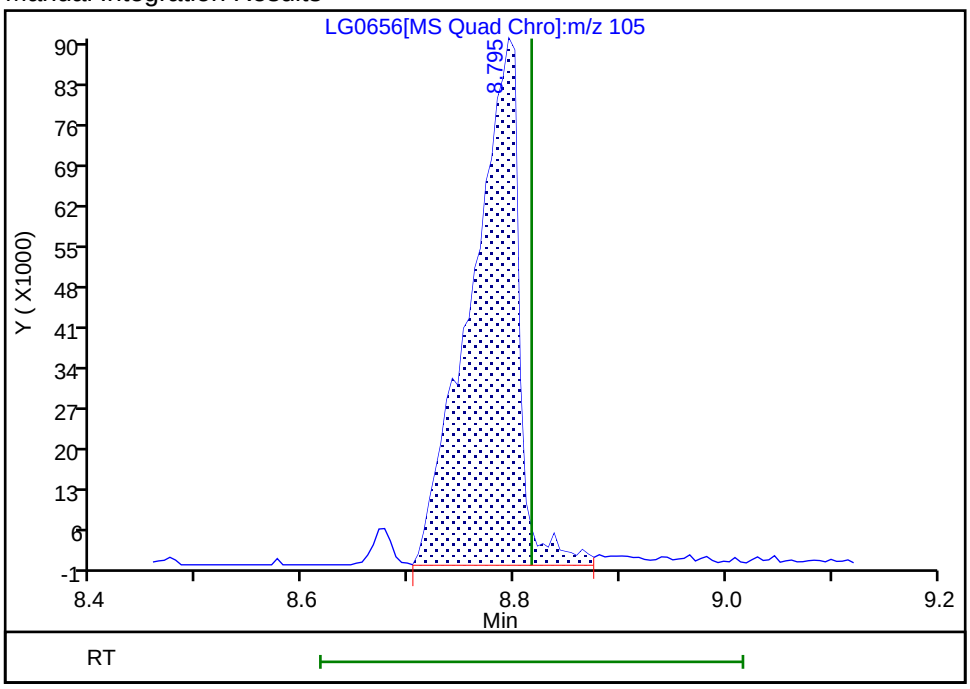
Processing Integration Results

RT: 8.79
Area: 240540
Amount: 5.975366
Amount Units: ug/ml



Manual Integration Results

RT: 8.79
Area: 288279
Amount: 6.933192
Amount Units: ug/ml



Reviewer: transuea, 15-Jul-2020 18:36:45
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

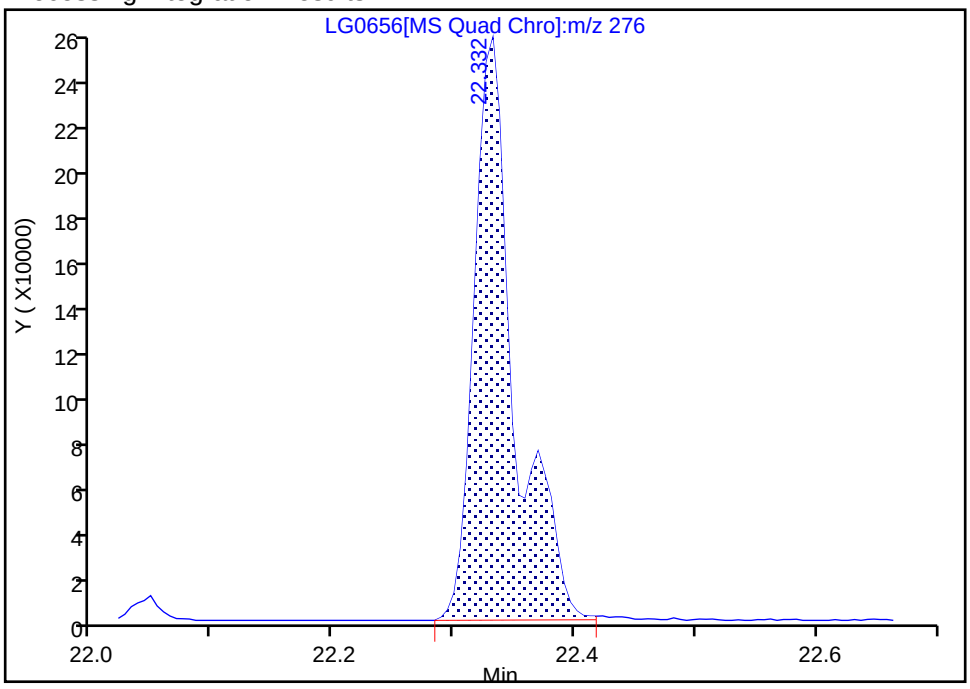
Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0656.D
Injection Date: 15-Jul-2020 15:53:17 Instrument ID: HP20296
Lims ID: IC L4
Client ID:
Operator ID: lmh00956 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

163 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

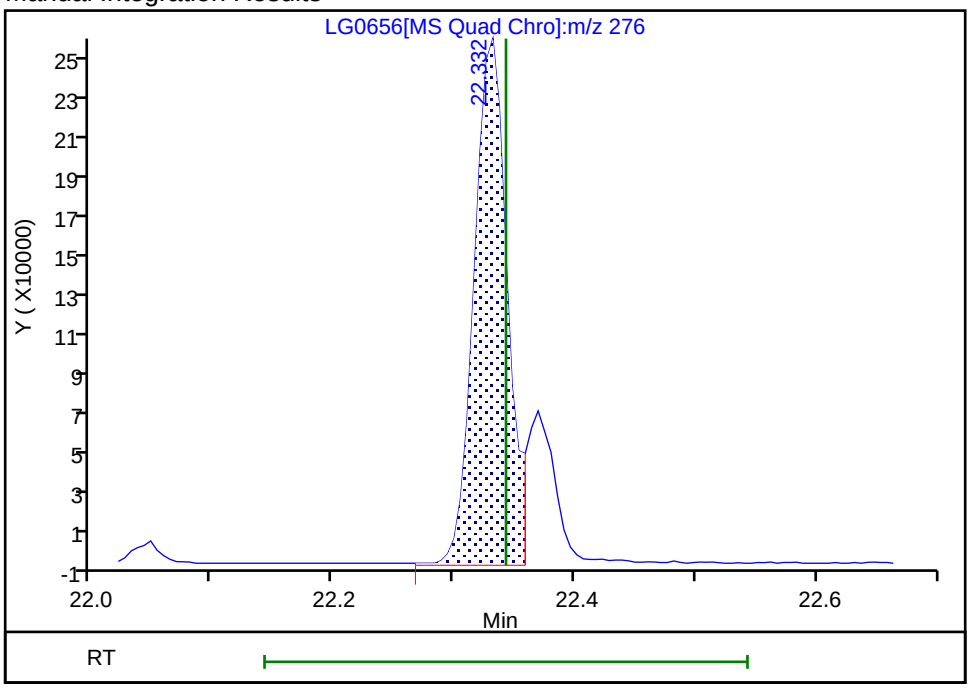
Processing Integration Results

RT: 22.33
Area: 593772
Amount: 4.376675
Amount Units: ug/ml



Manual Integration Results

RT: 22.33
Area: 487033
Amount: 3.732817
Amount Units: ug/ml



Reviewer: transuea, 15-Jul-2020 18:38:48
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0657.D
Lims ID: IC L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 15-Jul-2020 16:22:20 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L3
Misc. Info.: 410-0005639-008
Operator ID: lmh00956 Instrument ID: HP20296
Sublist: chrom-MSSemi_HP20296*sub6

Method: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 15-Jul-2020 19:26:27 Calib Date: 15-Jul-2020 16:51:20
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0658.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1062

First Level Reviewer: transuea Date: 15-Jul-2020 18:42:29

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	2.740	2.740	0.000	92	26188	1.25	1.16	
2 N-Nitrosodimethylamine	74	3.259	3.248	0.011	88	35596	1.25	1.02	
3 Pyridine	79	3.302	3.286	0.016	94	68572	1.25	1.11	
5 2-Picoline	93	4.430	4.425	0.005	93	93341	1.25	1.31	
6 N-Nitrosomethylethylamine	88	4.618	4.607	0.011	89	36312	1.25	1.27	
9 Methyl methanesulfonate	80	5.056	5.051	0.005	85	40115	1.25	1.26	
$ 10 2-Fluorophenol	112	5.291	5.291	0.000	92	154459	2.50	2.68	
11 N-Nitrosodiethylamine	102	5.628	5.628	0.000	89	35135	1.25	1.27	
13 Ethyl methanesulfonate	109	6.078	6.078	0.000	95	39963	1.25	1.30	
15 Benzaldehyde	77	6.559	6.559	0.000	96	68281	1.25	1.24	
$ 16 Phenol-d5	99	6.655	6.661	-0.006	99	179048	2.50	2.41	
17 Phenol	94	6.677	6.677	0.000	96	108396	1.25	1.29	
18 Aniline	93	6.720	6.719	0.001	97	123292	1.25	1.20	
19 Bis(2-chloroethyl)ether	93	6.827	6.832	-0.005	98	88053	1.25	1.28	
20 2-Chlorophenol	128	6.891	6.885	0.006	95	67613	1.25	1.21	
22 1,3-Dichlorobenzene	146	7.126	7.121	0.005	94	73664	1.25	1.23	
* 24 1,4-Dichlorobenzene-d4	152	7.212	7.212	0.000	98	181817	5.00	5.00	
25 1,4-Dichlorobenzene	146	7.238	7.238	0.000	91	76019	1.25	1.25	
27 Benzyl alcohol	108	7.420	7.420	0.000	90	51952	1.25	1.22	
29 1,2-Dichlorobenzene	146	7.468	7.463	0.005	92	74084	1.25	1.29	
30 Indene	115	7.602	7.602	0.000	87	113505	1.25	1.30	
31 2-Methylphenol	108	7.597	7.602	-0.005	94	73031	1.25	1.29	
32 2,2'-oxybis[1-chloropropane]	45	7.645	7.650	-0.005	94	97756	1.25	1.26	
34 N-Nitrosopyrrolidine	100	7.784	7.789	-0.005	95	38992	1.25	1.24	
35 Acetophenone	105	7.827	7.832	-0.005	91	109729	1.25	1.19	
36 4-Methylphenol	108	7.832	7.837	-0.005	94	74693	1.25	1.25	
37 N-Nitrosodi-n-propylamine	70	7.843	7.848	-0.005	78	65599	1.25	1.27	
38 N-Nitrosomorpholine	56	7.853	7.859	-0.006	86	43970	1.25	1.26	
39 2-Toluidine	106	7.880	7.885	-0.005	94	129464	1.25	1.29	
40 Hexachloroethane	117	7.987	7.987	0.000	92	35938	1.25	1.30	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	8.057	8.062	-0.005	87	192648	2.50	2.58	
42 Nitrobenzene	77	8.083	8.089	-0.006	84	98704	1.25	1.30	
44 N-Nitrosopiperidine	114	8.319	8.324	-0.005	90	36715	1.25	1.26	
46 Isophorone	82	8.469	8.474	-0.005	98	168383	1.25	1.26	
47 2-Nitrophenol	139	8.592	8.592	0.000	95	32236	1.25	1.18	
48 2,4-Dimethylphenol	107	8.672	8.677	-0.005	97	79728	1.25	1.27	
49 o,o',o''-Triethylphosphorothioat	198	8.800	8.805	-0.005	92	27735	1.25	1.26	
50 Benzoic acid	105	8.763	8.816	-0.053	91	136277	3.75	3.27	M
51 Bis(2-chloroethoxy)methane	93	8.838	8.843	-0.005	97	111890	1.25	1.30	
S 53 Dinitrotoluene	165				0		2.50	2.52	
52 2,4-Dichlorophenol	162	8.966	8.971	-0.005	96	51569	1.25	1.22	
54 1,2,4-Trichlorobenzene	180	9.105	9.110	-0.005	92	54965	1.25	1.26	
* 55 Naphthalene-d8	136	9.196	9.196	0.000	99	737102	5.00	5.00	
56 Naphthalene	128	9.228	9.228	0.000	97	207248	1.25	1.24	
57 4-Chloroaniline	127	9.324	9.324	0.000	94	82747	1.25	1.24	
58 2,6-Dichlorophenol	162	9.335	9.335	0.000	94	52329	1.25	1.28	
59 Hexachloropropene	213	9.378	9.383	-0.005	91	32170	1.25	1.23	
60 Hexachlorobutadiene	225	9.453	9.447	0.006	95	29498	1.25	1.29	
S 63 Diallate	86				0		1.25	1.31	
62 Quinoline	129	9.763	9.763	0.000	95	133909	1.25	1.30	
64 Caprolactam	113	9.827	9.859	-0.032	82	19946	1.25	1.22	
65 N-Nitrosodi-n-butylamine	84	9.897	9.902	-0.005	89	61070	1.25	1.14	
66 4-Chloro-3-methylphenol	107	10.121	10.127	-0.006	93	67381	1.25	1.23	
67 Safrole, Total	162	10.234	10.234	0.000	81	44787	1.25	1.20	
69 2-Methylnaphthalene	142	10.357	10.357	0.000	93	139416	1.25	1.32	
70 1-Methylnaphthalene	142	10.512	10.517	-0.005	88	127207	1.25	1.27	
71 Hexachlorocyclopentadiene	237	10.624	10.624	0.000	79	31910	1.25	1.23	
72 1,2,4,5-Tetrachlorobenzene	216	10.624	10.629	-0.005	95	50839	1.25	1.27	
73 Isosafrole Peak 1	162	10.710	10.715	-0.005	80	9771	0.2000	0.2151	
74 2,4,6-Trichlorophenol	196	10.817	10.822	-0.005	91	34068	1.25	1.19	
75 2,4,5-Trichlorophenol	196	10.865	10.870	-0.005	89	37870	1.25	1.25	
$ 76 2-Fluorobiphenyl (Surr)	172	10.972	10.977	-0.005	98	277209	2.50	2.50	
77 Isosafrole Peak 2	162	11.079	11.084	-0.005	86	50190	1.05	1.05	
79 1,1'-Biphenyl	154	11.127	11.132	-0.005	95	154181	1.25	1.21	
80 2-Chloronaphthalene	162	11.143	11.148	-0.005	97	135662	1.25	1.35	
81 1-Chloronaphthalene	162	11.175	11.180	-0.005	96	109082	1.25	1.22	
82 Phenyl ether	170	11.309	11.314	-0.005	86	81764	1.25	1.28	
83 2-Nitroaniline	138	11.314	11.319	-0.005	75	42946	1.25	1.25	
84 1,4-Naphthoquinone	158	11.432	11.437	-0.005	76	48162	1.25	1.17	
85 1,4-Dinitrobenzene	168	11.549	11.549	0.000	83	18621	1.25	1.22	
86 Dimethyl phthalate	163	11.635	11.640	-0.005	96	146999	1.25	1.32	
87 1,3-Dinitrobenzene	168	11.656	11.656	0.000	83	22151	1.25	1.29	
88 2,6-Dinitrotoluene	165	11.710	11.715	-0.005	85	31330	1.25	1.28	
90 Acenaphthylene	152	11.790	11.795	-0.005	99	180835	1.25	1.25	
91 3-Nitroaniline	138	11.934	11.940	-0.006	93	36703	1.25	1.27	
* 92 Acenaphthene-d10	164	11.999	11.999	0.000	98	353335	5.00	5.00	
93 Acenaphthene	153	12.041	12.041	0.000	98	134414	1.25	1.26	
94 2,4-Dinitrophenol	184	12.084	12.090	-0.006	79	41710	3.75	3.16	
96 4-Nitrophenol	109	12.175	12.180	-0.005	88	43422	2.50	2.06	
98 Pentachlorobenzene	250	12.218	12.223	-0.005	95	44647	1.25	1.30	
99 2,4-Dinitrotoluene	165	12.266	12.271	-0.005	85	41671	1.25	1.24	
100 Dibenzofuran	168	12.277	12.277	0.000	96	179339	1.25	1.33	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 1-Naphthylamine	143	12.373	12.378	-0.005	98	140811	1.25	1.30	
102 2,3,4,6-Tetrachlorophenol	232	12.432	12.437	-0.005	82	26191	1.25	1.21	
103 2-Naphthylamine	143	12.475	12.480	-0.005	93	136791	1.25	1.26	
104 Diethyl phthalate	149	12.603	12.608	-0.005	97	151833	1.25	1.29	
106 Thionazin	107	12.699	12.705	-0.006	73	30429	1.25	1.29	
105 Fluorene	166	12.710	12.715	-0.005	92	142287	1.25	1.27	
107 N-Nitro-o-toluidine	152	12.726	12.731	-0.005	84	42553	1.25	1.31	
108 4-Chlorophenyl phenyl ether	204	12.731	12.737	-0.006	89	61245	1.25	1.33	
109 4-Nitroaniline	138	12.726	12.737	-0.011	83	41473	1.25	1.31	
110 4,6-Dinitro-2-methylphenol	198	12.774	12.785	-0.011	80	36195	2.50	2.26	
111 N-Nitrosodiphenylamine	169	12.876	12.881	-0.005	66	118882	1.25	1.32	
112 1,2-Diphenylhydrazine	77	12.929	12.929	0.000	42	200556	1.25	1.30	
$ 113 2,4,6-Tribromophenol	330	13.015	13.020	-0.005	85	34858	2.50	2.48	
114 Sulfotepp	97	13.106	13.111	-0.005	77	31085	1.25	1.21	
115 cis-Diallate	86	13.261	13.266	-0.005	90	60861	0.9250	0.9683	
116 Phorate	75	13.272	13.272	0.000	94	126277	1.25	1.30	
117 Phenacetin	108	13.272	13.282	-0.010	89	90537	1.25	1.27	
118 4-Bromophenyl phenyl ether	248	13.352	13.357	-0.005	74	32054	1.25	1.27	
119 trans-Diallate	86	13.373	13.379	-0.006	95	21841	0.3250	0.3403	
120 Hexachlorobenzene	284	13.416	13.416	0.000	88	35452	1.25	1.29	
121 Dimethoate	87	13.470	13.480	-0.010	96	76490	1.25	1.19	
122 Atrazine	200	13.571	13.582	-0.011	86	36667	1.25	1.36	
123 Pentachlorophenol	266	13.673	13.678	-0.005	81	20405	1.25	1.13	
124 4-Aminobiphenyl	169	13.689	13.689	0.000	91	106902	1.25	1.25	
125 Pentachloronitrobenzene	237	13.694	13.699	-0.005	81	16624	1.25	1.29	
126 Pronamide	173	13.780	13.785	-0.005	90	65997	1.25	1.27	
* 127 Phenanthrene-d10	188	13.930	13.935	-0.005	97	646376	5.00	5.00	
128 Dinoseb	211	13.935	13.940	-0.005	74	26000	1.25	1.11	
129 Phenanthrene	178	13.962	13.967	-0.005	98	201884	1.25	1.28	
130 Anthracene	178	14.031	14.036	-0.005	99	198056	1.25	1.24	
131 Carbazole	167	14.250	14.256	-0.006	96	187822	1.25	1.26	
132 Methyl parathion	109	14.459	14.459	0.000	90	58074	1.25	1.15	
133 Di-n-butyl phthalate	149	14.775	14.775	0.000	100	265844	1.25	1.25	
134 Ethyl Parathion	109	15.026	15.031	-0.005	81	35594	1.25	1.15	
135 4-Nitroquinoline-1-oxide	190	15.047	15.053	-0.006	77	18737	1.25	0.99	
136 Octachlorostyrene	308	15.406	15.406	0.000	90	16585	1.25	1.29	
137 Isodrin	193	15.465	15.465	0.001	88	23883	1.25	1.26	
138 Fluoranthene	202	15.689	15.694	-0.005	98	207142	1.25	1.28	
139 Benzidine	184	15.909	15.919	-0.010	99	463646	3.75	3.78	
* 140 Pyrene-d10 (IS)	212	16.016	16.021	-0.005	98	650078	5.00	5.00	
141 Pyrene	202	16.048	16.053	-0.005	95	220205	1.25	1.22	
$ 142 p-Terphenyl-d14	244	16.326	16.331	-0.005	97	289744	2.50	2.46	
143 p-Dimethylamino azobenzene	225	16.566	16.566	0.000	89	30658	1.25	1.10	
144 Chlorobenzilate	139	16.657	16.657	0.000	80	82701	1.25	1.20	
145 3,3'-Dimethylbenzidine	212	17.139	17.144	-0.005	98	131385	1.25	1.13	
146 Butyl benzyl phthalate	149	17.192	17.197	-0.005	94	118433	1.25	1.20	
147 2-Acetylaminofluorene	181	17.567	17.577	-0.010	92	82739	1.25	1.10	
148 3,3'-Dichlorobenzidine	252	18.096	18.101	-0.005	78	66194	1.25	1.12	
150 4,4'-Methylene bis(2-chloroanil	231	18.112	18.117	-0.005	79	36800	1.25	1.19	
149 Benzo[a]anthracene	228	18.112	18.123	-0.011	97	187198	1.25	1.24	
151 Chrysene	228	18.176	18.187	-0.011	96	187176	1.25	1.24	
152 Bis(2-ethylhexyl) phthalate	149	18.278	18.283	-0.005	97	172406	1.25	1.16	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
153 6-Methylchrysene	242	19.000	19.005	-0.005	98	125350	1.25	1.20	
154 Di-n-octyl phthalate	149	19.455	19.465	-0.010	99	278142	1.25	1.11	
155 Benzo[b]fluoranthene	252	20.006	20.016	-0.010	95	191247	1.25	1.26	
156 7,12-Dimethylbenz(a)anthracene	256	20.006	20.016	-0.010	70	77223	1.25	1.20	
157 Benzo[k]fluoranthene	252	20.054	20.070	-0.016	96	182905	1.25	1.25	
158 Benzo[a]pyrene	252	20.546	20.556	-0.010	83	177483	1.25	1.25	
* 159 Perylene-d12	264	20.642	20.647	-0.005	95	595720	5.00	5.00	
160 3-Methylcholanthrene	268	21.118	21.134	-0.016	94	84471	1.25	1.20	
161 Dibenz[a,h]acridine	279	21.963	21.974	-0.011	91	129646	1.25	1.18	
162 Dibenz[a,j]acridine	279	22.038	22.054	-0.016	95	133449	1.25	1.19	
163 Indeno[1,2,3-cd]pyrene	276	22.327	22.343	-0.016	96	158181	1.25	1.20	
164 Dibenz(a,h)anthracene	278	22.370	22.386	-0.016	95	164819	1.25	1.24	
165 Benzo[g,h,i]perylene	276	22.771	22.792	-0.021	92	162489	1.25	1.21	
S 166 Isosafrole	162				0		1.25	1.26	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_3_00006 Amount Added: 1.00 Units: mL

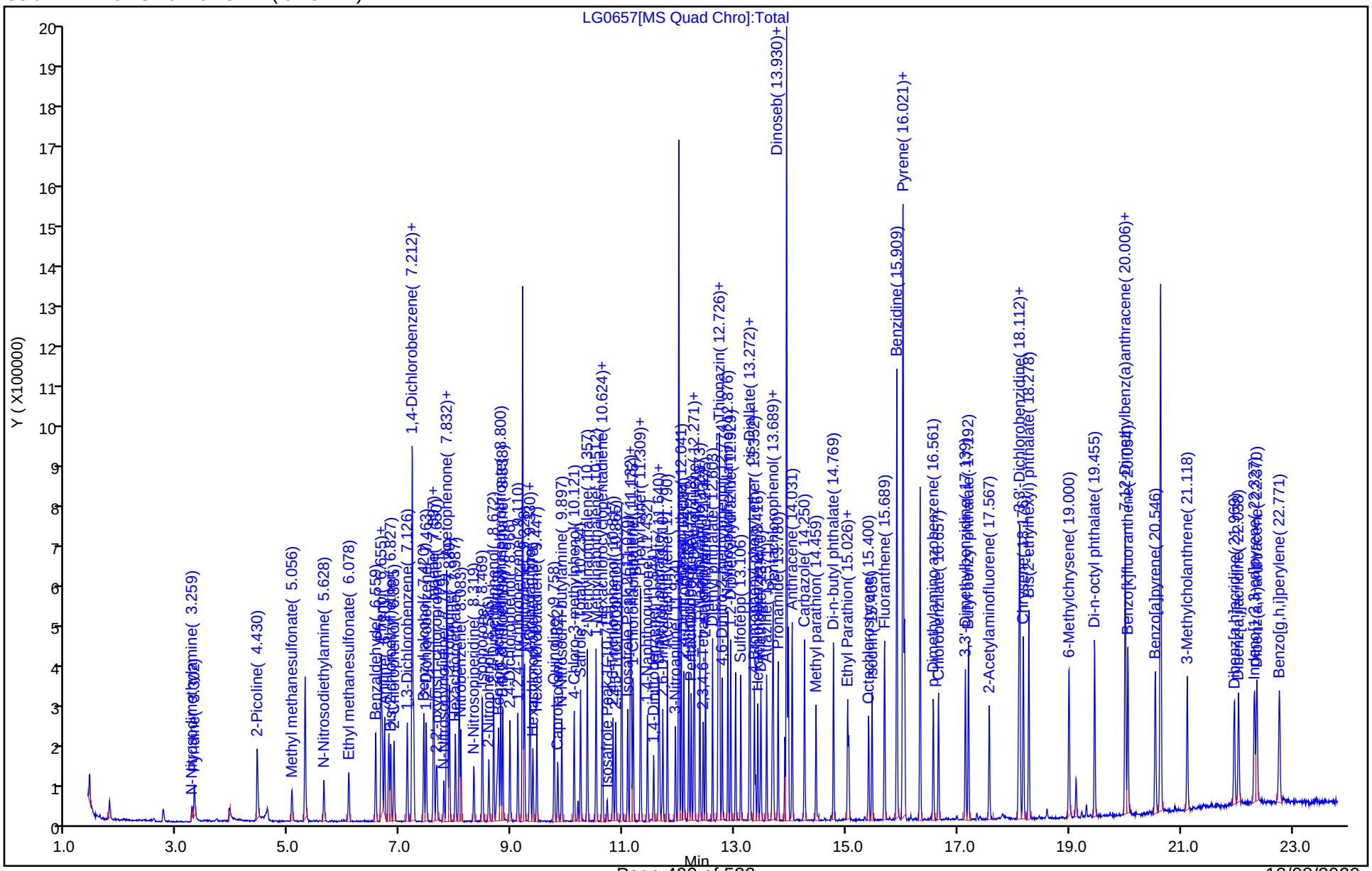
Report Date: 15-Jul-2020 19:26:30 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0657.D

Injection Date:	15-Jul-2020 16:22:20	Instrument ID:	HP20296	Operator ID:	lmh00956
Lims ID:	IC L3			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

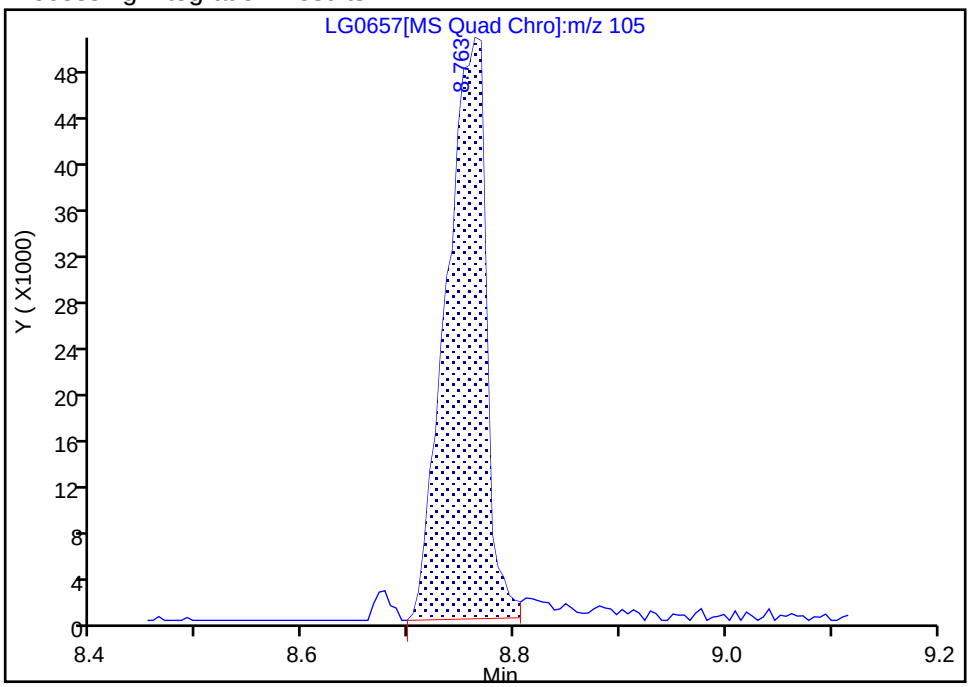
Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0657.D
Injection Date: 15-Jul-2020 16:22:20 Instrument ID: HP20296
Lims ID: IC L3
Client ID:
Operator ID: lmh00956 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

50 Benzoic acid, CAS: 65-85-0

Signal: 1

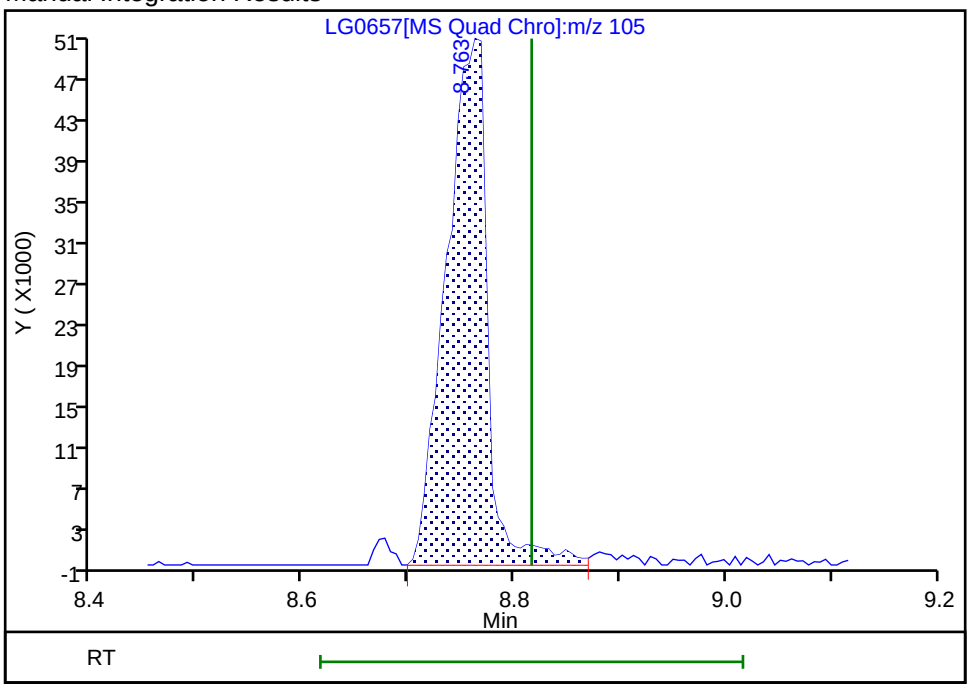
Processing Integration Results

RT: 8.76
Area: 130338
Amount: 3.148086
Amount Units: ug/ml



Manual Integration Results

RT: 8.76
Area: 136277
Amount: 3.270680
Amount Units: ug/ml



Reviewer: transuea, 15-Jul-2020 18:41:05
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0658.D
Lims ID: IC L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 15-Jul-2020 16:51:20 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L2
Misc. Info.: 410-0005639-009
Operator ID: lmh00956 Instrument ID: HP20296
Sublist: chrom-MSSemi_HP20296*sub6

Method: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 15-Jul-2020 19:26:36 Calib Date: 15-Jul-2020 16:51:20
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0658.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1062

First Level Reviewer: transuea Date: 15-Jul-2020 18:47:35

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	2.751	2.740	0.011	47	4443	0.2500	0.2023	
2 N-Nitrosodimethylamine	74	3.280	3.248	0.032	57	6234	0.2500	0.1835	
3 Pyridine	79	3.328	3.286	0.042	92	13790	0.2500	0.2290	
5 2-Picoline	93	4.441	4.425	0.016	91	11030	0.2500	0.1585	
6 N-Nitrosomethylethylamine	88	4.628	4.607	0.021	1	5469	0.2500	0.1958	M
9 Methyl methanesulfonate	80	5.056	5.051	0.005	79	7561	0.2500	0.2439	
$ 10 2-Fluorophenol	112	5.291	5.291	0.000	92	19694	0.5000	0.3500	
11 N-Nitrosodiethylamine	102	5.628	5.628	0.000	92	6339	0.2500	0.2352	
13 Ethyl methanesulfonate	109	6.078	6.078	0.000	93	6679	0.2500	0.2234	
15 Benzaldehyde	77	6.559	6.559	0.000	86	15301	0.2500	0.2844	
$ 16 Phenol-d5	99	6.655	6.661	-0.006	97	33297	0.5000	0.4589	
17 Phenol	94	6.671	6.677	-0.006	56	19215	0.2500	0.2347	M
18 Aniline	93	6.714	6.719	-0.005	88	24511	0.2500	0.2456	
19 Bis(2-chloroethyl)ether	93	6.826	6.832	-0.006	97	17771	0.2500	0.2643	
20 2-Chlorophenol	128	6.885	6.885	0.000	95	13714	0.2500	0.2512	
22 1,3-Dichlorobenzene	146	7.126	7.121	0.005	93	16278	0.2500	0.2784	
* 24 1,4-Dichlorobenzene-d4	152	7.217	7.212	0.005	97	177282	5.00	5.00	
25 1,4-Dichlorobenzene	146	7.238	7.238	0.000	91	15938	0.2500	0.2688	
27 Benzyl alcohol	108	7.420	7.420	0.000	89	9632	0.2500	0.2312	
29 1,2-Dichlorobenzene	146	7.463	7.463	0.000	91	14694	0.2500	0.2615	
30 Indene	115	7.602	7.602	0.000	83	21459	0.2500	0.2515	
31 2-Methylphenol	108	7.597	7.602	-0.005	95	13655	0.2500	0.2474	
32 2,2'-oxybis[1-chloropropane]	45	7.650	7.650	0.000	95	20852	0.2500	0.2746	
34 N-Nitrosopyrrolidine	100	7.778	7.789	-0.011	96	6932	0.2500	0.2258	
35 Acetophenone	105	7.827	7.832	-0.005	85	23608	0.2500	0.2630	
36 4-Methylphenol	108	7.832	7.837	-0.005	91	14332	0.2500	0.2464	
37 N-Nitrosodi-n-propylamine	70	7.843	7.848	-0.005	80	11857	0.2500	0.2363	
38 N-Nitrosomorpholine	56	7.853	7.859	-0.006	56	7805	0.2500	0.2292	
39 2-Toluidine	106	7.880	7.885	-0.005	94	25079	0.2500	0.2560	
40 Hexachloroethane	117	7.987	7.987	0.000	89	5741	0.2500	0.2135	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	8.057	8.062	-0.005	83	38880	0.5000	0.5224	
42 Nitrobenzene	77	8.083	8.089	-0.006	85	18828	0.2500	0.2492	
44 N-Nitrosopiperidine	114	8.319	8.324	-0.005	85	6603	0.2500	0.2279	
46 Isophorone	82	8.474	8.474	0.000	61	32590	0.2500	0.2441	
47 2-Nitrophenol	139	8.591	8.592	-0.001	95	5997	0.2500	0.2203	
48 2,4-Dimethylphenol	107	8.672	8.677	-0.005	91	14561	0.2500	0.2331	
49 o,o',o''-Triethylphosphorothioat	198	8.800	8.805	-0.005	92	5445	0.2500	0.2482	
50 Benzoic acid	105	8.752	8.816	-0.064	86	80776	2.50	1.94	M
51 Bis(2-chloroethoxy)methane	93	8.837	8.843	-0.006	97	22055	0.2500	0.2578	
S 53 Dinitrotoluene	165				0		0.5000	0.4369	
52 2,4-Dichlorophenol	162	8.966	8.971	-0.005	96	9282	0.2500	0.2204	
54 1,2,4-Trichlorobenzene	180	9.110	9.110	0.000	94	11343	0.2500	0.2608	
* 55 Naphthalene-d8	136	9.196	9.196	0.000	100	735252	5.00	5.00	
56 Naphthalene	128	9.228	9.228	0.000	97	42254	0.2500	0.2541	
57 4-Chloroaniline	127	9.324	9.324	0.000	89	16912	0.2500	0.2548	
58 2,6-Dichlorophenol	162	9.329	9.335	-0.006	87	9097	0.2500	0.2227	
59 Hexachloropropene	213	9.378	9.383	-0.005	91	5932	0.2500	0.2277	
60 Hexachlorobutadiene	225	9.447	9.447	0.000	85	5527	0.2500	0.2420	
S 63 Diallate	86				0		0.2500	0.2254	
62 Quinoline	129	9.763	9.763	0.000	94	25208	0.2500	0.2460	
64 Caprolactam	113	9.816	9.859	-0.043	85	4935	0.2500	0.3031	
65 N-Nitrosodi-n-butylamine	84	9.896	9.902	-0.006	91	11707	0.2500	0.2197	
66 4-Chloro-3-methylphenol	107	10.116	10.127	-0.011	94	13352	0.2500	0.2443	
67 Safrole, Total	162	10.233	10.234	-0.001	85	9461	0.2500	0.2540	
69 2-Methylnaphthalene	142	10.356	10.357	-0.001	91	24840	0.2500	0.2359	
70 1-Methylnaphthalene	142	10.512	10.517	-0.005	91	24846	0.2500	0.2484	
71 Hexachlorocyclopentadiene	237	10.619	10.624	-0.006	82	5556	0.2500	0.2251	
72 1,2,4,5-Tetrachlorobenzene	216	10.624	10.629	-0.005	91	9603	0.2500	0.2523	
73 Isosafrole Peak 1	162	10.709	10.715	-0.006	86	2187	0.0400	0.0505	
74 2,4,6-Trichlorophenol	196	10.816	10.822	-0.006	92	6640	0.2500	0.2433	
75 2,4,5-Trichlorophenol	196	10.865	10.870	-0.005	91	6467	0.2500	0.2240	
$ 76 2-Fluorobiphenyl (Surr)	172	10.972	10.977	-0.005	98	52093	0.5000	0.4933	
77 Isosafrole Peak 2	162	11.078	11.084	-0.006	88	9419	0.2100	0.2061	
79 1,1'-Biphenyl	154	11.127	11.132	-0.005	96	31010	0.2500	0.2546	
80 2-Chloronaphthalene	162	11.143	11.148	-0.005	96	23138	0.2500	0.2409	
81 1-Chloronaphthalene	162	11.175	11.180	-0.005	96	23535	0.2500	0.2756	
82 Phenyl ether	170	11.314	11.314	0.000	81	14311	0.2500	0.2356	
83 2-Nitroaniline	138	11.319	11.319	0.000	67	7641	0.2500	0.2325	
84 1,4-Naphthoquinone	158	11.432	11.437	-0.005	85	7859	0.2500	0.2003	
85 1,4-Dinitrobenzene	168	11.549	11.549	0.000	81	3600	0.2500	0.2478	
86 Dimethyl phthalate	163	11.635	11.640	-0.005	97	28060	0.2500	0.2642	
87 1,3-Dinitrobenzene	168	11.651	11.656	-0.005	78	3004	0.2500	0.1829	
88 2,6-Dinitrotoluene	165	11.710	11.715	-0.005	86	5388	0.2500	0.2308	
90 Acenaphthylene	152	11.790	11.795	-0.005	98	35210	0.2500	0.2553	
91 3-Nitroaniline	138	11.934	11.940	-0.006	88	6171	0.2500	0.2244	
* 92 Acenaphthene-d10	164	11.998	11.999	-0.001	98	336630	5.00	5.00	
93 Acenaphthene	153	12.041	12.041	0.000	96	25840	0.2500	0.2535	
94 2,4-Dinitrophenol	184	12.084	12.090	-0.006	74	20345	2.25	1.62	
96 4-Nitrophenol	109	12.175	12.180	-0.005	93	20606	1.25	1.03	
98 Pentachlorobenzene	250	12.218	12.223	-0.005	90	8235	0.2500	0.2509	
99 2,4-Dinitrotoluene	165	12.266	12.271	-0.005	75	6610	0.2500	0.2061	
100 Dibenzofuran	168	12.277	12.277	0.000	96	32270	0.2500	0.2518	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 1-Naphthylamine	143	12.373	12.378	-0.005	97	24089	0.2500	0.2333	
102 2,3,4,6-Tetrachlorophenol	232	12.432	12.437	-0.005	74	5333	0.2500	0.2579	
103 2-Naphthylamine	143	12.474	12.480	-0.006	95	26597	0.2500	0.2573	
104 Diethyl phthalate	149	12.603	12.608	-0.005	95	29257	0.2500	0.2610	
106 Thionazin	107	12.699	12.705	-0.006	71	5625	0.2500	0.2502	
105 Fluorene	166	12.710	12.715	-0.005	95	26927	0.2500	0.2528	
107 N-Nitro-o-toluidine	152	12.726	12.731	-0.005	69	7671	0.2500	0.2475	
108 4-Chlorophenyl phenyl ether	204	12.731	12.737	-0.006	75	11305	0.2500	0.2581	
109 4-Nitroaniline	138	12.726	12.737	-0.011	77	7564	0.2500	0.2511	
110 4,6-Dinitro-2-methylphenol	198	12.779	12.785	-0.006	78	14127	1.25	0.9094	
111 N-Nitrosodiphenylamine	169	12.876	12.881	-0.005	64	22938	0.2500	0.2632	
112 1,2-Diphenylhydrazine	77	12.924	12.929	-0.005	42	38979	0.2500	0.2602	
$ 113 2,4,6-Tribromophenol	330	13.015	13.020	-0.005	86	5826	0.5000	0.4353	
114 Sulfotepp	97	13.106	13.111	-0.005	77	6805	0.2500	0.2733	
115 cis-Diallate	86	13.261	13.266	-0.005	74	10343	0.1850	0.1700	
116 Phorate	75	13.266	13.272	-0.006	92	20889	0.2500	0.2222	
117 Phenacetin	108	13.271	13.282	-0.011	80	15410	0.2500	0.2225	
118 4-Bromophenyl phenyl ether	248	13.357	13.357	0.000	74	7247	0.2500	0.2974	Ma
119 trans-Diallate	86	13.373	13.379	-0.006	91	3440	0.0650	0.0554	
120 Hexachlorobenzene	284	13.416	13.416	0.000	87	6977	0.2500	0.2624	
121 Dimethoate	87	13.469	13.480	-0.011	97	14341	0.2500	0.2312	
122 Atrazine	200	13.571	13.582	-0.011	84	6688	0.2500	0.2568	
123 Pentachlorophenol	266	13.673	13.678	-0.005	80	3978	0.2500	0.2276	
124 4-Aminobiphenyl	169	13.683	13.689	-0.006	91	21064	0.2500	0.2552	
125 Pentachloronitrobenzene	237	13.683	13.699	-0.016	49	3163	0.2500	0.2545	
126 Pronamide	173	13.780	13.785	-0.005	88	11000	0.2500	0.2182	
* 127 Phenanthrene-d10	188	13.929	13.935	-0.006	97	625649	5.00	5.00	
128 Dinoseb	211	13.929	13.940	-0.011	62	3504	0.2500	0.1539	
129 Phenanthrene	178	13.956	13.967	-0.011	98	40709	0.2500	0.2676	
130 Anthracene	178	14.026	14.036	-0.010	97	39913	0.2500	0.2587	
131 Carbazole	167	14.250	14.256	-0.006	96	35593	0.2500	0.2461	
132 Methyl parathion	109	14.459	14.459	0.000	86	8880	0.2500	0.1810	
133 Di-n-butyl phthalate	149	14.774	14.775	-0.001	100	45991	0.2500	0.2226	
134 Ethyl Parathion	109	15.026	15.031	-0.005	78	5472	0.2500	0.1832	
135 4-Nitroquinoline-1-oxide	190	15.047	15.053	-0.006	76	2741	0.2500	0.1497	
136 Octachlorostyrene	308	15.400	15.406	-0.006	78	3455	0.2500	0.2770	
137 Isodrin	193	15.464	15.465	0.000	86	5489	0.2500	0.3003	
138 Fluoranthene	202	15.689	15.694	-0.005	98	35464	0.2500	0.2266	
139 Benzidine	184	15.908	15.919	-0.011	98	200926	2.00	1.77	
* 140 Pyrene-d10 (IS)	212	16.015	16.021	-0.006	99	602098	5.00	5.00	
141 Pyrene	202	16.042	16.053	-0.011	74	43335	0.2500	0.2589	
$ 142 p-Terphenyl-d14	244	16.326	16.331	-0.005	97	52010	0.5000	0.4776	
143 p-Dimethylamino azobenzene	225	16.566	16.566	0.000	89	4935	0.2500	0.1916	
144 Chlorobenzilate	139	16.652	16.657	-0.005	78	14147	0.2500	0.2214	
145 3,3'-Dimethylbenzidine	212	17.139	17.144	-0.006	97	22792	0.2500	0.2125	
146 Butyl benzyl phthalate	149	17.192	17.197	-0.005	91	19881	0.2500	0.2182	
147 2-Acetylaminofluorene	181	17.566	17.577	-0.011	91	13204	0.2500	0.1893	
148 3,3'-Dichlorobenzidine	252	18.091	18.101	-0.010	79	12143	0.2500	0.2217	
150 4,4'-Methylene bis(2-chloroanil	231	18.107	18.117	-0.010	66	5110	0.2500	0.1784	
149 Benzo[a]anthracene	228	18.112	18.123	-0.011	95	33397	0.2500	0.2396	
151 Chrysene	228	18.176	18.187	-0.011	94	35060	0.2500	0.2512	
152 Bis(2-ethylhexyl) phthalate	149	18.278	18.283	-0.005	95	27229	0.2500	0.1985	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
153 6-Methylchrysene	242	18.994	19.005	-0.011	97	22941	0.2500	0.2367	
154 Di-n-octyl phthalate	149	19.454	19.465	-0.011	99	42726	0.2500	0.1790	
155 Benzo[b]fluoranthene	252	20.005	20.016	-0.011	96	34904	0.2500	0.2410	
156 7,12-Dimethylbenz(a)anthracene	256	20.000	20.016	-0.016	66	13114	0.2500	0.2149	
157 Benzo[k]fluoranthene	252	20.054	20.070	-0.016	94	33805	0.2500	0.2426	
158 Benzo[a]pyrene	252	20.546	20.556	-0.010	81	33556	0.2500	0.2483	
* 159 Perylene-d12	264	20.642	20.647	-0.005	94	566832	5.00	5.00	
160 3-Methylcholanthrene	268	21.107	21.134	-0.027	91	13842	0.2500	0.2072	
161 Dibenz[a,h]acridine	279	21.963	21.974	-0.011	91	22787	0.2500	0.2184	
162 Dibenz[a,j]acridine	279	22.043	22.054	-0.011	95	25560	0.2500	0.2398	
163 Indeno[1,2,3-cd]pyrene	276	22.327	22.343	-0.016	91	29184	0.2500	0.2318	M
164 Dibenz(a,h)anthracene	278	22.359	22.386	-0.027	93	28955	0.2500	0.2295	
165 Benzo[g,h,i]perylene	276	22.765	22.792	-0.027	93	30221	0.2500	0.2362	
S 166 Isosafrole	162				0		0.2500	0.2566	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSS_RV8270_2_00006 Amount Added: 1.00 Units: mL

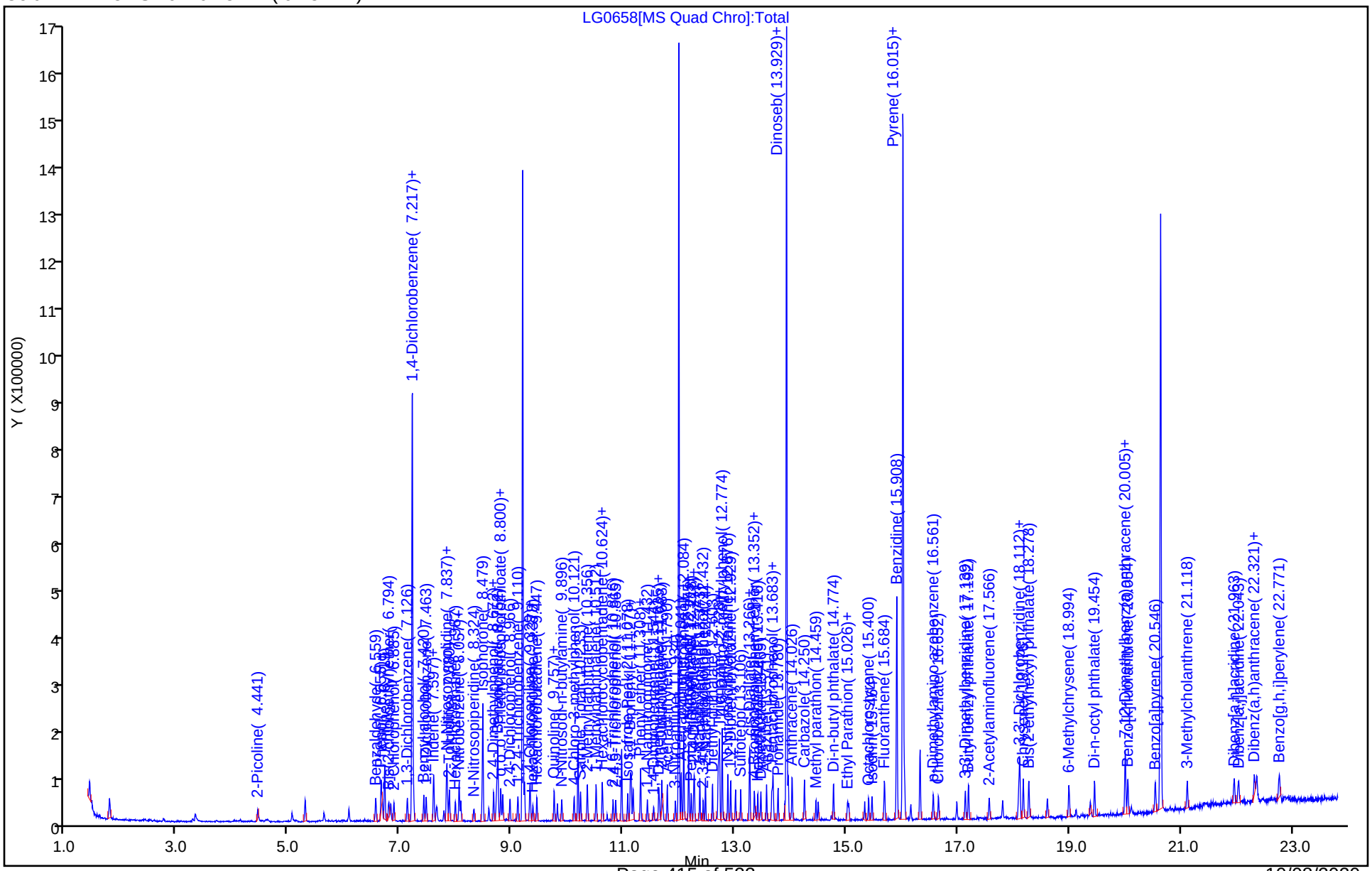
Report Date: 15-Jul-2020 19:26:39 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0658.D

Injection Date:	15-Jul-2020 16:51:20	Instrument ID:	HP20296	Operator ID:	lmh00956
Lims ID:	IC L2			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

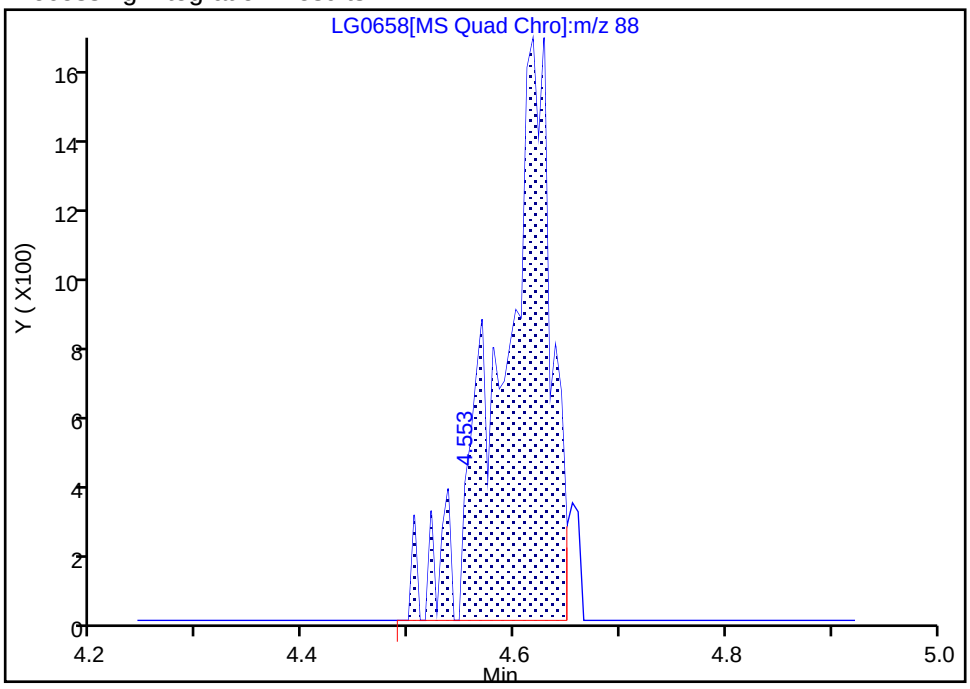
Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0658.D
Injection Date: 15-Jul-2020 16:51:20 Instrument ID: HP20296
Lims ID: IC L2
Client ID:
Operator ID: lmh00956 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

6 N-Nitrosomethylethylamine, CAS: 10595-95-6

Signal: 1

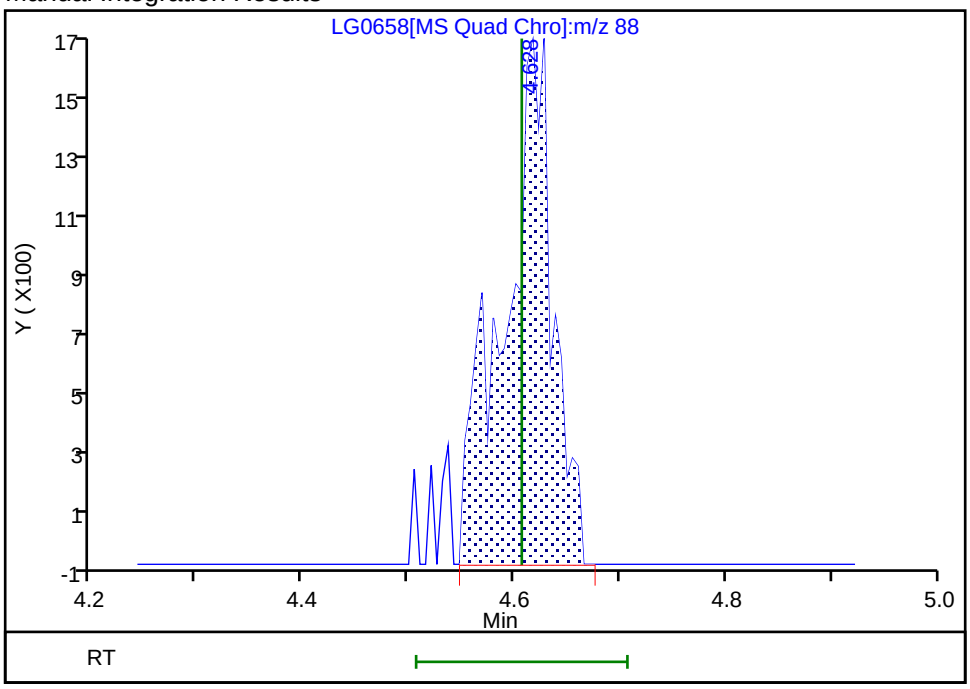
Processing Integration Results

RT: 4.55
Area: 5601
Amount: 0.200536
Amount Units: ug/ml



Manual Integration Results

RT: 4.63
Area: 5469
Amount: 0.195810
Amount Units: ug/ml



Reviewer: transuea, 15-Jul-2020 18:43:31
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

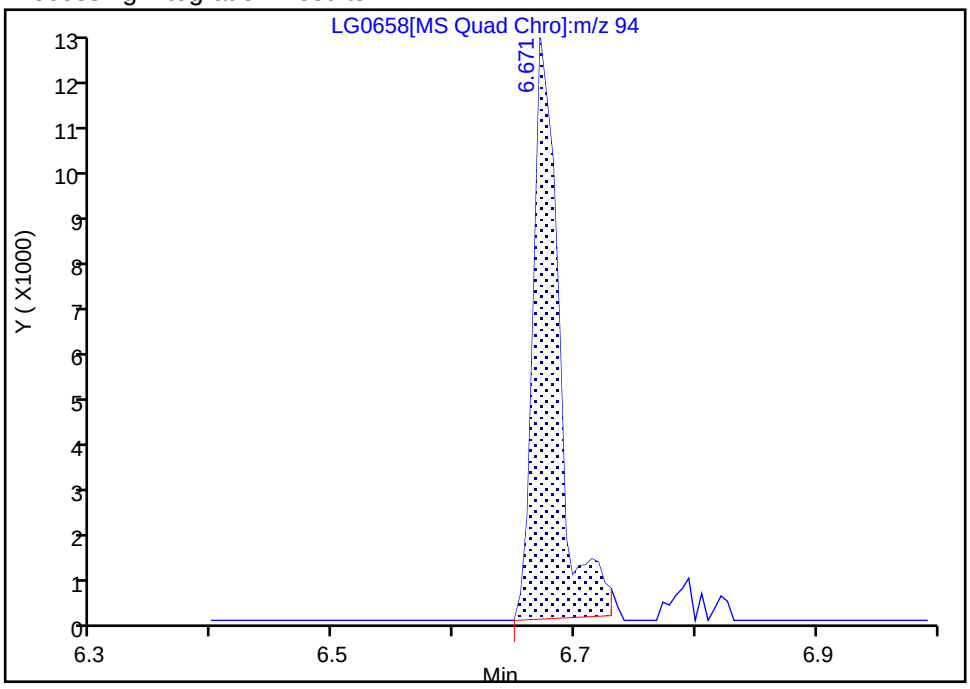
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0658.D				
Injection Date:	15-Jul-2020 16:51:20	Instrument ID:	HP20296		
Lims ID:	IC L2				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

17 Phenol, CAS: 108-95-2

Signal: 1

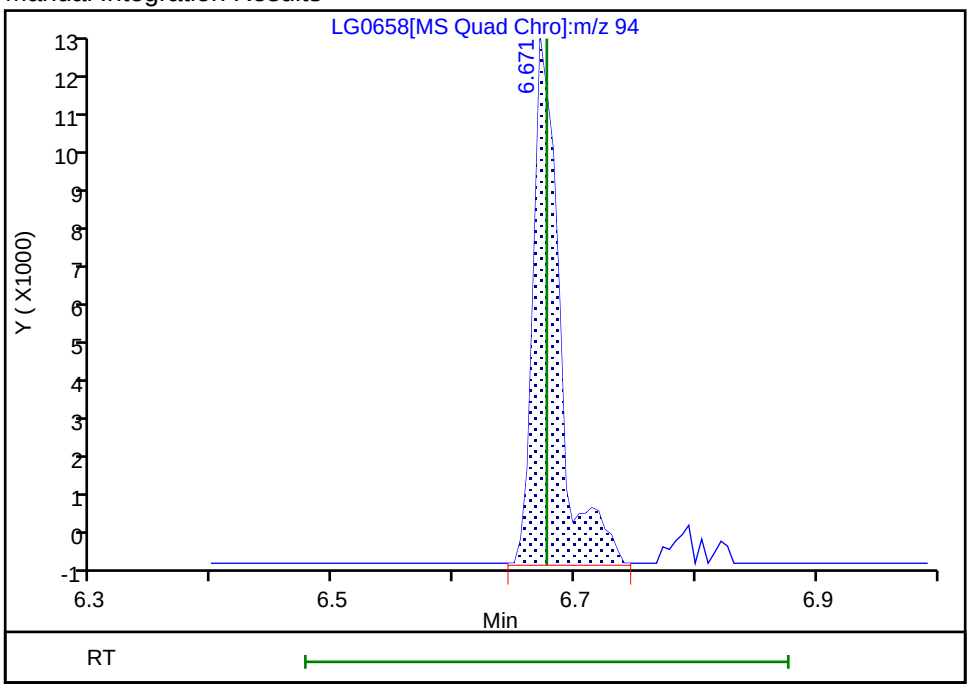
Processing Integration Results

RT: 6.67
Area: 18483
Amount: 0.226923
Amount Units: ug/ml



Manual Integration Results

RT: 6.67
Area: 19215
Amount: 0.234705
Amount Units: ug/ml



Reviewer: transuea, 15-Jul-2020 18:43:46
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

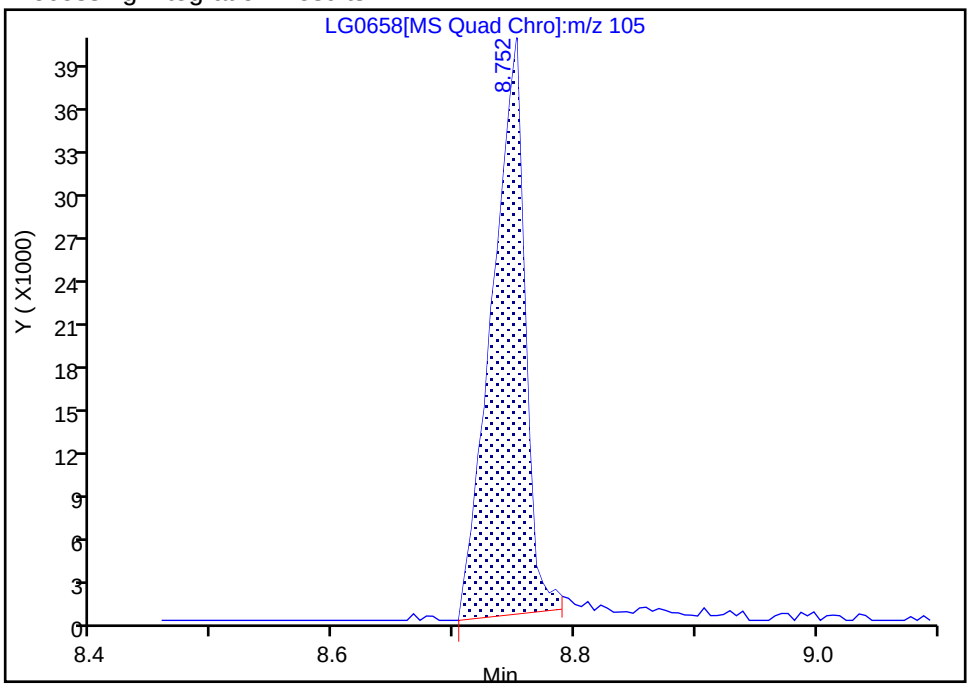
Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0658.D
Injection Date: 15-Jul-2020 16:51:20 Instrument ID: HP20296
Lims ID: IC L2
Client ID:
Operator ID: lmh00956 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

50 Benzoic acid, CAS: 65-85-0

Signal: 1

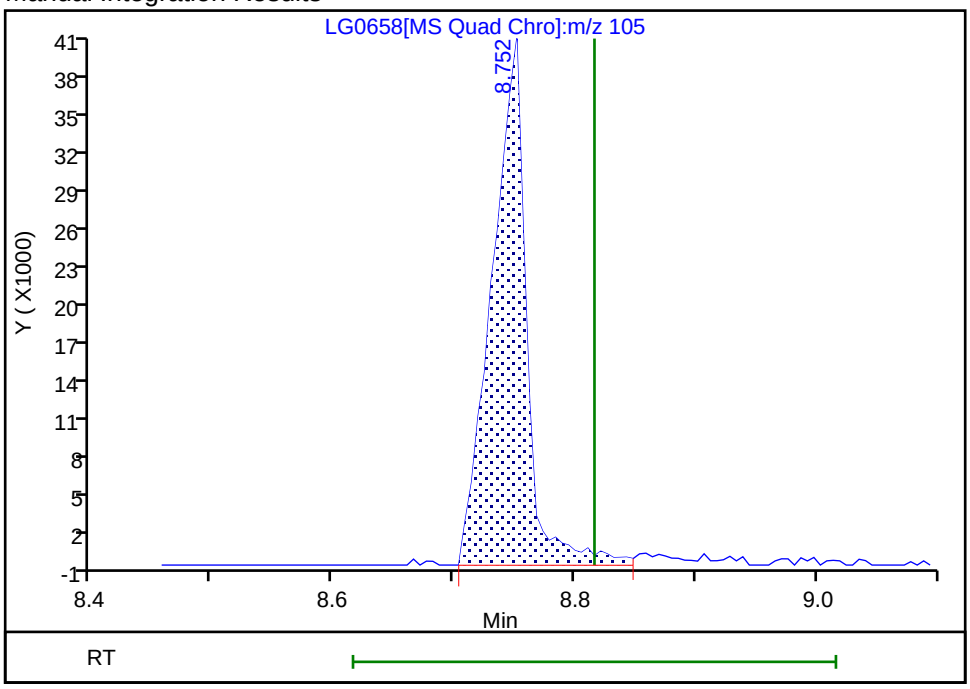
Processing Integration Results

RT: 8.75
Area: 75336
Amount: 1.812631
Amount Units: ug/ml



Manual Integration Results

RT: 8.75
Area: 80776
Amount: 1.943521
Amount Units: ug/ml



Reviewer: transuea, 15-Jul-2020 18:44:34
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

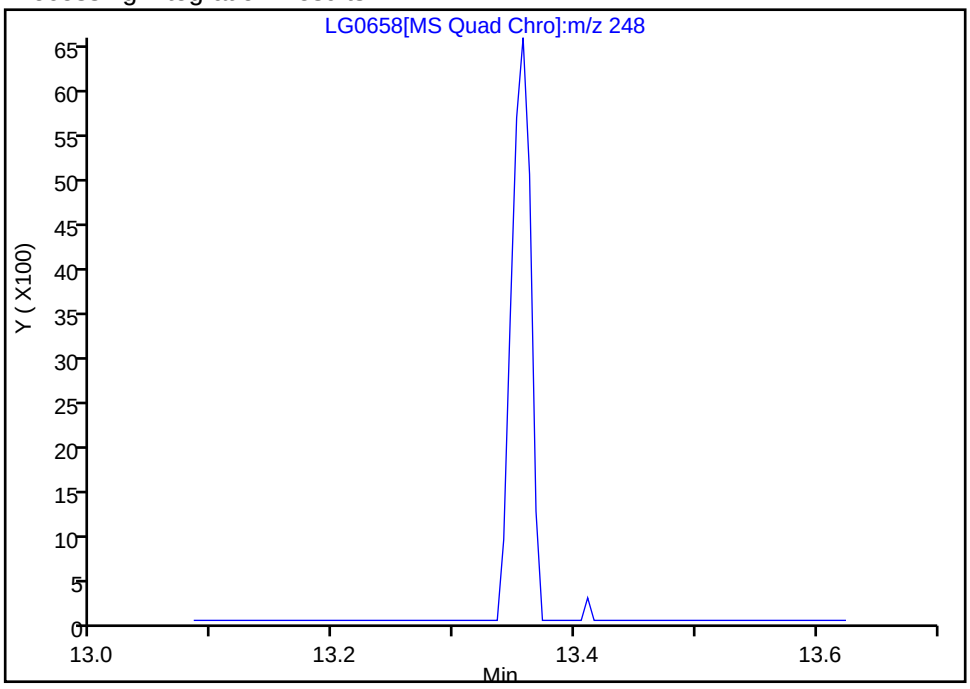
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0658.D				
Injection Date:	15-Jul-2020 16:51:20	Instrument ID:	HP20296		
Lims ID:	IC L2				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

118 4-Bromophenyl phenyl ether, CAS: 101-55-3

Signal: 1

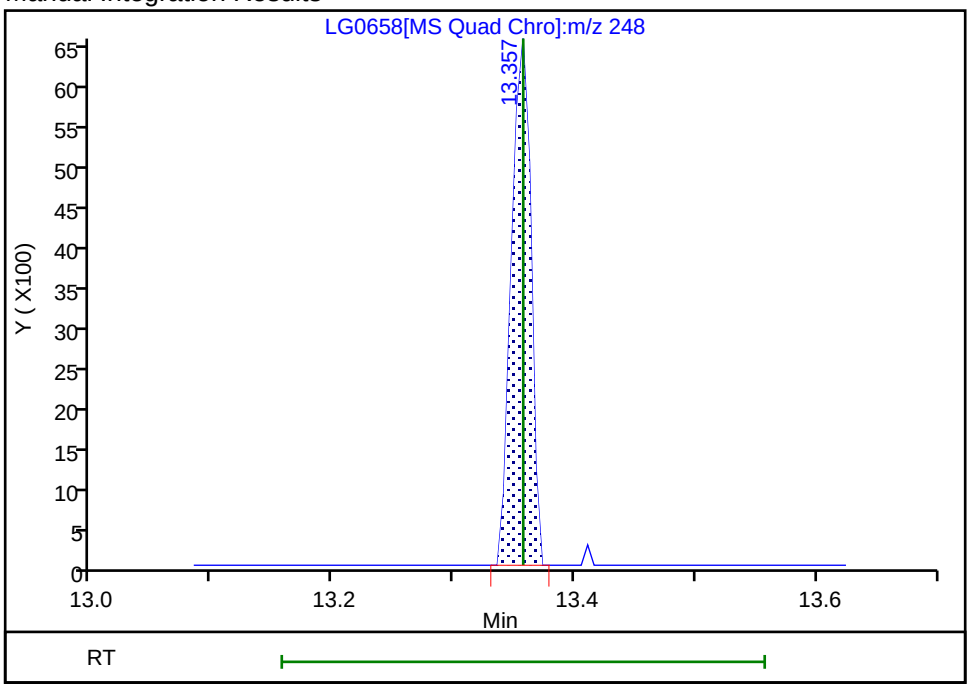
Not Detected
Expected RT: 13.36

Processing Integration Results



Manual Integration Results

RT: 13.36
Area: 7247
Amount: 0.297397
Amount Units: ug/ml



Reviewer: transuea, 15-Jul-2020 18:46:19
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

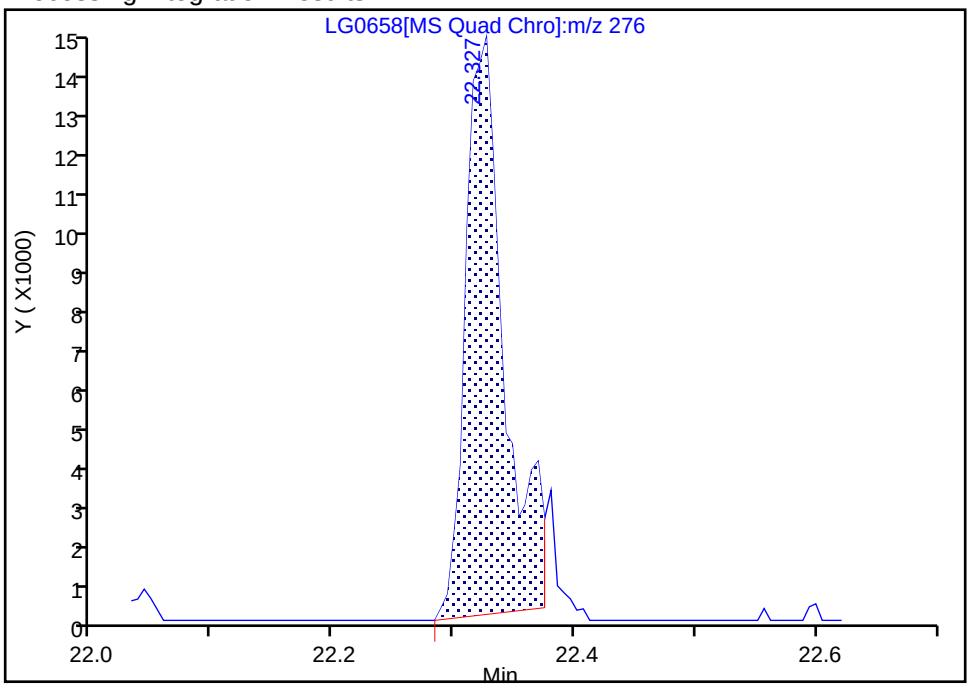
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0658.D				
Injection Date:	15-Jul-2020 16:51:20	Instrument ID:	HP20296		
Lims ID:	IC L2				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

163 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

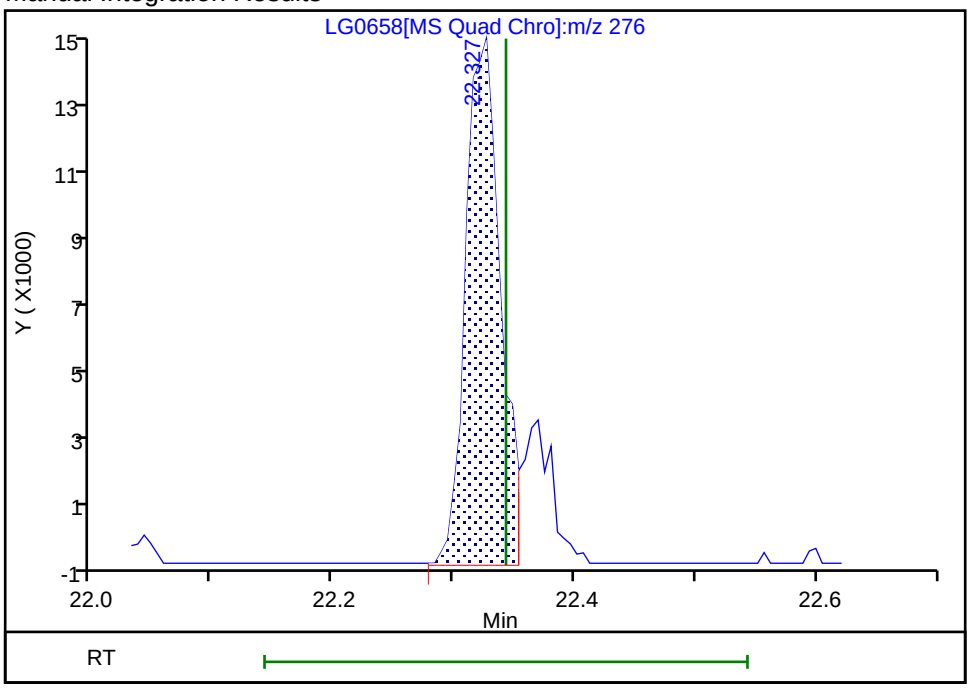
Processing Integration Results

RT: 22.33
Area: 32341
Amount: 0.253732
Amount Units: ug/ml



Manual Integration Results

RT: 22.33
Area: 29184
Amount: 0.231835
Amount Units: ug/ml



Reviewer: transuea, 15-Jul-2020 18:47:23

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-15514-1

SDG No.:

Lab Sample ID (1): ICIS 410-22758/2 Instrument ID (1): HP20296

GC Column (1): DB-5MS 20m 0. ID: 0.18(mm) Date Analyzed (1): 07/15/2020 13:18

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	20.02	12.30

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-15514-1

SDG No.:

Lab Sample ID (1): CCVIS 410-51042/2 Instrument ID (1): HP20296

GC Column (1): DB-5MS 20m 0. ID: 0.18(mm) Date Analyzed (1): 10/05/2020 21:46

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	19.41	10.00

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-15514-1

SDG No.:

Lab Sample ID (1): CCVIS 410-51485/2 Instrument ID (1): HP20296

GC Column (1): DB-5MS 20m 0. ID: 0.18(mm) Date Analyzed (1): 10/06/2020 18:15

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	19.42	11.30

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1

SDG No.:

Lab Sample ID: ICV 410-22758/12 Calibration Date: 07/15/2020 18:18

Instrument ID: HP20296 Calib Start Date: 07/15/2020 13:18

GC Column: DB-5MS 20m 0.18 ID: 0.18(mm) Calib End Date: 07/15/2020 16:51

Lab File ID: LG0661.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6196	0.6641		13.4	12.5	7.2	30.0
N-Nitrosodimethylamine	Ave	0.9584	0.9870		12.9	12.5	3.0	30.0
Pyridine	Ave	1.698	1.560		11.5	12.5	-8.1	30.0
2-Picoline	Ave	1.963	1.771		11.3	12.5	-9.8	30.0
N-Nitrosomethylethylamine	Ave	0.7877	0.6928		11.0	12.5	-12.0	30.0
Methyl methanesulfonate	Ave	0.8742	0.9834		14.1	12.5	12.5	30.0
N-Nitrosodiethylamine	Ave	0.7600	0.7692		12.7	12.5	1.2	30.0
Ethyl methanesulfonate	Ave	0.8433	0.8560		12.7	12.5	1.5	30.0
Phenol	Ave	2.309	2.311	0.8000	12.5	12.5	0.0	30.0
Aniline	Ave	2.815	2.525		11.2	12.5	-10.3	30.0
Bis(2-chloroethyl)ether	Ave	1.896	1.874	0.7000	12.4	12.5	-1.2	30.0
2-Chlorophenol	Ave	1.539	1.599	0.8000	13.0	12.5	3.9	30.0
1,3-Dichlorobenzene	Ave	1.649	1.628		12.3	12.5	-1.2	30.0
1,4-Dichlorobenzene	Ave	1.672	1.722		12.9	12.5	3.0	30.0
Benzyl alcohol	Ave	1.175	1.220		13.0	12.5	3.8	30.0
1,2-Dichlorobenzene	Ave	1.585	1.640		12.9	12.5	3.5	30.0
2-Methylphenol	Ave	1.557	1.654	0.7000	13.3	12.5	6.2	30.0
Indene	Ave	2.407	3.100		16.1	12.5	28.8	30.0
2,2'-oxybis[1-chloropropane]	Ave	2.142	2.092	0.0100	12.2	12.5	-2.3	30.0
N-Nitrosopyrrolidine	Ave	0.8657	0.9695		14.0	12.5	12.0	30.0
Acetophenone	Ave	2.532	2.598	0.0100	12.8	12.5	2.6	30.0
4-Methylphenol (and/or 3-Methylphenol)	Ave	1.641	1.707	0.6000	13.0	12.5	4.0	30.0
N-Nitrosodi-n-propylamine	Ave	1.415	1.499	0.5000	13.2	12.5	5.9	30.0
N-Nitrosomorpholine	Ave	0.9603	1.020		13.3	12.5	6.2	30.0
o-Toluidine	Ave	2.763	2.780		12.6	12.5	0.6	30.0
Hexachloroethane	Ave	0.7584	0.7758	0.3000	12.8	12.5	2.3	30.0
Nitrobenzene	Ave	0.5138	0.4939	0.2000	12.0	12.5	-3.9	30.0
N-Nitrosopiperidine	Ave	0.1971	0.1952		12.4	12.5	-0.9	30.0
Isophorone	Ave	0.9080	0.8806	0.4000	12.1	12.5	-3.0	30.0
2-Nitrophenol	Ave	0.1851	0.1828	0.1000	12.3	12.5	-1.3	30.0
o,o',o''-Triethylphosphorothioate	Ave	0.1492	0.1562		13.1	12.5	4.7	30.0
Bis(2-chloroethoxy)methane	Ave	0.5817	0.5690	0.3000	12.2	12.5	-2.2	30.0
Benzoic acid	Ave	0.2826	0.3360		29.7	25.0	18.9	30.0
2,4-Dichlorophenol	Ave	0.2863	0.2935	0.2000	12.8	12.5	2.5	30.0
1,2,4-Trichlorobenzene	Ave	0.2958	0.2960		12.5	12.5	0.0	30.0
Naphthalene	Ave	1.131	1.103	0.7000	12.2	12.5	-2.5	30.0
4-Chloroaniline	Ave	0.4514	0.4358	0.0100	12.1	12.5	-3.4	30.0
2,6-Dichlorophenol	Ave	0.2778	0.2850		12.8	12.5	2.6	30.0
Hexachloropropene	Ave	0.1771	0.2030		14.3	12.5	14.6	30.0
Hexachlorobutadiene	Ave	0.1553	0.1582	0.0100	12.7	12.5	1.9	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1

SDG No.:

Lab Sample ID: ICV 410-22758/12 Calibration Date: 07/15/2020 18:18

Instrument ID: HP20296 Calib Start Date: 07/15/2020 13:18

GC Column: DB-5MS 20m 0.18 ID: 0.18(mm) Calib End Date: 07/15/2020 16:51

Lab File ID: LG0661.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Quinoline	Ave	0.6967	0.6877		12.3	12.5	-1.3	30.0
N-Nitrosodi-n-butylamine	Ave	0.3623	0.3380		11.7	12.5	-6.7	30.0
4-Chloro-3-methylphenol	Ave	0.3717	0.3760	0.2000	12.6	12.5	1.1	30.0
Safrole, Total	Ave	0.2533	0.2571		12.7	12.5	1.5	30.0
2-Methylnaphthalene	Ave	0.7160	0.7090	0.4000	12.4	12.5	-1.0	30.0
1-Methylnaphthalene	Ave	0.6803	0.6360		11.7	12.5	-6.5	30.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5652	0.5757	0.0100	12.7	12.5	1.9	30.0
Isosafrole Peak 1	Ave	0.6427	0.6198		1.45	1.50	-3.6	30.0
2,4,6-Trichlorophenol	Ave	0.4053	0.4166	0.2000	12.8	12.5	2.8	30.0
2,4,5-Trichlorophenol	Ave	0.4289	0.4320	0.2000	12.6	12.5	0.7	30.0
Isosafrole Peak 2	Ave	0.6789	0.7096		11.5	11.0	4.5	30.0
1,1'-Biphenyl	Ave	1.809	1.820	0.0100	12.6	12.5	0.6	30.0
2-Chloronaphthalene	Ave	1.427	1.383	0.8000	12.1	12.5	-3.0	30.0
1-Chloronaphthalene	Ave	1.269	1.318		13.0	12.5	3.9	30.0
Diphenyl ether	Ave	0.9023	0.9180		12.7	12.5	1.7	30.0
2-Nitroaniline	Ave	0.4881	0.5002	0.0100	12.8	12.5	2.5	30.0
1,4-Naphthoquinone	Ave	0.5828	0.5974		16.0	15.6	2.5	30.0
1,4-Dinitrobenzene	Ave	0.2158	0.2269		13.1	12.5	5.2	30.0
Dimethyl phthalate	Ave	1.578	1.482	0.0100	11.7	12.5	-6.1	30.0
1,3-Dinitrobenzene	Ave	0.2439	0.2490		12.8	12.5	2.1	30.0
2,6-Dinitrotoluene	Ave	0.3468	0.3447	0.2000	12.4	12.5	-0.6	30.0
Acenaphthylene	Ave	2.048	2.024	0.9000	12.4	12.5	-1.2	30.0
3-Nitroaniline	Ave	0.4085	0.4383	0.0100	13.4	12.5	7.3	30.0
Acenaphthene	Ave	1.514	1.518	0.9000	12.5	12.5	0.3	30.0
2,4-Dinitrophenol	Ave	0.1870	0.2061	0.0100	27.6	25.0	10.2	30.0
4-Nitrophenol	Ave	0.2985	0.2900	0.0100	12.1	12.5	-2.9	30.0
Pentachlorobenzene	Ave	0.4875	0.5012		12.9	12.5	2.8	30.0
2,4-Dinitrotoluene	Ave	0.4764	0.4768	0.2000	12.5	12.5	0.0	30.0
Dibenzofuran	Ave	1.904	1.930	0.8000	12.7	12.5	1.4	30.0
1-Naphthylamine	Ave	1.534	1.321		21.5	25.0	-13.8	30.0
2,3,4,6-Tetrachlorophenol	Ave	0.3072	0.3297	0.0100	13.4	12.5	7.3	30.0
2-Naphthylamine	Ave	1.535	1.259		20.5	25.0	-18.0	30.0
Diethyl phthalate	Ave	1.665	1.631	0.0100	12.2	12.5	-2.0	30.0
Thionazin	Ave	0.3340	0.3196		12.0	12.5	-4.3	30.0
Fluorene	Ave	1.582	1.550	0.9000	12.3	12.5	-2.0	30.0
4-Chlorophenyl-phenyl ether	Ave	0.6507	0.6468	0.4000	12.4	12.5	-0.6	30.0
5-Nitro-o-toluidine	Ave	0.4603	0.4739		12.9	12.5	3.0	30.0
4-Nitroaniline	Ave	0.4475	0.4443	0.0100	12.4	12.5	-0.7	30.0
4,6-Dinitro-2-methylphenol	Ave	0.1241	0.1214	0.0100	12.2	12.5	-2.2	30.0
N-Nitrosodiphenylamine	Ave	0.6965	0.6567	0.0100	11.8	12.5	-5.7	30.0
1,2-Diphenylhydrazine	Ave	1.197	1.176		12.3	12.5	-1.7	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1

SDG No.:

Lab Sample ID: ICV 410-22758/12 Calibration Date: 07/15/2020 18:18

Instrument ID: HP20296 Calib Start Date: 07/15/2020 13:18

GC Column: DB-5MS 20m 0.18 ID: 0.18(mm) Calib End Date: 07/15/2020 16:51

Lab File ID: LG0661.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Sulfotepp	Ave	0.1990	0.1922		12.1	12.5	-3.4	30.0
cis-Diallate	Ave	0.4862	0.4684		9.03	9.38	-3.7	30.0
Phorate	Ave	0.7514	0.7435		12.4	12.5	-1.0	30.0
Phenacetin	Ave	0.5534	0.5648		12.8	12.5	2.1	30.0
4-Bromophenyl-phenylether	Ave	0.1947	0.1731	0.1000	11.1	12.5	-11.1	30.0
trans-Diallate	Ave	0.4964	0.4825		3.04	3.13	-2.8	30.0
Hexachlorobenzene	Ave	0.2125	0.2086	0.1000	12.3	12.5	-1.8	30.0
Dimethoate	Ave	0.4957	0.4911		12.4	12.5	-0.9	30.0
Pentachlorophenol	Ave	0.1397	0.1416	0.0500	12.7	12.5	1.3	30.0
4-Aminobiphenyl	Ave	0.6595	0.9155		17.4	12.5	38.8*	30.0
Pentachloronitrobenzene	Ave	0.0993	0.0980		12.3	12.5	-1.3	30.0
Pronamide	Ave	0.4029	0.4088		12.7	12.5	1.5	30.0
Dinoseb	Ave	0.1820	0.1952		13.4	12.5	7.2	30.0
Phenanthrene	Ave	1.216	1.170	0.7000	12.0	12.5	-3.8	30.0
Anthracene	Ave	1.233	1.189	0.7000	12.0	12.5	-3.6	30.0
Carbazole	Ave	1.156	1.161	0.0100	12.6	12.5	0.4	30.0
Methyl parathion	Ave	0.3920	0.4021		12.8	12.5	2.6	30.0
Di-n-butyl phthalate	Ave	1.651	1.599	0.0100	12.1	12.5	-3.2	30.0
Parathion	Ave	0.2387	0.2507		13.1	12.5	5.0	30.0
4-Nitroquinoline-1-oxide	Ave	0.1464	0.1655		170	150	13.1	30.0
Octachlorostyrene	Ave	0.0997	0.0901		11.3	12.5	-9.6	30.0
Isodrin	Ave	0.1461	0.1389		11.9	12.5	-4.9	30.0
Fluoranthene	Ave	1.251	1.224	0.6000	12.2	12.5	-2.1	30.0
Benzidine	Ave	0.9427	0.7697		51.0	62.5	-18.4	30.0
Pyrene	Ave	1.390	1.305	0.6000	11.7	12.5	-6.1	30.0
p-Dimethylamino azobenzene	Ave	0.2139	0.2329		13.6	12.5	8.9	30.0
Chlorobenzilate	Ave	0.5306	0.5467		12.9	12.5	3.0	30.0
3,3'-Dimethylbenzidine	Ave	0.8906	0.6989		19.6	25.0	-21.5	30.0
Butylbenzylphthalate	Ave	0.7568	0.7778	0.0100	12.8	12.5	2.8	30.0
2-Acetylaminofluorene	Ave	0.5791	0.5795		12.5	12.5	0.0	30.0
3,3'-Dichlorobenzidine	Ave	0.4549	0.4424	0.0100	12.2	12.5	-2.8	30.0
4,4'-Methylene bis(2-chloroaniline)	Ave	0.2379	0.2444			12.5	2.7	30.0
Benzo[a]anthracene	Ave	1.157	1.181	0.8000	12.8	12.5	2.0	30.0
Chrysene	Ave	1.159	1.100	0.7000	11.9	12.5	-5.1	30.0
Bis(2-ethylhexyl) phthalate	Ave	1.139	1.142	0.0100	12.5	12.5	0.3	30.0
6-Methylchrysene	Ave	0.8047	0.7676		11.9	12.5	-4.6	30.0
Di-n-octyl phthalate	Ave	2.105	2.157	0.0100	12.8	12.5	2.4	30.0
Benzo[b]fluoranthene	Ave	1.278	1.291	0.7000	12.6	12.5	1.0	30.0
7,12-Dimethylbenz(a)anthracene	Ave	0.5383	0.5606		13.0	12.5	4.2	30.0
Benzo[k]fluoranthene	Ave	1.229	1.233	0.7000	12.5	12.5	0.3	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1

SDG No.:

Lab Sample ID: ICV 410-22758/12 Calibration Date: 07/15/2020 18:18

Instrument ID: HP20296 Calib Start Date: 07/15/2020 13:18

GC Column: DB-5MS 20m 0.18 ID: 0.18(mm) Calib End Date: 07/15/2020 16:51

Lab File ID: LG0661.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[a]pyrene	Ave	1.192	1.173	0.7000	12.3	12.5	-1.6	30.0
3-Methylcholanthrene	Ave	0.5892	0.6424		13.6	12.5	9.0	30.0
Dibenz[a,h]acridine	Ave	0.9203	0.9873		13.4	12.5	7.3	30.0
Dibenz[a,j]acridine	Ave	0.9402	0.9320		12.4	12.5	-0.9	30.0
Indeno[1,2,3-cd]pyrene	Ave	1.110	1.065	0.5000	12.0	12.5	-4.1	30.0
Dibenz(a,h)anthracene	Ave	1.113	1.149	0.4000	12.9	12.5	3.2	30.0
Benzo[g,h,i]perylene	Ave	1.129	1.089	0.5000	12.1	12.5	-3.5	30.0
2,4-Dimethylphenol	Ave	0.4248		0.2000		12.5		30.0
Hexachlorocyclopentadiene	Ave	0.3667		0.0500		25.0		30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0661.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 15-Jul-2020 18:18:37 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 410-0005639-012
Operator ID: lmh00956 Instrument ID: HP20296
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 24-Jul-2020 17:32:48 Calib Date: 15-Jul-2020 16:51:20
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0658.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1027

First Level Reviewer: transuea Date: 24-Jul-2020 17:32:48

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	2.756	2.740	0.016	91	321072	12.5	13.4	
2 N-Nitrosodimethylamine	74	3.264	3.248	0.016	88	477187	12.5	12.9	
3 Pyridine	79	3.296	3.286	0.010	97	754375	12.5	11.5	
5 2-Picoline	93	4.430	4.425	0.005	93	856468	12.5	11.3	
6 N-Nitrosomethylethylamine	88	4.617	4.607	0.010	85	334971	12.5	11.0	
9 Methyl methanesulfonate	80	5.061	5.051	0.010	84	475464	12.5	14.1	
11 N-Nitrosodiethylamine	102	5.639	5.628	0.011	92	371904	12.5	12.7	
13 Ethyl methanesulfonate	109	6.088	6.078	0.010	97	413876	12.5	12.7	
17 Phenol	94	6.687	6.677	0.010	97	1117430	12.5	12.5	
18 Aniline	93	6.719	6.719	0.000	98	1220692	12.5	11.2	
19 Bis(2-chloroethyl)ether	93	6.832	6.832	0.000	96	905882	12.5	12.4	
20 2-Chlorophenol	128	6.891	6.885	0.006	96	773148	12.5	13.0	
22 1,3-Dichlorobenzene	146	7.126	7.121	0.005	94	787285	12.5	12.3	
* 24 1,4-Dichlorobenzene-d4	152	7.217	7.212	0.005	96	193397	5.00	5.00	
25 1,4-Dichlorobenzene	146	7.244	7.238	0.006	92	832476	12.5	12.9	
27 Benzyl alcohol	108	7.431	7.420	0.011	92	589877	12.5	13.0	
29 1,2-Dichlorobenzene	146	7.468	7.463	0.005	94	793150	12.5	12.9	
30 Indene	115	7.607	7.602	0.005	88	1498637	12.5	16.1	
31 2-Methylphenol	108	7.607	7.602	0.005	96	799511	12.5	13.3	
32 2,2'-oxybis[1-chloropropane]	45	7.661	7.650	0.011	94	1011248	12.5	12.2	
34 N-Nitrosopyrrolidine	100	7.800	7.789	0.011	95	468769	12.5	14.0	
35 Acetophenone	105	7.837	7.832	0.005	92	1255934	12.5	12.8	
36 4-Methylphenol	108	7.848	7.837	0.011	95	825250	12.5	13.0	
37 N-Nitrosodi-n-propylamine	70	7.853	7.848	0.005	76	724664	12.5	13.2	
38 N-Nitrosomorpholine	56	7.869	7.859	0.010	89	492940	12.5	13.3	
39 2-Toluidine	106	7.891	7.885	0.006	94	1343949	12.5	12.6	
40 Hexachloroethane	117	7.992	7.987	0.005	95	375084	12.5	12.8	
42 Nitrobenzene	77	8.094	8.089	0.005	85	1032902	12.5	12.0	
44 N-Nitrosopiperidine	114	8.329	8.324	0.005	88	408189	12.5	12.4	
46 Isophorone	82	8.479	8.474	0.005	98	1841520	12.5	12.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
47 2-Nitrophenol	139	8.591	8.592	-0.001	97	382211	12.5	12.3	
48 2,4-Dimethylphenol	107		8.677				ND	ND	U
49 o,o',o''-Triethylphosphorothioat	198	8.811	8.805	0.006	93	326618	12.5	13.1	
50 Benzoic acid	105	8.886	8.816	0.070	86	1405189	25.0	29.7	M
51 Bis(2-chloroethoxy)methane	93	8.843	8.843	0.000	99	1189819	12.5	12.2	
52 2,4-Dichlorophenol	162	8.971	8.971	0.000	96	613735	12.5	12.8	
54 1,2,4-Trichlorobenzene	180	9.110	9.110	0.000	93	618944	12.5	12.5	
* 55 Naphthalene-d8	136	9.196	9.196	0.000	100	836487	5.00	5.00	
56 Naphthalene	128	9.233	9.228	0.005	98	2306914	12.5	12.2	
57 4-Chloroaniline	127	9.330	9.324	0.006	95	911414	12.5	12.1	
58 2,6-Dichlorophenol	162	9.340	9.335	0.005	93	596033	12.5	12.8	
59 Hexachloropropene	213	9.383	9.383	0.000	93	424607	12.5	14.3	
60 Hexachlorobutadiene	225	9.453	9.447	0.006	96	330872	12.5	12.7	
S 63 Diallate	86				0		12.5	12.1	
62 Quinoline	129	9.774	9.763	0.011	95	1438041	12.5	12.3	
65 N-Nitrosodi-n-butylamine	84	9.902	9.902	0.000	89	706901	12.5	11.7	
66 4-Chloro-3-methylphenol	107	10.127	10.127	0.000	93	786240	12.5	12.6	
67 Safrole, Total	162	10.239	10.234	0.005	83	537586	12.5	12.7	
69 2-Methylnaphthalene	142	10.362	10.357	0.005	94	1482595	12.5	12.4	
70 1-Methylnaphthalene	142	10.517	10.517	0.000	91	1330086	12.5	11.7	
71 Hexachlorocyclopentadiene	237		10.624				ND	ND	U
72 1,2,4,5-Tetrachlorobenzene	216	10.635	10.629	0.006	97	557881	12.5	12.7	
73 Isosafrole Peak 1	162	10.715	10.715	0.000	84	72071	1.50	1.45	
74 2,4,6-Trichlorophenol	196	10.822	10.822	0.000	92	403694	12.5	12.8	
75 2,4,5-Trichlorophenol	196	10.870	10.870	0.000	89	418644	12.5	12.6	
77 Isosafrole Peak 2	162	11.084	11.084	0.000	88	605158	11.0	11.5	
79 1,1'-Biphenyl	154	11.132	11.132	0.000	96	1763232	12.5	12.6	
80 2-Chloronaphthalene	162	11.148	11.148	0.000	99	1340470	12.5	12.1	
81 1-Chloronaphthalene	162	11.180	11.180	0.000	95	1277597	12.5	13.0	
82 Phenyl ether	170	11.314	11.314	0.000	87	889562	12.5	12.7	
83 2-Nitroaniline	138	11.325	11.319	0.006	78	484751	12.5	12.8	
84 1,4-Naphthoquinone	158	11.442	11.437	0.005	80	723607	15.6	16.0	
85 1,4-Dinitrobenzene	168	11.555	11.549	0.006	84	219874	12.5	13.1	
86 Dimethyl phthalate	163	11.651	11.640	0.011	96	1435885	12.5	11.7	
87 1,3-Dinitrobenzene	168	11.667	11.656	0.011	83	241254	12.5	12.8	
88 2,6-Dinitrotoluene	165	11.720	11.715	0.005	87	334054	12.5	12.4	
90 Acenaphthylene	152	11.795	11.795	0.000	99	1961531	12.5	12.4	
91 3-Nitroaniline	138	11.950	11.940	0.010	93	424734	12.5	13.4	
* 92 Acenaphthene-d10	164	11.999	11.999	0.000	97	387619	5.00	5.00	
93 Acenaphthene	153	12.047	12.041	0.006	98	1471252	12.5	12.5	
94 2,4-Dinitrophenol	184	12.100	12.090	0.010	80	399477	25.0	27.6	
96 4-Nitrophenol	109	12.191	12.180	0.011	92	280986	12.5	12.1	
98 Pentachlorobenzene	250	12.223	12.223	0.000	96	485666	12.5	12.9	
99 2,4-Dinitrotoluene	165	12.277	12.271	0.006	83	462068	12.5	12.5	
100 Dibenzofuran	168	12.282	12.277	0.005	96	1870186	12.5	12.7	
101 1-Naphthylamine	143	12.384	12.378	0.006	98	2561172	25.0	21.5	
102 2,3,4,6-Tetrachlorophenol	232	12.442	12.437	0.005	82	319537	12.5	13.4	
103 2-Naphthylamine	143	12.485	12.480	0.005	95	2440928	25.0	20.5	
104 Diethyl phthalate	149	12.614	12.608	0.006	97	1580691	12.5	12.2	
106 Thionazin	107	12.710	12.705	0.005	76	309740	12.5	12.0	
105 Fluorene	166	12.715	12.715	0.000	91	1502440	12.5	12.3	
107 N-Nitro-o-toluidine	152	12.742	12.731	0.011	85	459237	12.5	12.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
108 4-Chlorophenyl phenyl ether	204	12.737	12.737	0.000	91	626800	12.5	12.4	
109 4-Nitroaniline	138	12.747	12.737	0.010	82	430514	12.5	12.4	
110 4,6-Dinitro-2-methylphenol	198	12.790	12.785	0.005	73	227825	12.5	12.2	
111 N-Nitrosodiphenylamine	169	12.881	12.881	0.000	64	1232535	12.5	11.8	
112 1,2-Diphenylhydrazine	77	12.935	12.929	0.006	42	2207928	12.5	12.3	
114 Sulfotepp	97	13.111	13.111	0.000	78	360677	12.5	12.1	
115 cis-Diallate	86	13.266	13.266	0.000	90	659347	9.38	9.03	
116 Phorate	75	13.277	13.272	0.005	95	1395497	12.5	12.4	
117 Phenacetin	108	13.293	13.282	0.011	90	1059986	12.5	12.8	
118 4-Bromophenyl phenyl ether	248	13.357	13.357	0.000	74	324808	12.5	11.1	
119 trans-Diallate	86	13.379	13.379	-0.001	95	226394	3.13	3.04	
120 Hexachlorobenzene	284	13.421	13.416	0.005	91	391525	12.5	12.3	
121 Dimethoate	87	13.485	13.480	0.005	97	921781	12.5	12.4	
123 Pentachlorophenol	266	13.683	13.678	0.005	87	265685	12.5	12.7	
124 4-Aminobiphenyl	169	13.694	13.689	0.005	91	1718221	12.5	17.4	
125 Pentachloronitrobenzene	237	13.699	13.699	0.000	83	183913	12.5	12.3	
126 Pronamide	173	13.785	13.785	0.000	90	767193	12.5	12.7	
* 127 Phenanthrene-d10	188	13.935	13.935	0.000	96	750735	5.00	5.00	
128 Dinoseb	211	13.940	13.940	0.000	91	366297	12.5	13.4	
129 Phenanthrene	178	13.967	13.967	0.000	97	2195510	12.5	12.0	
130 Anthracene	178	14.036	14.036	0.000	99	2230855	12.5	12.0	
131 Carbazole	167	14.261	14.256	0.005	96	2179187	12.5	12.6	
132 Methyl parathion	109	14.464	14.459	0.005	89	754697	12.5	12.8	
133 Di-n-butyl phthalate	149	14.791	14.775	0.016	100	3000441	12.5	12.1	
134 Ethyl Parathion	109	15.037	15.031	0.006	82	470582	12.5	13.1	
135 4-Nitroquinoline-1-oxide	190	15.095	15.053	0.042	85	3727107	150.0	169.6	E
136 Octachlorostyrene	308	15.406	15.406	0.000	92	169182	12.5	11.3	
137 Isodrin	193	15.470	15.465	0.006	86	260612	12.5	11.9	
138 Fluoranthene	202	15.700	15.694	0.006	99	2298029	12.5	12.2	
139 Benzidine	184	15.935	15.919	0.016	99	6953953	62.5	51.0	
* 140 Pyrene-d10 (IS)	212	16.026	16.021	0.005	98	722807	5.00	5.00	
141 Pyrene	202	16.058	16.053	0.005	95	2357501	12.5	11.7	
143 p-Dimethylamino azobenzene	225	16.572	16.566	0.006	89	420802	12.5	13.6	
144 Chlorobenzilate	139	16.657	16.657	0.000	80	987873	12.5	12.9	
145 3,3'-Dimethylbenzidine	212	17.149	17.144	0.005	99	2525891	25.0	19.6	
146 Butyl benzyl phthalate	149	17.197	17.197	0.000	94	1405495	12.5	12.8	
147 2-Acetylaminofluorene	181	17.588	17.577	0.011	93	1047177	12.5	12.5	
148 3,3'-Dichlorobenzidine	252	18.107	18.101	0.006	77	799372	12.5	12.2	
150 4,4'-Methylene bis(2-chloroanil	231	18.123	18.117	0.006	91	441628	12.5	12.8	
149 Benzo[a]anthracene	228	18.128	18.123	0.005	98	2134019	12.5	12.8	
151 Chrysene	228	18.192	18.187	0.005	96	1988483	12.5	11.9	
152 Bis(2-ethylhexyl) phthalate	149	18.283	18.283	0.000	97	2063361	12.5	12.5	
153 6-Methylchrysene	242	19.005	19.005	0.000	98	1387124	12.5	11.9	
154 Di-n-octyl phthalate	149	19.460	19.465	-0.005	99	3559291	12.5	12.8	
155 Benzo[b]fluoranthene	252	20.022	20.016	0.006	98	2130246	12.5	12.6	
156 7,12-Dimethylbenz(a)anthracene	256	20.027	20.016	0.011	89	925310	12.5	13.0	
157 Benzo[k]fluoranthene	252	20.075	20.070	0.005	97	2034517	12.5	12.5	
158 Benzo[a]pyrene	252	20.556	20.556	0.000	82	1936279	12.5	12.3	
* 159 Perylene-d12	264	20.647	20.647	0.000	95	660190	5.00	5.00	
160 3-Methylcholanthrene	268	21.134	21.134	0.000	94	1060258	12.5	13.6	
161 Dibenz[a,h]acridine	279	21.979	21.974	0.005	92	1629547	12.5	13.4	
162 Dibenz[a,j]acridine	279	22.059	22.054	0.005	95	1538229	12.5	12.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
163 Indeno[1,2,3-cd]pyrene	276	22.348	22.343	0.005	96	1757773	12.5	12.0	M
164 Dibenz(a,h)anthracene	278	22.386	22.386	0.000	95	1896075	12.5	12.9	
165 Benzo[g,h,i]perylene	276	22.797	22.792	0.005	93	1798079	12.5	12.1	
S 166 Isosafrole	162				0		12.5	12.9	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

MSS_RV8270ICV_00004 Amount Added: 1.00 Units: mL

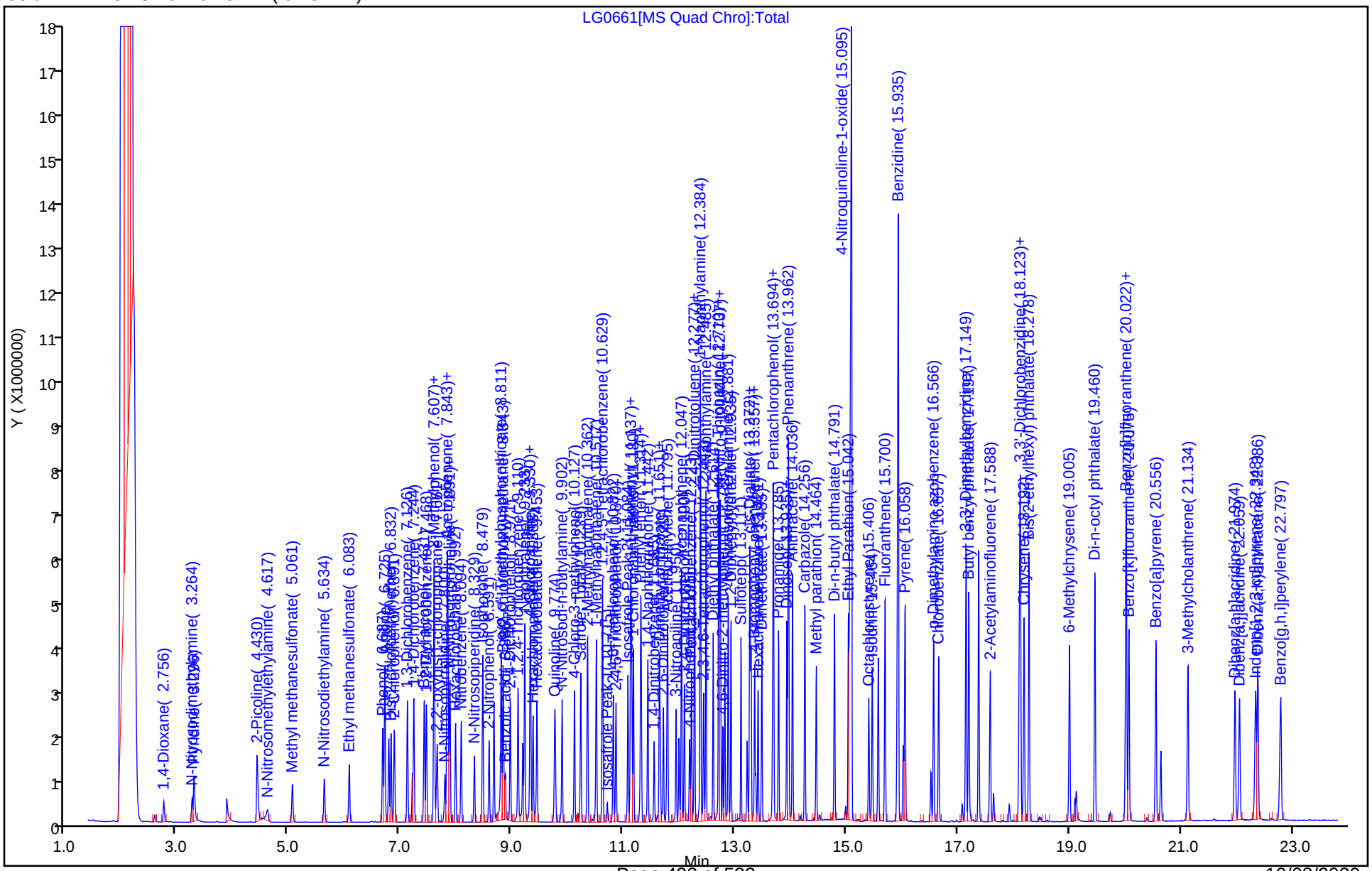
Report Date: 24-Jul-2020 17:41:07 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0661.D

Injection Date:	15-Jul-2020 18:18:37	Instrument ID:	HP20296	Operator ID:	lmh00956
Lims ID:	ICV			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

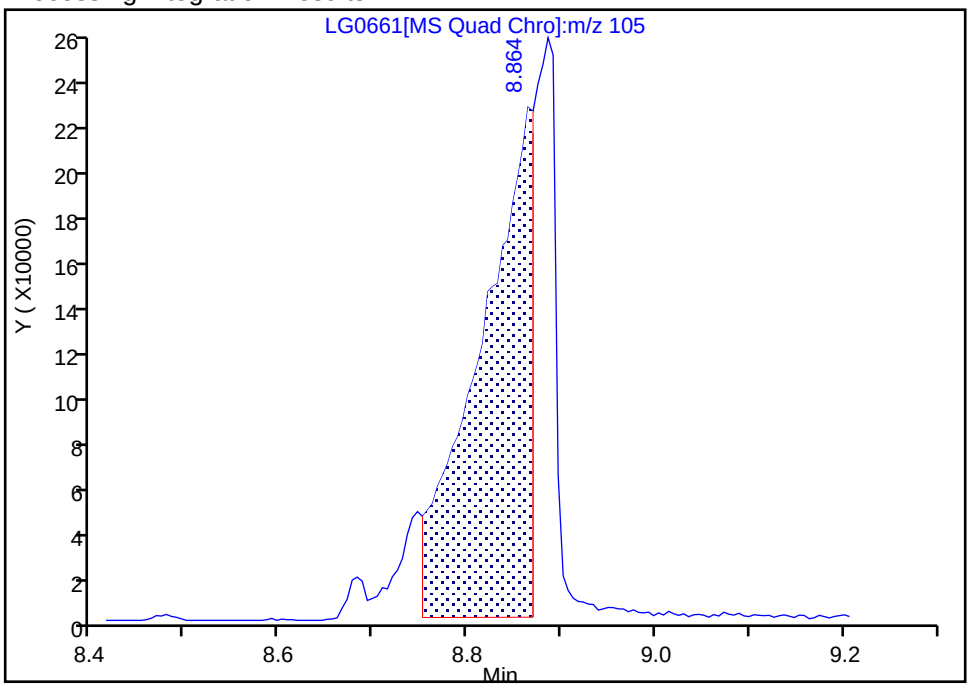
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0661.D				
Injection Date:	15-Jul-2020 18:18:37	Instrument ID:	HP20296		
Lims ID:	ICV				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

50 Benzoic acid, CAS: 65-85-0

Signal: 1

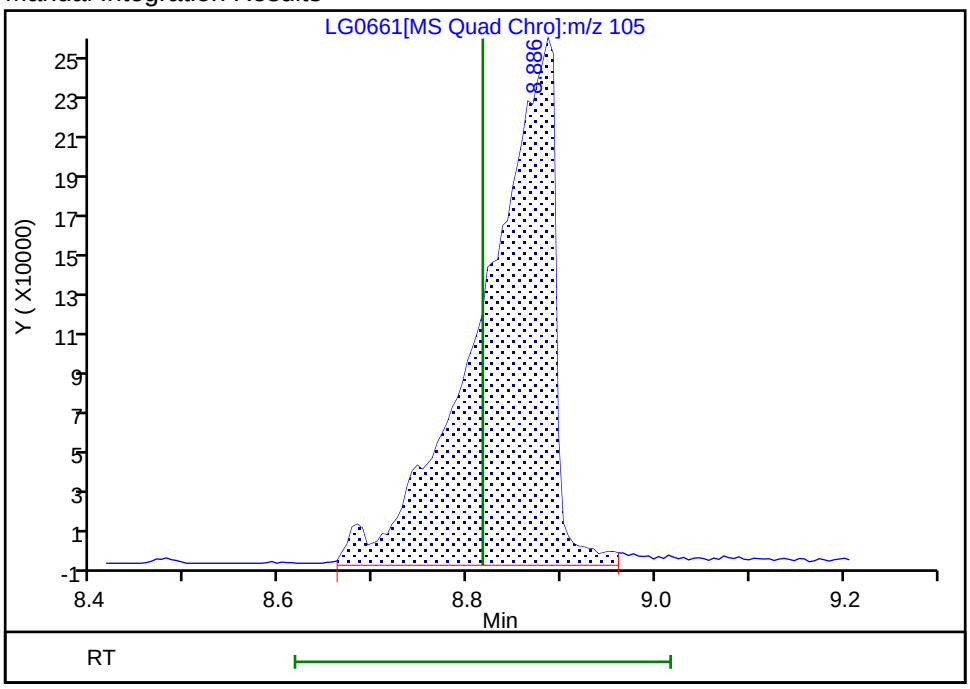
Processing Integration Results

RT: 8.86
Area: 859760
Amount: 18.182815
Amount Units: ug/ml



Manual Integration Results

RT: 8.89
Area: 1405189
Amount: 29.717934
Amount Units: ug/ml



Reviewer: transuea, 15-Jul-2020 19:11:25

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

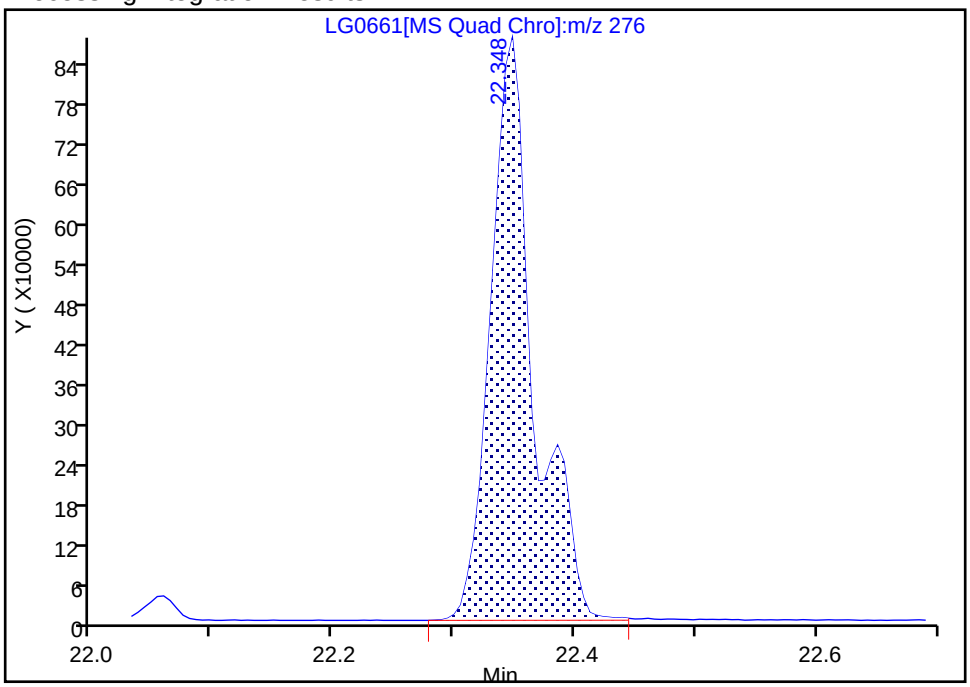
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0661.D				
Injection Date:	15-Jul-2020 18:18:37	Instrument ID:	HP20296		
Lims ID:	ICV				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

163 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

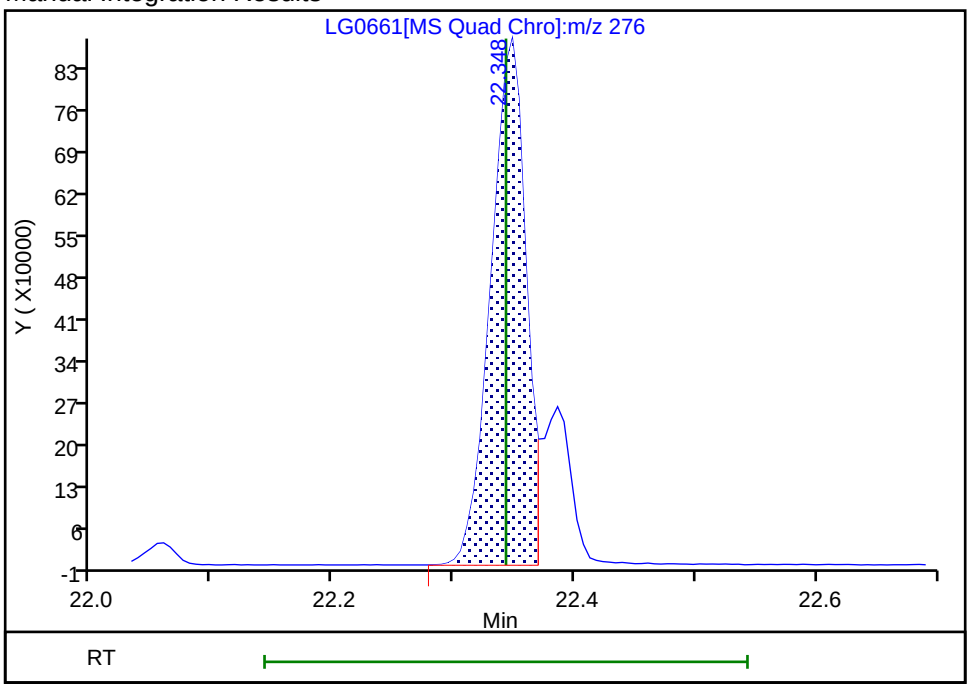
Processing Integration Results

RT: 22.35
Area: 2191950
Amount: 14.950305
Amount Units: ug/ml



Manual Integration Results

RT: 22.35
Area: 1757773
Amount: 11.988979
Amount Units: ug/ml



Reviewer: transuea, 15-Jul-2020 19:13:59

Audit Action: Manually Integrated Audit Reason: Baseline

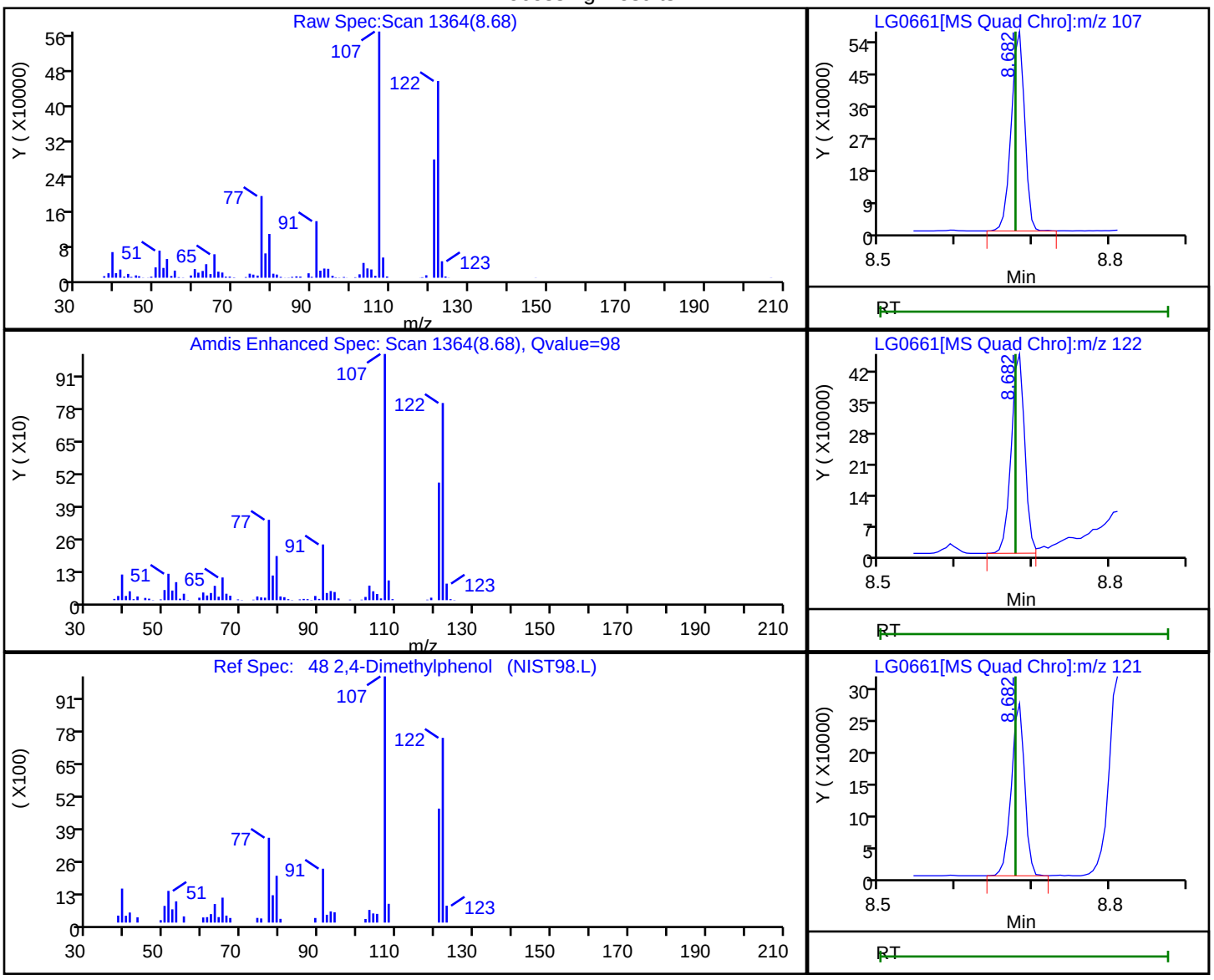
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0661.D				
Injection Date:	15-Jul-2020 18:18:37	Instrument ID:	HP20296		
Lims ID:	ICV				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

48 2,4-Dimethylphenol, CAS: 105-67-9

Processing Results



RT	Mass	Response	Amount
8.68	107.00	691680	9.733606
8.68	122.00	556258	
8.68	121.00	330203	

Reviewer: transuea, 24-Jul-2020 17:32:39

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

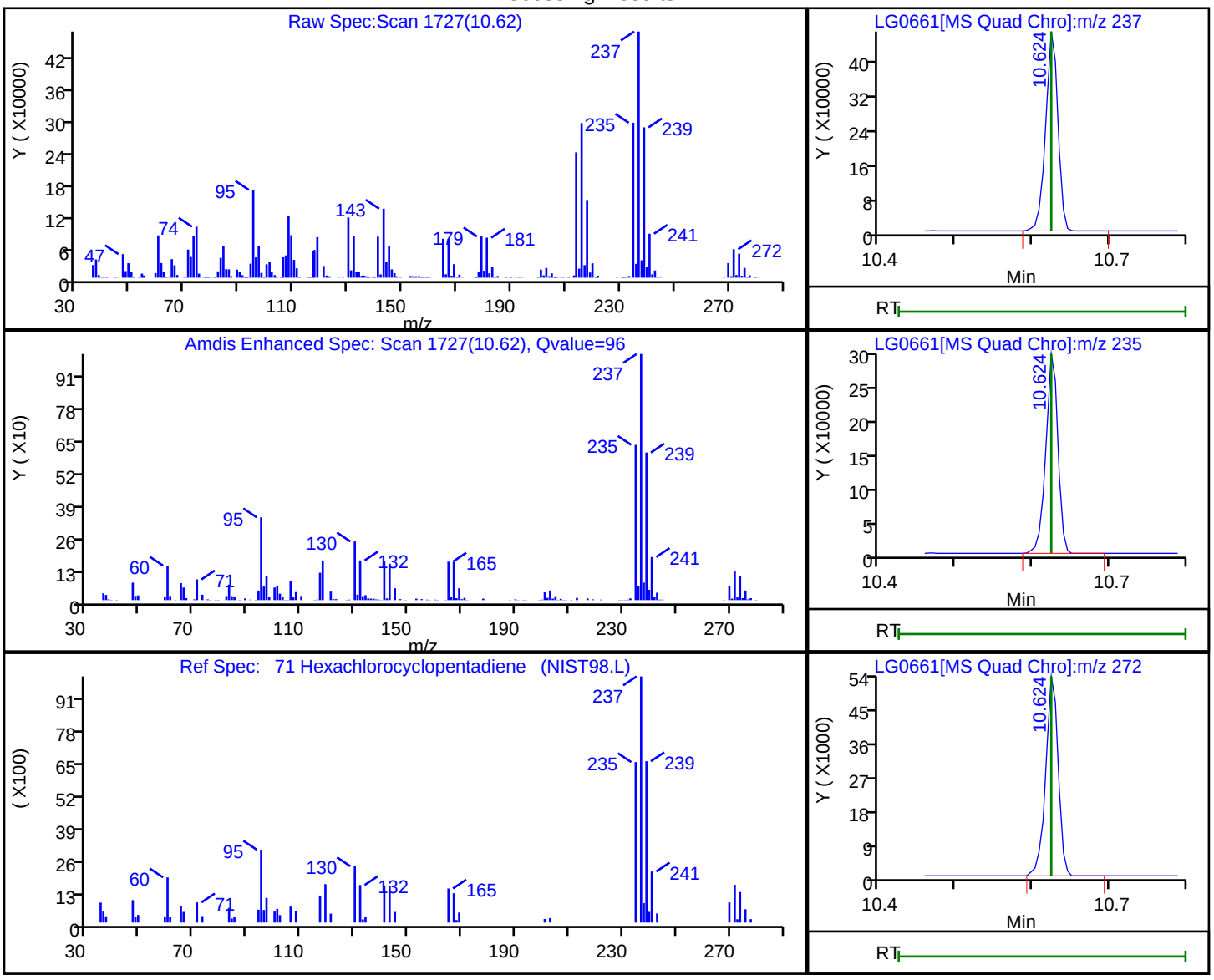
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0661.D
Injection Date: 15-Jul-2020 18:18:37 Instrument ID: HP20296
Lims ID: ICV
Client ID:
Operator ID: lmh00956 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

71 Hexachlorocyclopentadiene, CAS: 77-47-4

Processing Results



RT	Mass	Response	Amount
10.62	237.00	520322	18.303957
10.62	235.00	323338	
10.62	272.00	61386	

Reviewer: transuea, 24-Jul-2020 17:31:58
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.: 410-15514-1

SDG No.:

Lab Sample ID: CCVIS 410-51042/2 Calibration Date: 10/05/2020 21:46

Instrument ID: HP20296 Calib Start Date: 07/15/2020 13:18

GC Column: DB-5MS 20m 0.18 ID: 0.18(mm) Calib End Date: 07/15/2020 16:51

Lab File ID: LJ0101b.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6196	0.8393		10.2	7.50	35.5*	20.0
N-Nitrosodimethylamine	Ave	0.9584	1.354		10.6	7.50	41.3*	20.0
Pyridine	Ave	1.698	2.030		8.97	7.50	19.5	20.0
2-Picoline	Ave	1.963	2.236		8.54	7.50	13.9	20.0
N-Nitrosomethylethylamine	Ave	0.7877	0.8466		8.06	7.50	7.5	20.0
Methyl methanesulfonate	Ave	0.8742	1.147		9.84	7.50	31.2*	20.0
N-Nitrosodiethylamine	Ave	0.7600	0.8864		8.75	7.50	16.6	20.0
Ethyl methanesulfonate	Ave	0.8433	0.9454		8.41	7.50	12.1	20.0
Benzaldehyde	Ave	1.517	2.039	0.0100	10.1	7.50	34.4*	20.0
Aniline	Ave	2.815	3.417		9.11	7.50	21.4*	20.0
Phenol	Ave	2.309	2.848	0.8000	9.25	7.50	23.3*	20.0
Bis(2-chloroethyl)ether	Ave	1.896	2.211	0.7000	8.75	7.50	16.6	20.0
2-Chlorophenol	Ave	1.539	1.601	0.8000	7.80	7.50	4.0	20.0
1,3-Dichlorobenzene	Ave	1.649	1.636		7.44	7.50	-0.8	20.0
1,4-Dichlorobenzene	Ave	1.672	1.692		7.59	7.50	1.2	20.0
Benzyl alcohol	Ave	1.175	1.307		8.34	7.50	11.2	20.0
1,2-Dichlorobenzene	Ave	1.585	1.609		7.61	7.50	1.5	20.0
Indene	Ave	2.407	2.802		8.73	7.50	16.4	20.0
2-Methylphenol	Ave	1.557	1.730	0.7000	8.34	7.50	11.1	20.0
2,2'-oxybis[1-chloropropane]	Ave	2.142	2.699	0.0100	9.45	7.50	26.0*	20.0
N-Nitrosopyrrolidine	Ave	0.8657	0.9740		8.44	7.50	12.5	20.0
Acetophenone	Ave	2.532	3.038	0.0100	9.00	7.50	20.0	20.0
N-Nitrosodi-n-propylamine	Ave	1.415	1.703	0.5000	9.03	7.50	20.3*	20.0
N-Nitrosomorpholine	Ave	0.9603	1.382		10.8	7.50	43.9*	20.0
4-Methylphenol (and/or 3-Methylphenol)	Ave	1.641	2.003	0.6000	9.15	7.50	22.1*	20.0
o-Toluidine	Ave	2.763	3.148		8.54	7.50	13.9	20.0
Hexachloroethane	Ave	0.7584	0.8512	0.3000	8.42	7.50	12.2	20.0
Nitrobenzene	Ave	0.5138	0.6135	0.2000	8.96	7.50	19.4	20.0
N-Nitrosopiperidine	Ave	0.1971	0.1976		7.52	7.50	0.3	20.0
Isophorone	Ave	0.9080	1.016	0.4000	8.39	7.50	11.9	20.0
2-Nitrophenol	Ave	0.1851	0.1741	0.1000	7.05	7.50	-5.9	20.0
2,4-Dimethylphenol	Ave	0.4248	0.4582	0.2000	8.09	7.50	7.9	20.0
o,o',o''-Triethylphosphorothioate	Ave	0.1492	0.1314		6.60	7.50	-11.9	20.0
Bis(2-chloroethoxy)methane	Ave	0.5817	0.6248	0.3000	8.06	7.50	7.4	20.0
Benzoic acid	Ave	0.2826	0.2405		8.51	10.0	-14.9	20.0
2,4-Dichlorophenol	Ave	0.2863	0.2704	0.2000	7.08	7.50	-5.6	20.0
1,2,4-Trichlorobenzene	Ave	0.2958	0.2711		6.87	7.50	-8.4	20.0
Naphthalene	Ave	1.131	1.076	0.7000	7.14	7.50	-4.9	20.0
4-Chloroaniline	Ave	0.4514	0.4471	0.0100	7.43	7.50	-1.0	20.0
2,6-Dichlorophenol	Ave	0.2778	0.2577		6.96	7.50	-7.2	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1

SDG No.:

Lab Sample ID: CCVIS 410-51042/2 Calibration Date: 10/05/2020 21:46

Instrument ID: HP20296 Calib Start Date: 07/15/2020 13:18

GC Column: DB-5MS 20m 0.18 ID: 0.18(mm) Calib End Date: 07/15/2020 16:51

Lab File ID: LJ0101b.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Hexachloropropene	Ave	0.1771	0.1624		6.88	7.50	-8.3	20.0
Hexachlorobutadiene	Ave	0.1553	0.1397	0.0100	6.75	7.50	-10.1	20.0
Quinoline	Ave	0.6967	0.6377		6.86	7.50	-8.5	20.0
Caprolactam	Ave	0.1107	0.1184	0.0100	8.02	7.50	7.0	20.0
N-Nitrosodi-n-butylamine	Ave	0.3623	0.3566		7.38	7.50	-1.6	20.0
4-Chloro-3-methylphenol	Ave	0.3717	0.3715	0.2000	7.49	7.50	-0.0	20.0
Safrole, Total	Ave	0.2533	0.2318		6.86	7.50	-8.5	20.0
2-Methylnaphthalene	Ave	0.7160	0.6489	0.4000	6.80	7.50	-9.4	20.0
1-Methylnaphthalene	Ave	0.6803	0.6183		6.82	7.50	-9.1	20.0
Hexachlorocyclopentadiene	Ave	0.3667	0.2938	0.0500	6.01	7.50	-19.9	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5652	0.5717	0.0100	7.59	7.50	1.1	20.0
Isosafrole Peak 1	Ave	0.6427	0.6189		1.16	1.20	-3.7	20.0
2,4,6-Trichlorophenol	Ave	0.4053	0.3943	0.2000	7.30	7.50	-2.7	20.0
2,4,5-Trichlorophenol	Ave	0.4289	0.4015	0.2000	7.02	7.50	-6.4	20.0
Isosafrole Peak 2	Ave	0.6789	0.6811		6.32	6.30	0.3	20.0
1,1'-Biphenyl	Ave	1.809	1.963	0.0100	8.14	7.50	8.5	20.0
2-Chloronaphthalene	Ave	1.427	1.394	0.8000	7.33	7.50	-2.3	20.0
1-Chloronaphthalene	Ave	1.269	1.272		7.52	7.50	0.3	20.0
Diphenyl ether	Ave	0.9023	0.8826		7.34	7.50	-2.2	20.0
2-Nitroaniline	Ave	0.4881	0.4937	0.0100	7.59	7.50	1.1	20.0
1,4-Naphthoquinone	Ave	0.5828	0.5482		7.06	7.50	-5.9	20.0
1,4-Dinitrobenzene	Ave	0.2158	0.2098		7.29	7.50	-2.8	20.0
Dimethyl phthalate	Ave	1.578	1.542	0.0100	7.33	7.50	-2.2	20.0
1,3-Dinitrobenzene	Ave	0.2439	0.2286		7.03	7.50	-6.3	20.0
2,6-Dinitrotoluene	Ave	0.3468	0.3603	0.2000	7.79	7.50	3.9	20.0
Acenaphthylene	Ave	2.048	2.087	0.9000	7.64	7.50	1.9	20.0
3-Nitroaniline	Ave	0.4085	0.3955	0.0100	7.26	7.50	-3.2	20.0
Acenaphthene	Ave	1.514	1.554	0.9000	7.70	7.50	2.7	20.0
2,4-Dinitrophenol	Ave	0.1870	0.1680	0.0100	8.98	10.0	-10.2	20.0
Pentachlorobenzene	Ave	0.4875	0.4455		6.85	7.50	-8.6	20.0
4-Nitrophenol	Ave	0.2985	0.3942	0.0100	9.91	7.50	32.1*	20.0
Dibenzofuran	Ave	1.904	1.920	0.8000	7.57	7.50	0.9	20.0
2,4-Dinitrotoluene	Ave	0.4764	0.4576	0.2000	7.20	7.50	-3.9	20.0
1-Naphthylamine	Ave	1.534	1.460		7.14	7.50	-4.8	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3072	0.2928	0.0100	7.15	7.50	-4.7	20.0
2-Naphthylamine	Ave	1.535	1.427		6.97	7.50	-7.1	20.0
Diethyl phthalate	Ave	1.665	1.656	0.0100	7.46	7.50	-0.5	20.0
Fluorene	Ave	1.582	1.504	0.9000	7.13	7.50	-4.9	20.0
Thionazin	Ave	0.3340	0.3794		8.52	7.50	13.6	20.0
4-Chlorophenyl-phenyl ether	Ave	0.6507	0.6139	0.4000	7.08	7.50	-5.7	20.0
5-Nitro-o-toluidine	Ave	0.4603	0.4271		6.96	7.50	-7.2	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1

SDG No.:

Lab Sample ID: CCVIS 410-51042/2 Calibration Date: 10/05/2020 21:46

Instrument ID: HP20296 Calib Start Date: 07/15/2020 13:18

GC Column: DB-5MS 20m 0.18 ID: 0.18(mm) Calib End Date: 07/15/2020 16:51

Lab File ID: LJ0101b.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Nitroaniline	Ave	0.4475	0.3899	0.0100	6.53	7.50	-12.9	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1241	0.1201	0.0100	7.25	7.50	-3.3	20.0
N-Nitrosodiphenylamine	Ave	0.6965	0.7142	0.0100	7.69	7.50	2.5	20.0
1,2-Diphenylhydrazine	Ave	1.197	1.625		10.2	7.50	35.7*	20.0
Sulfotepp	Ave	0.1990	0.2641		9.96	7.50	32.7*	20.0
cis-Diallate	Ave	0.4862	0.5889		6.72	5.55	21.1*	20.0
Phorate	Ave	0.7514	0.9838		9.82	7.50	30.9*	20.0
Phenacetin	Ave	0.5534	0.6626		8.98	7.50	19.7	20.0
4-Bromophenyl-phenylether	Ave	0.1947	0.1939	0.1000	7.47	7.50	-0.4	20.0
trans-Diallate	Ave	0.4964	0.6108		2.40	1.95	23.0*	20.0
Hexachlorobenzene	Ave	0.2125	0.2304	0.1000	8.13	7.50	8.5	20.0
Dimethoate	Ave	0.4957	0.6015		9.10	7.50	21.4*	20.0
Atrazine	Ave	0.2082	0.2127	0.0100	7.66	7.50	2.2	20.0
Pentachlorophenol	Ave	0.1397	0.1130	0.0500	6.07	7.50	-19.1	20.0
4-Aminobiphenyl	Ave	0.6595	0.6501		7.39	7.50	-1.4	20.0
Pentachloronitrobenzene	Ave	0.0993	0.1045		7.89	7.50	5.2	20.0
Pronamide	Ave	0.4029	0.4060		7.56	7.50	0.8	20.0
Dinoseb	Ave	0.1820	0.1626		6.70	7.50	-10.6	20.0
Phenanthrene	Ave	1.216	1.191	0.7000	7.35	7.50	-2.0	20.0
Anthracene	Ave	1.233	1.236	0.7000	7.52	7.50	0.3	20.0
Carbazole	Ave	1.156	1.164	0.0100	7.55	7.50	0.7	20.0
Methyl parathion	Ave	0.3920	0.4465		8.54	7.50	13.9	20.0
Di-n-butyl phthalate	Ave	1.651	1.705	0.0100	7.75	7.50	3.3	20.0
Parathion	Ave	0.2387	0.2679		8.42	7.50	12.2	20.0
4-Nitroquinoline-1-oxide	Ave	0.1464	0.0768			7.50	-47.5*	20.0
Octachlorostyrene	Ave	0.0997	0.1031		7.76	7.50	3.5	20.0
Isodrin	Ave	0.1461	0.1393		7.15	7.50	-4.6	20.0
Fluoranthene	Ave	1.251	1.206	0.6000	7.23	7.50	-3.6	20.0
Benzidine	Ave	0.9427	0.8970		21.4	22.5	-4.9	20.0
Pyrene	Ave	1.390	1.377	0.6000	7.43	7.50	-0.9	20.0
p-Dimethylamino azobenzene	Ave	0.2139	0.1981		6.95	7.50	-7.4	20.0
Chlorobenzilate	Ave	0.5306	0.5870		8.30	7.50	10.6	20.0
3,3'-Dimethylbenzidine	Ave	0.8906	0.8309		7.00	7.50	-6.7	20.0
Butylbenzylphthalate	Ave	0.7568	0.8351	0.0100	8.28	7.50	10.3	20.0
2-Acetylaminofluorene	Ave	0.5791	0.5906		7.65	7.50	2.0	20.0
3,3'-Dichlorobenzidine	Ave	0.4549	0.4262	0.0100	7.03	7.50	-6.3	20.0
Benzo[a]anthracene	Ave	1.157	1.146	0.8000	7.43	7.50	-1.0	20.0
4,4'-Methylene bis(2-chloroaniline)	Ave	0.2379	0.2427			7.50	2.0	20.0
Chrysene	Ave	1.159	1.117	0.7000	7.23	7.50	-3.6	20.0
Bis(2-ethylhexyl) phthalate	Ave	1.139	1.217	0.0100	8.02	7.50	6.9	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1

SDG No.:

Lab Sample ID: CCVIS 410-51042/2 Calibration Date: 10/05/2020 21:46

Instrument ID: HP20296 Calib Start Date: 07/15/2020 13:18

GC Column: DB-5MS 20m 0.18 ID: 0.18(mm) Calib End Date: 07/15/2020 16:51

Lab File ID: LJ0101b.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
6-Methylchrysene	Ave	0.8047	0.7904		7.37	7.50	-1.8	20.0
Di-n-octyl phthalate	Ave	2.105	2.177	0.0100	7.76	7.50	3.4	20.0
7,12-Dimethylbenz(a)anthracene	Ave	0.5383	0.5180		7.22	7.50	-3.8	20.0
Benzo[b]fluoranthene	Ave	1.278	1.236	0.7000	7.26	7.50	-3.3	20.0
Benzo[k]fluoranthene	Ave	1.229	1.204	0.7000	7.35	7.50	-2.0	20.0
Benzo[a]pyrene	Ave	1.192	1.161	0.7000	7.31	7.50	-2.6	20.0
3-Methylcholanthrene	Ave	0.5892	0.5686		7.24	7.50	-3.5	20.0
Dibenz[a,h]acridine	Ave	0.9203	0.9405		7.66	7.50	2.2	20.0
Dibenz[a,j]acridine	Ave	0.9402	0.9810		7.83	7.50	4.3	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.110	1.157	0.5000	7.82	7.50	4.2	20.0
Dibenz(a,h)anthracene	Ave	1.113	1.195	0.4000	8.05	7.50	7.3	20.0
Benzo[g,h,i]perylene	Ave	1.129	1.213	0.5000	8.06	7.50	7.5	20.0
2-Fluorophenol (Surr)	Ave	1.587	1.809		17.1	15.0	14.0	20.0
Phenol-d5 (Surr)	Ave	2.046	2.404		17.6	15.0	17.5	20.0
Nitrobenzene-d5 (Surr)	Ave	0.5061	0.6000		17.8	15.0	18.5	20.0
2-Fluorobiphenyl (Surr)	Ave	1.569	1.567		15.0	15.0	-0.0	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.1988	0.1968		14.8	15.0	-1.0	20.0
p-Terphenyl-d14 (Surr)	Ave	0.9044	0.8810		14.6	15.0	-2.6	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\LJ0101b.D
Lims ID: CCVIS L5
Client ID:
Sample Type: CCVIS
Inject. Date: 05-Oct-2020 21:46:34 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS L5
Misc. Info.: 410-0012109-002
Operator ID: kel10217 Instrument ID: HP20296
Sublist: chrom-MSSemi_HP20296*sub6

Method: \\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 05-Oct-2020 23:10:47 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: luttek Date: 05-Oct-2020 22:21:00

	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	2.114	2.114	0.000	95	169486	7.50	10.2	
	2 N-Nitrosodimethylamine	74	2.681	2.681	0.000	94	273394	7.50	10.6	
	3 Pyridine	79	2.724	2.724	0.000	95	409949	7.50	8.97	
	5 2-Picoline	93	3.912	3.912	0.000	94	451514	7.50	8.54	
	6 N-Nitrosomethylethylamine	88	4.104	4.104	0.000	93	170963	7.50	8.06	
	9 Methyl methanesulfonate	80	4.564	4.564	0.000	87	231669	7.50	9.84	
$	10 2-Fluorophenol	112	4.810	4.810	0.000	95	730687	15.0	17.1	
	11 N-Nitrosodiethylamine	102	5.142	5.142	0.000	91	178998	7.50	8.75	
	13 Ethyl methanesulfonate	109	5.612	5.612	0.000	95	190902	7.50	8.41	
	15 Benzaldehyde	77	6.072	6.072	0.000	89	411761	7.50	10.1	
$	16 Phenol-d5	99	6.222	6.222	0.000	95	970743	15.0	17.6	
	18 Aniline	93	6.238	6.238	0.000	73	690027	7.50	9.11	
	17 Phenol	94	6.238	6.238	0.000	81	575081	7.50	9.25	
	19 Bis(2-chloroethyl)ether	93	6.361	6.361	0.000	93	446502	7.50	8.75	
	20 2-Chlorophenol	128	6.409	6.409	0.000	91	323237	7.50	7.80	
	22 1,3-Dichlorobenzene	146	6.634	6.634	0.000	87	330267	7.50	7.44	
*	24 1,4-Dichlorobenzene-d4	152	6.725	6.725	0.000	92	134622	5.00	5.00	
	25 1,4-Dichlorobenzene	146	6.752	6.752	0.000	83	341763	7.50	7.59	
	27 Benzyl alcohol	108	6.960	6.960	0.000	87	263961	7.50	8.34	
	29 1,2-Dichlorobenzene	146	6.976	6.976	0.000	85	324871	7.50	7.61	
	30 Indene	115	7.115	7.115	0.000	88	565794	7.50	8.73	
	31 2-Methylphenol	108	7.158	7.158	0.000	97	349366	7.50	8.34	
	32 2,2'-oxybis[1-chloropropane]	45	7.180	7.180	0.000	94	544946	7.50	9.45	
	34 N-Nitrosopyrrolidine	100	7.324	7.324	0.000	87	196674	7.50	8.44	
	35 Acetophenone	105	7.361	7.361	0.000	91	613503	7.50	9.00	
	37 N-Nitrosodi-n-propylamine	70	7.383	7.383	0.000	85	343952	7.50	9.03	
	38 N-Nitrosomorpholine	56	7.399	7.399	0.000	90	279003	7.50	10.8	
	36 4-Methylphenol	108	7.404	7.404	0.000	84	404386	7.50	9.15	
	39 2-Toluidine	106	7.410	7.410	0.000	94	635599	7.50	8.54	
	40 Hexachloroethane	117	7.490	7.490	0.000	89	171888	7.50	8.42	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	7.581	7.581	0.000	88	1037397	15.0	17.8	
42 Nitrobenzene	77	7.613	7.613	0.000	86	530414	7.50	8.96	
44 N-Nitrosopiperidine	114	7.848	7.848	0.000	82	170874	7.50	7.52	
46 Isophorone	82	7.998	7.998	0.000	98	878041	7.50	8.39	
47 2-Nitrophenol	139	8.110	8.110	0.000	74	150506	7.50	7.05	
48 2,4-Dimethylphenol	107	8.223	8.223	0.000	98	396101	7.50	8.09	
49 o,o',o''-Triethylphosphorothioat	198	8.340	8.340	0.000	91	113574	7.50	6.60	
51 Bis(2-chloroethoxy)methane	93	8.378	8.378	0.000	97	540211	7.50	8.06	
50 Benzoic acid	105	8.383	8.383	0.000	86	277208	10.0	8.51	M
52 2,4-Dichlorophenol	162	8.501	8.501	0.000	89	233752	7.50	7.08	
54 1,2,4-Trichlorobenzene	180	8.624	8.624	0.000	90	234355	7.50	6.87	
* 55 Naphthalene-d8	136	8.704	8.704	0.000	99	576375	5.00	5.00	
56 Naphthalene	128	8.736	8.736	0.000	99	930274	7.50	7.14	
57 4-Chloroaniline	127	8.854	8.854	0.000	93	386537	7.50	7.43	
58 2,6-Dichlorophenol	162	8.859	8.859	0.000	90	222833	7.50	6.96	
59 Hexachloropropene	213	8.886	8.886	0.000	91	140433	7.50	6.88	
60 Hexachlorobutadiene	225	8.966	8.966	0.000	87	120780	7.50	6.75	
S 53 Dinitrotoluene	165				0		15.0	15.0	
62 Quinoline	129	9.282	9.282	0.000	91	551357	7.50	6.86	
64 Caprolactam	113	9.405	9.405	0.000	76	102378	7.50	8.02	
65 N-Nitrosodi-n-butylamine	84	9.431	9.431	0.000	92	308273	7.50	7.38	
S 63 Diallate	86				0		7.50	9.12	
66 4-Chloro-3-methylphenol	107	9.677	9.677	0.000	90	321155	7.50	7.49	
67 Safrole, Total	162	9.758	9.758	0.000	66	200388	7.50	6.86	
69 2-Methylnaphthalene	142	9.865	9.865	0.000	88	561002	7.50	6.80	
70 1-Methylnaphthalene	142	10.020	10.020	0.000	91	534528	7.50	6.82	
71 Hexachlorocyclopentadiene	237	10.132	10.132	0.000	89	106380	7.50	6.01	
72 1,2,4,5-Tetrachlorobenzene	216	10.137	10.137	0.000	92	206992	7.50	7.59	
73 Isosafrole Peak 1	162	10.234	10.234	0.000	72	35853	1.20	1.16	
74 2,4,6-Trichlorophenol	196	10.346	10.346	0.000	89	142774	7.50	7.30	
75 2,4,5-Trichlorophenol	196	10.405	10.405	0.000	81	145359	7.50	7.02	
$ 76 2-Fluorobiphenyl (Surr)	172	10.485	10.485	0.000	98	1135006	15.0	15.0	
77 Isosafrole Peak 2	162	10.603	10.603	0.000	75	207133	6.30	6.32	
79 1,1'-Biphenyl	154	10.640	10.640	0.000	97	710881	7.50	8.14	
80 2-Chloronaphthalene	162	10.651	10.651	0.000	97	504846	7.50	7.33	
81 1-Chloronaphthalene	162	10.683	10.683	0.000	91	460438	7.50	7.52	
82 Phenyl ether	170	10.822	10.822	0.000	82	319536	7.50	7.34	
83 2-Nitroaniline	138	10.843	10.843	0.000	73	178756	7.50	7.59	
84 1,4-Naphthoquinone	158	10.956	10.956	0.000	63	198495	7.50	7.06	
85 1,4-Dinitrobenzene	168	11.089	11.089	0.000	83	75955	7.50	7.29	
86 Dimethyl phthalate	163	11.180	11.180	0.000	93	558404	7.50	7.33	
87 1,3-Dinitrobenzene	168	11.202	11.202	0.000	78	82757	7.50	7.03	
88 2,6-Dinitrotoluene	165	11.261	11.261	0.000	79	130463	7.50	7.79	
90 Acenaphthylene	152	11.319	11.319	0.000	99	755725	7.50	7.64	
91 3-Nitroaniline	138	11.512	11.512	0.000	86	143199	7.50	7.26	
* 92 Acenaphthene-d10	164	11.549	11.549	0.000	96	241372	5.00	5.00	
93 Acenaphthene	153	11.598	11.598	0.000	98	562793	7.50	7.70	
94 2,4-Dinitrophenol	184	11.683	11.683	0.000	72	81111	10.0	8.98	
98 Pentachlorobenzene	250	11.796	11.796	0.000	91	161284	7.50	6.85	
96 4-Nitrophenol	109	11.817	11.817	0.000	89	142738	7.50	9.91	
100 Dibenzofuran	168	11.854	11.854	0.000	95	695205	7.50	7.57	
99 2,4-Dinitrotoluene	165	11.870	11.870	0.000	78	165688	7.50	7.20	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 1-Naphthylamine	143	11.967	11.967	0.000	95	528498	7.50	7.14	
102 2,3,4,6-Tetrachlorophenol	232	12.042	12.042	0.000	86	106021	7.50	7.15	
103 2-Naphthylamine	143	12.079	12.079	0.000	91	516538	7.50	6.97	
104 Diethyl phthalate	149	12.229	12.229	0.000	94	599648	7.50	7.46	
105 Fluorene	166	12.314	12.314	0.000	92	544589	7.50	7.13	
106 Thionazin	107	12.320	12.320	0.000	73	137355	7.50	8.52	
108 4-Chlorophenyl phenyl ether	204	12.336	12.336	0.000	85	222281	7.50	7.08	
107 N-Nitro-o-toluidine	152	12.346	12.346	0.000	85	154617	7.50	6.96	
109 4-Nitroaniline	138	12.357	12.357	0.000	76	141150	7.50	6.53	
110 4,6-Dinitro-2-methylphenol	198	12.400	12.400	0.000	52	75830	7.50	7.25	a
111 N-Nitrosodiphenylamine	169	12.485	12.485	0.000	96	451032	7.50	7.69	
112 1,2-Diphenylhydrazine	77	12.528	12.528	0.000	98	1026042	7.50	10.2	a
$ 113 2,4,6-Tribromophenol	330	12.609	12.609	0.000	83	142481	15.0	14.8	
114 Sulfotepp	97	12.710	12.710	0.000	76	166774	7.50	9.96	
115 cis-Diallate	86	12.849	12.849	0.000	88	275226	5.55	6.72	a
116 Phorate	75	12.860	12.860	0.000	94	621298	7.50	9.82	a
117 Phenacetin	108	12.887	12.887	0.000	88	418470	7.50	8.98	
118 4-Bromophenyl phenyl ether	248	12.935	12.935	0.000	78	122451	7.50	7.47	
119 trans-Diallate	86	12.956	12.956	0.000	96	100295	1.95	2.40	a
120 Hexachlorobenzene	284	12.983	12.983	0.000	87	145526	7.50	8.13	
121 Dimethoate	87	13.058	13.058	0.000	94	379858	7.50	9.10	
122 Atrazine	200	13.165	13.165	0.000	76	134319	7.50	7.66	a
123 Pentachlorophenol	266	13.245	13.245	0.000	80	71354	7.50	6.07	a
125 Pentachloronitrobenzene	237	13.256	13.256	0.000	51	66001	7.50	7.89	
124 4-Aminobiphenyl	169	13.256	13.256	0.000	93	410564	7.50	7.39	a
126 Pronamide	173	13.357	13.357	0.000	90	256384	7.50	7.56	
* 127 Phenanthrene-d10	188	13.475	13.475	0.000	97	421012	5.00	5.00	
128 Dinoseb	211	13.502	13.502	0.000	84	102712	7.50	6.70	a
129 Phenanthrene	178	13.507	13.507	0.000	98	752129	7.50	7.35	a
130 Anthracene	178	13.577	13.577	0.000	99	780817	7.50	7.52	a
131 Carbazole	167	13.801	13.801	0.000	97	735001	7.50	7.55	
132 Methyl parathion	109	14.004	14.004	0.000	86	281966	7.50	8.54	
133 Di-n-butyl phthalate	149	14.309	14.309	0.000	99	1077053	7.50	7.75	
134 Ethyl Parathion	109	14.550	14.550	0.000	79	169208	7.50	8.42	
135 4-Nitroquinoline-1-oxide	190	14.566	14.566	0.000	82	48520	7.50	3.94	
136 Octachlorostyrene	308	14.898	14.898	0.000	86	65132	7.50	7.76	
137 Isodrin	193	14.941	14.941	0.000	77	87960	7.50	7.15	
138 Fluoranthene	202	15.171	15.171	0.000	98	761656	7.50	7.23	
139 Benzidine	184	15.406	15.406	0.000	98	1545046	22.5	21.4	
* 140 Pyrene-d10 (IS)	212	15.481	15.481	0.000	98	382787	5.00	5.00	s
141 Pyrene	202	15.513	15.513	0.000	94	790659	7.50	7.43	
$ 142 p-Terphenyl-d14	244	15.796	15.796	0.000	96	1011696	15.0	14.6	
143 p-Dimethylamino azobenzene	225	16.032	16.032	0.000	88	113757	7.50	6.95	
144 Chlorobenzilate	139	16.123	16.123	0.000	74	337034	7.50	8.30	
145 3,3'-Dimethylbenzidine	212	16.599	16.599	0.000	97	477077	7.50	7.00	
146 Butyl benzyl phthalate	149	16.652	16.652	0.000	90	479485	7.50	8.28	
147 2-Acetylaminofluorene	181	17.026	17.026	0.000	95	339102	7.50	7.65	
148 3,3'-Dichlorobenzidine	252	17.529	17.529	0.000	76	244731	7.50	7.03	
149 Benzo[a]anthracene	228	17.540	17.540	0.000	97	657893	7.50	7.43	
150 4,4'-Methylene bis(2-chloroanil	231	17.551	17.551	0.000	89	139363	7.50	7.65	
151 Chrysene	228	17.599	17.599	0.000	95	641552	7.50	7.23	
152 Bis(2-ethylhexyl) phthalate	149	17.722	17.722	0.000	93	698993	7.50	8.02	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
153 6-Methylchrysene	242	18.412	18.412	0.000	97	453833	7.50	7.37	
154 Di-n-octyl phthalate	149	18.893	18.893	0.000	99	1201366	7.50	7.76	
156 7,12-Dimethylbenz(a)anthracene	256	19.412	19.412	0.000	71	285888	7.50	7.22	
155 Benzo[b]fluoranthene	252	19.412	19.412	0.000	95	682039	7.50	7.26	
157 Benzo[k]fluoranthene	252	19.460	19.460	0.000	97	664551	7.50	7.35	
158 Benzo[a]pyrene	252	19.941	19.941	0.000	82	640912	7.50	7.31	
* 159 Perylene-d12	264	20.032	20.032	0.000	96	367924	5.00	5.00	s
160 3-Methylcholanthrene	268	20.519	20.519	0.000	93	313795	7.50	7.24	
161 Dibenz[a,h]acridine	279	21.337	21.337	0.000	92	519071	7.50	7.66	
162 Dibenz[a,j]acridine	279	21.407	21.407	0.000	95	541427	7.50	7.83	
163 Indeno[1,2,3-cd]pyrene	276	21.658	21.658	0.000	97	638604	7.50	7.82	
164 Dibenz(a,h)anthracene	278	21.696	21.696	0.000	95	659296	7.50	8.05	
165 Benzo[g,h,i]perylene	276	22.049	22.049	0.000	94	669429	7.50	8.06	
S 166 Isosafrole	162				0		7.50	7.48	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSS_RV8270_5_00008 Amount Added: 1.00 Units: mL

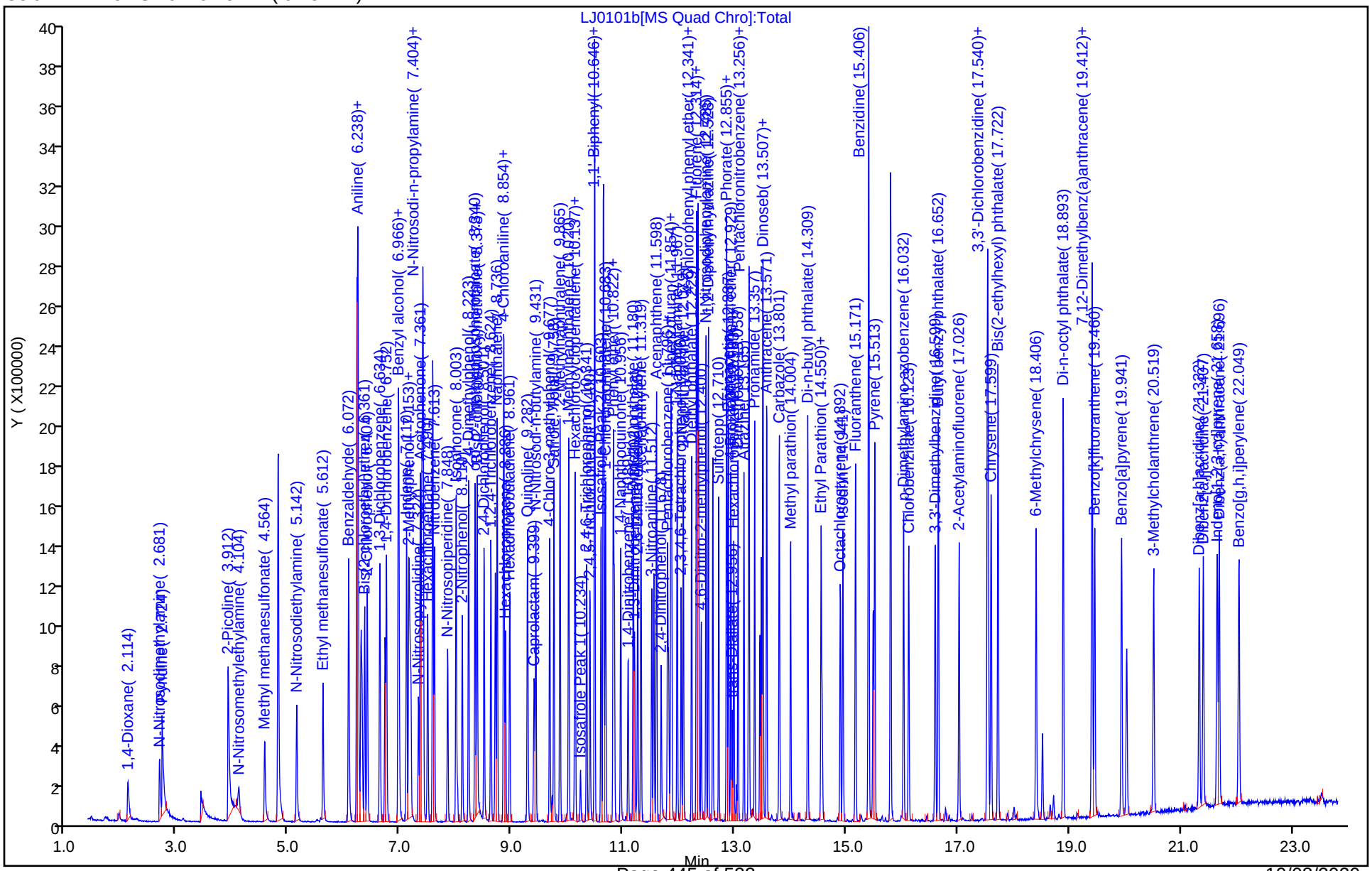
Report Date: 05-Oct-2020 23:10:49 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\LJ0101b.D

Injection Date:	05-Oct-2020 21:46:34	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	CCVIS L5			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

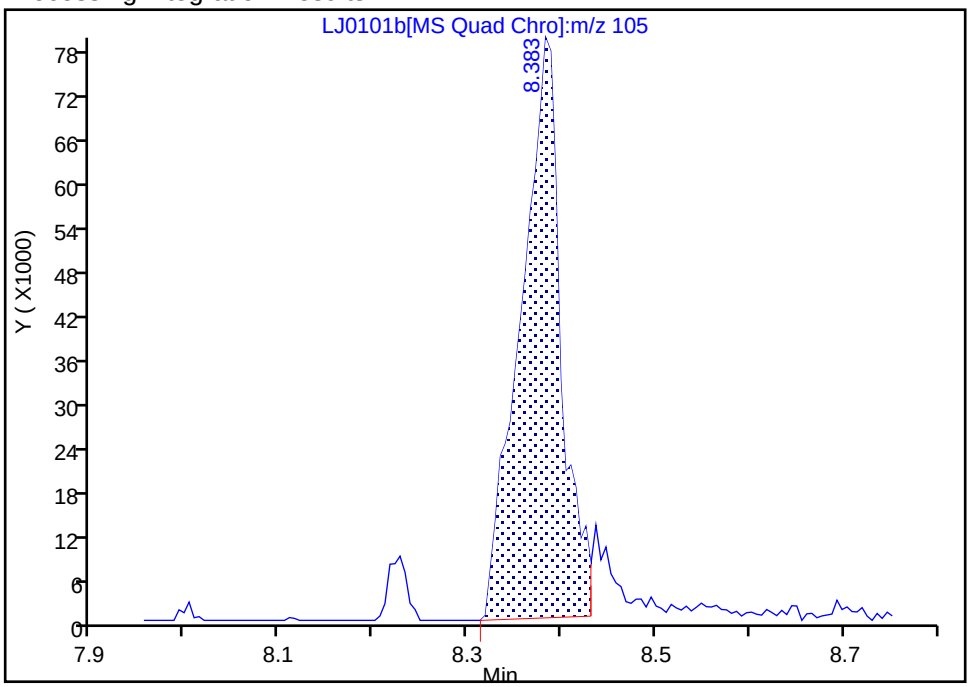
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\LJ0101b.D				
Injection Date:	05-Oct-2020 21:46:34	Instrument ID:	HP20296		
Lims ID:	CCVIS L5				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

50 Benzoic acid, CAS: 65-85-0

Signal: 1

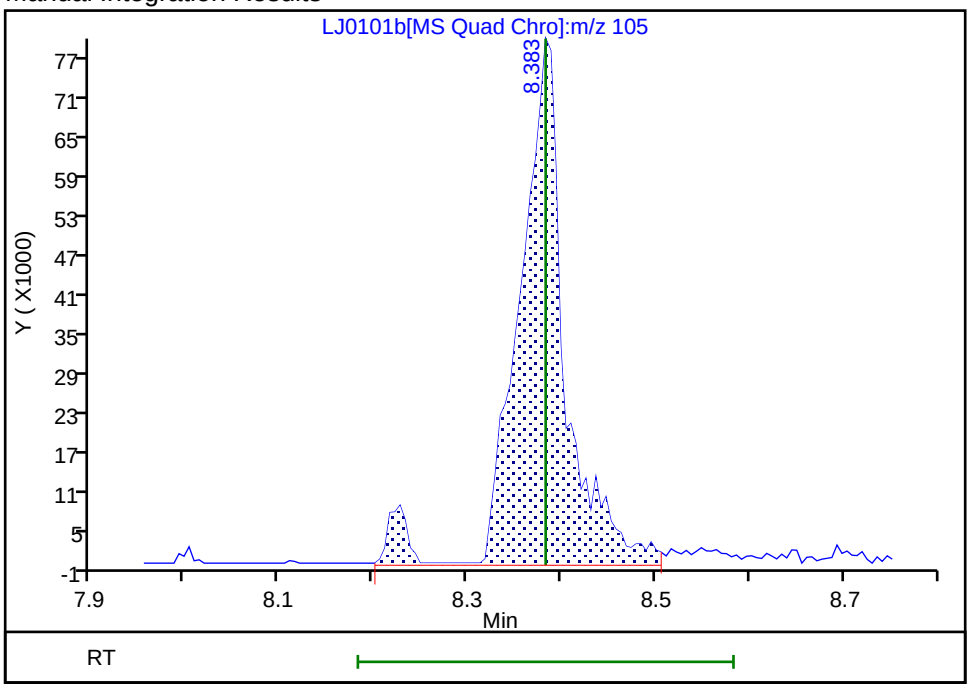
Processing Integration Results

RT: 8.38
Area: 235216
Amount: 7.219461
Amount Units: ug/ml



Manual Integration Results

RT: 8.38
Area: 277208
Amount: 8.508318
Amount Units: ug/ml



Reviewer: luttek, 05-Oct-2020 22:17:50

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

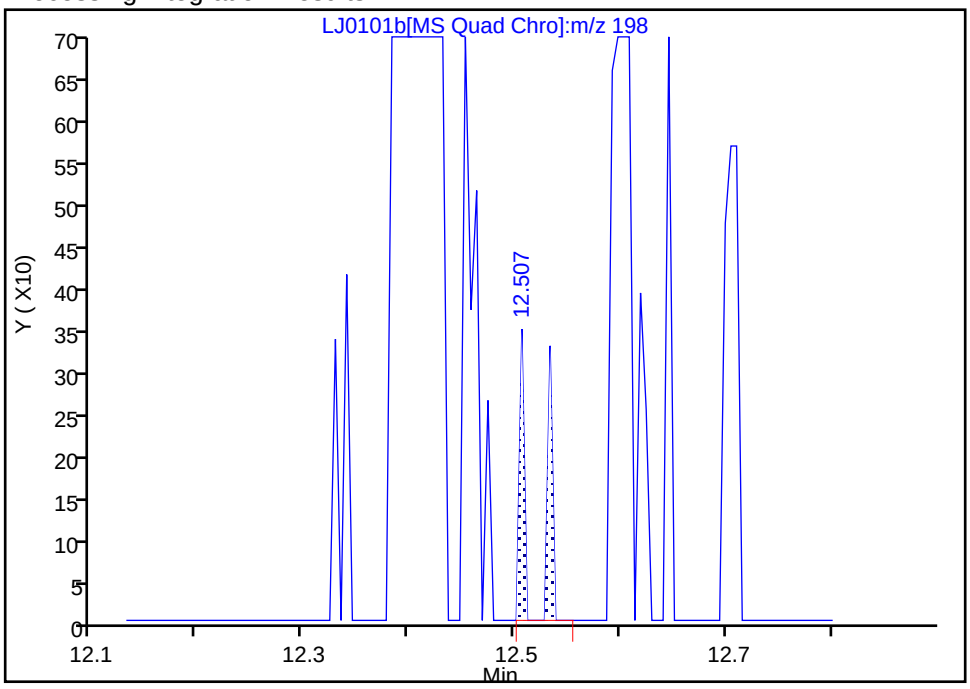
Data File: \\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\LJ0101b.D
Injection Date: 05-Oct-2020 21:46:34 Instrument ID: HP20296
Lims ID: CCVIS L5
Client ID:
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

110 4,6-Dinitro-2-methylphenol, CAS: 534-52-1

Signal: 1

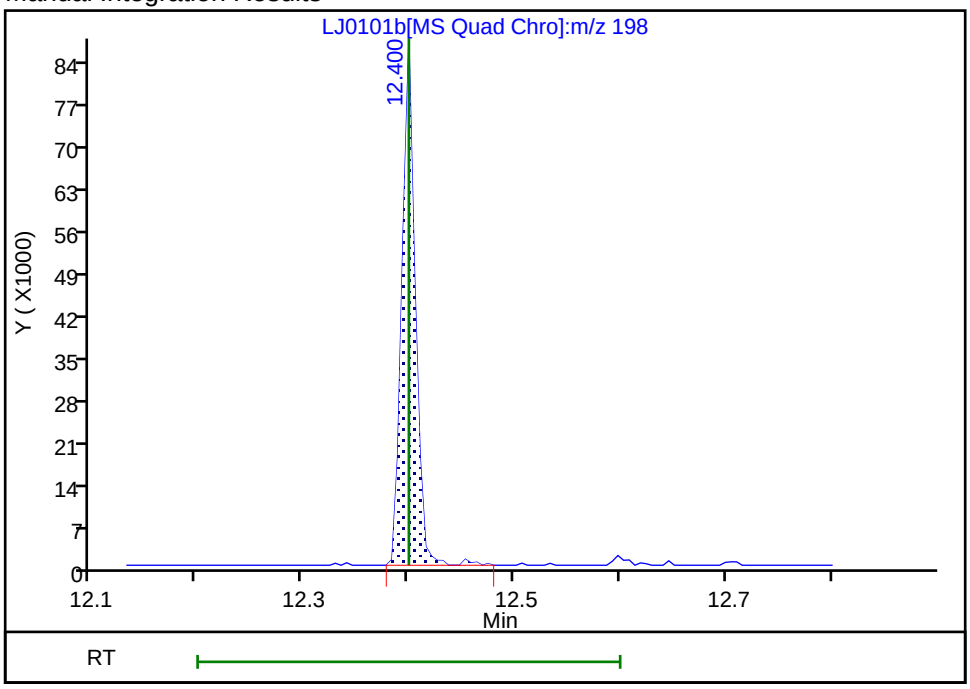
Processing Integration Results

RT: 12.51
Area: 216
Amount: 0.020664
Amount Units: ug/ml



Manual Integration Results

RT: 12.40
Area: 75830
Amount: 7.254376
Amount Units: ug/ml



Reviewer: luttek, 05-Oct-2020 22:18:13
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

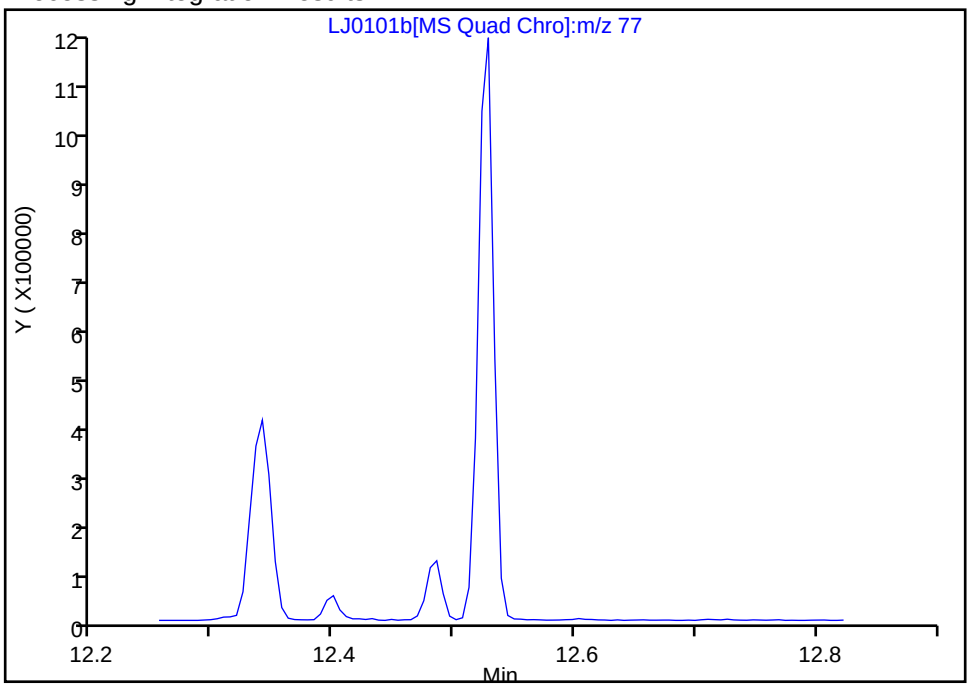
Data File: \\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\LJ0101b.D
Injection Date: 05-Oct-2020 21:46:34 Instrument ID: HP20296
Lims ID: CCVIS L5
Client ID:
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

112 1,2-Diphenylhydrazine, CAS: 122-66-7

Signal: 1

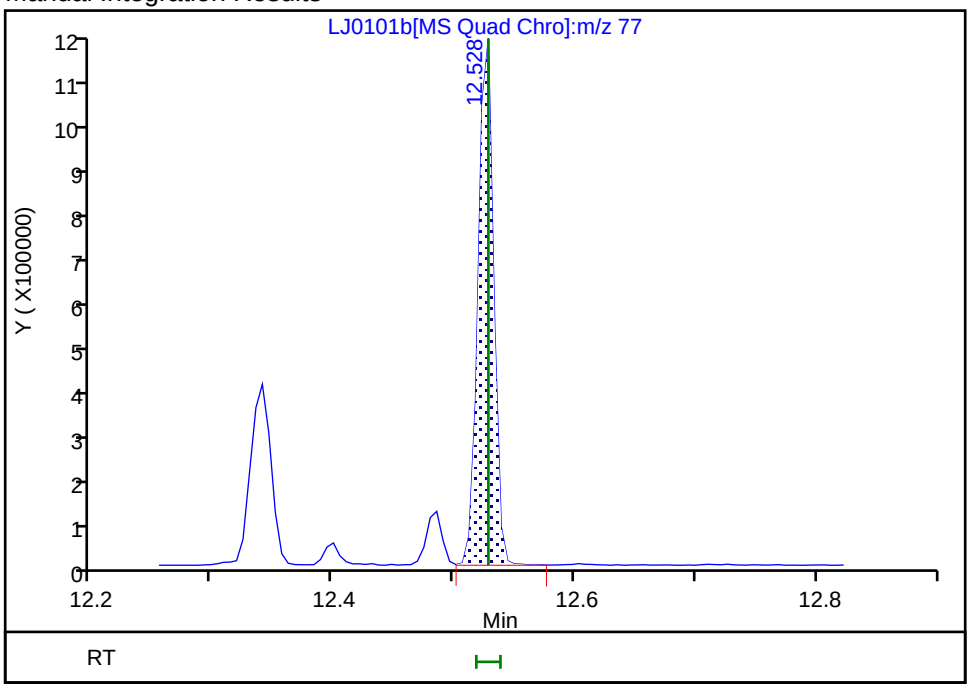
Not Detected
Expected RT: 12.53

Processing Integration Results



Manual Integration Results

RT: 12.53
Area: 1026042
Amount: 10.179602
Amount Units: ug/ml



Reviewer: luttek, 05-Oct-2020 22:18:17
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

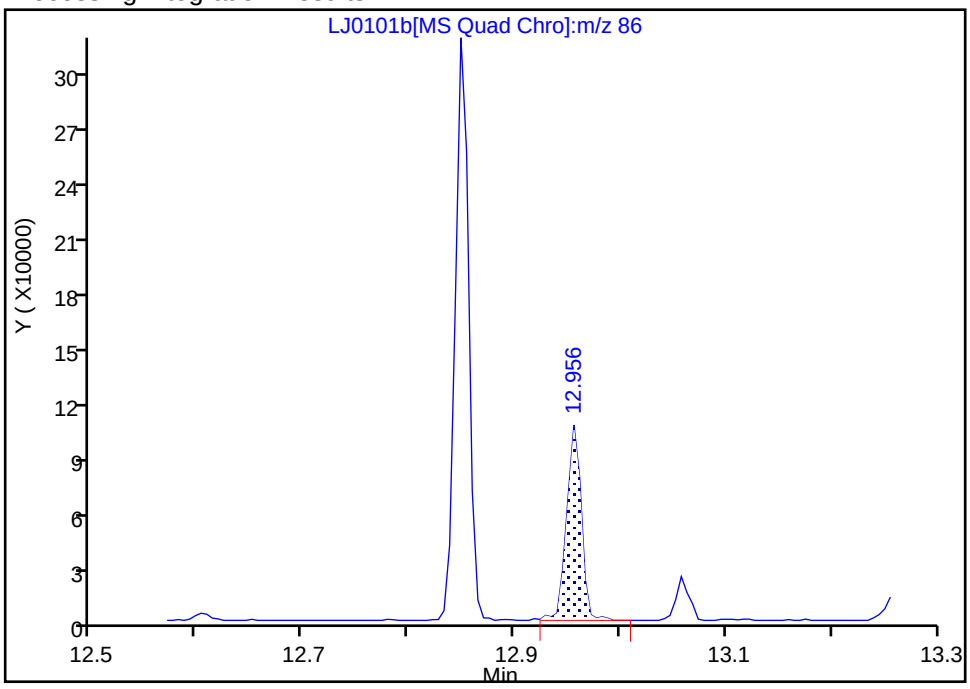
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\LJ0101b.D				
Injection Date:	05-Oct-2020 21:46:34	Instrument ID:	HP20296		
Lims ID:	CCVIS L5				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

115 cis-Diallate, CAS: 17708-57-5

Signal: 1

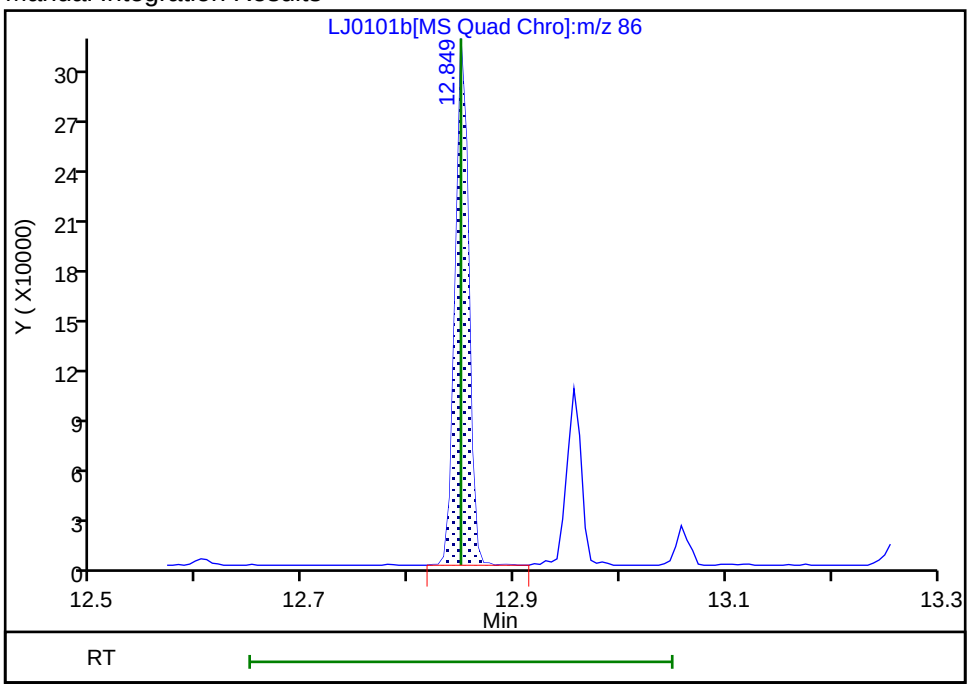
Processing Integration Results

RT: 12.96
Area: 100295
Amount: 2.449761
Amount Units: ug/ml



Manual Integration Results

RT: 12.85
Area: 275226
Amount: 6.722548
Amount Units: ug/ml



Reviewer: luttek, 05-Oct-2020 22:18:31
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

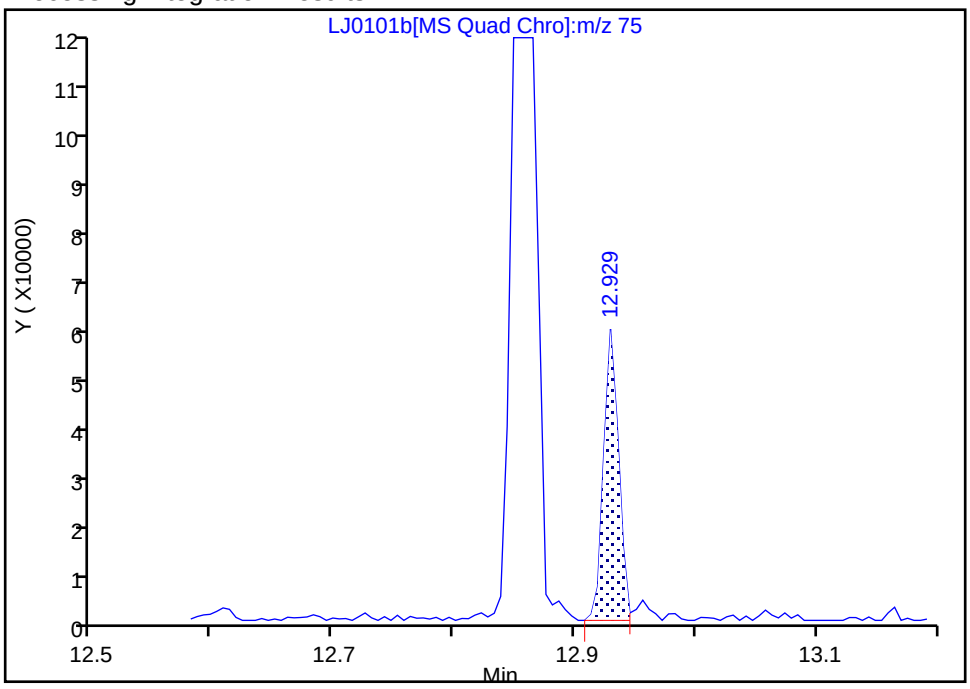
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\LJ0101b.D				
Injection Date:	05-Oct-2020 21:46:34	Instrument ID:	HP20296		
Lims ID:	CCVIS L5				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

116 Phorate, CAS: 298-02-2

Signal: 1

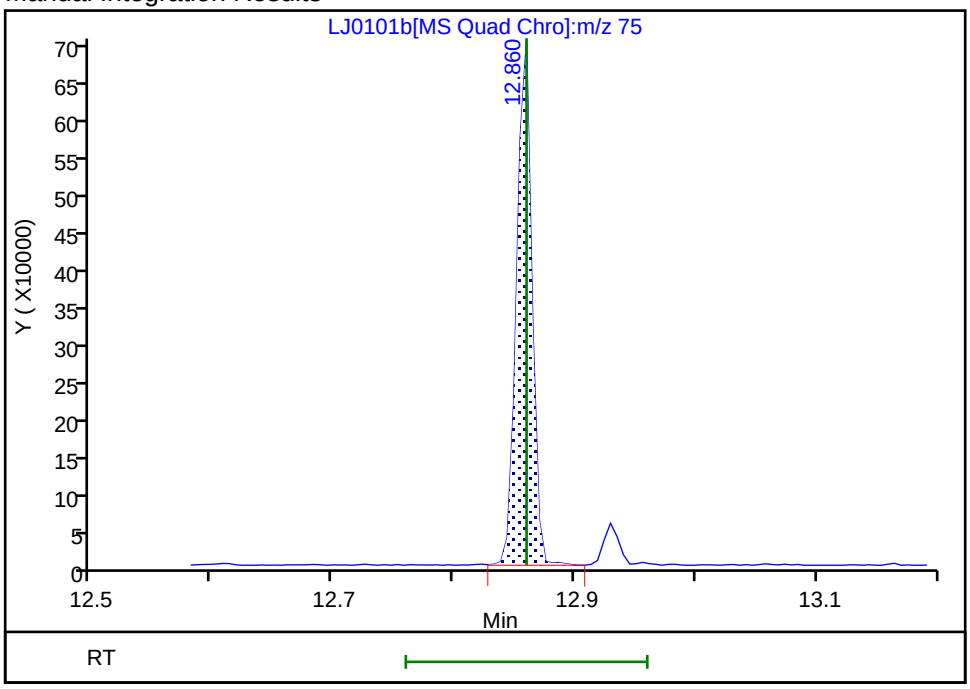
Processing Integration Results

RT: 12.93
Area: 48597
Amount: 0.768087
Amount Units: ug/ml



Manual Integration Results

RT: 12.86
Area: 621298
Amount: 9.819760
Amount Units: ug/ml



Reviewer: luttek, 05-Oct-2020 22:18:24
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

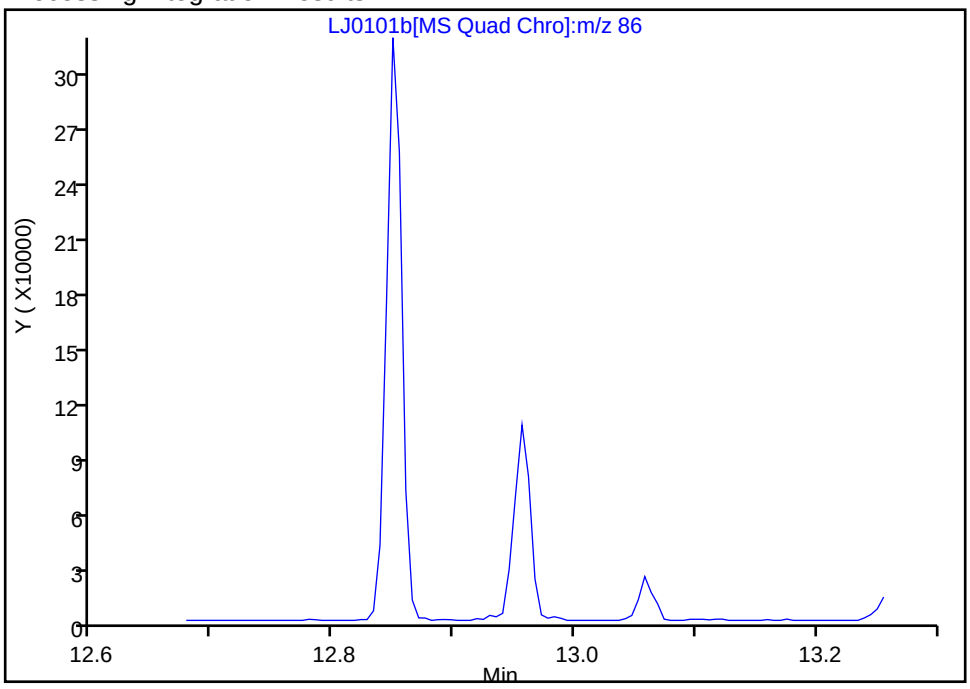
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\LJ0101b.D				
Injection Date:	05-Oct-2020 21:46:34	Instrument ID:	HP20296		
Lims ID:	CCVIS L5				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

119 trans-Diallate, CAS: 17708-58-6

Signal: 1

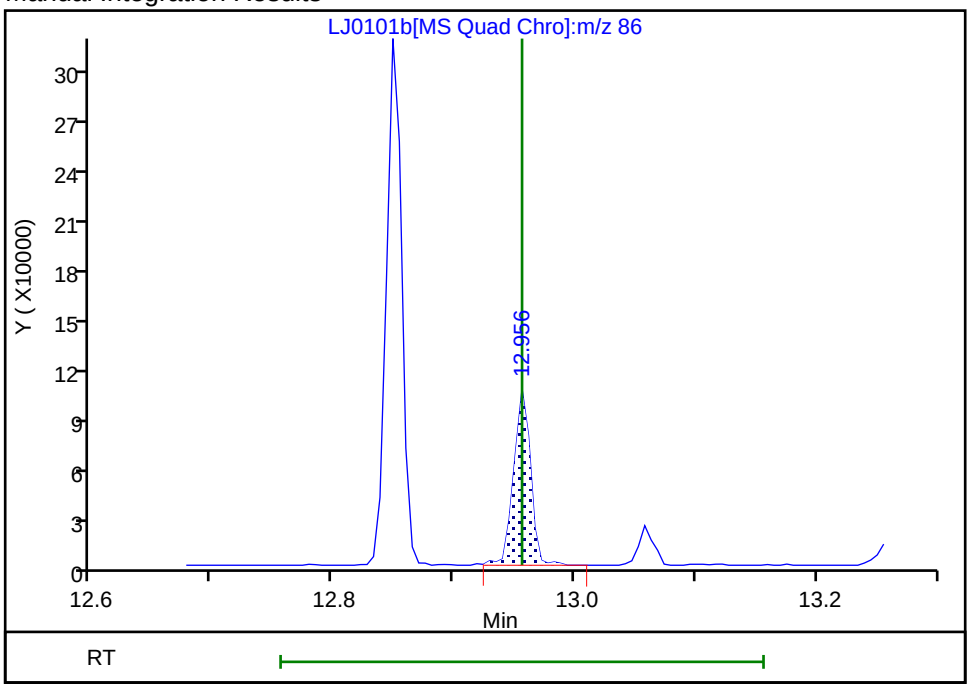
Not Detected
Expected RT: 12.96

Processing Integration Results



Manual Integration Results

RT: 12.96
Area: 100295
Amount: 2.399444
Amount Units: ug/ml



Reviewer: luttek, 05-Oct-2020 22:18:37
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

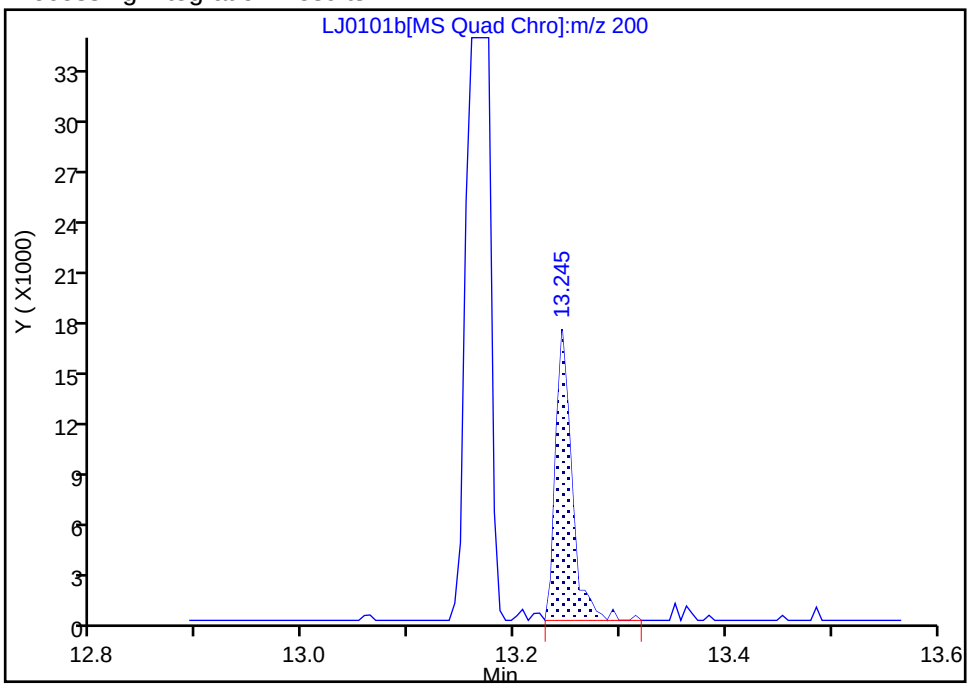
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\LJ0101b.D				
Injection Date:	05-Oct-2020 21:46:34	Instrument ID:	HP20296		
Lims ID:	CCVIS L5				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

122 Atrazine, CAS: 1912-24-9

Signal: 1

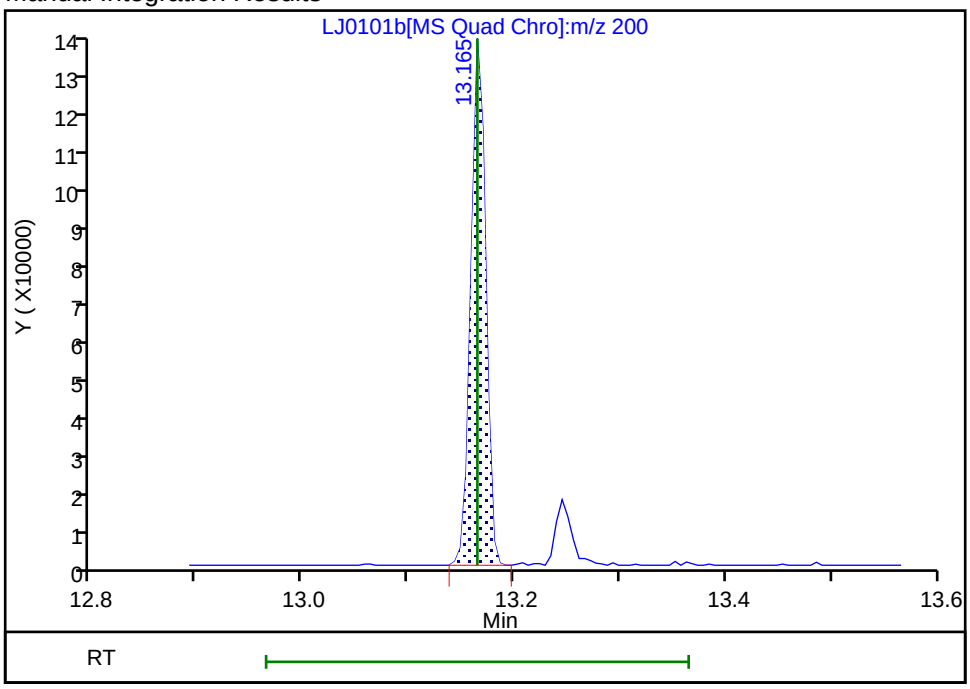
Processing Integration Results

RT: 13.24
Area: 18324
Amount: 1.045429
Amount Units: ug/ml



Manual Integration Results

RT: 13.16
Area: 134319
Amount: 7.663229
Amount Units: ug/ml



Reviewer: luttek, 05-Oct-2020 22:18:43

Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

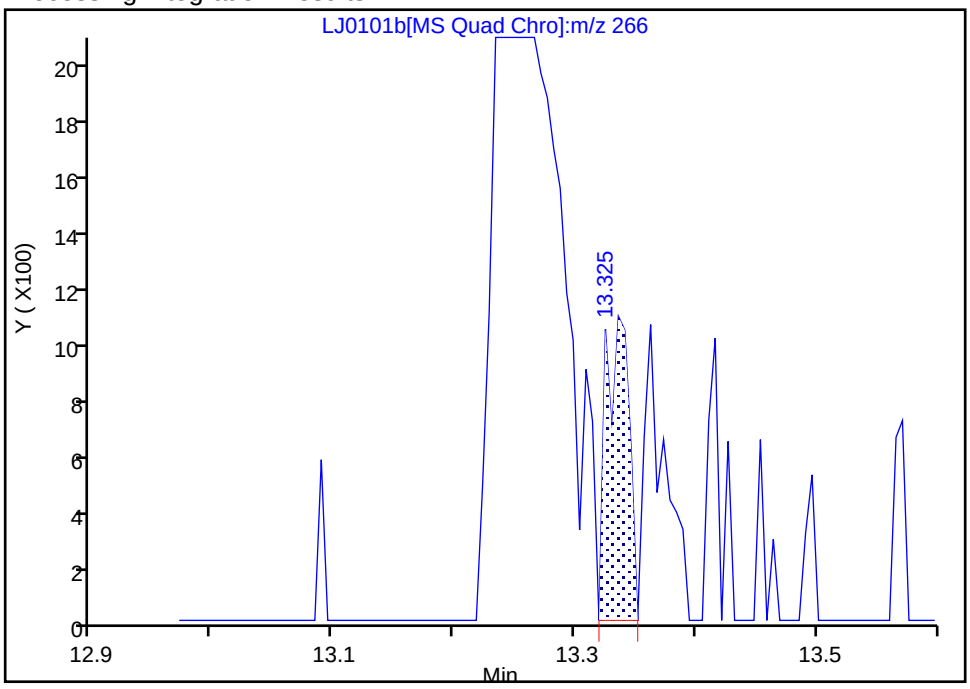
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\LJ0101b.D				
Injection Date:	05-Oct-2020 21:46:34	Instrument ID:	HP20296		
Lims ID:	CCVIS L5				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

123 Pentachlorophenol, CAS: 87-86-5

Signal: 1

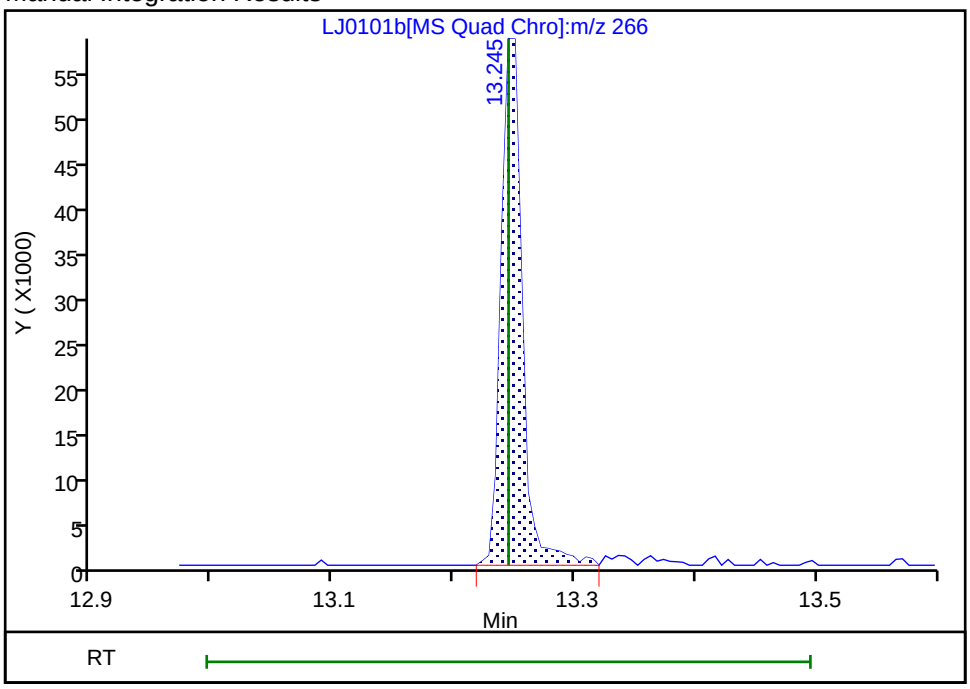
Processing Integration Results

RT: 13.33
Area: 1428
Amount: 0.121404
Amount Units: ug/ml



Manual Integration Results

RT: 13.24
Area: 71354
Amount: 6.066299
Amount Units: ug/ml



Reviewer: luttek, 05-Oct-2020 22:18:48
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

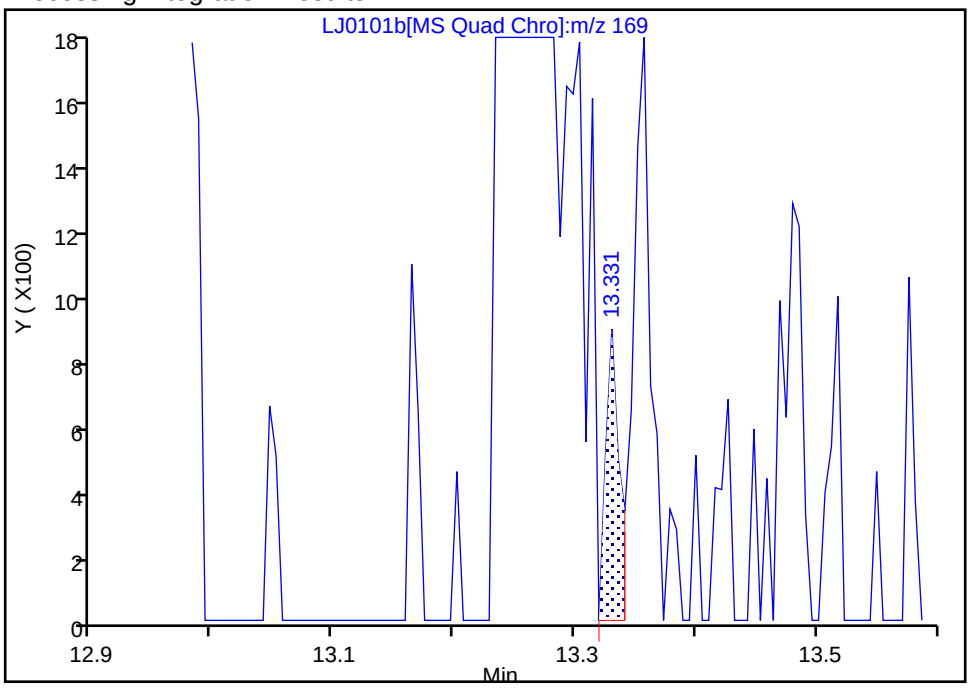
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\LJ0101b.D				
Injection Date:	05-Oct-2020 21:46:34	Instrument ID:	HP20296		
Lims ID:	CCVIS L5				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

124 4-Aminobiphenyl, CAS: 92-67-1

Signal: 1

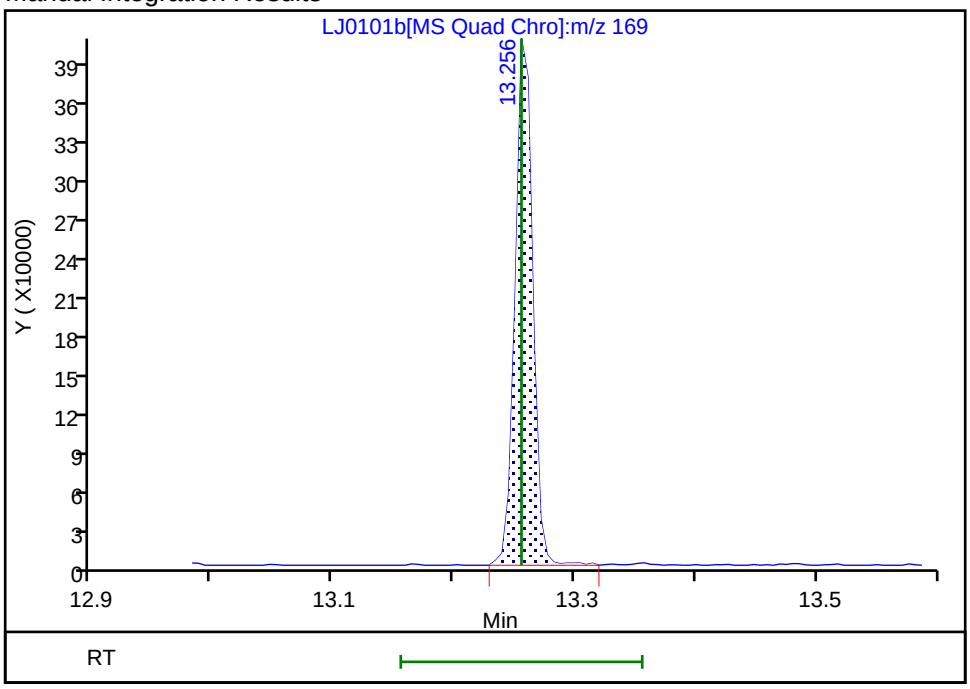
Processing Integration Results

RT: 13.33
Area: 658
Amount: 0.011849
Amount Units: ug/ml



Manual Integration Results

RT: 13.26
Area: 410564
Amount: 7.393209
Amount Units: ug/ml



Reviewer: luttek, 05-Oct-2020 22:18:56
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

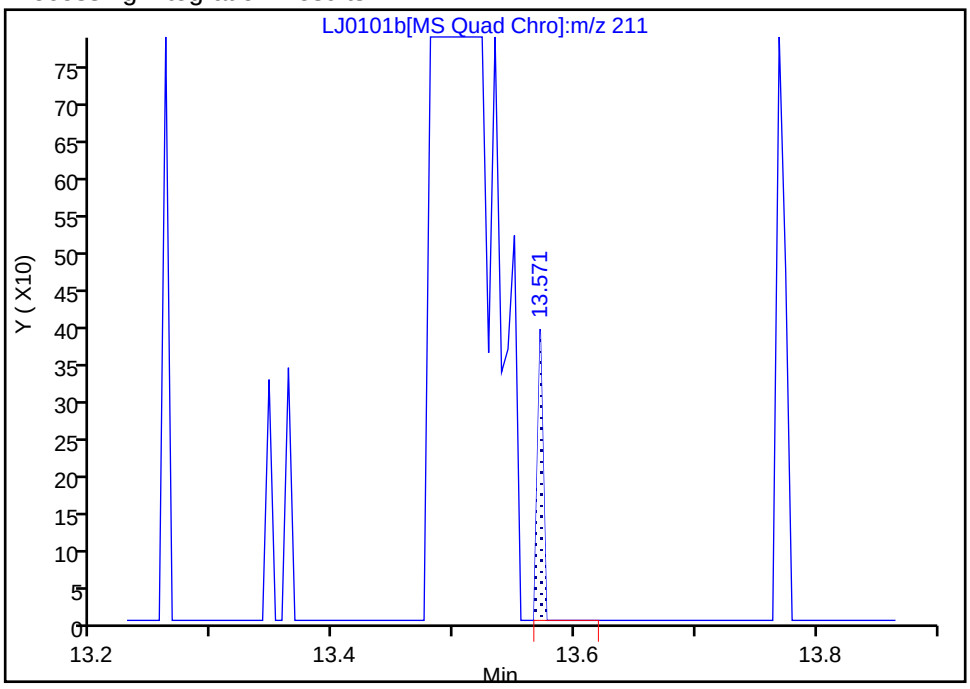
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\LJ0101b.D				
Injection Date:	05-Oct-2020 21:46:34	Instrument ID:	HP20296		
Lims ID:	CCVIS L5				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

128 Dinoseb, CAS: 88-85-7

Signal: 1

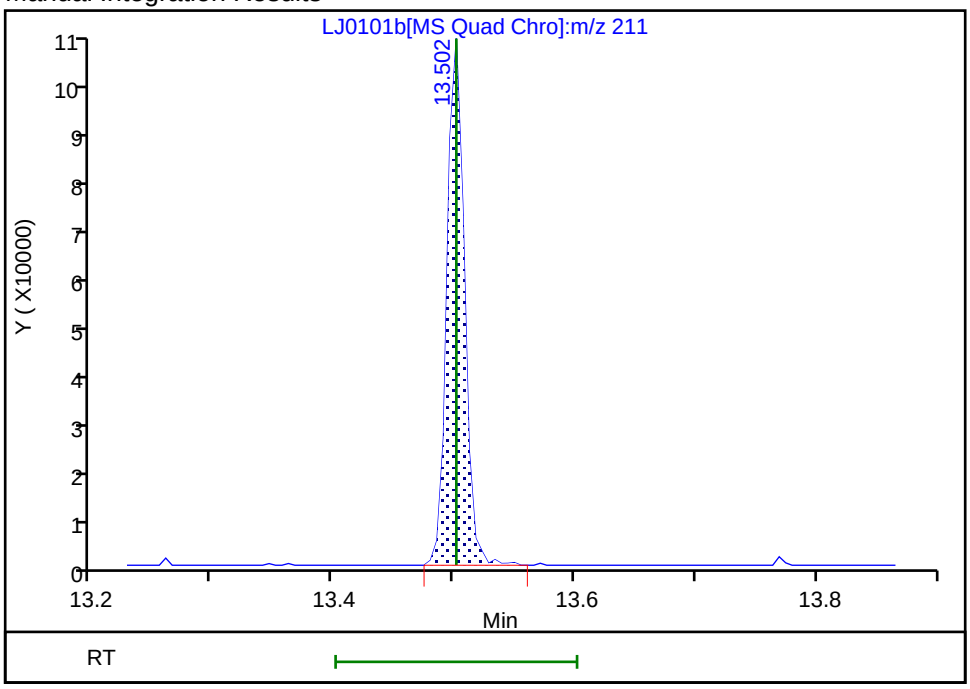
Processing Integration Results

RT: 13.57
Area: 125
Amount: 0.008157
Amount Units: ug/ml



Manual Integration Results

RT: 13.50
Area: 102712
Amount: 6.702300
Amount Units: ug/ml



Reviewer: luttek, 05-Oct-2020 22:19:02
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

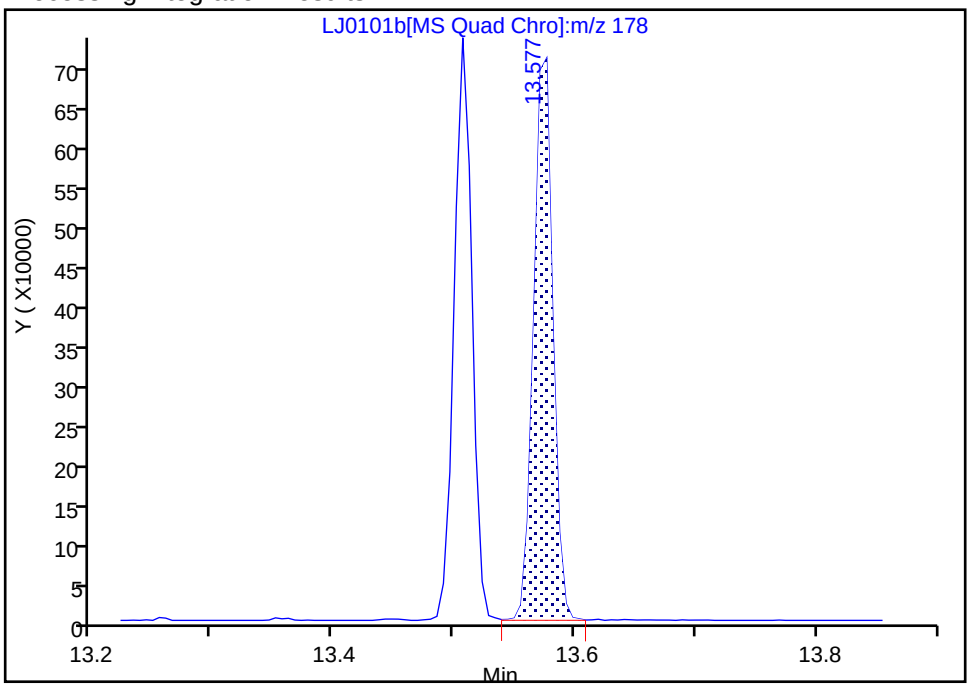
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\LJ0101b.D				
Injection Date:	05-Oct-2020 21:46:34	Instrument ID:	HP20296		
Lims ID:	CCVIS L5				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

129 Phenanthrene, CAS: 85-01-8

Signal: 1

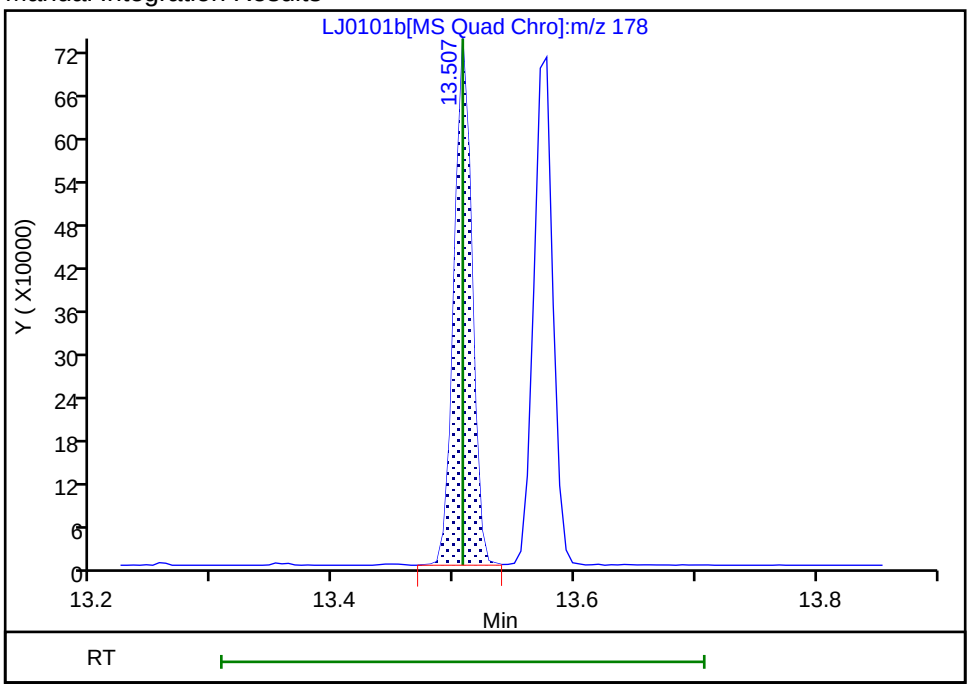
Processing Integration Results

RT: 13.58
Area: 780817
Amount: 7.627092
Amount Units: ug/ml



Manual Integration Results

RT: 13.51
Area: 752129
Amount: 7.346865
Amount Units: ug/ml



Reviewer: luttek, 05-Oct-2020 22:19:11
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

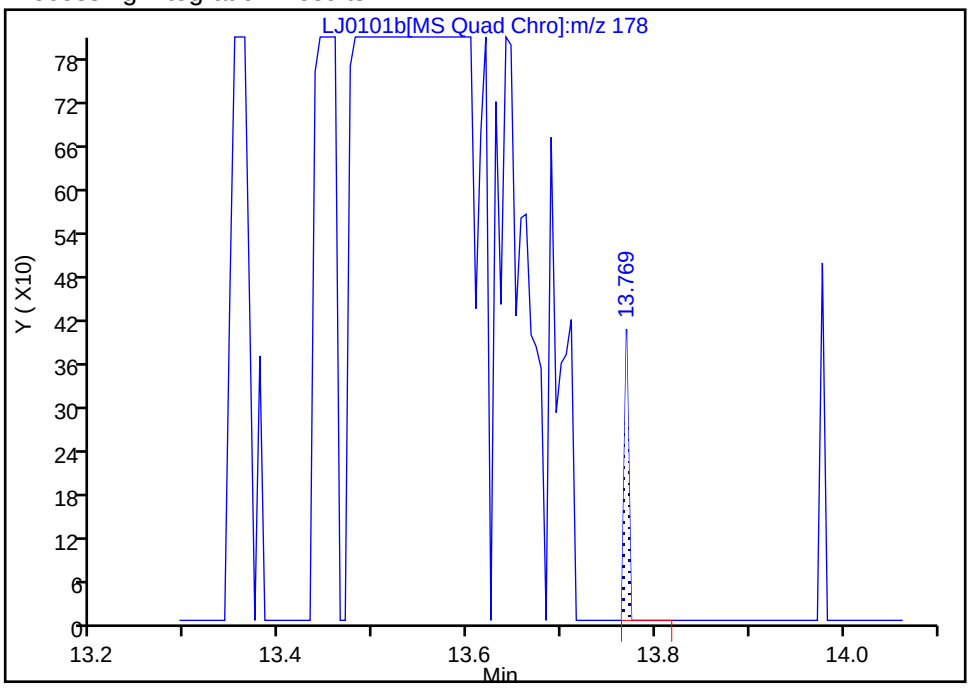
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\LJ0101b.D				
Injection Date:	05-Oct-2020 21:46:34	Instrument ID:	HP20296		
Lims ID:	CCVIS L5				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

130 Anthracene, CAS: 120-12-7

Signal: 1

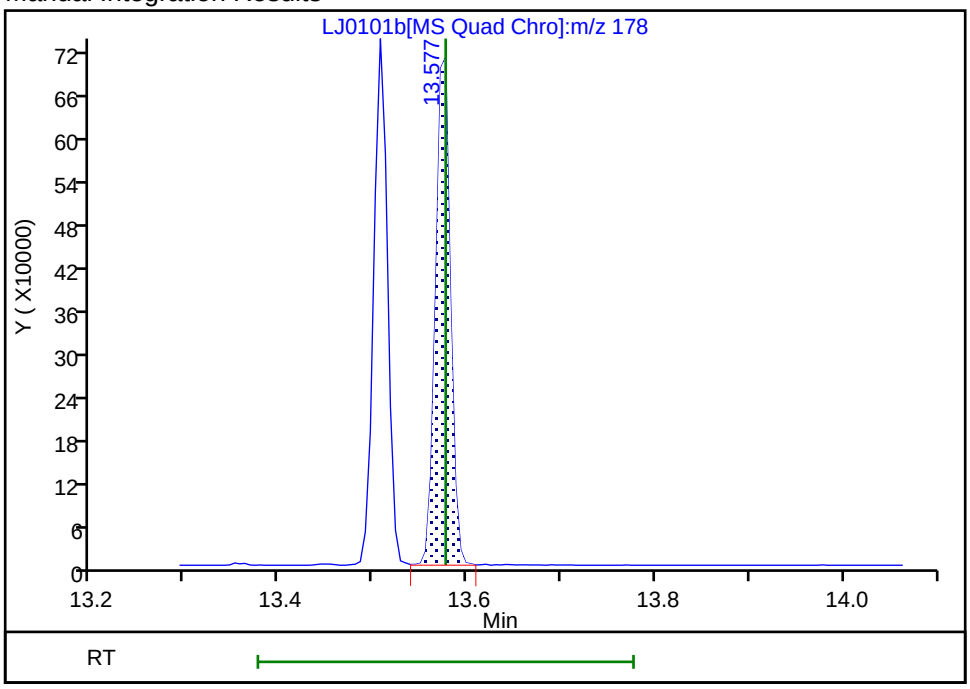
Processing Integration Results

RT: 13.77
Area: 128
Amount: 0.001233
Amount Units: ug/ml



Manual Integration Results

RT: 13.58
Area: 780817
Amount: 7.520626
Amount Units: ug/ml



Reviewer: luttek, 05-Oct-2020 22:19:16
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1

SDG No.:

Lab Sample ID: CCVIS 410-51485/2 Calibration Date: 10/06/2020 18:15

Instrument ID: HP20296 Calib Start Date: 07/15/2020 13:18

GC Column: DB-5MS 20m 0.18 ID: 0.18(mm) Calib End Date: 07/15/2020 16:51

Lab File ID: LJ0151.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6196	0.7170		8.68	7.50	15.7	20.0
N-Nitrosodimethylamine	Ave	0.9584	1.236		9.68	7.50	29.0*	20.0
Pyridine	Ave	1.698	1.958		8.64	7.50	15.3	20.0
2-Picoline	Ave	1.963	1.829		6.99	7.50	-6.8	20.0
N-Nitrosomethylethylamine	Ave	0.7877	0.9077		8.64	7.50	15.2	20.0
Methyl methanesulfonate	Ave	0.8742	1.100		9.44	7.50	25.8*	20.0
N-Nitrosodiethylamine	Ave	0.7600	0.8381		8.27	7.50	10.3	20.0
Ethyl methanesulfonate	Ave	0.8433	0.8888		7.90	7.50	5.4	20.0
Benzaldehyde	Ave	1.517	1.867	0.0100	9.23	7.50	23.0*	20.0
Aniline	Ave	2.815	3.058		8.15	7.50	8.7	20.0
Phenol	Ave	2.309	2.622	0.8000	8.52	7.50	13.5	20.0
Bis(2-chloroethyl)ether	Ave	1.896	2.057	0.7000	8.14	7.50	8.5	20.0
2-Chlorophenol	Ave	1.539	1.586	0.8000	7.73	7.50	3.0	20.0
1,3-Dichlorobenzene	Ave	1.649	1.611		7.33	7.50	-2.3	20.0
1,4-Dichlorobenzene	Ave	1.672	1.618		7.26	7.50	-3.3	20.0
Benzyl alcohol	Ave	1.175	1.155		7.37	7.50	-1.7	20.0
1,2-Dichlorobenzene	Ave	1.585	1.539		7.28	7.50	-2.9	20.0
Indene	Ave	2.407	2.683		8.36	7.50	11.5	20.0
2-Methylphenol	Ave	1.557	1.635	0.7000	7.88	7.50	5.1	20.0
2,2'-oxybis[1-chloropropane]	Ave	2.142	2.655	0.0100	9.30	7.50	24.0*	20.0
N-Nitrosopyrrolidine	Ave	0.8657	0.9199		7.97	7.50	6.3	20.0
Acetophenone	Ave	2.532	2.791	0.0100	8.27	7.50	10.2	20.0
N-Nitrosodi-n-propylamine	Ave	1.415	1.561	0.5000	8.27	7.50	10.3	20.0
N-Nitrosomorpholine	Ave	0.9603	1.264		9.87	7.50	31.6*	20.0
4-Methylphenol (and/or 3-Methylphenol)	Ave	1.641	1.846	0.6000	8.44	7.50	12.5	20.0
o-Toluidine	Ave	2.763	2.903		7.88	7.50	5.1	20.0
Hexachloroethane	Ave	0.7584	0.8046	0.3000	7.96	7.50	6.1	20.0
Nitrobenzene	Ave	0.5138	0.5790	0.2000	8.45	7.50	12.7	20.0
N-Nitrosopiperidine	Ave	0.1971	0.1924		7.32	7.50	-2.3	20.0
Isophorone	Ave	0.9080	0.9692	0.4000	8.01	7.50	6.7	20.0
2-Nitrophenol	Ave	0.1851	0.1799	0.1000	7.29	7.50	-2.8	20.0
2,4-Dimethylphenol	Ave	0.4248	0.4469	0.2000	7.89	7.50	5.2	20.0
o,o',o''-Triethylphosphorothioate	Ave	0.1492	0.1301		6.54	7.50	-12.8	20.0
Bis(2-chloroethoxy)methane	Ave	0.5817	0.5983	0.3000	7.71	7.50	2.8	20.0
Benzoic acid	Ave	0.2826	0.2668		9.44	10.0	-5.6	20.0
2,4-Dichlorophenol	Ave	0.2863	0.2803	0.2000	7.34	7.50	-2.1	20.0
1,2,4-Trichlorobenzene	Ave	0.2958	0.2825		7.16	7.50	-4.5	20.0
Naphthalene	Ave	1.131	1.099	0.7000	7.29	7.50	-2.8	20.0
4-Chloroaniline	Ave	0.4514	0.4424	0.0100	7.35	7.50	-2.0	20.0
2,6-Dichlorophenol	Ave	0.2778	0.2650		7.16	7.50	-4.6	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1

SDG No.:

Lab Sample ID: CCVIS 410-51485/2 Calibration Date: 10/06/2020 18:15

Instrument ID: HP20296 Calib Start Date: 07/15/2020 13:18

GC Column: DB-5MS 20m 0.18 ID: 0.18(mm) Calib End Date: 07/15/2020 16:51

Lab File ID: LJ0151.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Hexachloropropene	Ave	0.1771	0.1633		6.91	7.50	-7.8	20.0
Hexachlorobutadiene	Ave	0.1553	0.1429	0.0100	6.90	7.50	-8.0	20.0
Quinoline	Ave	0.6967	0.6579		7.08	7.50	-5.6	20.0
Caprolactam	Ave	0.1107	0.1187	0.0100	8.04	7.50	7.3	20.0
N-Nitrosodi-n-butylamine	Ave	0.3623	0.3894		8.06	7.50	7.5	20.0
4-Chloro-3-methylphenol	Ave	0.3717	0.3750	0.2000	7.57	7.50	0.9	20.0
Safrole, Total	Ave	0.2533	0.2439		7.22	7.50	-3.7	20.0
2-Methylnaphthalene	Ave	0.7160	0.6693	0.4000	7.01	7.50	-6.5	20.0
1-Methylnaphthalene	Ave	0.6803	0.6365		7.02	7.50	-6.4	20.0
Hexachlorocyclopentadiene	Ave	0.3667	0.2745	0.0500	5.61	7.50	-25.2*	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5652	0.5495	0.0100	7.29	7.50	-2.8	20.0
Isosafrole Peak 1	Ave	0.6427	0.6018		1.12	1.20	-6.4	20.0
2,4,6-Trichlorophenol	Ave	0.4053	0.3790	0.2000	7.01	7.50	-6.5	20.0
2,4,5-Trichlorophenol	Ave	0.4289	0.4164	0.2000	7.28	7.50	-2.9	20.0
Isosafrole Peak 2	Ave	0.6789	0.6966		6.46	6.30	2.6	20.0
1,1'-Biphenyl	Ave	1.809	1.883	0.0100	7.81	7.50	4.1	20.0
2-Chloronaphthalene	Ave	1.427	1.346	0.8000	7.08	7.50	-5.6	20.0
1-Chloronaphthalene	Ave	1.269	1.273		7.53	7.50	0.4	20.0
Diphenyl ether	Ave	0.9023	0.8844		7.35	7.50	-2.0	20.0
2-Nitroaniline	Ave	0.4881	0.4720	0.0100	7.25	7.50	-3.3	20.0
1,4-Naphthoquinone	Ave	0.5828	0.5439		7.00	7.50	-6.7	20.0
1,4-Dinitrobenzene	Ave	0.2158	0.1913		6.65	7.50	-11.3	20.0
Dimethyl phthalate	Ave	1.578	1.502	0.0100	7.14	7.50	-4.8	20.0
1,3-Dinitrobenzene	Ave	0.2439	0.2192		6.74	7.50	-10.1	20.0
2,6-Dinitrotoluene	Ave	0.3468	0.3345	0.2000	7.23	7.50	-3.5	20.0
Acenaphthylene	Ave	2.048	2.005	0.9000	7.34	7.50	-2.1	20.0
3-Nitroaniline	Ave	0.4085	0.3747	0.0100	6.88	7.50	-8.3	20.0
Acenaphthene	Ave	1.514	1.487	0.9000	7.37	7.50	-1.8	20.0
2,4-Dinitrophenol	Ave	0.1870	0.1661	0.0100	8.88	10.0	-11.2	20.0
Pentachlorobenzene	Ave	0.4875	0.4564		7.02	7.50	-6.4	20.0
4-Nitrophenol	Ave	0.2985	0.3531	0.0100	8.87	7.50	18.3	20.0
Dibenzofuran	Ave	1.904	1.788	0.8000	7.04	7.50	-6.1	20.0
2,4-Dinitrotoluene	Ave	0.4764	0.4438	0.2000	6.99	7.50	-6.8	20.0
1-Naphthylamine	Ave	1.534	1.464		7.16	7.50	-4.6	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3072	0.2685	0.0100	6.56	7.50	-12.6	20.0
2-Naphthylamine	Ave	1.535	1.402		6.85	7.50	-8.7	20.0
Diethyl phthalate	Ave	1.665	1.604	0.0100	7.23	7.50	-3.6	20.0
Fluorene	Ave	1.582	1.478	0.9000	7.01	7.50	-6.6	20.0
Thionazin	Ave	0.3340	0.3182		7.15	7.50	-4.7	20.0
4-Chlorophenyl-phenyl ether	Ave	0.6507	0.5980	0.4000	6.89	7.50	-8.1	20.0
5-Nitro-o-toluidine	Ave	0.4603	0.4347		7.08	7.50	-5.6	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1

SDG No.:

Lab Sample ID: CCVIS 410-51485/2 Calibration Date: 10/06/2020 18:15

Instrument ID: HP20296 Calib Start Date: 07/15/2020 13:18

GC Column: DB-5MS 20m 0.18 ID: 0.18(mm) Calib End Date: 07/15/2020 16:51

Lab File ID: LJ0151.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Nitroaniline	Ave	0.4475	0.4029	0.0100	6.75	7.50	-10.0	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1241	0.1169	0.0100	7.06	7.50	-5.8	20.0
N-Nitrosodiphenylamine	Ave	0.6965	0.7154	0.0100	7.70	7.50	2.7	20.0
1,2-Diphenylhydrazine	Ave	1.197	1.522		9.54	7.50	27.2*	20.0
Sulfotepp	Ave	0.1990	0.2490		9.39	7.50	25.1*	20.0
cis-Diallate	Ave	0.4862	0.5517		6.30	5.55	13.5	20.0
Phorate	Ave	0.7514	0.9009		8.99	7.50	19.9	20.0
Phenacetin	Ave	0.5534	0.6299		8.54	7.50	13.8	20.0
4-Bromophenyl-phenylether	Ave	0.1947	0.1863	0.1000	7.17	7.50	-4.4	20.0
trans-Diallate	Ave	0.4964	0.5802		2.28	1.95	16.9	20.0
Hexachlorobenzene	Ave	0.2125	0.2110	0.1000	7.45	7.50	-0.7	20.0
Dimethoate	Ave	0.4957	0.5675		8.59	7.50	14.5	20.0
Atrazine	Ave	0.2082	0.2181	0.0100	7.86	7.50	4.8	20.0
Pentachlorophenol	Ave	0.1397	0.1171	0.0500	6.29	7.50	-16.2	20.0
4-Aminobiphenyl	Ave	0.6595	0.6797		7.73	7.50	3.1	20.0
Pentachloronitrobenzene	Ave	0.0993	0.1053		7.95	7.50	6.0	20.0
Pronamide	Ave	0.4029	0.4207		7.83	7.50	4.4	20.0
Dinoseb	Ave	0.1820	0.1650		6.80	7.50	-9.3	20.0
Phenanthrene	Ave	1.216	1.190	0.7000	7.34	7.50	-2.2	20.0
Anthracene	Ave	1.233	1.250	0.7000	7.60	7.50	1.4	20.0
Carbazole	Ave	1.156	1.159	0.0100	7.52	7.50	0.3	20.0
Methyl parathion	Ave	0.3920	0.4258		8.15	7.50	8.6	20.0
Di-n-butyl phthalate	Ave	1.651	1.675	0.0100	7.61	7.50	1.5	20.0
Parathion	Ave	0.2387	0.2660		8.36	7.50	11.4	20.0
4-Nitroquinoline-1-oxide	Ave	0.1464	0.0764			7.50	-47.8*	20.0
Octachlorostyrene	Ave	0.0997	0.1036		7.79	7.50	3.9	20.0
Isodrin	Ave	0.1461	0.1349		6.93	7.50	-7.6	20.0
Fluoranthene	Ave	1.251	1.238	0.6000	7.42	7.50	-1.0	20.0
Benzidine	Ave	0.9427	0.8870		21.2	22.5	-5.9	20.0
Pyrene	Ave	1.390	1.367	0.6000	7.38	7.50	-1.6	20.0
p-Dimethylamino azobenzene	Ave	0.2139	0.2077		7.28	7.50	-2.9	20.0
Chlorobenzilate	Ave	0.5306	0.5908		8.35	7.50	11.3	20.0
3,3'-Dimethylbenzidine	Ave	0.8906	0.8358		7.04	7.50	-6.2	20.0
Butylbenzylphthalate	Ave	0.7568	0.8287	0.0100	8.21	7.50	9.5	20.0
2-Acetylaminofluorene	Ave	0.5791	0.6098		7.90	7.50	5.3	20.0
3,3'-Dichlorobenzidine	Ave	0.4549	0.4265	0.0100	7.03	7.50	-6.2	20.0
Benzo[a]anthracene	Ave	1.157	1.148	0.8000	7.44	7.50	-0.8	20.0
4,4'-Methylene bis(2-chloroaniline)	Ave	0.2379	0.2387			7.50	0.4	20.0
Chrysene	Ave	1.159	1.108	0.7000	7.17	7.50	-4.4	20.0
Bis(2-ethylhexyl) phthalate	Ave	1.139	1.224	0.0100	8.06	7.50	7.4	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1

SDG No.:

Lab Sample ID: CCVIS 410-51485/2 Calibration Date: 10/06/2020 18:15

Instrument ID: HP20296 Calib Start Date: 07/15/2020 13:18

GC Column: DB-5MS 20m 0.18 ID: 0.18(mm) Calib End Date: 07/15/2020 16:51

Lab File ID: LJ0151.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
6-Methylchrysene	Ave	0.8047	0.7727		7.20	7.50	-4.0	20.0
Di-n-octyl phthalate	Ave	2.105	2.181	0.0100	7.77	7.50	3.6	20.0
7,12-Dimethylbenz(a)anthracene	Ave	0.5383	0.5137		7.16	7.50	-4.6	20.0
Benzo[b]fluoranthene	Ave	1.278	1.243	0.7000	7.30	7.50	-2.7	20.0
Benzo[k]fluoranthene	Ave	1.229	1.205	0.7000	7.35	7.50	-1.9	20.0
Benzo[a]pyrene	Ave	1.192	1.191	0.7000	7.50	7.50	-0.0	20.0
3-Methylcholanthrene	Ave	0.5892	0.5811		7.40	7.50	-1.4	20.0
Dibenz[a,h]acridine	Ave	0.9203	0.9656		7.87	7.50	4.9	20.0
Dibenz[a,j]acridine	Ave	0.9402	0.999		7.97	7.50	6.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.110	1.168	0.5000	7.89	7.50	5.2	20.0
Dibenz(a,h)anthracene	Ave	1.113	1.209	0.4000	8.15	7.50	8.7	20.0
Benzo[g,h,i]perylene	Ave	1.129	1.236	0.5000	8.22	7.50	9.5	20.0
2-Fluorophenol (Surr)	Ave	1.587	1.683		15.9	15.0	6.1	20.0
Phenol-d5 (Surr)	Ave	2.046	2.209		16.2	15.0	8.0	20.0
Nitrobenzene-d5 (Surr)	Ave	0.5061	0.5625		16.7	15.0	11.1	20.0
2-Fluorobiphenyl (Surr)	Ave	1.569	1.513		14.5	15.0	-3.5	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.1988	0.1878		14.2	15.0	-5.5	20.0
p-Terphenyl-d14 (Surr)	Ave	0.9044	0.8858		14.7	15.0	-2.1	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0151.D
Lims ID: CCVIS L5
Client ID:
Sample Type: CCVIS
Inject. Date: 06-Oct-2020 18:15:28 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS L5
Misc. Info.: 410-0012211-002
Operator ID: kel10217 Instrument ID: HP20296
Sublist: chrom-MSSemi_HP20296*sub6

Method: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 06-Oct-2020 23:00:58 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1014

First Level Reviewer: luttek Date: 06-Oct-2020 18:51:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.125	2.125	0.000	98	150635	7.50	8.68	
2 N-Nitrosodimethylamine	74	2.686	2.686	0.000	94	259768	7.50	9.68	
3 Pyridine	79	2.735	2.735	0.000	95	411276	7.50	8.64	
5 2-Picoline	93	3.922	3.922	0.000	94	384290	7.50	6.99	
6 N-Nitrosomethylethylamine	88	4.115	4.115	0.000	97	190699	7.50	8.64	M
9 Methyl methanesulfonate	80	4.575	4.575	0.000	87	231099	7.50	9.44	
$ 10 2-Fluorophenol	112	4.815	4.815	0.000	95	707346	15.0	15.9	
11 N-Nitrosodiethylamine	102	5.147	5.147	0.000	93	176090	7.50	8.27	
13 Ethyl methanesulfonate	109	5.623	5.623	0.000	97	186727	7.50	7.90	
15 Benzaldehyde	77	6.083	6.083	0.000	91	392259	7.50	9.23	
$ 16 Phenol-d5	99	6.227	6.227	0.000	95	928397	15.0	16.2	
18 Aniline	93	6.249	6.249	0.000	72	642562	7.50	8.15	
17 Phenol	94	6.249	6.249	0.000	80	550839	7.50	8.52	
19 Bis(2-chloroethyl)ether	93	6.366	6.366	0.000	94	432188	7.50	8.14	
20 2-Chlorophenol	128	6.414	6.414	0.000	92	333270	7.50	7.73	
22 1,3-Dichlorobenzene	146	6.644	6.644	0.000	91	338561	7.50	7.33	
* 24 1,4-Dichlorobenzene-d4	152	6.730	6.730	0.000	94	140063	5.00	5.00	
25 1,4-Dichlorobenzene	146	6.757	6.757	0.000	83	339892	7.50	7.26	
27 Benzyl alcohol	108	6.971	6.971	0.000	86	242717	7.50	7.37	
29 1,2-Dichlorobenzene	146	6.981	6.981	0.000	85	323329	7.50	7.28	
30 Indene	115	7.120	7.120	0.000	90	563602	7.50	8.36	
31 2-Methylphenol	108	7.163	7.163	0.000	97	343581	7.50	7.88	
32 2,2'-oxybis[1-chloropropane]	45	7.190	7.190	0.000	90	557808	7.50	9.30	
34 N-Nitrosopyrrolidine	100	7.334	7.334	0.000	85	193261	7.50	7.97	
35 Acetophenone	105	7.367	7.367	0.000	91	586331	7.50	8.27	
37 N-Nitrosodi-n-propylamine	70	7.388	7.388	0.000	86	328027	7.50	8.27	
38 N-Nitrosomorpholine	56	7.404	7.404	0.000	85	265568	7.50	9.87	
36 4-Methylphenol	108	7.409	7.409	0.000	85	387731	7.50	8.44	
39 2-Toluidine	106	7.420	7.420	0.000	95	609837	7.50	7.88	
40 Hexachloroethane	117	7.500	7.500	0.000	88	169036	7.50	7.96	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	7.591	7.591	0.000	91	967348	15.0	16.7	
42 Nitrobenzene	77	7.618	7.618	0.000	89	497913	7.50	8.45	
44 N-Nitrosopiperidine	114	7.859	7.859	0.000	79	165483	7.50	7.32	
46 Isophorone	82	8.008	8.008	0.000	99	833414	7.50	8.01	
47 2-Nitrophenol	139	8.121	8.121	0.000	86	154668	7.50	7.29	
48 2,4-Dimethylphenol	107	8.233	8.233	0.000	98	384299	7.50	7.89	
49 o,o',o''-Triethylphosphorothioat	198	8.345	8.345	0.000	93	111855	7.50	6.54	
51 Bis(2-chloroethoxy)methane	93	8.383	8.383	0.000	97	514455	7.50	7.71	
50 Benzoic acid	105	8.393	8.393	0.000	53	305853	10.0	9.44	M
52 2,4-Dichlorophenol	162	8.511	8.511	0.000	90	241067	7.50	7.34	
54 1,2,4-Trichlorobenzene	180	8.634	8.634	0.000	90	242882	7.50	7.16	
* 55 Naphthalene-d8	136	8.709	8.709	0.000	99	573269	5.00	5.00	
56 Naphthalene	128	8.746	8.746	0.000	98	945270	7.50	7.29	
57 4-Chloroaniline	127	8.859	8.859	0.000	92	380461	7.50	7.35	
58 2,6-Dichlorophenol	162	8.869	8.869	0.000	85	227903	7.50	7.16	
59 Hexachloropropene	213	8.896	8.896	0.000	92	140436	7.50	6.91	
S 53 Dinitrotoluene	165				0		15.0	14.2	
60 Hexachlorobutadiene	225	8.971	8.971	0.000	89	122873	7.50	6.90	
62 Quinoline	129	9.292	9.292	0.000	92	565688	7.50	7.08	
64 Caprolactam	113	9.410	9.410	0.000	76	102111	7.50	8.04	
65 N-Nitrosodi-n-butylamine	84	9.436	9.436	0.000	94	334857	7.50	8.06	
S 63 Diallate	86				0		7.50	8.58	
66 4-Chloro-3-methylphenol	107	9.688	9.688	0.000	89	322458	7.50	7.57	
67 Safrole, Total	162	9.763	9.763	0.000	73	209770	7.50	7.22	
69 2-Methylnaphthalene	142	9.875	9.875	0.000	90	575544	7.50	7.01	
70 1-Methylnaphthalene	142	10.030	10.030	0.000	90	547305	7.50	7.02	
71 Hexachlorocyclopentadiene	237	10.137	10.137	0.000	91	103494	7.50	5.61	
72 1,2,4,5-Tetrachlorobenzene	216	10.148	10.148	0.000	91	207194	7.50	7.29	
73 Isosafrole Peak 1	162	10.239	10.239	0.000	75	36308	1.20	1.12	
74 2,4,6-Trichlorophenol	196	10.351	10.351	0.000	87	142927	7.50	7.01	
75 2,4,5-Trichlorophenol	196	10.410	10.410	0.000	85	157003	7.50	7.28	
$ 76 2-Fluorobiphenyl (Surr)	172	10.495	10.495	0.000	98	1141034	15.0	14.5	
77 Isosafrole Peak 2	162	10.608	10.608	0.000	78	220661	6.30	6.46	
79 1,1'-Biphenyl	154	10.645	10.645	0.000	97	710106	7.50	7.81	
80 2-Chloronaphthalene	162	10.656	10.656	0.000	98	507643	7.50	7.08	
81 1-Chloronaphthalene	162	10.688	10.688	0.000	91	480126	7.50	7.53	
82 Phenyl ether	170	10.827	10.827	0.000	84	333493	7.50	7.35	
83 2-Nitroaniline	138	10.848	10.848	0.000	72	177973	7.50	7.25	
84 1,4-Naphthoquinone	158	10.961	10.961	0.000	67	205104	7.50	7.00	
85 1,4-Dinitrobenzene	168	11.095	11.095	0.000	85	72145	7.50	6.65	
86 Dimethyl phthalate	163	11.185	11.185	0.000	95	566226	7.50	7.14	
87 1,3-Dinitrobenzene	168	11.212	11.212	0.000	79	82650	7.50	6.74	
88 2,6-Dinitrotoluene	165	11.266	11.266	0.000	79	126144	7.50	7.23	
90 Acenaphthylene	152	11.325	11.325	0.000	98	756077	7.50	7.34	
91 3-Nitroaniline	138	11.517	11.517	0.000	85	141293	7.50	6.88	
* 92 Acenaphthene-d10	164	11.555	11.555	0.000	98	251388	5.00	5.00	
93 Acenaphthene	153	11.603	11.603	0.000	98	560798	7.50	7.37	
94 2,4-Dinitrophenol	184	11.688	11.688	0.000	72	83512	10.0	8.88	
98 Pentachlorobenzene	250	11.801	11.801	0.000	93	172083	7.50	7.02	
96 4-Nitrophenol	109	11.822	11.822	0.000	87	133134	7.50	8.87	
100 Dibenzofuran	168	11.859	11.859	0.000	95	674046	7.50	7.04	
99 2,4-Dinitrotoluene	165	11.875	11.875	0.000	78	167339	7.50	6.99	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 1-Naphthylamine	143	11.972	11.972	0.000	97	552043	7.50	7.16	
102 2,3,4,6-Tetrachlorophenol	232	12.047	12.047	0.000	86	101254	7.50	6.56	
103 2-Naphthylamine	143	12.084	12.084	0.000	92	528565	7.50	6.85	
104 Diethyl phthalate	149	12.234	12.234	0.000	95	604900	7.50	7.23	
105 Fluorene	166	12.319	12.319	0.000	93	557275	7.50	7.01	
106 Thionazin	107	12.325	12.325	0.000	74	120000	7.50	7.15	
108 4-Chlorophenyl phenyl ether	204	12.341	12.341	0.000	87	225482	7.50	6.89	
107 N-Nitro-o-toluidine	152	12.351	12.351	0.000	86	163903	7.50	7.08	
109 4-Nitroaniline	138	12.362	12.362	0.000	76	151913	7.50	6.75	
110 4,6-Dinitro-2-methylphenol	198	12.405	12.405	0.000	51	73913	7.50	7.06	
111 N-Nitrosodiphenylamine	169	12.491	12.491	0.000	97	452194	7.50	7.70	
112 1,2-Diphenylhydrazine	77	12.533	12.533	0.000	97	962166	7.50	9.54	
$ 113 2,4,6-Tribromophenol	330	12.614	12.614	0.000	82	141627	15.0	14.2	
114 Sulfotepp	97	12.721	12.721	0.000	77	157378	7.50	9.39	
115 cis-Diallate	86	12.854	12.854	0.000	89	258041	5.55	6.30	
116 Phorate	75	12.865	12.865	0.000	94	569424	7.50	8.99	
117 Phenacetin	108	12.892	12.892	0.000	89	398151	7.50	8.54	
118 4-Bromophenyl phenyl ether	248	12.940	12.940	0.000	79	117727	7.50	7.17	
119 trans-Diallate	86	12.961	12.961	0.000	96	95348	1.95	2.28	
120 Hexachlorobenzene	284	12.993	12.993	0.000	85	133379	7.50	7.45	
121 Dimethoate	87	13.068	13.068	0.000	95	358691	7.50	8.59	
122 Atrazine	200	13.170	13.170	0.000	77	137824	7.50	7.86	
123 Pentachlorophenol	266	13.255	13.255	0.000	85	73999	7.50	6.29	
125 Pentachloronitrobenzene	237	13.266	13.266	0.000	55	66567	7.50	7.95	
124 4-Aminobiphenyl	169	13.266	13.266	0.000	93	429601	7.50	7.73	
126 Pronamide	173	13.362	13.362	0.000	90	265888	7.50	7.83	
* 127 Phenanthrene-d10	188	13.485	13.485	0.000	96	421376	5.00	5.00	
128 Dinoseb	211	13.507	13.507	0.000	81	104312	7.50	6.80	
129 Phenanthrene	178	13.512	13.512	0.000	98	751943	7.50	7.34	
130 Anthracene	178	13.582	13.582	0.000	99	790030	7.50	7.60	
131 Carbazole	167	13.806	13.806	0.000	97	732745	7.50	7.52	
132 Methyl parathion	109	14.010	14.010	0.000	87	269142	7.50	8.15	
133 Di-n-butyl phthalate	149	14.314	14.314	0.000	99	1059019	7.50	7.61	
134 Ethyl Parathion	109	14.555	14.555	0.000	79	168100	7.50	8.36	
135 4-Nitroquinoline-1-oxide	190	14.576	14.576	0.000	88	48291	7.50	3.92	
136 Octachlorostyrene	308	14.903	14.903	0.000	88	65482	7.50	7.79	
137 Isodrin	193	14.951	14.951	0.000	80	85268	7.50	6.93	
138 Fluoranthene	202	15.176	15.176	0.000	99	782718	7.50	7.42	
139 Benzidine	184	15.411	15.411	0.000	98	1566035	22.5	21.2	
* 140 Pyrene-d10 (IS)	212	15.491	15.491	0.000	97	392333	5.00	5.00	s
141 Pyrene	202	15.518	15.518	0.000	95	804754	7.50	7.38	
$ 142 p-Terphenyl-d14	244	15.807	15.807	0.000	96	1042554	15.0	14.7	
143 p-Dimethylamino azobenzene	225	16.042	16.042	0.000	88	122254	7.50	7.28	
144 Chlorobenzilate	139	16.128	16.128	0.000	76	347679	7.50	8.35	
145 3,3'-Dimethylbenzidine	212	16.604	16.604	0.000	97	491853	7.50	7.04	
146 Butyl benzyl phthalate	149	16.662	16.662	0.000	91	487715	7.50	8.21	
147 2-Acetylaminofluorene	181	17.037	17.037	0.000	94	358882	7.50	7.90	
148 3,3'-Dichlorobenzidine	252	17.540	17.540	0.000	79	250987	7.50	7.03	
149 Benzo[a]anthracene	228	17.545	17.545	0.000	98	675363	7.50	7.44	
150 4,4'-Methylene bis(2-chloroanil	231	17.561	17.561	0.000	91	140481	7.50	7.53	
151 Chrysene	228	17.609	17.609	0.000	96	652241	7.50	7.17	
152 Bis(2-ethylhexyl) phthalate	149	17.732	17.732	0.000	94	720088	7.50	8.06	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
153 6-Methylchrysene	242	18.422	18.422	0.000	98	454711	7.50	7.20	
154 Di-n-octyl phthalate	149	18.904	18.904	0.000	99	1269657	7.50	7.77	
156 7,12-Dimethylbenz(a)anthracene	256	19.422	19.422	0.000	83	299091	7.50	7.16	
155 Benzo[b]fluoranthene	252	19.422	19.422	0.000	96	723888	7.50	7.30	
157 Benzo[k]fluoranthene	252	19.465	19.465	0.000	97	701681	7.50	7.35	
158 Benzo[a]pyrene	252	19.952	19.952	0.000	81	693562	7.50	7.50	
* 159 Perylene-d12	264	20.043	20.043	0.000	95	388123	5.00	5.00	s
160 3-Methylcholanthrene	268	20.530	20.530	0.000	92	338287	7.50	7.40	
161 Dibenz[a,h]acridine	279	21.343	21.343	0.000	92	562132	7.50	7.87	
162 Dibenz[a,j]acridine	279	21.417	21.417	0.000	95	581483	7.50	7.97	
163 Indeno[1,2,3-cd]pyrene	276	21.669	21.669	0.000	97	680153	7.50	7.89	M
164 Dibenz(a,h)anthracene	278	21.706	21.706	0.000	95	704116	7.50	8.15	
165 Benzo[g,h,i]perylene	276	22.059	22.059	0.000	94	719712	7.50	8.22	
S 166 Isosafrole	162				0		7.50	7.59	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_5_00008 Amount Added: 1.00 Units: mL

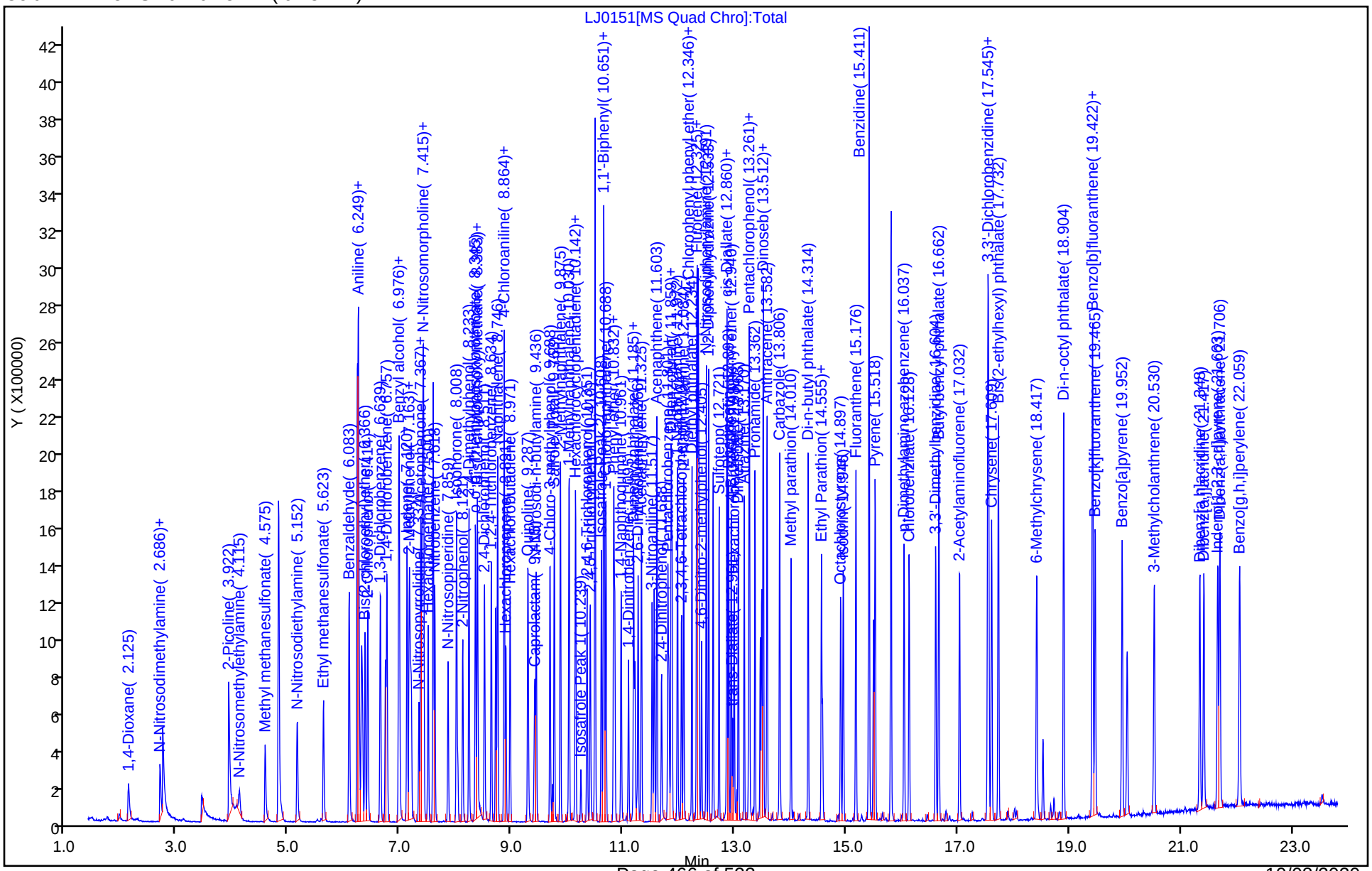
Report Date: 06-Oct-2020 23:01:00 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0151.D

Injection Date:	06-Oct-2020 18:15:28	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	CCVIS L5			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

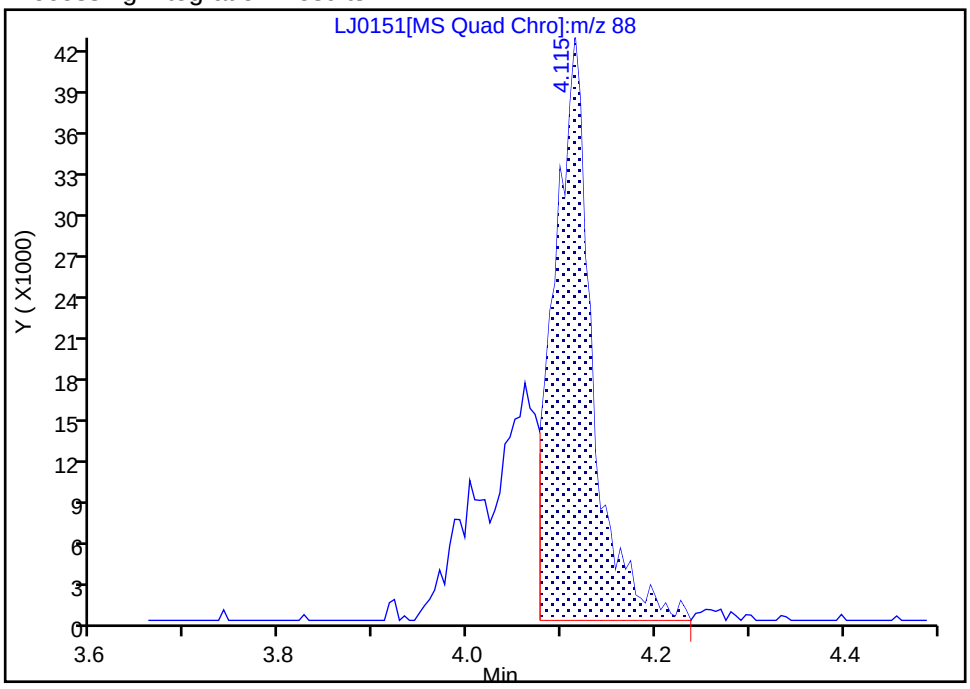
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0151.D				
Injection Date:	06-Oct-2020 18:15:28	Instrument ID:	HP20296		
Lims ID:	CCVIS L5				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

6 N-Nitrosomethylethylamine, CAS: 10595-95-6

Signal: 1

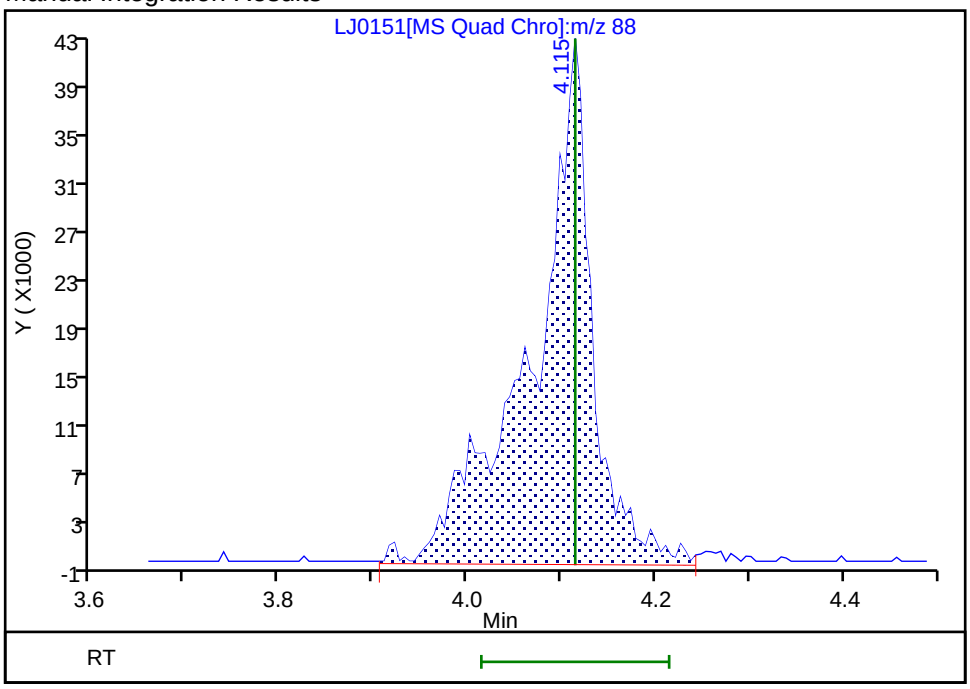
Processing Integration Results

RT: 4.11
Area: 117637
Amount: 5.331041
Amount Units: ug/ml



Manual Integration Results

RT: 4.11
Area: 190699
Amount: 8.642044
Amount Units: ug/ml



Reviewer: luttek, 06-Oct-2020 18:47:42

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

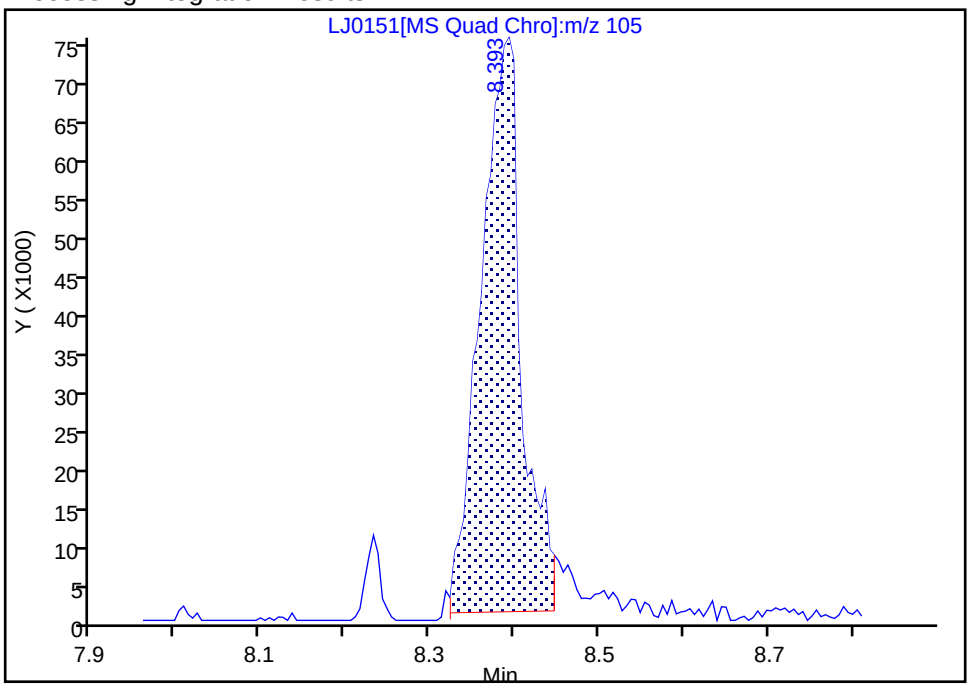
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0151.D				
Injection Date:	06-Oct-2020 18:15:28	Instrument ID:	HP20296		
Lims ID:	CCVIS L5				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

50 Benzoic acid, CAS: 65-85-0

Signal: 1

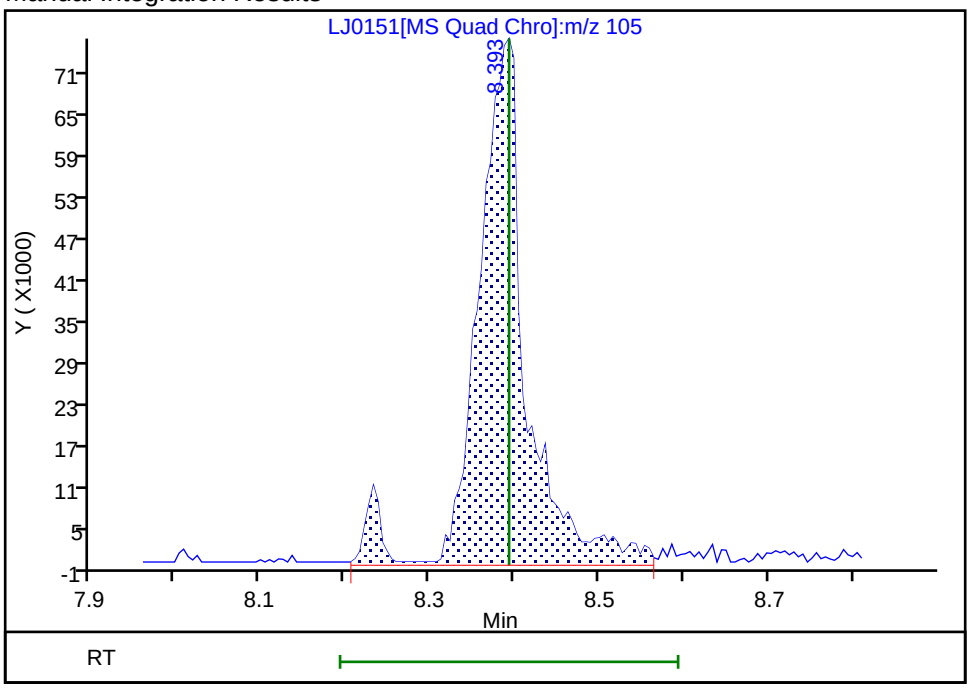
Processing Integration Results

RT: 8.39
Area: 248097
Amount: 7.656074
Amount Units: ug/ml



Manual Integration Results

RT: 8.39
Area: 305853
Amount: 9.438378
Amount Units: ug/ml



Reviewer: luttek, 06-Oct-2020 18:48:56

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

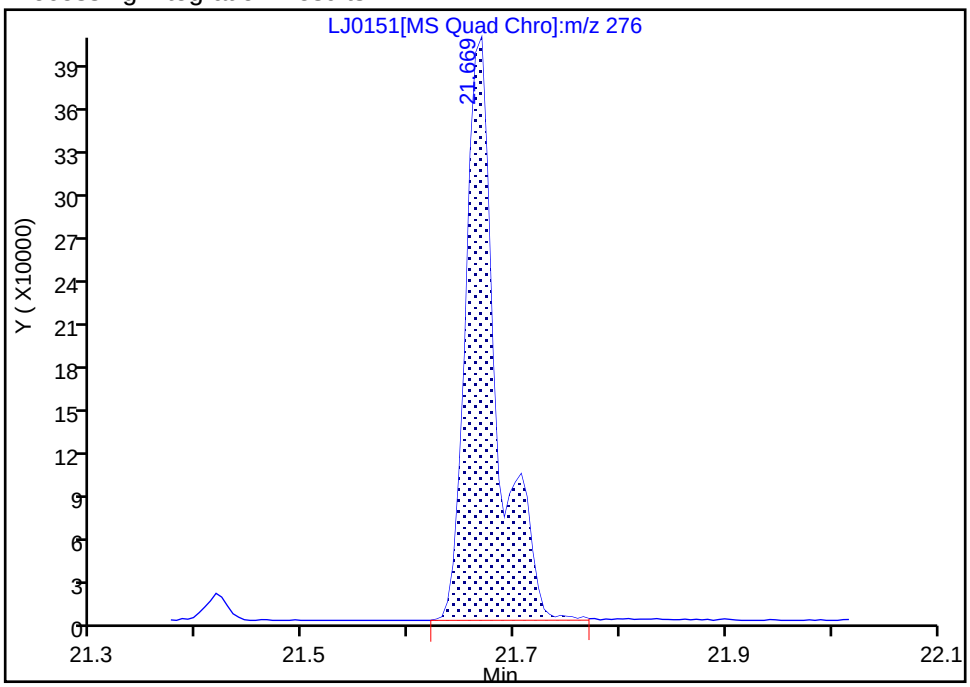
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0151.D				
Injection Date:	06-Oct-2020 18:15:28	Instrument ID:	HP20296		
Lims ID:	CCVIS L5				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

163 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

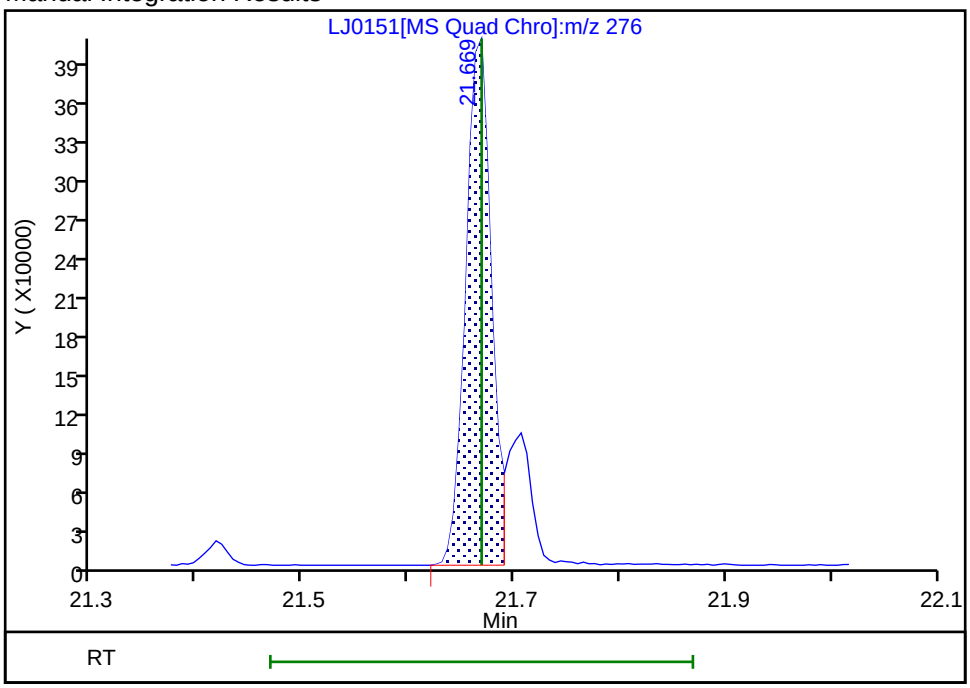
Processing Integration Results

RT: 21.67
Area: 843135
Amount: 9.781739
Amount Units: ug/ml



Manual Integration Results

RT: 21.67
Area: 680153
Amount: 7.890883
Amount Units: ug/ml



Reviewer: luttek, 06-Oct-2020 18:49:47

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0650z.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 15-Jul-2020 12:42:29 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0005639-001
Operator ID: lmh00956 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 22-Jul-2020 14:43:24 Calib Date: 15-Jul-2020 16:51:20
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0658.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1017

First Level Reviewer: molinec Date: 22-Jul-2020 14:43:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 Pentachlorophenol_T	266	4.974	4.974	0.000	87	322394	NR	NR	
14 Benzidine_T	184	6.263	6.263	0.000	99	1991627	NR	NR	
178 DFTPP									
179 4,4'-DDE	246	6.424	6.424	0.000	1	1598		NR	
180 4,4'-DDD	235	6.723	6.723	0.000	54	2517		NR	
181 4,4'-DDT	235	7.001	7.001	0.000	95	789097	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

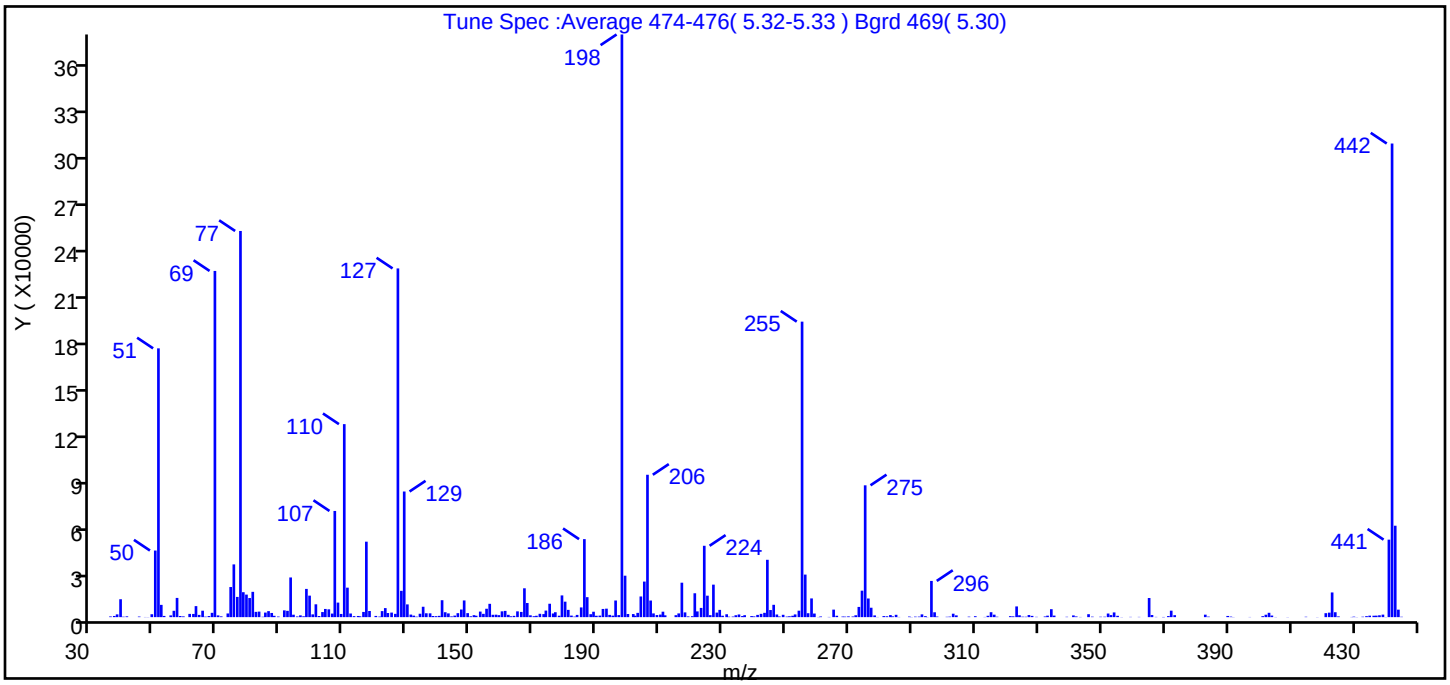
MSS_RVDFTPP_00004 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0650z.D
Injection Date: 15-Jul-2020 12:42:29 Instrument ID: HP20296
Lims ID: DFTPP
Client ID:
Operator ID: lmh00956 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI
Tune Method: DFTPP Method 8270D, BP 198

178 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (123.0)
51	10-80% of the base peak	46.1
68	<2% of mass 69	0.7 (1.2)
69	Present	59.4
70	<2% of mass 69	0.3 (0.5)
127	10-80% of the base peak	59.8
197	<2% of mass 198	0.3
199	5-9% of mass 198	7.1
275	10-60% of the base peak	22.6
365	>1% of mass 198	3.3
441	present but <24% of mass 442	13.3 (16.4)
442	base peak, or >50% of 198	81.3
443	15-24% of mass 442	15.7 (19.3)

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0650z.D\MSSemi_HP20296.rslt\spectra.d
Injection Date: 15-Jul-2020 12:42:29
Spectrum: Tune Spec :Average 474-476(5.32-5.33) Bgrd 469(5.30)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 328

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	458	127.00	222272	209.00	1337	301.00	219
37.00	747	128.00	16768	210.00	1632	302.00	333
38.00	1761	129.00	80080	211.00	3477	303.00	2191
39.00	11415	130.00	8128	212.00	1154	304.00	1120
40.00	296	131.00	1625	215.00	1240	308.00	319
41.00	509	132.00	961	216.00	2378	310.00	596
45.00	378	133.00	327	217.00	21960	313.00	124
47.00	102	134.00	2162	218.00	3028	314.00	864
48.00	87	135.00	6622	219.00	484	315.00	3147
49.00	1856	136.00	2471	220.00	605	316.00	1570
50.00	42456	137.00	2429	221.00	15221	317.00	276
51.00	171328	138.00	726	222.00	3659	321.00	621
52.00	7822	139.00	624	223.00	5882	322.00	500
53.00	774	140.00	820	224.00	45488	323.00	6833
55.00	1113	141.00	10789	225.00	13679	324.00	1195
56.00	4041	142.00	3136	226.00	1261	325.00	304
57.00	12252	143.00	2382	227.00	20720	326.00	257
58.00	713	144.00	480	228.00	2901	327.00	1336
59.00	483	145.00	982	229.00	4628	328.00	802
61.00	2070	146.00	2533	230.00	907	329.00	192
62.00	2044	147.00	4860	231.00	1832	332.00	427
63.00	7031	148.00	10644	232.00	307	333.00	935
64.00	1430	149.00	2557	233.00	379	334.00	5070
65.00	4104	150.00	547	234.00	1210	335.00	980
66.00	306	151.00	1262	235.00	1700	339.00	232
67.00	688	152.00	902	236.00	709	341.00	1105
68.00	2753	153.00	3550	237.00	1247	342.00	443
69.00	220672	154.00	2106	239.00	673	343.00	117
70.00	1112	155.00	5348	240.00	467	346.00	1870
71.00	494	156.00	8493	241.00	1435	347.00	311
73.00	2349	157.00	1502	242.00	2095	350.00	263
74.00	19192	158.00	1564	243.00	2751	351.00	273
75.00	33624	159.00	1260	244.00	36552	352.00	2306

Report Date: 22-Jul-2020 14:43:25 Chrom Revision: 2.3 30-Jun-2020 12:05:54
Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0650z.D\MSSemi_HP20296.rslt\spectra.d
Injection Date: 15-Jul-2020 12:42:29
Spectrum: Tune Spec :Average 474-476(5.32-5.33) Bgrd 469(5.30)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 328

m/z	Y	m/z	Y	m/z	Y	m/z	Y
76.00	12892	160.00	3705	245.00	4527	353.00	1299
77.00	246144	161.00	3976	246.00	7866	354.00	3006
78.00	15899	162.00	1476	247.00	1685	355.00	856
79.00	14360	163.00	556	248.00	443	356.00	91
80.00	12183	164.00	827	249.00	1494	359.00	166
81.00	16129	165.00	3694	250.00	345	362.00	159
82.00	3366	166.00	3325	251.00	558	365.00	12190
83.00	3535	167.00	18392	252.00	888	366.00	1347
84.00	240	168.00	9005	253.00	1735	367.00	152
85.00	2912	169.00	1170	254.00	4113	370.00	109
86.00	3831	170.00	589	255.00	188352	370.00	100
87.00	2665	171.00	883	256.00	27128	371.00	692
88.00	851	172.00	2132	257.00	2497	372.00	4128
89.00	385	173.00	1947	258.00	11938	373.00	1257
91.00	4327	174.00	4179	259.00	2296	383.00	1578
92.00	4018	175.00	8542	260.00	108	384.00	346
93.00	25296	176.00	2336	261.00	421	390.00	756
94.00	1556	177.00	3136	264.00	132	391.00	341
95.00	432	178.00	919	264.00	47	392.00	95
96.00	1135	179.00	13853	265.00	4801	397.00	114
97.00	526	180.00	9861	266.00	886	401.00	622
98.00	17992	181.00	4636	268.00	372	402.00	1548
99.00	13709	182.00	986	269.00	324	403.00	2768
100.00	1767	183.00	336	270.00	480	404.00	1006
101.00	8186	184.00	1425	271.00	414	405.00	102
102.00	712	185.00	6195	272.00	1188	409.00	86
103.00	3242	186.00	49728	273.00	6512	415.00	254
104.00	5223	187.00	12728	274.00	16872	418.00	83
105.00	4983	188.00	1876	275.00	84024	421.00	2528
106.00	2270	189.00	3452	276.00	11892	422.00	2863
107.00	67680	190.00	890	277.00	6002	423.00	15736
108.00	9267	191.00	979	278.00	1106	424.00	3129
109.00	2035	192.00	5225	279.00	117	425.00	468
110.00	123024	193.00	5403	281.00	668	429.00	117

Report Date: 22-Jul-2020 14:43:25 Chrom Revision: 2.3 30-Jun-2020 12:05:54
Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0650z.D\MSSemi_HP20296.rslt\spectra.d
Injection Date: 15-Jul-2020 12:42:29
Spectrum: Tune Spec :Average 474-476(5.32-5.33) Bgrd 469(5.30)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 328

m/z	Y	m/z	Y	m/z	Y	m/z	Y
111.00	18792	194.00	1434	282.00	551	430.00	306
112.00	2322	195.00	954	283.00	1323	431.00	84
113.00	643	196.00	10607	284.00	502	433.00	286
114.00	744	197.00	1293	285.00	1491	434.00	638
115.00	514	198.00	371392	286.00	127	435.00	943
116.00	3316	199.00	26416	289.00	377	436.00	903
117.00	48104	200.00	2006	290.00	96	437.00	952
118.00	3922	202.00	1972	291.00	326	438.00	1179
120.00	774	202.00	913	292.00	337	439.00	1603
121.00	363	203.00	2725	293.00	1766	440.00	94
122.00	3850	204.00	13175	294.00	642	441.00	49392
123.00	5757	205.00	22672	295.00	103	442.00	301888
124.00	2629	206.00	90752	296.00	23088	443.00	58272
125.00	2903	207.00	10591	297.00	3100	444.00	4775
126.00	2088	208.00	2377	298.00	386	445.00	241

Report Date: 22-Jul-2020 14:43:25 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0650z.D

Injection Date: 15-Jul-2020 12:42:29 Instrument ID: HP20296 Operator ID: lmh00956

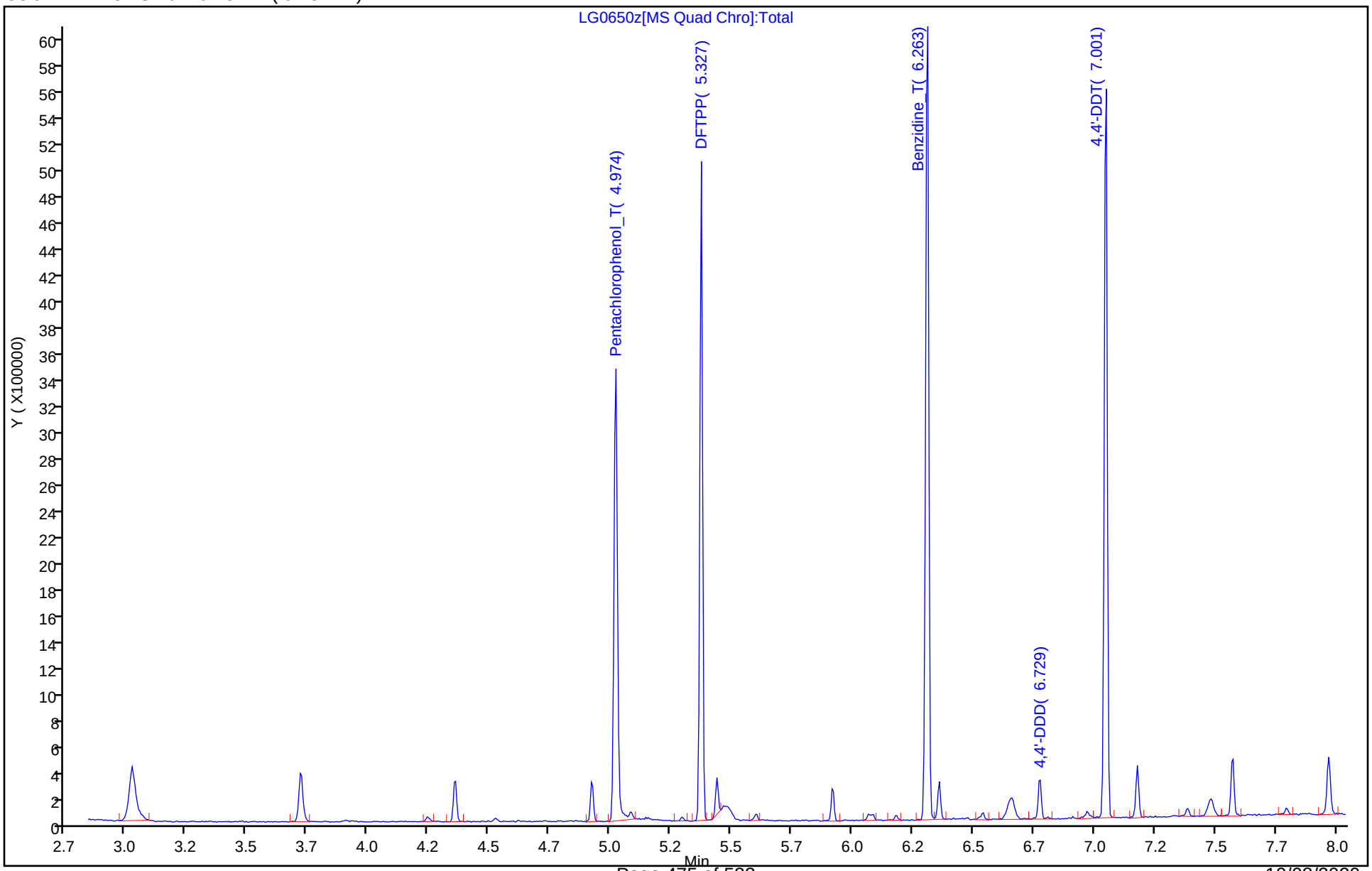
Lims ID: DFTPP Worklist Smp#: 1

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0

Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.18mm (0.18 mm)



Breakdown Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0650z.D
Injection Date: 15-Jul-2020 12:42:29 Instrument ID: HP20296
Lims ID: DFTPP
Client ID:
Operator ID: lmh00956 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI

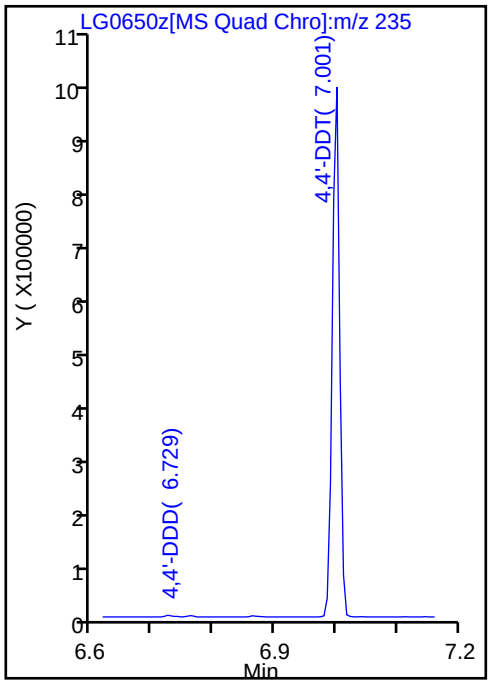
181 4,4'-DDT, Detector: MS Quad

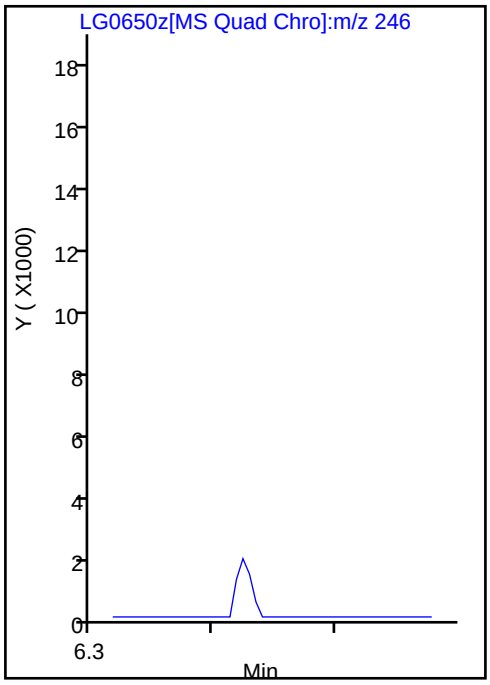
SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

181 4,4'-DDT, Area = 789097
180 4,4'-DDD, Area = 2517
179 4,4'-DDE, Area = 1598

%Breakdown: 0.52%, <= 20.00%
Passed





Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

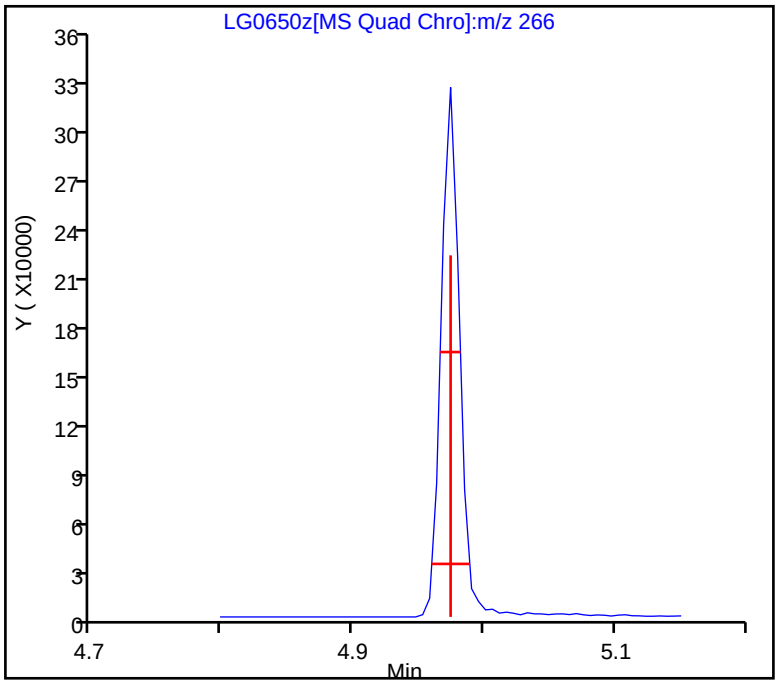
Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0650z.D
Injection Date: 15-Jul-2020 12:42:29 Instrument ID: HP20296
Lims ID: DFTPP
Client ID:
Operator ID: lmh00956 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI

8 Pentachlorophenol_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.015 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 1.1, Max. Tailing < 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

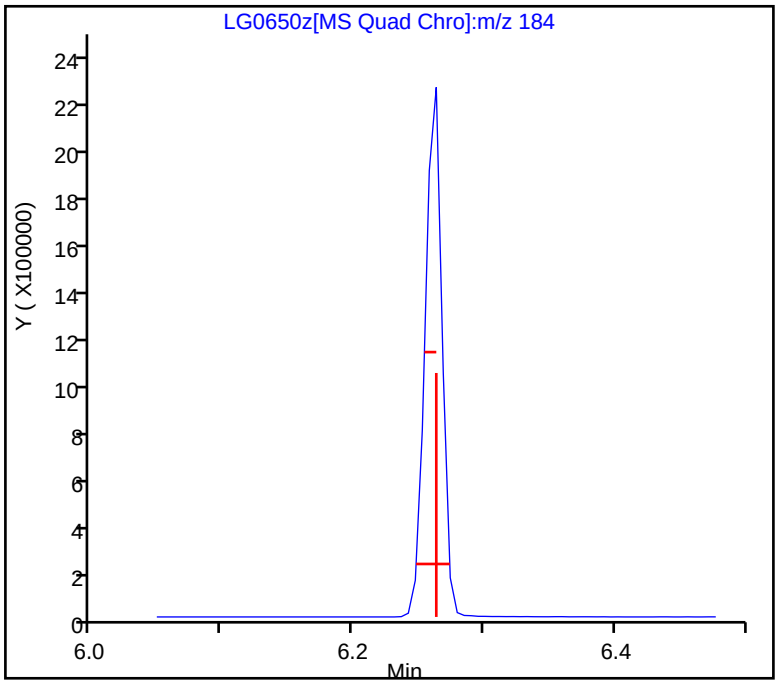
Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0650z.D
Injection Date: 15-Jul-2020 12:42:29 Instrument ID: HP20296
Lims ID: DFTPP
Client ID:
Operator ID: lmh00956 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI

14 Benzidine_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.010 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 0.7, Max. Tailing < 2.00
Passed



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\LJ0100b.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 05-Oct-2020 20:52:11 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0012109-001
Operator ID: kel10217 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 05-Oct-2020 23:10:44 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: luttek Date: 05-Oct-2020 21:09:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 Pentachlorophenol_T	266	4.627	4.627	0.000	79	182501	NR	NR	
14 Benzidine_T	184	5.921	5.921	0.000	98	981351	NR	NR	
178 DFTPP									
179 4,4'-DDE	246	6.087	6.087	0.000	1	1511		NR	
180 4,4'-DDD	235		6.659					ND	U
181 4,4'-DDT	235	6.659	6.659	0.000	92	488209	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
U - Marked Undetected

Reagents:

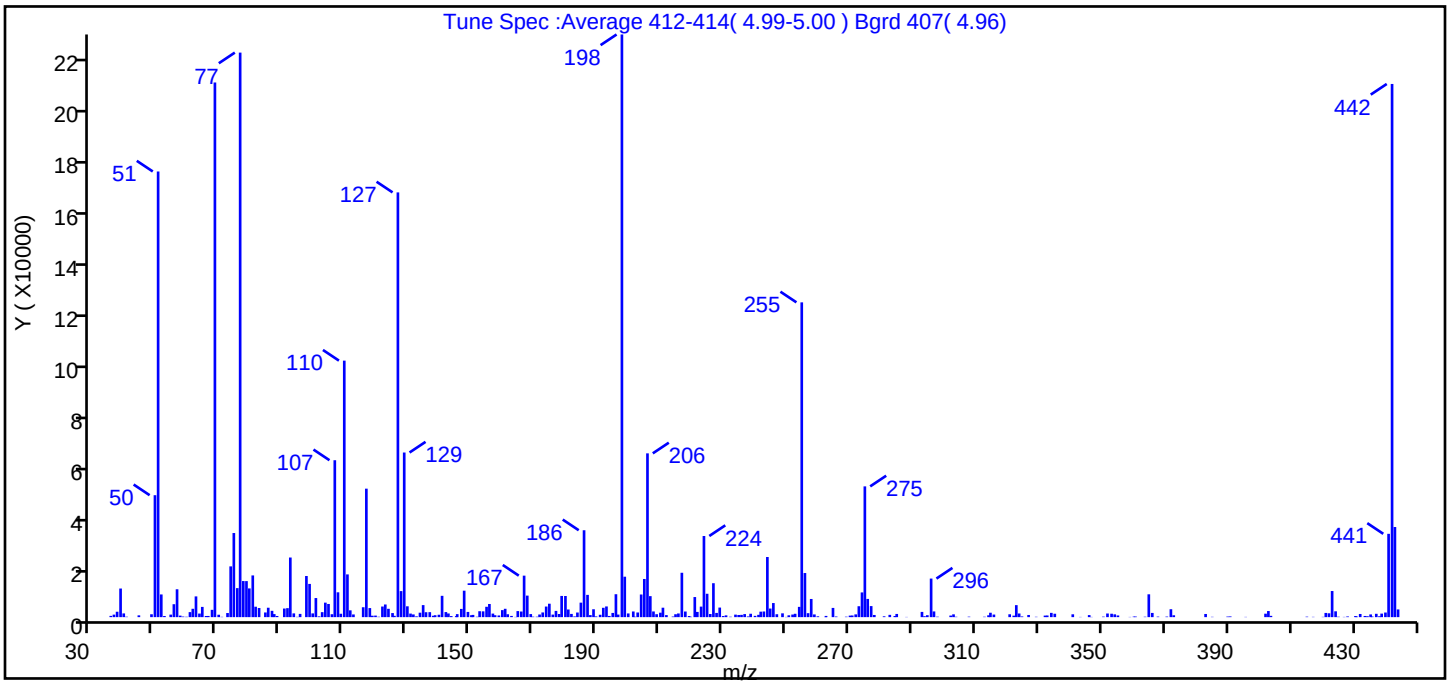
MSS_RVDFTPP_00005 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\LJ0100b.D
Injection Date: 05-Oct-2020 20:52:11 Instrument ID: HP20296
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI
Tune Method: DFTPP Method 8270D, BP 198

178 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (109.3)
51	10-80% of the base peak	76.5
68	<2% of mass 69	1.3 (1.4)
69	Present	91.8
70	<2% of mass 69	0.4 (0.5)
127	10-80% of the base peak	72.9
197	<2% of mass 198	0.4
199	5-9% of mass 198	6.9
275	10-60% of the base peak	22.4
365	>1% of mass 198	3.9
441	present but <24% of mass 442	14.3 (15.6)
442	base peak, or >50% of 198	91.5
443	15-24% of mass 442	15.5 (16.9)

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\LJ0100b.D\MSSemi_HP20296.rslt\spectra.c
Injection Date: 05-Oct-2020 20:52:11
Spectrum: Tune Spec :Average 412-414(4.99-5.00) Bgrd 407(4.96)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 305

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	496	126.00	518	203.00	1824	296.00	15119
37.00	985	127.00	166464	204.00	8875	297.00	2239
38.00	2118	128.00	10207	205.00	14957	298.00	180
39.00	11213	129.00	64520	206.00	64192	302.00	618
40.00	1461	130.00	4250	207.00	8230	303.00	1096
41.00	171	131.00	1390	208.00	2233	304.00	151
45.00	701	132.00	1065	209.00	1149	308.00	188
49.00	1130	133.00	303	210.00	1743	313.00	162
50.00	47792	134.00	1744	211.00	3700	314.00	726
51.00	174656	135.00	4718	212.00	800	315.00	1726
52.00	8896	136.00	1930	214.00	238	316.00	1011
53.00	440	137.00	1953	215.00	1136	321.00	1123
55.00	993	138.00	536	216.00	1441	322.00	578
56.00	5070	139.00	752	217.00	17392	323.00	4704
57.00	10926	140.00	940	218.00	2204	324.00	1432
58.00	591	141.00	8355	219.00	445	325.00	272
59.00	232	142.00	1989	220.00	143	327.00	849
60.00	149	143.00	1435	221.00	7876	329.00	140
61.00	1967	144.00	415	222.00	2049	332.00	607
62.00	3276	146.00	410	223.00	4127	333.00	646
63.00	8131	146.00	1179	224.00	31800	334.00	1674
64.00	1403	147.00	3226	225.00	9163	335.00	1332
65.00	4013	148.00	10370	226.00	1231	341.00	1118
66.00	453	149.00	2042	227.00	13298	343.00	85
67.00	466	150.00	750	228.00	1660	346.00	798
68.00	2867	151.00	876	229.00	3751	347.00	87
69.00	209536	152.00	155	230.00	435	351.00	200
70.00	943	153.00	2320	231.00	694	352.00	1429
71.00	119	154.00	2274	232.00	160	353.00	1338
73.00	1612	155.00	4061	234.00	985	354.00	1101
74.00	19896	156.00	5156	235.00	846	355.00	654
75.00	32968	157.00	1394	236.00	893	359.00	84
76.00	11373	158.00	750	237.00	1201	360.00	223

Report Date: 05-Oct-2020 23:10:45 Chrom Revision: 2.3 24-Sep-2020 19:22:38
Data File: \\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\LJ0100b.D\MSSemi_HP20296.rslt\spectra.c
Injection Date: 05-Oct-2020 20:52:11
Spectrum: Tune Spec :Average 412-414(4.99-5.00) Bgrd 407(4.96)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 305

m/z	Y	m/z	Y	m/z	Y	m/z	Y
77.00	221248	159.00	655	238.00	272	361.00	217
78.00	14141	160.00	2753	239.00	1328	364.00	165
79.00	14122	161.00	3276	240.00	501	365.00	8950
80.00	11259	162.00	1132	241.00	904	366.00	1652
81.00	16350	163.00	481	242.00	2150	368.00	213
82.00	4084	164.00	87	243.00	2220	371.00	219
83.00	3579	165.00	2371	244.00	23568	372.00	3108
85.00	1832	166.00	2203	245.00	3370	373.00	733
86.00	3691	167.00	16262	246.00	5524	383.00	1240
87.00	2478	168.00	8439	247.00	1140	385.00	125
88.00	1194	169.00	1203	249.00	1492	390.00	223
89.00	455	170.00	189	250.00	87	391.00	277
91.00	3372	171.00	173	251.00	718	396.00	96
92.00	3524	172.00	1034	252.00	1020	402.00	1353
93.00	23368	173.00	1840	253.00	1317	403.00	2392
94.00	1474	174.00	4151	254.00	4026	404.00	506
95.00	119	175.00	5266	255.00	123368	415.00	193
96.00	1272	176.00	997	256.00	17288	417.00	112
98.00	16122	177.00	2446	257.00	1553	420.00	109
99.00	13022	178.00	1229	258.00	7123	421.00	1651
100.00	1470	179.00	8312	259.00	1061	422.00	1511
101.00	7481	180.00	8287	260.00	323	423.00	10235
102.00	300	181.00	2998	263.00	134	424.00	2287
103.00	1951	182.00	1264	263.00	483	425.00	173
104.00	5680	183.00	279	265.00	3617	427.00	91
105.00	5161	184.00	1813	266.00	248	428.00	271
106.00	1145	185.00	5680	269.00	177	430.00	437
107.00	61496	186.00	34056	270.00	596	431.00	226
108.00	9736	187.00	8729	271.00	645	432.00	1240
109.00	1331	188.00	799	272.00	1085	434.00	460
110.00	100528	189.00	3093	273.00	4279	434.00	352
111.00	16752	190.00	279	274.00	9685	435.00	1066
112.00	2668	191.00	931	275.00	51248	436.00	263
113.00	1059	192.00	3668	276.00	7139	437.00	1311

Report Date: 05-Oct-2020 23:10:45 Chrom Revision: 2.3 24-Sep-2020 19:22:38
Data File: \\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\LJ0100b.D\MSSemi_HP20296.rslt\spectra.c
Injection Date: 05-Oct-2020 20:52:11
Spectrum: Tune Spec :Average 412-414(4.99-5.00) Bgrd 407(4.96)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 305

m/z	Y	m/z	Y	m/z	Y	m/z	Y
116.00	3881	193.00	4194	277.00	4333	438.00	353
117.00	50352	194.00	466	278.00	850	439.00	1385
118.00	3554	195.00	1652	281.00	326	440.00	1807
119.00	560	196.00	8984	283.00	901	441.00	32656
120.00	608	197.00	1004	284.00	454	442.00	208960
121.00	156	198.00	228352	285.00	1254	443.00	35320
122.00	4160	199.00	15848	288.00	84	444.00	3023
123.00	4964	200.00	1450	293.00	2054		
124.00	3268	202.00	2224	294.00	364		
125.00	1601	202.00	174	295.00	756		

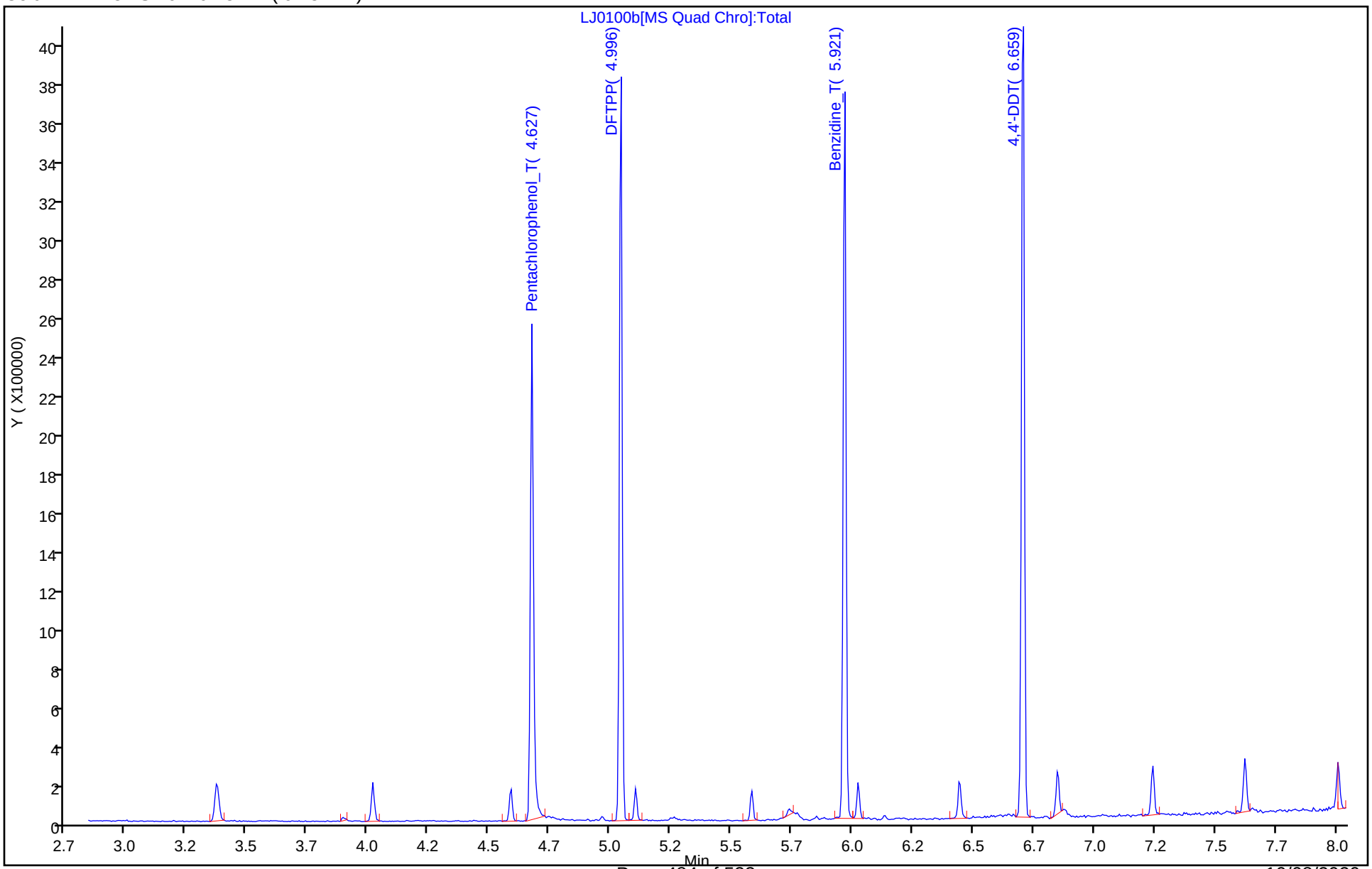
Report Date: 05-Oct-2020 23:10:45 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\LJ0100b.D

Injection Date:	05-Oct-2020 20:52:11	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



Breakdown Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\LJ0100b.D
Injection Date: 05-Oct-2020 20:52:11 Instrument ID: HP20296
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI

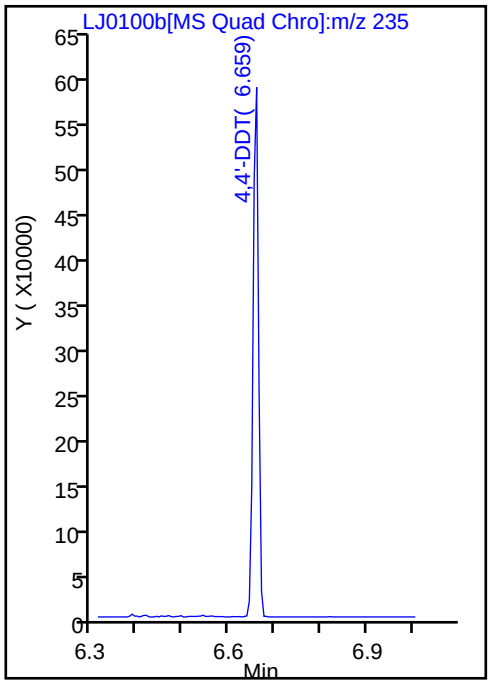
181 4,4'-DDT, Detector: MS Quad

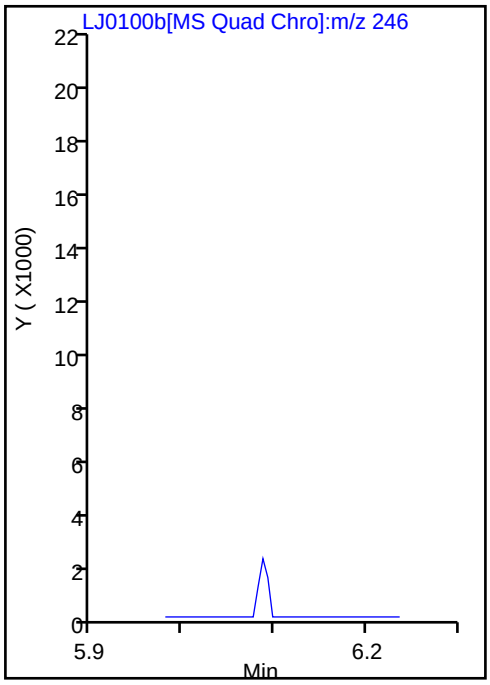
SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

181 4,4'-DDT, Area = 488209
180 4,4'-DDD, Area = 0
179 4,4'-DDE, Area = 1511

%Breakdown: 0.31%, <= 20.00%
Passed





Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

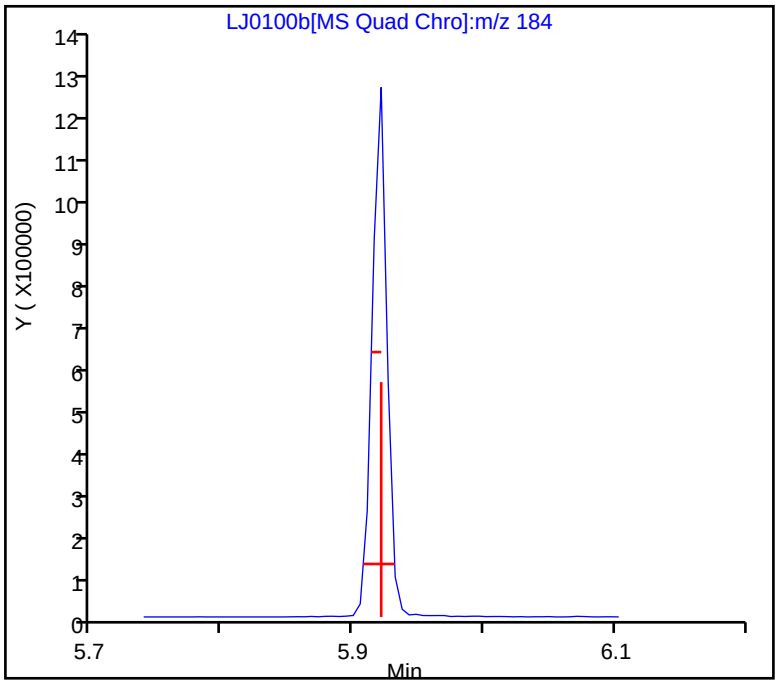
Data File: \\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\LJ0100b.D
Injection Date: 05-Oct-2020 20:52:11 Instrument ID: HP20296
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI

14 Benzidine_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.010 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 0.7, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

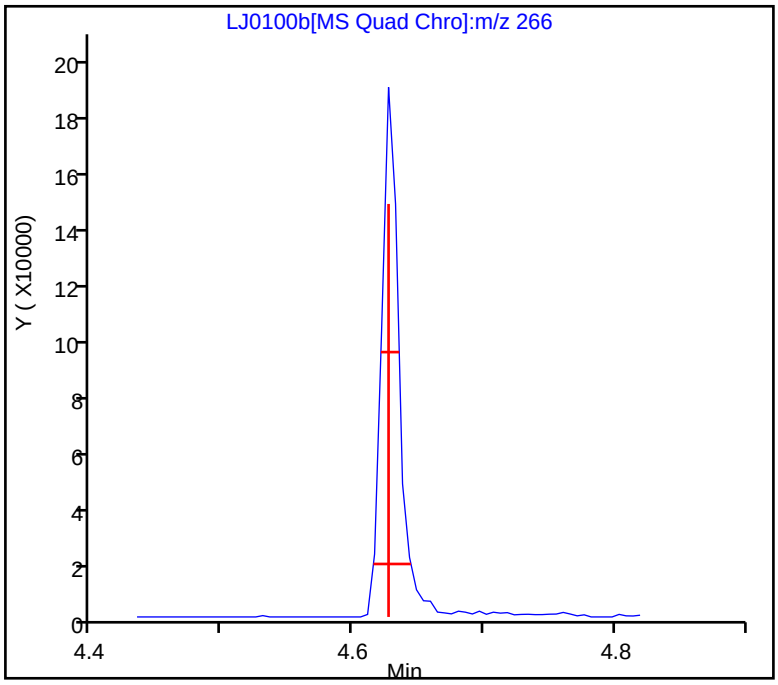
Data File: \\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\LJ0100b.D
Injection Date: 05-Oct-2020 20:52:11 Instrument ID: HP20296
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI

8 Pentachlorophenol_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.017 (min.)
Front Width = 0.012 (min.)

Tailing Factor = 1.4, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0150.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 06-Oct-2020 17:57:12 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0012211-001
Operator ID: kel10217 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 06-Oct-2020 23:00:56 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1014

First Level Reviewer: luttek Date: 06-Oct-2020 18:11:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 Pentachlorophenol_T	266	4.632	4.632	0.000	81	156724	NR	NR	
14 Benzidine_T	184	5.916	5.916	0.000	99	855253	NR	NR	
178 DFTPP									
179 4,4'-DDE	246	6.082	6.082	0.000	1	1786		NR	
180 4,4'-DDD	235	6.371	6.371	0.000	70	6507		NR	
181 4,4'-DDT	235	6.643	6.643	0.000	92	427016	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

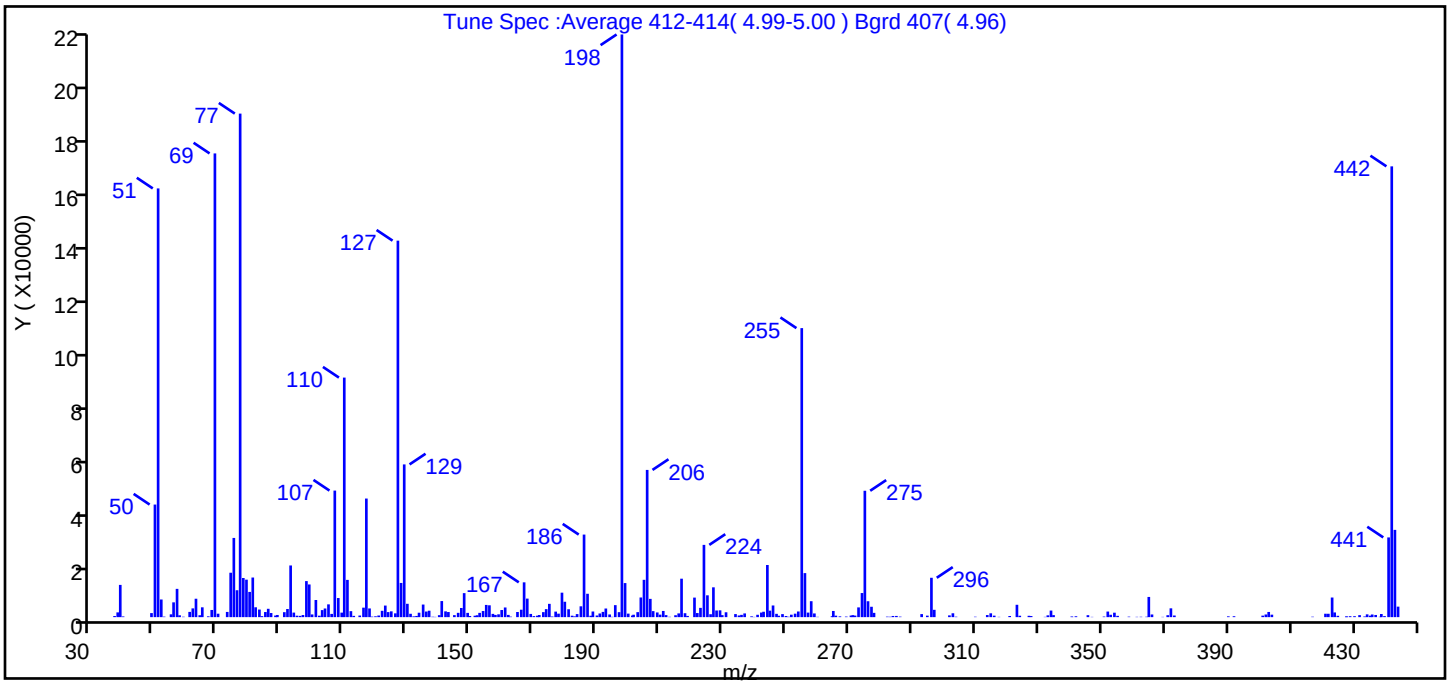
MSS_RVDFTPP_00005 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0150.D
Injection Date: 06-Oct-2020 17:57:12 Instrument ID: HP20296
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI
Tune Method: DFTPP Method 8270D, BP 198

178 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (129.3)
51	10-80% of the base peak	73.6
68	<2% of mass 69	1.2 (1.5)
69	Present	79.6
70	<2% of mass 69	0.6 (0.7)
127	10-80% of the base peak	64.6
197	<2% of mass 198	0.9
199	5-9% of mass 198	5.8
275	10-60% of the base peak	21.7
365	>1% of mass 198	3.5
441	present but <24% of mass 442	13.7 (17.7)
442	base peak, or >50% of 198	77.4
443	15-24% of mass 442	15.0 (19.4)

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0150.D\MSSemi_HP20296.rslt\spectra.d
Injection Date: 06-Oct-2020 17:57:12
Spectrum: Tune Spec :Average 412-414(4.99-5.00) Bgrd 407(4.96)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 291

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	412	125.00	2154	200.00	1303	285.00	447
38.00	1768	126.00	1408	201.00	585	286.00	187
39.00	11971	127.00	139776	202.00	894	293.00	1135
40.00	260	128.00	12693	203.00	1858	295.00	557
49.00	1504	129.00	56704	204.00	7295	296.00	14618
50.00	41800	130.00	4956	205.00	13860	297.00	2725
51.00	159168	131.00	1245	206.00	54656	302.00	654
52.00	6554	132.00	281	207.00	6784	303.00	1439
53.00	189	133.00	443	208.00	2238	304.00	164
55.00	1045	134.00	1646	209.00	1740	310.00	158
56.00	5491	135.00	4678	210.00	928	314.00	776
57.00	10498	136.00	2080	211.00	2296	315.00	1426
58.00	686	137.00	2389	212.00	749	316.00	553
59.00	151	138.00	148	213.00	127	318.00	107
61.00	1949	139.00	100	215.00	707	321.00	424
62.00	3252	140.00	730	216.00	1388	323.00	4588
63.00	6835	141.00	5968	217.00	14275	324.00	520
64.00	707	142.00	2144	218.00	1457	327.00	501
65.00	3648	143.00	1894	219.00	452	328.00	405
67.00	298	145.00	748	221.00	7254	332.00	106
68.00	2664	146.00	1597	222.00	1520	333.00	672
69.00	172160	147.00	3397	223.00	3446	334.00	2442
70.00	1274	148.00	8910	224.00	26832	335.00	746
73.00	1935	149.00	1583	225.00	8103	341.00	255
74.00	16488	150.00	428	226.00	1084	341.00	16
75.00	29408	151.00	526	227.00	11072	342.00	326
76.00	9992	152.00	697	228.00	2470	346.00	728
77.00	186944	153.00	1587	229.00	2524	347.00	97
78.00	14529	154.00	2269	230.00	741	351.00	214
79.00	13915	155.00	4536	231.00	1811	352.00	2074
80.00	9365	156.00	4398	234.00	1138	353.00	876
81.00	14708	157.00	1213	235.00	615	354.00	1654
82.00	3662	158.00	830	236.00	848	355.00	485

Report Date: 06-Oct-2020 23:00:56 Chrom Revision: 2.3 24-Sep-2020 19:22:38
Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0150.D\MSSemi_HP20296.rslt\spectra.d
Injection Date: 06-Oct-2020 17:57:12
Spectrum: Tune Spec :Average 412-414(4.99-5.00) Bgrd 407(4.96)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 291

m/z	Y	m/z	Y	m/z	Y	m/z	Y
83.00	2825	159.00	1046	237.00	1381	359.00	185
84.00	367	160.00	2646	239.00	291	361.00	116
85.00	1898	161.00	3587	240.00	88	362.00	141
86.00	3100	162.00	830	241.00	876	364.00	161
87.00	1526	163.00	198	242.00	1705	365.00	7500
88.00	596	165.00	1910	243.00	2003	366.00	993
89.00	804	166.00	2763	244.00	19360	369.00	96
91.00	1842	167.00	12923	245.00	2411	371.00	722
92.00	3018	168.00	6884	246.00	4332	372.00	3273
93.00	19184	169.00	1192	247.00	1229	373.00	605
94.00	1688	170.00	380	248.00	525	390.00	297
95.00	541	171.00	540	249.00	1125	392.00	336
96.00	473	172.00	791	250.00	414	401.00	560
97.00	781	173.00	1857	251.00	151	402.00	986
98.00	13383	174.00	2971	252.00	910	403.00	1925
99.00	12132	175.00	4938	253.00	1287	404.00	918
100.00	1001	176.00	231	254.00	2102	417.00	163
101.00	6363	177.00	2055	255.00	107304	421.00	1268
102.00	538	178.00	1292	256.00	16348	422.00	1257
103.00	2611	179.00	9086	257.00	1685	423.00	7285
104.00	3211	180.00	5715	258.00	5919	424.00	1744
105.00	4746	181.00	2930	259.00	1372	425.00	499
106.00	1203	182.00	534	260.00	115	428.00	215
107.00	46984	183.00	289	265.00	338	428.00	253
108.00	7097	184.00	1132	265.00	2290	429.00	349
109.00	1674	185.00	4024	266.00	543	430.00	354
110.00	88936	186.00	30656	267.00	287	432.00	743
111.00	13833	187.00	8679	269.00	210	433.00	250
112.00	2223	188.00	527	271.00	590	434.00	1037
113.00	473	189.00	2096	271.00	741	435.00	551
115.00	592	190.00	611	272.00	570	436.00	983
116.00	3522	191.00	1362	273.00	3618	437.00	807
117.00	44032	192.00	1944	274.00	8949	438.00	150
118.00	3231	193.00	3204	275.00	46920	439.00	1164

Report Date: 06-Oct-2020 23:00:56 Chrom Revision: 2.3 24-Sep-2020 19:22:38
Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0150.D\MSSemi_HP20296.rslt\spectra.d
Injection Date: 06-Oct-2020 17:57:12
Spectrum: Tune Spec :Average 412-414(4.99-5.00) Bgrd 407(4.96)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 291

m/z	Y	m/z	Y	m/z	Y	m/z	Y
119.00	197	194.00	993	276.00	5905	440.00	383
120.00	309	195.00	118	277.00	3850	441.00	29600
121.00	599	196.00	4454	278.00	1590	442.00	167360
122.00	2352	197.00	1846	282.00	186	443.00	32400
123.00	4296	198.00	216320	283.00	149	444.00	3898
124.00	1873	199.00	12647	284.00	434		

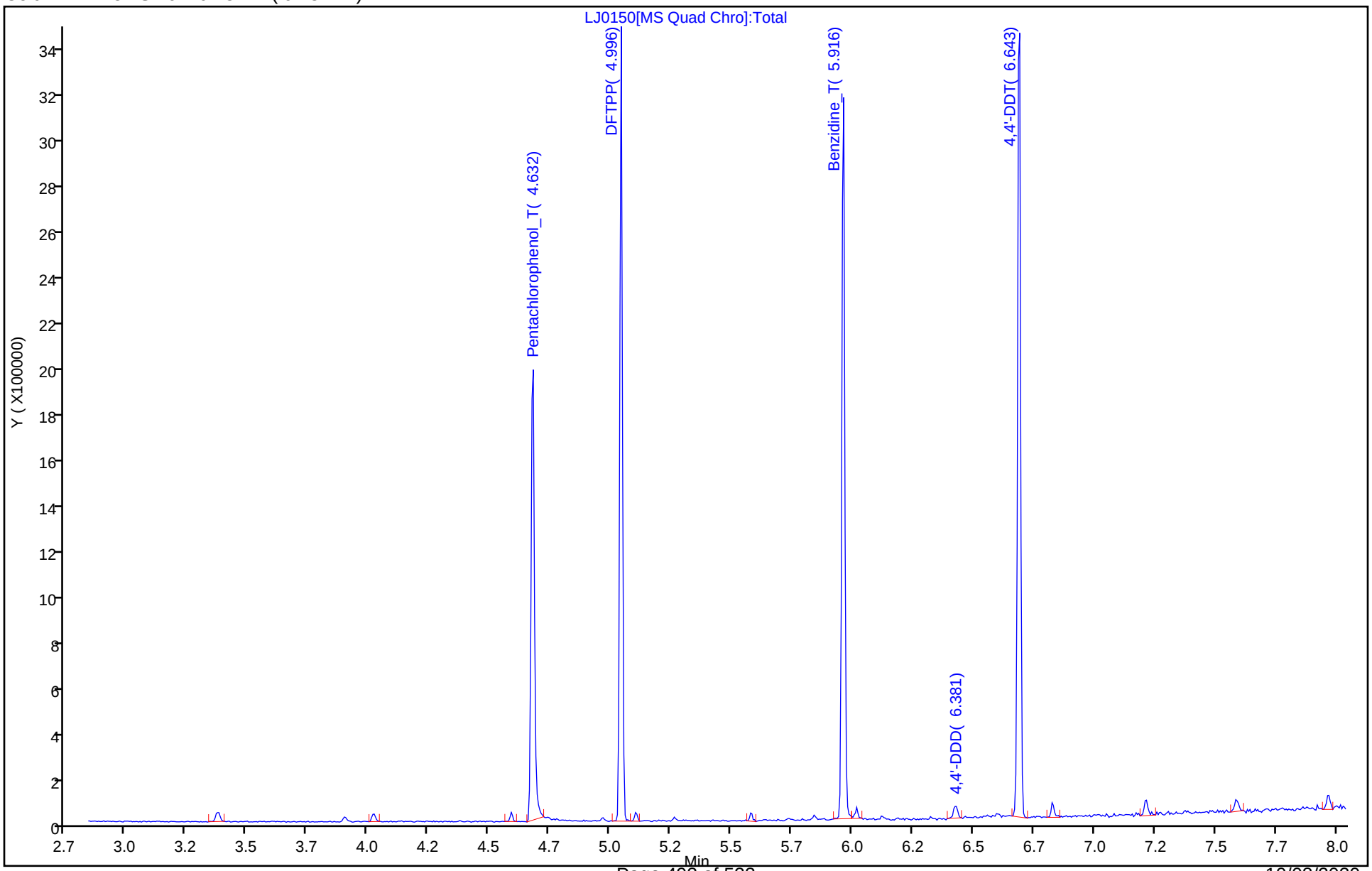
Report Date: 06-Oct-2020 23:00:56 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0150.D

Injection Date:	06-Oct-2020 17:57:12	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



Breakdown Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0150.D
Injection Date: 06-Oct-2020 17:57:12 Instrument ID: HP20296
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI

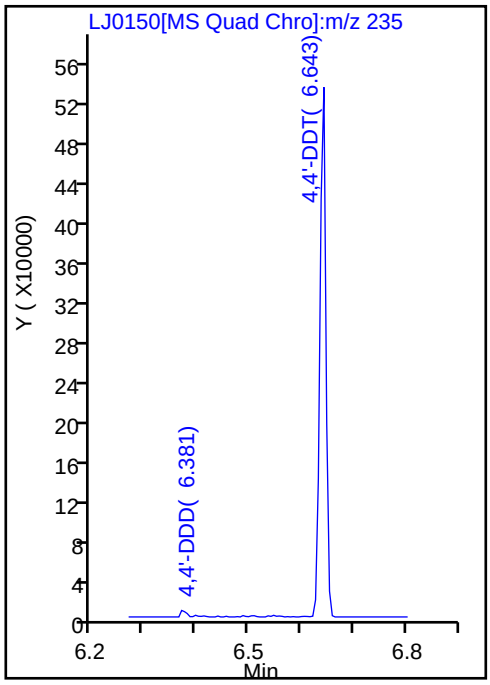
181 4,4'-DDT, Detector: MS Quad

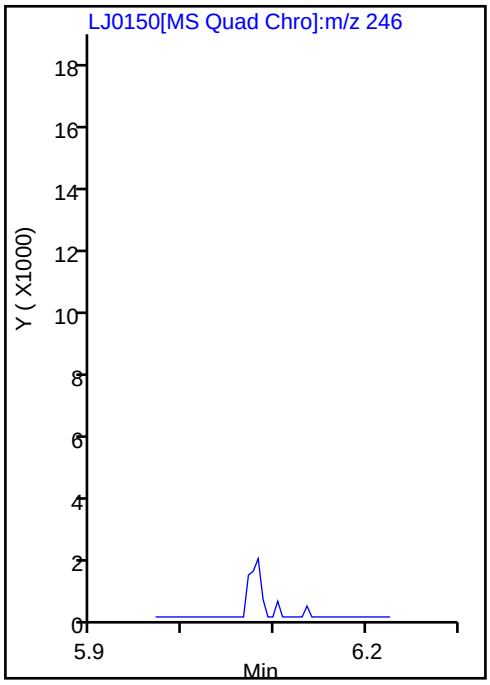
SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

181 4,4'-DDT, Area = 427016
180 4,4'-DDD, Area = 6507
179 4,4'-DDE, Area = 1786

%Breakdown: 1.91%, <= 20.00%
Passed





Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

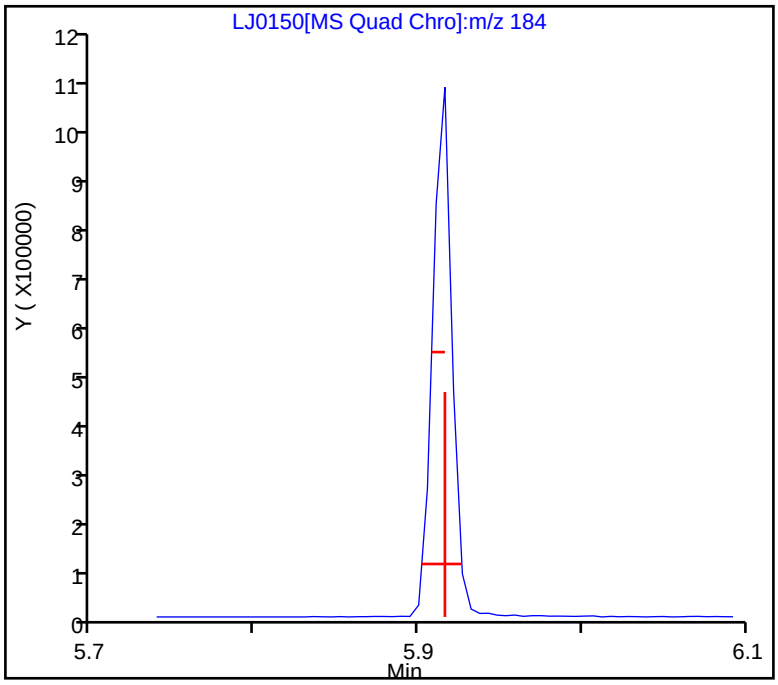
Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0150.D
Injection Date: 06-Oct-2020 17:57:12 Instrument ID: HP20296
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI

14 Benzidine_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.010 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 0.7, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

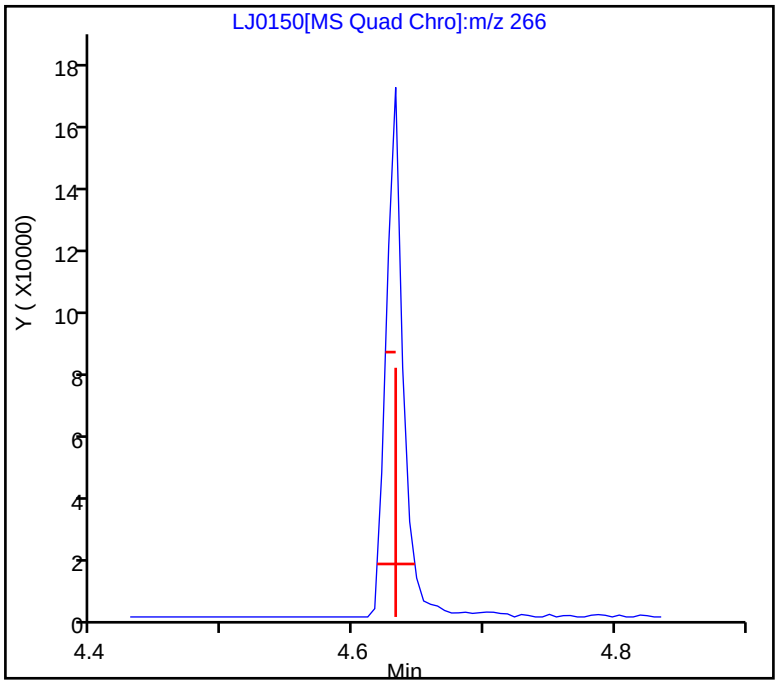
Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0150.D
Injection Date: 06-Oct-2020 17:57:12 Instrument ID: HP20296
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI

8 Pentachlorophenol_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.015 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 1.1, Max. Tailing <= 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15514-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-50732/1-A

Matrix: Water Lab File ID: LJ0102.D

Analysis Method: 8270D Date Collected:

Extract. Method: 3510C Date Extracted: 10/05/2020 09:20

Sample wt/vol: 250(mL) Date Analyzed: 10/05/2020 22:28

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 51042 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.50	0.10
208-96-8	Acenaphthylene	ND		0.50	0.10
120-12-7	Anthracene	ND		0.50	0.10
56-55-3	Benzo[a]anthracene	ND		0.50	0.10
50-32-8	Benzo[a]pyrene	ND		0.50	0.10
205-99-2	Benzo[b]fluoranthene	ND		0.50	0.10
191-24-2	Benzo[g,h,i]perylene	ND		0.50	0.10
207-08-9	Benzo[k]fluoranthene	ND		0.50	0.10
218-01-9	Chrysene	ND		0.50	0.10
53-70-3	Dibenz(a,h)anthracene	ND		0.50	0.10
206-44-0	Fluoranthene	ND		0.50	0.10
86-73-7	Fluorene	ND		0.50	0.10
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.50	0.10
91-20-3	Naphthalene	ND		0.50	0.10
85-01-8	Phenanthrene	ND		0.50	0.10
129-00-0	Pyrene	ND		0.50	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	77		44-102
4165-60-0	Nitrobenzene-d5 (Surr)	99		38-113
1718-51-0	p-Terphenyl-d14 (Surr)	89		34-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\LJ0102.D
Lims ID: MB 410-50732/1-A
Client ID:
Sample Type: MB
Inject. Date: 05-Oct-2020 22:28:03 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-50732/1-A
Misc. Info.: 410-0012109-003
Operator ID: kel10217 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 05-Oct-2020 23:10:47 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: luttek Date: 05-Oct-2020 23:09:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 24 1,4-Dichlorobenzene-d4	152	6.725	6.725	0.000	94	134044	5.00	5.00	
$ 41 Nitrobenzene-d5	82	7.581	7.581	0.000	88	1405718	25.0	24.8	
* 55 Naphthalene-d8	136	8.704	8.704	0.000	99	559578	5.00	5.00	
56 Naphthalene	128		8.736					ND	7
69 2-Methylnaphthalene	142		9.865					ND	U
$ 76 2-Fluorobiphenyl (Surr)	172	10.485	10.485	0.000	98	1386407	25.1	19.4	
90 Acenaphthylene	152		11.319					ND	
* 92 Acenaphthene-d10	164	11.549	11.549	0.000	94	228146	5.00	5.00	
93 Acenaphthene	153		11.598					ND	7
105 Fluorene	166		12.314					ND	
* 127 Phenanthrene-d10	188	13.475	13.475	0.000	96	376281	5.00	5.00	
129 Phenanthrene	178		13.507					ND	7
130 Anthracene	178		13.577					ND	7
138 Fluoranthene	202		15.171					ND	
* 140 Pyrene-d10 (IS)	212	15.480	15.481	-0.001	97	350340	5.00	5.00	
141 Pyrene	202		15.513					ND	U
$ 142 p-Terphenyl-d14	244	15.801	15.796	0.005	96	1417333	25.1	22.4	
149 Benzo[a]anthracene	228		17.540					ND	7
151 Chrysene	228		17.599					ND	7
155 Benzo[b]fluoranthene	252		19.412					ND	7
157 Benzo[k]fluoranthene	252		19.460					ND	7
158 Benzo[a]pyrene	252		19.941					ND	7
* 159 Perylene-d12	264	20.032	20.032	0.000	95	351862	5.00	5.00	
163 Indeno[1,2,3-cd]pyrene	276		21.658					ND	
164 Dibenz(a,h)anthracene	278		21.696					ND	7
165 Benzo[g,h,i]perylene	276		22.049					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSS_RV8270_IS_00013 Amount Added: 20.00 Units: uL Run Reagent

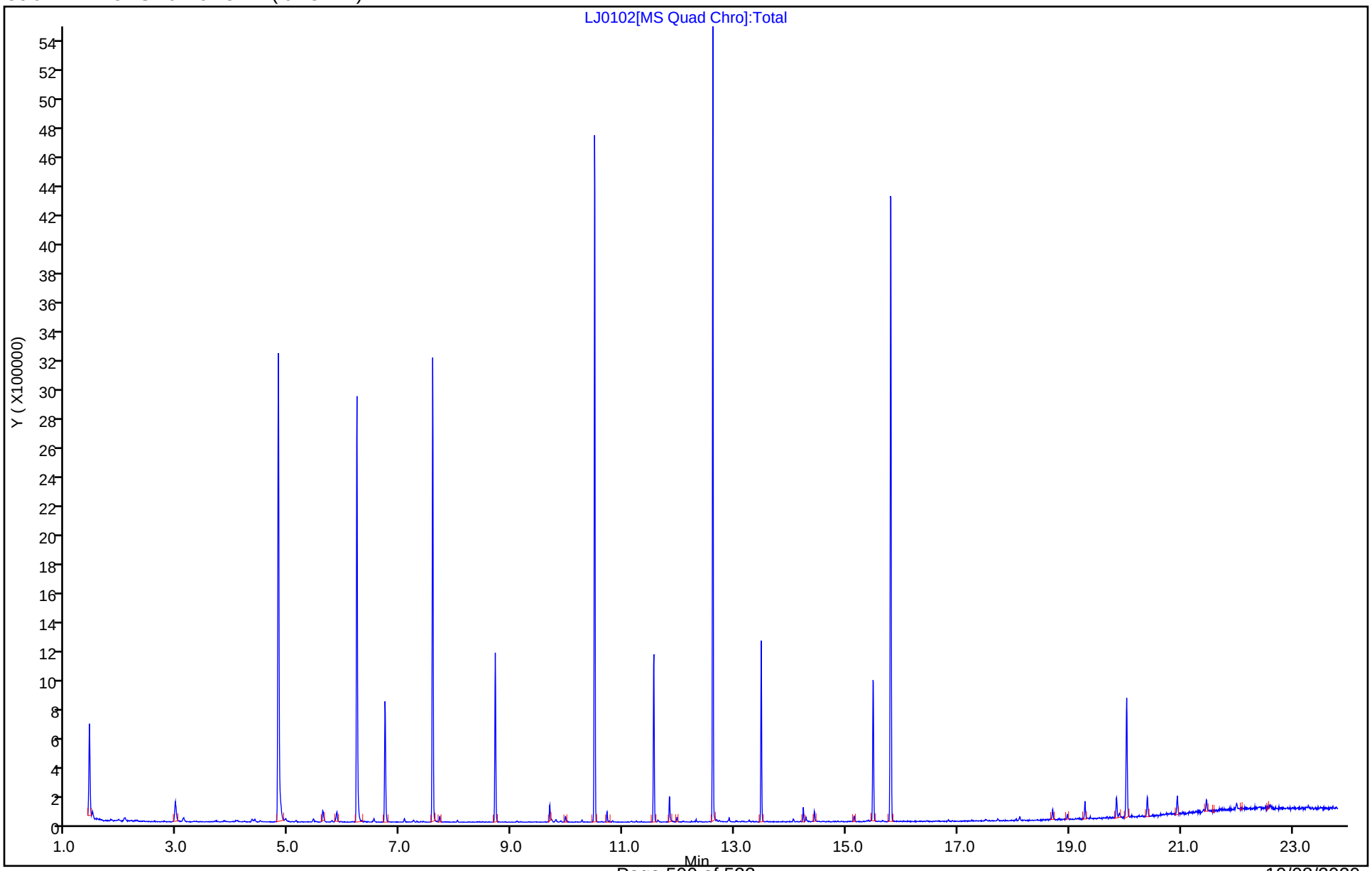
Report Date: 05-Oct-2020 23:10:58 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\LJ0102.D

Injection Date:	05-Oct-2020 22:28:03	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	MB 410-50732/1-A			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



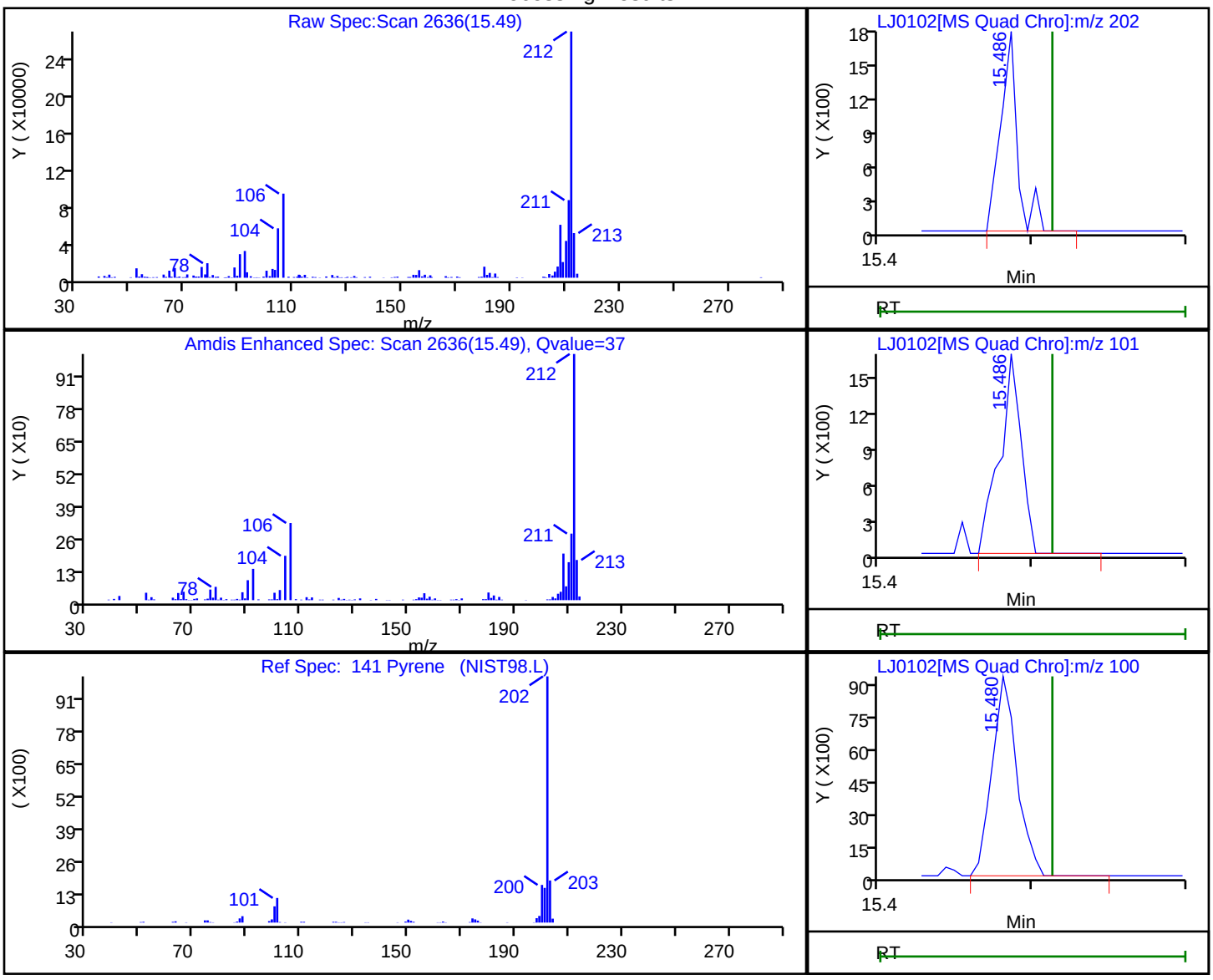
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\LJ0102.D				
Injection Date:	05-Oct-2020 22:28:03	Instrument ID:	HP20296		
Lims ID:	MB 410-50732/1-A				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

141 Pyrene, CAS: 129-00-0

Processing Results



RT	Mass	Response	Amount
15.49	202.00	1316	0.013514
15.49	101.00	1637	
15.48	100.00	10581	
15.48	203.00	986	

Reviewer: luttek, 05-Oct-2020 23:09:49

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.: 410-15514-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-50732/2-A

Matrix: Water Lab File ID: LJ0103.D

Analysis Method: 8270D Date Collected:

Extract. Method: 3510C Date Extracted: 10/05/2020 09:20

Sample wt/vol: 250(mL) Date Analyzed: 10/05/2020 22:57

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.: 51042 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	44.6		0.50	0.10
208-96-8	Acenaphthylene	44.5		0.50	0.10
120-12-7	Anthracene	47.7		0.50	0.10
56-55-3	Benzo[a]anthracene	49.3		0.50	0.10
50-32-8	Benzo[a]pyrene	47.6		0.50	0.10
205-99-2	Benzo[b]fluoranthene	47.9		0.50	0.10
191-24-2	Benzo[g,h,i]perylene	50.9		0.50	0.10
207-08-9	Benzo[k]fluoranthene	47.2		0.50	0.10
218-01-9	Chrysene	46.9		0.50	0.10
53-70-3	Dibenz(a,h)anthracene	53.4		0.50	0.10
206-44-0	Fluoranthene	48.1		0.50	0.10
86-73-7	Fluorene	44.0		0.50	0.10
193-39-5	Indeno[1,2,3-cd]pyrene	50.0		0.50	0.10
91-20-3	Naphthalene	41.2		0.50	0.10
85-01-8	Phenanthrene	49.4		0.50	0.10
129-00-0	Pyrene	46.6		0.50	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	84		44-102
4165-60-0	Nitrobenzene-d5 (Surr)	103		38-113
1718-51-0	p-Terphenyl-d14 (Surr)	87		34-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\LJ0103.D
Lims ID: LCS 410-50732/2-A
Client ID:
Sample Type: LCS
Inject. Date: 05-Oct-2020 22:57:00 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-50732/2-A
Misc. Info.: 410-0012109-004
Operator ID: kel10217 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 06-Oct-2020 11:27:54 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1007

First Level Reviewer: beckk Date: 06-Oct-2020 11:19:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 24 1,4-Dichlorobenzene-d4	152	6.725	6.725	0.000	93	124931	5.00	5.00	
$ 41 Nitrobenzene-d5	82	7.581	7.581	0.000	89	1303806	25.0	25.8	
* 55 Naphthalene-d8	136	8.704	8.704	0.000	99	500090	5.00	5.00	
56 Naphthalene	128	8.736	8.736	0.000	98	1164863	12.6	10.3	
69 2-Methylnaphthalene	142	9.864	9.865	-0.001	93	690892	12.5	9.65	
$ 76 2-Fluorobiphenyl (Surr)	172	10.485	10.485	0.000	98	1466725	25.1	21.2	
90 Acenaphthylene	152	11.319	11.314	0.000	97	1006825	12.5	11.1	
* 92 Acenaphthene-d10	164	11.544	11.549	-0.005	96	220808	5.00	5.00	
93 Acenaphthene	153	11.597	11.592	-0.001	98	746122	12.5	11.2	
105 Fluorene	166	12.309	12.308	-0.005	90	767956	12.5	11.0	
* 127 Phenanthrene-d10	188	13.475	13.475	0.000	95	368660	5.00	5.00	
129 Phenanthrene	178	13.507	13.507	0.000	99	1106893	12.5	12.3	
130 Anthracene	178	13.571	13.577	-0.006	98	1084784	12.5	11.9	
138 Fluoranthene	202	15.165	15.170	-0.005	99	1109221	12.5	12.0	
* 140 Pyrene-d10 (IS)	212	15.481	15.481	0.000	97	357822	5.00	5.00	
141 Pyrene	202	15.513	15.513	0.000	95	1159334	12.6	11.7	
$ 142 p-Terphenyl-d14	244	15.796	15.796	0.000	96	1411594	25.1	21.8	
149 Benzo[a]anthracene	228	17.534	17.540	-0.006	98	1021163	12.5	12.3	
151 Chrysene	228	17.599	17.599	0.000	96	973433	12.5	11.7	
155 Benzo[b]fluoranthene	252	19.412	19.412	0.000	97	1075261	12.5	12.0	
157 Benzo[k]fluoranthene	252	19.460	19.460	0.000	98	1018739	12.5	11.8	
158 Benzo[a]pyrene	252	19.941	19.941	0.000	81	995849	12.5	11.9	
* 159 Perylene-d12	264	20.032	20.032	0.000	96	351349	5.00	5.00	
163 Indeno[1,2,3-cd]pyrene	276	21.658	21.652	0.000	96	975569	12.6	12.5	M
164 Dibenz(a,h)anthracene	278	21.696	21.696	0.000	95	1043613	12.5	13.3	
165 Benzo[g,h,i]perylene	276	22.049	22.049	0.000	94	1009349	12.5	12.7	

QC Flag Legend
Processing Flags

Review Flags
M - Manually Integrated

Reagents:

MSS_RV8270_IS_00013 Amount Added: 20.00 Units: uL Run Reagent

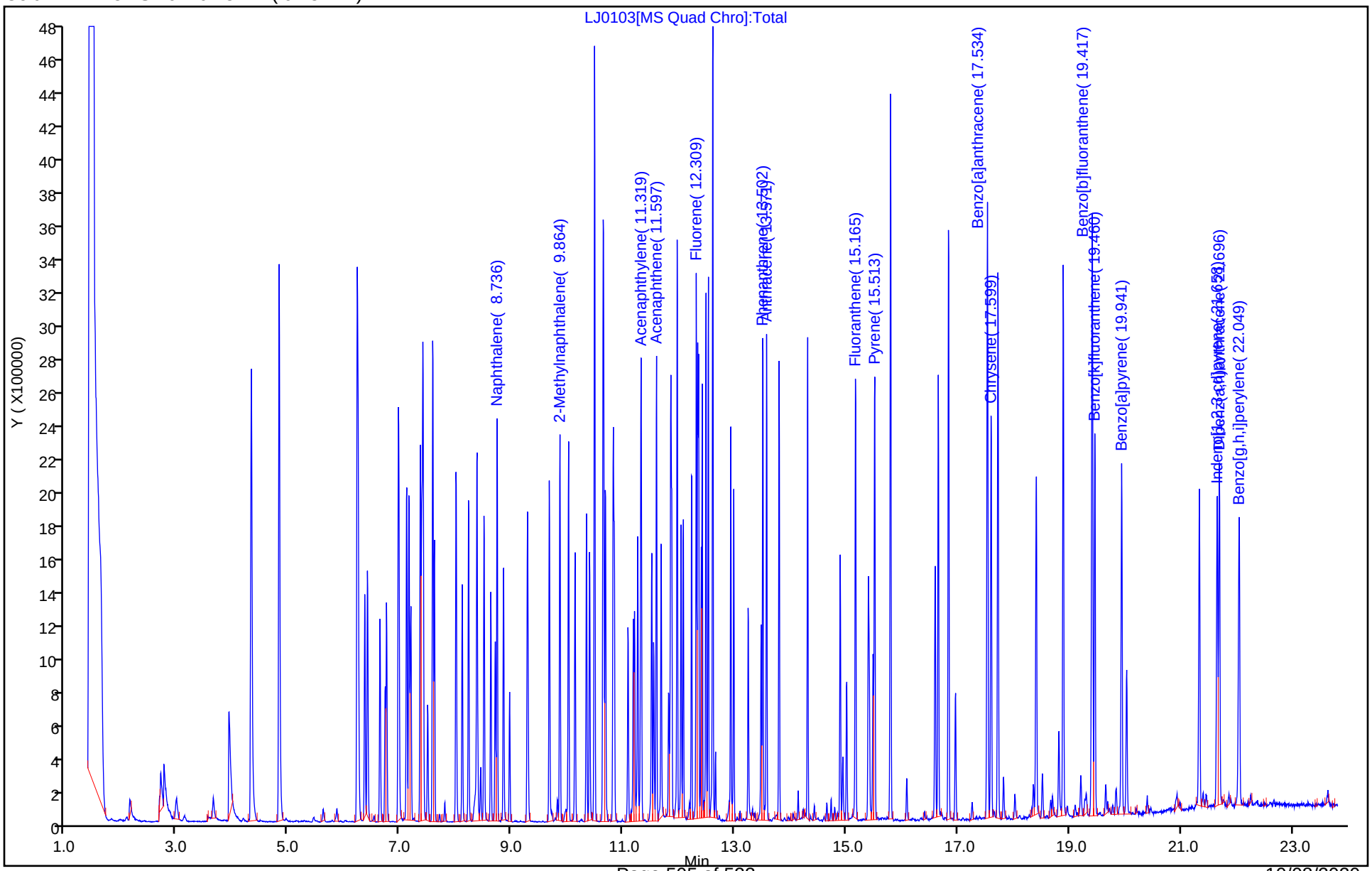
Report Date: 06-Oct-2020 11:29:32 Chrom Revision: 2.3 05-Oct-2020 16:17:16

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\LJ0103.D

Injection Date:	05-Oct-2020 22:57:00	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	LCS 410-50732/2-A			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

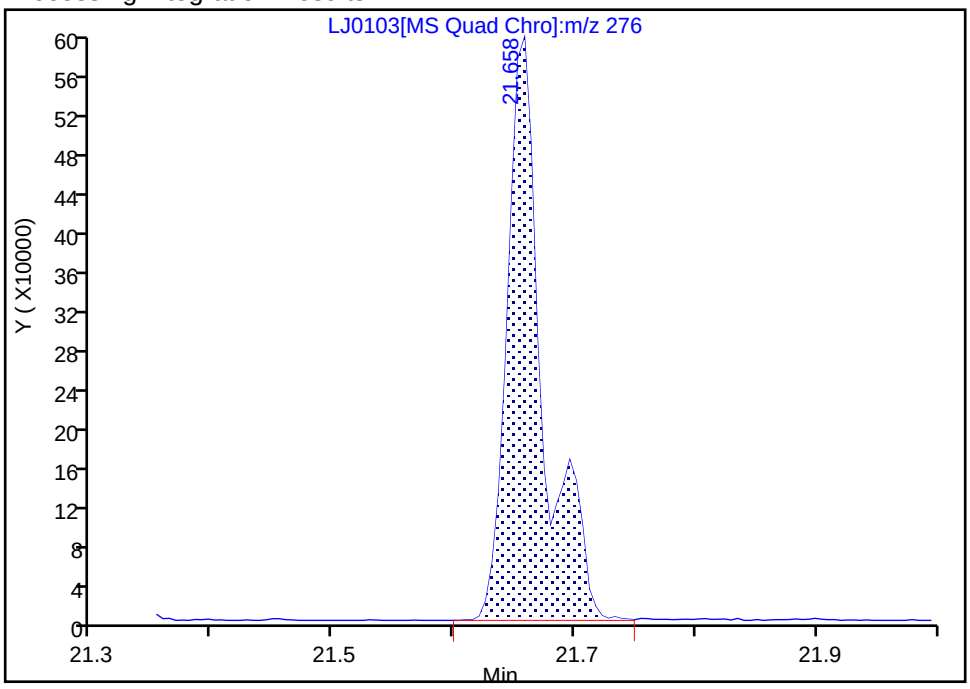
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\LJ0103.D				
Injection Date:	05-Oct-2020 22:57:00	Instrument ID:	HP20296		
Lims ID:	LCS 410-50732/2-A				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

163 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

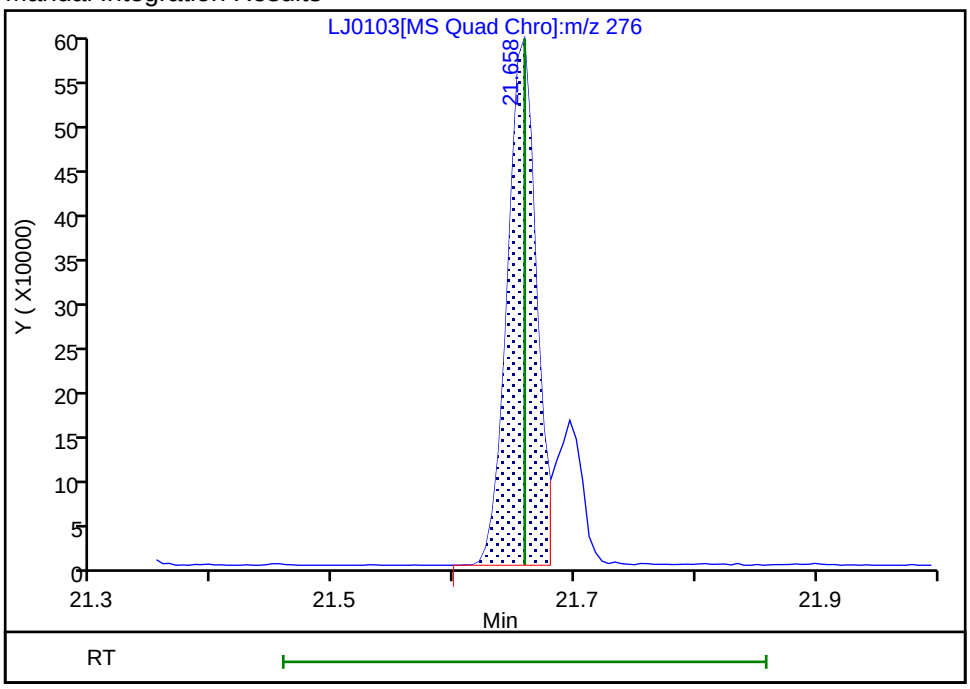
Processing Integration Results

RT: 21.66
Area: 1221076
Amount: 15.649206
Amount Units: ug/ml



Manual Integration Results

RT: 21.66
Area: 975569
Amount: 12.502810
Amount Units: ug/ml



Reviewer: beckk, 06-Oct-2020 11:18:37

Audit Action: Split an Integrated Peak Audit Reason: Assign Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15514-1

SDG No.:

Client Sample ID: MW-10D-20200928 MS Lab Sample ID: 410-15514-3 MS

Matrix: Ground Water Lab File ID: LJ0106.D

Analysis Method: 8270D Date Collected: 09/28/2020 13:57

Extract. Method: 3510C Date Extracted: 10/05/2020 09:20

Sample wt/vol: 248(mL) Date Analyzed: 10/06/2020 00:24

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.: 51042 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	45.3		0.50	0.10
208-96-8	Acenaphthylene	48.2		0.50	0.10
120-12-7	Anthracene	47.0		0.50	0.10
56-55-3	Benzo[a]anthracene	49.1		0.50	0.10
50-32-8	Benzo[a]pyrene	45.5		0.50	0.10
205-99-2	Benzo[b]fluoranthene	47.1		0.50	0.10
191-24-2	Benzo[g,h,i]perylene	49.8		0.50	0.10
207-08-9	Benzo[k]fluoranthene	45.9		0.50	0.10
218-01-9	Chrysene	45.6		0.50	0.10
53-70-3	Dibenz(a,h)anthracene	51.4		0.50	0.10
206-44-0	Fluoranthene	48.0		0.50	0.10
86-73-7	Fluorene	44.9		0.50	0.10
193-39-5	Indeno[1,2,3-cd]pyrene	48.4		0.50	0.10
91-20-3	Naphthalene	42.1		0.50	0.10
85-01-8	Phenanthrene	48.7		0.50	0.10
129-00-0	Pyrene	47.7		0.50	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	87		44-102
4165-60-0	Nitrobenzene-d5 (Surr)	106		38-113
1718-51-0	p-Terphenyl-d14 (Surr)	67		34-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\LJ0106.D
Lims ID: 410-15514-D-3-A MS
Client ID: MW-10D-20200928
Sample Type: MS
Inject. Date: 06-Oct-2020 00:24:07 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-15514-D-3-A MS
Misc. Info.: 410-0012109-007
Operator ID: kel10217 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 06-Oct-2020 11:27:54 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1007

First Level Reviewer: beckk Date: 06-Oct-2020 11:28:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 24 1,4-Dichlorobenzene-d4	152	6.730	6.725	0.005	94	141359	5.00	5.00	
$ 41 Nitrobenzene-d5	82	7.581	7.581	0.000	89	1428574	25.0	26.4	
* 55 Naphthalene-d8	136	8.704	8.704	0.000	98	534130	5.00	5.00	
56 Naphthalene	128	8.736	8.736	0.000	98	1262324	12.6	10.4	
$ 76 2-Fluorobiphenyl (Surr)	172	10.485	10.485	0.000	98	1605446	25.1	21.8	
90 Acenaphthylene	152	11.319	11.314	0.000	97	1152951	12.5	12.0	
* 92 Acenaphthene-d10	164	11.549	11.549	0.000	96	235220	5.00	5.00	
93 Acenaphthene	153	11.598	11.592	0.000	98	801062	12.5	11.2	
105 Fluorene	166	12.309	12.308	-0.005	90	829575	12.5	11.1	
* 127 Phenanthrene-d10	188	13.475	13.475	0.000	95	399153	5.00	5.00	
129 Phenanthrene	178	13.507	13.507	0.000	99	1171846	12.5	12.1	
130 Anthracene	178	13.571	13.577	-0.006	98	1147832	12.5	11.7	
138 Fluoranthene	202	15.165	15.170	-0.005	98	1189561	12.5	11.9	
* 140 Pyrene-d10 (IS)	212	15.481	15.481	0.000	98	381581	5.00	5.00	
141 Pyrene	202	15.513	15.513	0.000	95	1253366	12.6	11.8	
$ 142 p-Terphenyl-d14	244	15.796	15.796	0.000	96	1159987	25.1	16.8	
149 Benzo[a]anthracene	228	17.540	17.540	0.000	98	1075239	12.5	12.2	
151 Chrysene	228	17.599	17.599	0.000	96	1000649	12.5	11.3	
155 Benzo[b]fluoranthene	252	19.417	19.412	0.005	95	1120110	12.5	11.7	
157 Benzo[k]fluoranthene	252	19.460	19.460	0.000	97	1050010	12.5	11.4	
158 Benzo[a]pyrene	252	19.941	19.941	0.000	81	1009522	12.5	11.3	
* 159 Perylene-d12	264	20.032	20.032	0.000	96	375141	5.00	5.00	
163 Indeno[1,2,3-cd]pyrene	276	21.658	21.652	0.000	97	999606	12.6	12.0	
164 Dibenz(a,h)anthracene	278	21.696	21.696	0.000	94	1064593	12.5	12.7	
165 Benzo[g,h,i]perylene	276	22.049	22.049	0.000	94	1046321	12.5	12.4	

QC Flag Legend
Processing Flags

Reagents:

MSS_RV8270_IS_00013 Amount Added: 20.00 Units: uL Run Reagent

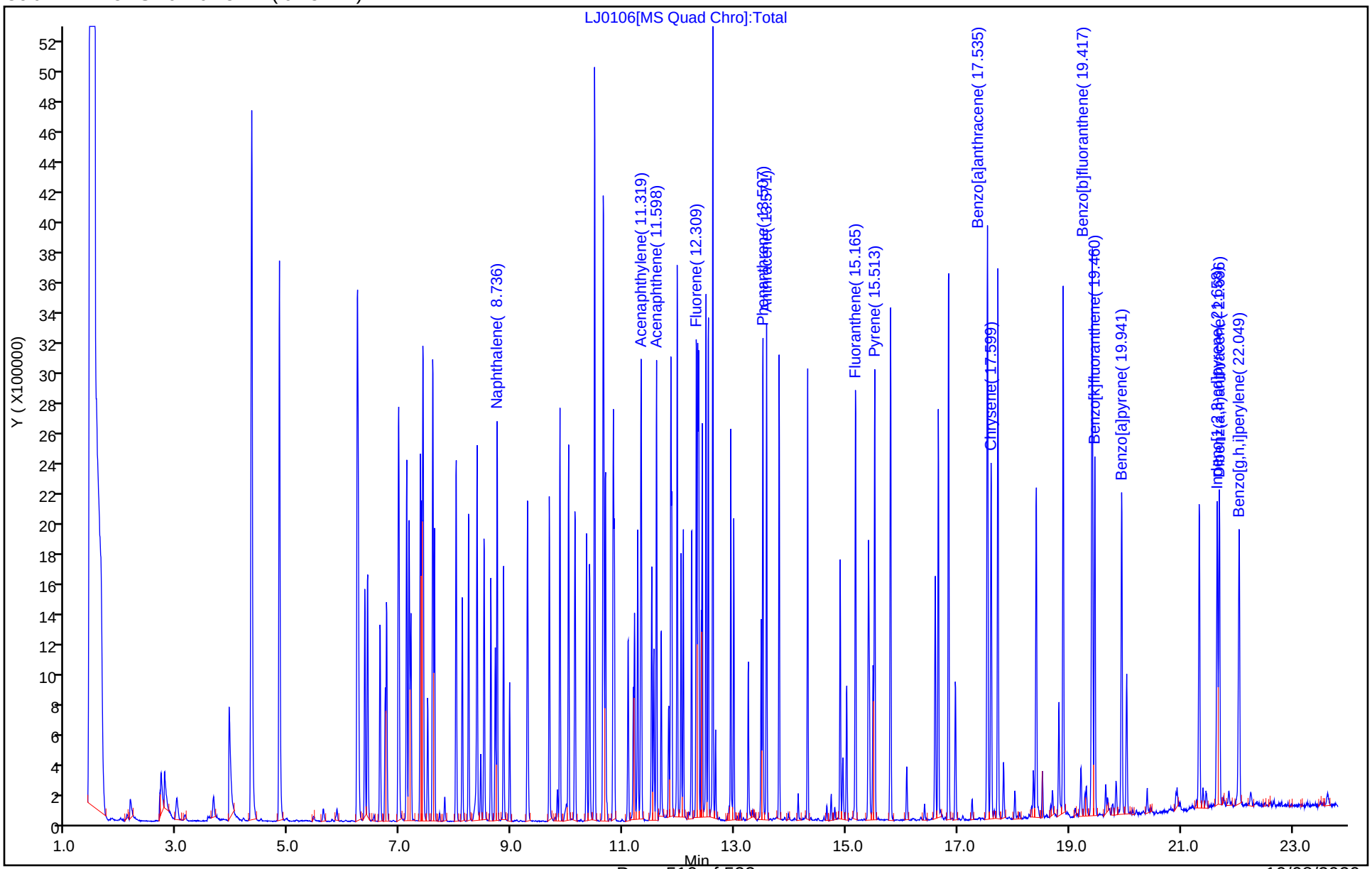
Report Date: 06-Oct-2020 11:30:35 Chrom Revision: 2.3 05-Oct-2020 16:17:16

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201005-12109.b\LJ0106.D

Injection Date:	06-Oct-2020 00:24:07	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	410-15514-D-3-A MS			Worklist Smp#:	7
Client ID:	MW-10D-20200928				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15514-1

SDG No.:

Client Sample ID: MW-10D-20200928 MSD Lab Sample ID: 410-15514-3 MSD

Matrix: Ground Water Lab File ID: LJ0155.D

Analysis Method: 8270D Date Collected: 09/28/2020 13:57

Extract. Method: 3510C Date Extracted: 10/05/2020 09:20

Sample wt/vol: 245(mL) Date Analyzed: 10/06/2020 20:29

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.: 51485 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	46.3		0.51	0.10
208-96-8	Acenaphthylene	48.0		0.51	0.10
120-12-7	Anthracene	46.3		0.51	0.10
56-55-3	Benzo[a]anthracene	50.1		0.51	0.10
50-32-8	Benzo[a]pyrene	47.4		0.51	0.10
205-99-2	Benzo[b]fluoranthene	47.4		0.51	0.10
191-24-2	Benzo[g,h,i]perylene	50.4		0.51	0.10
207-08-9	Benzo[k]fluoranthene	48.0		0.51	0.10
218-01-9	Chrysene	46.7		0.51	0.10
53-70-3	Dibenz(a,h)anthracene	52.0		0.51	0.10
206-44-0	Fluoranthene	46.4		0.51	0.10
86-73-7	Fluorene	46.6		0.51	0.10
193-39-5	Indeno[1,2,3-cd]pyrene	49.3		0.51	0.10
91-20-3	Naphthalene	41.8		0.51	0.10
85-01-8	Phenanthrene	48.6		0.51	0.10
129-00-0	Pyrene	47.0		0.51	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	89		44-102
4165-60-0	Nitrobenzene-d5 (Surr)	98		38-113
1718-51-0	p-Terphenyl-d14 (Surr)	64		34-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0155.D
Lims ID: 410-15514-D-3-B MSD
Client ID: MW-10D-20200928
Sample Type: MSD
Inject. Date: 06-Oct-2020 20:29:54 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-15514-D-3-B MSD
Misc. Info.: 410-0012211-007
Operator ID: kel10217 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 06-Oct-2020 23:00:58 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1014

First Level Reviewer: luttek Date: 06-Oct-2020 22:54:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 24 1,4-Dichlorobenzene-d4	152	6.735	6.730	0.005	94	132279	5.00	5.00	
$ 41 Nitrobenzene-d5	82	7.591	7.591	0.000	90	1288311	25.0	24.6	
* 55 Naphthalene-d8	136	8.714	8.709	0.005	99	517359	5.00	5.00	
56 Naphthalene	128	8.747	8.746	0.001	99	1199312	12.6	10.2	
$ 76 2-Fluorobiphenyl (Surr)	172	10.496	10.495	0.001	98	1565035	25.1	22.3	
90 Acenaphthylene	152	11.325	11.325	0.000	97	1078651	12.5	11.8	
* 92 Acenaphthene-d10	164	11.555	11.555	0.001	97	223952	5.00	5.00	
93 Acenaphthene	153	11.603	11.603	0.000	98	768757	12.5	11.3	
105 Fluorene	166	12.319	12.319	0.000	92	809163	12.5	11.4	
* 127 Phenanthrene-d10	188	13.480	13.485	-0.005	96	393447	5.00	5.00	
129 Phenanthrene	178	13.512	13.512	0.000	99	1139146	12.5	11.9	
130 Anthracene	178	13.576	13.582	-0.006	99	1100806	12.5	11.3	
138 Fluoranthene	202	15.176	15.176	0.000	99	1118026	12.5	11.4	
* 140 Pyrene-d10 (IS)	212	15.491	15.491	0.000	98	367021	5.00	5.00	
141 Pyrene	202	15.518	15.518	0.000	95	1175880	12.6	11.5	
$ 142 p-Terphenyl-d14	244	15.801	15.807	-0.006	96	1062282	25.1	16.0	
149 Benzo[a]anthracene	228	17.545	17.545	0.000	98	1042153	12.5	12.3	
151 Chrysene	228	17.609	17.609	0.000	96	974150	12.5	11.4	
155 Benzo[b]fluoranthene	252	19.422	19.422	0.000	96	1037391	12.5	11.6	
157 Benzo[k]fluoranthene	252	19.471	19.465	0.006	98	1011339	12.5	11.8	
158 Benzo[a]pyrene	252	19.952	19.952	0.000	81	968261	12.5	11.6	
* 159 Perylene-d12	264	20.038	20.043	-0.005	96	349911	5.00	5.00	
163 Indeno[1,2,3-cd]pyrene	276	21.669	21.669	0.000	97	939530	12.6	12.1	
164 Dibenz(a,h)anthracene	278	21.706	21.706	0.000	95	993301	12.5	12.8	
165 Benzo[g,h,i]perylene	276	22.065	22.059	0.006	91	975567	12.5	12.4	

QC Flag Legend
Processing Flags

Reagents:

MSS_RV8270_IS_00013 Amount Added: 20.00 Units: uL Run Reagent

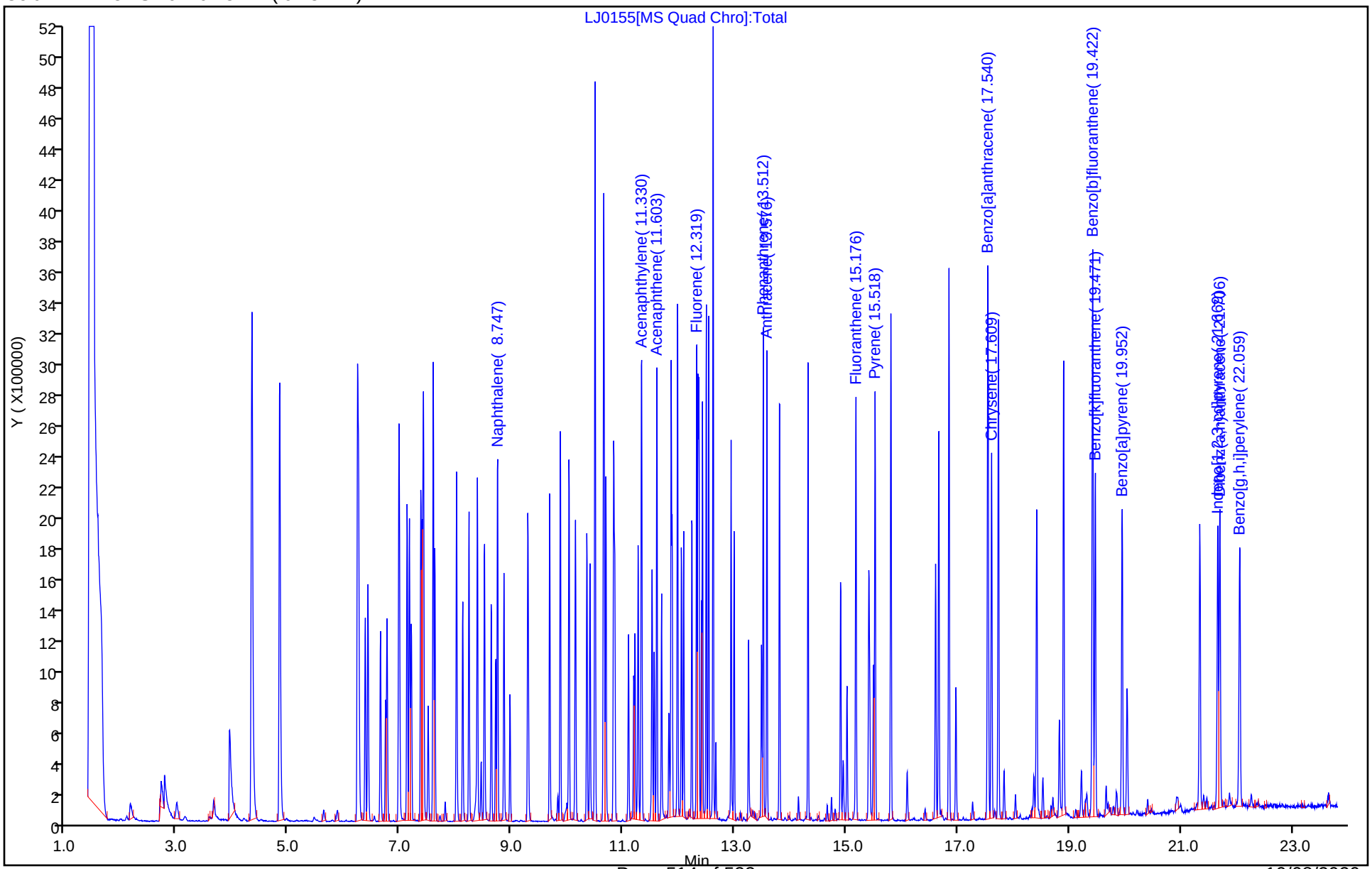
Report Date: 06-Oct-2020 23:01:15 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0155.D

Injection Date:	06-Oct-2020 20:29:54	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	410-15514-D-3-B MSD			Worklist Smp#:	7
Client ID:	MW-10D-20200928				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1

SDG No.:

Instrument ID: HP20296 Start Date: 07/15/2020 12:42

Analysis Batch Number: 22758 End Date: 07/15/2020 19:45

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-22758/1		07/15/2020 12:42	1	LG0650z.D	DB-5MS 20m 0.18 0.18(mm)
ICIS 410-22758/2		07/15/2020 13:18	1	LG0651.D	DB-5MS 20m 0.18 0.18(mm)
IC 410-22758/3		07/15/2020 13:56	1	LG0652.D	DB-5MS 20m 0.18 0.18(mm)
IC 410-22758/4		07/15/2020 14:26	1	LG0653.D	DB-5MS 20m 0.18 0.18(mm)
IC 410-22758/5		07/15/2020 14:55	1	LG0654.D	DB-5MS 20m 0.18 0.18(mm)
IC 410-22758/6		07/15/2020 15:24	1	LG0655.D	DB-5MS 20m 0.18 0.18(mm)
IC 410-22758/7		07/15/2020 15:53	1	LG0656.D	DB-5MS 20m 0.18 0.18(mm)
IC 410-22758/8		07/15/2020 16:22	1	LG0657.D	DB-5MS 20m 0.18 0.18(mm)
IC 410-22758/9		07/15/2020 16:51	1	LG0658.D	DB-5MS 20m 0.18 0.18(mm)
ICVL 410-22758/10		07/15/2020 17:20	1		DB-5MS 20m 0.18 0.18(mm)
ICVL 410-22758/11		07/15/2020 17:49	1		DB-5MS 20m 0.18 0.18(mm)
ICV 410-22758/12		07/15/2020 18:18	1	LG0661.D	DB-5MS 20m 0.18 0.18(mm)
ICV 410-22758/13		07/15/2020 18:47	1	LG0662.D	DB-5MS 20m 0.18 0.18(mm)
ICV 410-22758/14		07/15/2020 19:16	1	LG0663.D	DB-5MS 20m 0.18 0.18(mm)
ICV 410-22758/15		07/15/2020 19:45	1	LG0664.D	DB-5MS 20m 0.18 0.18(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1

SDG No.:

Instrument ID: HP20296 Start Date: 10/05/2020 20:52

Analysis Batch Number: 51042 End Date: 10/06/2020 00:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-51042/1		10/05/2020 20:52	1	LJ0100b.D	DB-5MS 20m 0.18 0.18(mm)
CCVIS 410-51042/2		10/05/2020 21:46	1	LJ0101b.D	DB-5MS 20m 0.18 0.18(mm)
MB 410-50732/1-A		10/05/2020 22:28	1	LJ0102.D	DB-5MS 20m 0.18 0.18(mm)
LCS 410-50732/2-A		10/05/2020 22:57	1	LJ0103.D	DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/05/2020 23:25	1		DB-5MS 20m 0.18 0.18(mm)
410-15514-3	MW-10D-20200928	10/05/2020 23:55	1	LJ0105.D	DB-5MS 20m 0.18 0.18(mm)
410-15514-3 MS	MW-10D-20200928 MS	10/06/2020 00:24	1	LJ0106.D	DB-5MS 20m 0.18 0.18(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15514-1

SDG No.:

Instrument ID: HP20296 Start Date: 10/06/2020 17:57

Analysis Batch Number: 51485 End Date: 10/07/2020 05:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-51485/1		10/06/2020 17:57	1	LJ0150.D	DB-5MS 20m 0.18 0.18(mm)
CCVIS 410-51485/2		10/06/2020 18:15	1	LJ0151.D	DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/06/2020 19:02	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/06/2020 19:31	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/06/2020 20:00	1		DB-5MS 20m 0.18 0.18(mm)
410-15514-3 MSD	MW-10D-20200928 MSD	10/06/2020 20:29	1	LJ0155.D	DB-5MS 20m 0.18 0.18(mm)
410-15514-1	MW-1-20200928	10/06/2020 20:59	1	LJ0156.D	DB-5MS 20m 0.18 0.18(mm)
410-15514-2	MW-10S-20200928	10/06/2020 21:28	1	LJ0157.D	DB-5MS 20m 0.18 0.18(mm)
410-15514-4	MW-7S-20200928	10/06/2020 21:57	1	LJ0158.D	DB-5MS 20m 0.18 0.18(mm)
410-15514-5	MW-7D-20200928	10/06/2020 22:26	1	LJ0159.D	DB-5MS 20m 0.18 0.18(mm)
410-15514-6	MW-8S-20200928	10/06/2020 22:55	1	LJ0160.D	DB-5MS 20m 0.18 0.18(mm)
410-15514-7	MW-8D-20200929	10/06/2020 23:25	1	LJ0161.D	DB-5MS 20m 0.18 0.18(mm)
410-15514-8	MW-14S-20200929	10/06/2020 23:54	1	LJ0162.D	DB-5MS 20m 0.18 0.18(mm)
410-15514-9	MW-14D-20200929	10/07/2020 00:23	1	LJ0163.D	DB-5MS 20m 0.18 0.18(mm)
410-15514-10	FB-20200929	10/07/2020 00:52	1	LJ0164.D	DB-5MS 20m 0.18 0.18(mm)
410-15514-11	MW-12S-20200929	10/07/2020 01:21	1	LJ0165.D	DB-5MS 20m 0.18 0.18(mm)
410-15514-12	MW-12D-20200929	10/07/2020 01:50	1	LJ0166.D	DB-5MS 20m 0.18 0.18(mm)
410-15514-13	MW-4S-20200929	10/07/2020 02:20	1	LJ0167.D	DB-5MS 20m 0.18 0.18(mm)
410-15514-14	MW-4D-20200929	10/07/2020 02:49	1	LJ0168.D	DB-5MS 20m 0.18 0.18(mm)
410-15514-15	MW-11S-20200929	10/07/2020 03:18	1	LJ0169.D	DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/07/2020 03:47	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/07/2020 04:16	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/07/2020 04:45	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/07/2020 05:14	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/07/2020 05:43	1		DB-5MS 20m 0.18 0.18(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-15514-1

SDG No.:

Batch Number: 50732 Batch Start Date: 10/05/20 09:20 Batch Analyst: Ruth, Joshua R

Batch Method: 3510C Batch End Date: 10/05/20 15:05

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	SecondAdjustpH	OP_MINIBNA_SS 00022
MB 410-50732/1		3510C, 8270D		250 mL	1 mL	n/a SU	>11 SU	<2 SU	1 mL
LCS 410-50732/2		3510C, 8270D		250 mL	1 mL	n/a SU	>11 SU	<2 SU	1 mL
410-15514-D-3 MS	MW-10D-20200928	3510C, 8270D	T	248 mL	1 mL	n/a SU	>11 SU	<2 SU	1 mL
410-15514-D-3 MSD	MW-10D-20200928	3510C, 8270D	T	245 mL	1 mL	n/a SU	>11 SU	<2 SU	1 mL
410-15514-D-1	MW-1-20200928	3510C, 8270D	T	246 mL	1 mL	n/a SU	>11 SU	<2 SU	1 mL
410-15514-D-2	MW-10S-20200928	3510C, 8270D	T	244 mL	1 mL	n/a SU	>11 SU	<2 SU	1 mL
410-15514-D-3	MW-10D-20200928	3510C, 8270D	T	249 mL	1 mL	n/a SU	>11 SU	<2 SU	1 mL
410-15514-D-4	MW-7S-20200928	3510C, 8270D	T	245 mL	1 mL	n/a SU	>11 SU	<2 SU	1 mL
410-15514-D-5	MW-7D-20200928	3510C, 8270D	T	245 mL	1 mL	n/a SU	>11 SU	<2 SU	1 mL
410-15514-D-6	MW-8S-20200928	3510C, 8270D	T	244 mL	1 mL	n/a SU	>11 SU	<2 SU	1 mL
410-15514-D-7	MW-8D-20200929	3510C, 8270D	T	248 mL	1 mL	n/a SU	>11 SU	<2 SU	1 mL
410-15514-D-8	MW-14S-20200929	3510C, 8270D	T	250 mL	1 mL	n/a SU	>11 SU	<2 SU	1 mL
410-15514-D-9	MW-14D-20200929	3510C, 8270D	T	250 mL	1 mL	n/a SU	>11 SU	<2 SU	1 mL
410-15514-D-10	FB-20200929	3510C, 8270D	T	251 mL	1 mL	n/a SU	>11 SU	<2 SU	1 mL
410-15514-D-11	MW-12S-20200929	3510C, 8270D	T	246 mL	1 mL	n/a SU	>11 SU	<2 SU	1 mL
410-15514-D-12	MW-12D-20200929	3510C, 8270D	T	244 mL	1 mL	n/a SU	>11 SU	<2 SU	1 mL
410-15514-D-13	MW-4S-20200929	3510C, 8270D	T	242 mL	1 mL	n/a SU	>11 SU	<2 SU	1 mL
410-15514-D-14	MW-4D-20200929	3510C, 8270D	T	246 mL	1 mL	n/a SU	>11 SU	<2 SU	1 mL
410-15514-D-15	MW-11S-20200929	3510C, 8270D	T	250 mL	1 mL	n/a SU	>11 SU	<2 SU	1 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	OP_MINLCS1_MS 00040	AnalysisComment				
MB 410-50732/1		3510C, 8270D			Tap H2O				
LCS 410-50732/2		3510C, 8270D		1 mL	Tap H2O				
410-15514-D-3 MS	MW-10D-20200928	3510C, 8270D	T	1 mL	Clear				
410-15514-D-3 MSD	MW-10D-20200928	3510C, 8270D	T	1 mL	Clear				
410-15514-D-1	MW-1-20200928	3510C, 8270D	T		Tan Tint				
410-15514-D-2	MW-10S-20200928	3510C, 8270D	T		Tan Tint				
410-15514-D-3	MW-10D-20200928	3510C, 8270D	T		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.: 410-15514-1

SDG No.:

Batch Number: 50732 Batch Start Date: 10/05/20 09:20 Batch Analyst: Ruth, Joshua R

Batch Method: 3510C Batch End Date: 10/05/20 15:05

Lab Sample ID	Client Sample ID	Method Chain	Basis	OP_MINLCS1_MS 00040	AnalysisComment				
410-15514-D-4	MW-7S-20200928	3510C, 8270D	T		Tan Tint				
410-15514-D-5	MW-7D-20200928	3510C, 8270D	T		Clear				
410-15514-D-6	MW-8S-20200928	3510C, 8270D	T		Tan Tint				
410-15514-D-7	MW-8D-20200929	3510C, 8270D	T		Clear				
410-15514-D-8	MW-14S-20200929	3510C, 8270D	T		Clear				
410-15514-D-9	MW-14D-20200929	3510C, 8270D	T		Tan Tint				
410-15514-D-10	FB-20200929	3510C, 8270D	T		Clear				
410-15514-D-11	MW-12S-20200929	3510C, 8270D	T		Clear				
410-15514-D-12	MW-12D-20200929	3510C, 8270D	T		Clear				
410-15514-D-13	MW-4S-20200929	3510C, 8270D	T		Tan Cloudy				
410-15514-D-14	MW-4D-20200929	3510C, 8270D	T		Clear				
410-15514-D-15	MW-11S-20200929	3510C, 8270D	T		Tan Tint				

Batch Notes	
Acid Used for pH Adjustment ID	H2SO4 194547
Balance ID	25996
Base Used to Adjust pH ID	NaOH 4005E31
Analyst ID - Concentration	JSR12366
Equipment ID - Concentration 1	RVAP 4, 5, 3
Analyst ID - Extraction	JSR12366
Na2SO4 ID	20274A
Pipette/Syringe/Dispenser ID	1
Prep Solvent ID	MeCl2 205042
Prep Solvent Volume Used	90 mL
Analyst ID - Spike Analyst	JSR12366
Concentration 1 Uncorrected Temperature	90 Degrees C

Basis	Basis Description
T	Total/NA

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

Shipping and Receiving Documents

Environmental Analysis Reque ... dy

eurofins | Lancaster Laboratories Environmental

For Eurofi ... Acct. # _____ Group _____

410-15514 Chain of Custody

COC # 613439

Client Information

Client: Brown and Caldwell	Acct. #:
Project Name/#: Patchogue	PWSID #:
Project Manager: Jim Marolda	P.O. #:
Sampler: RES/RNP	Quote #:
State where samples were collected: NY	For Compliance: Yes ☐ No ☐

Matrix

Soil ☐ Sediment ☐ Tissue ☐ | Water ☒ Potable ☐ Ground ☐ NPDES ☐ Surface ☐ | Other: DI water

Analysis Requested

Preservation and Filtration Codes: H

Sample Identification	Collected Date	Collected Time	Grab	Composite	Total # of Containers	BTEX/MTBE (8260)	PAHs (8270 SIM)	Remarks
MW-1-20200928	9/28/20	1121	X		5	X	X	
MW-10S-20200928		1321	X		5	X	X	
MW-10D-20200928		1357	X		5	X	X	MS/MSD
MW-7S-20200928		1502	X		5	X	X	
MW-7D-20200928		1540	X		5	X	X	
MW-8S-20200928		1632	X		5	X	X	
MW-8D-20200929	9/29/20	0827	X		5	X	X	
MW-14S-20200929		0918	X		5	X	X	
MW-14D-20200929		0958	X		5	X	X	
FB-20200929		1010	X		5	X	X	

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 P=H_3PO_4
F=Field Filtered O=Other

For Lab Use Only
FSC: _____
SCR#: _____

Turnaround Time (TAT) Requested (please circle)

Standard Rush

(Rush TAT is subject to laboratory approval and surcharge.)

Requested TAT in business days: _____

E-mail address: JMarolda@brwncald.com

Data Package Options (circle if required)

Type I (EPA Level 3 Equivalent/non-CLP) | Type VI (Raw Data Only)
Type III (Reduced non-CLP) | NJ DKQP | TX TRRP-13
NYSDEC Category A or B | MA MCP | CT RCP

Relinquished by	Date	Time	Received by	Date	Time
Rachel Randale	9/29/20	1600			
				9/30/20	1034

EDD Required? Yes No
If yes, format: BCEQuIS

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____

Temperature upon receipt 3.0 °C

Environmental Analysis Request/Chain of Custody

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For Eurofins Lancaster Laboratories Environmental use only

Acct. # _____ Group # _____ Sample # _____

COC #613440

Client Information

Client: Brown and Caldwell
Project Name/#: Patchogue
Project Manager: Jim Marolda
Sampler: RES / RNP
State where samples were collected: NY
For Compliance: Yes ☐ No ☐
Acct. #:
PWSID #:
P.O. #:
Quote #:

Matrix

Soil ☐ Sediment ☐ Tissue ☐ | Water ☒ Potable ☐ Ground ☐ NPDES ☐ Surface ☐ | Other: DI water

Analysis Requested

Preservation and Filtration Codes

For Lab Use Only

FSC: _____
SCR#: _____

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 P=H_3PO_4
F=Field Filtered O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Soil	Sediment	Tissue	Potable	Ground	NPDES	Surface	Water	Other	Total # of Containers	BETEX / MTBE (8260) H	PAHs (8270 SIM)	Remarks
MW-12S-20200929	9/29/20	1055	X									X		5	X	X	
MW-12D-20200929		1133	X									X		5	X	X	
MW-4S-20200929		1310	X									X		5	X	X	
MW-4D-20200929		1349	X									X		5	X	X	
MW-11S-20200929		1453	X									X		5	X	X	11
TB-20200929		—	X										X	2	X		

Turnaround Time (TAT) Requested (please circle)
~~Standard~~ Rush
(Rush TAT is subject to laboratory approval and surcharge.)

Requested TAT in business days: _____

E-mail address: JMarolda@brwncald.com

Data Package Options (circle if required)

Type I (EPA Level 3 Equivalent/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) NJ DKQP TX TRRP-13
NYSDEC Category A or (B) MA MCP CT RCP

Relinquished by	Date	Time	Received by	Date	Time
Rachel Scanlon	9/29/20	1600			
			MP	9/30/20	1034

EDD Required? Yes No
If yes, format: PC Excel

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS _____ FedEx X Other _____

Temperature upon receipt 3.0 °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • FOR HELP COMPLETING FORM CHECK OUT https://www.eurofinsus.com/coc

The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 0919

10/08/2020

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 410-15514-1

Login Number: 15514
List Number: 1
Creator: Reiff, Nicole L

List Source: Eurofins Lancaster Laboratories Env

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=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.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	

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ANALYTICAL REPORT

Job Number: 410-15639-1

Job Description: Patchogue, NY

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

Attention: Mr. James L Marolda

Approved for release.
Barbara A Weyandt
Project Manager
10/14/2020 4:15 PM

Barbara A Weyandt, Project Manager
2425 New Holland Pike, Lancaster, PA, 17601
(717)556-7264
barbaraweyandt@eurofinsus.com
10/14/2020

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: 410-15639-1

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 recoveries that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result.

* 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 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.

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Job Narrative
410-15639-1

Receipt
The samples were received on 10/1/2020 10:35 AM; the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C

Receipt Exceptions
The following sample(s) was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): 2 250ml aber glass unpreserved & 3 HCl vials were received. Collected on 09/30/20 at 00:00. DUP-20200930 (410-15639-6)

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): MW-3-20200930 (410-15639-2). The container labels list MW-20200930, while the COC lists MW-3-20200930.

The COC lists that 5 containers should have been received. When received at the lab, we only received 2 HCl vials.

TB-20200930 (410-15639-5)

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

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

Sample Summary

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

Job ID: 410-15639-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-15639-1	MW-11D-20200930	Ground Water	09/30/20 08:25	10/01/20 10:35	
410-15639-2	MW-3-20200930	Ground Water	09/30/20 09:16	10/01/20 10:35	
410-15639-3	MW-13S-20200930	Ground Water	09/30/20 10:05	10/01/20 10:35	
410-15639-4	MW-13D-20200930	Ground Water	09/30/20 10:47	10/01/20 10:35	
410-15639-5	TB-20200930	Water	09/30/20 00:00	10/01/20 10:35	
410-15639-6	DUP-20200930	Ground Water	09/30/20 00:00	10/01/20 10:35	

Detection Summary

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

Job ID: 410-15639-1

Client Sample ID: MW-11D-20200930 — Lab Sample ID: 410-15639-1

No Detections.

Client Sample ID: MW-3-20200930 — Lab Sample ID: 410-15639-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.3		1.0	0.20	ug/L	1		8260C	Total/NA
Ethylbenzene	8.6		1.0	0.40	ug/L	1		8260C	Total/NA
Toluene	1.3		1.0	0.20	ug/L	1		8260C	Total/NA
Xylenes, Total	9.2		6.0	1.4	ug/L	1		8260C	Total/NA
Acenaphthene	46		0.51	0.10	ug/L	1		8270D	Total/NA
Acenaphthylene	7.7		0.51	0.10	ug/L	1		8270D	Total/NA
Anthracene	1.7		0.51	0.10	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	4.8		0.51	0.10	ug/L	1		8270D	Total/NA
Chrysene	3.1		0.51	0.10	ug/L	1		8270D	Total/NA
Fluoranthene	23		0.51	0.10	ug/L	1		8270D	Total/NA
Fluorene	9.7		0.51	0.10	ug/L	1		8270D	Total/NA
Phenanthrene	5.4		0.51	0.10	ug/L	1		8270D	Total/NA
Pyrene	35		0.51	0.10	ug/L	1		8270D	Total/NA
Naphthalene - DL	200		5.1	1.0	ug/L	10		8270D	Total/NA

Client Sample ID: MW-13S-20200930 — Lab Sample ID: 410-15639-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.8		1.0	0.20	ug/L	1		8260C	Total/NA
Ethylbenzene	12		1.0	0.40	ug/L	1		8260C	Total/NA
Toluene	1.4		1.0	0.20	ug/L	1		8260C	Total/NA
Xylenes, Total	10		6.0	1.4	ug/L	1		8260C	Total/NA
Acenaphthene	79		0.51	0.10	ug/L	1		8270D	Total/NA
Acenaphthylene	3.6		0.51	0.10	ug/L	1		8270D	Total/NA
Anthracene	11		0.51	0.10	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	2.4		0.51	0.10	ug/L	1		8270D	Total/NA
Chrysene	1.3		0.51	0.10	ug/L	1		8270D	Total/NA
Fluoranthene	11		0.51	0.10	ug/L	1		8270D	Total/NA
Fluorene	30		0.51	0.10	ug/L	1		8270D	Total/NA
Phenanthrene	82		0.51	0.10	ug/L	1		8270D	Total/NA
Pyrene	17		0.51	0.10	ug/L	1		8270D	Total/NA
Naphthalene - DL	230		5.1	1.0	ug/L	10		8270D	Total/NA

Client Sample ID: MW-13D-20200930 — Lab Sample ID: 410-15639-4

No Detections.

Client Sample ID: TB-20200930 — Lab Sample ID: 410-15639-5

No Detections.

Client Sample ID: DUP-20200930 — Lab Sample ID: 410-15639-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.4		1.0	0.20	ug/L	1		8260C	Total/NA
Ethylbenzene	9.0		1.0	0.40	ug/L	1		8260C	Total/NA
Toluene	1.4		1.0	0.20	ug/L	1		8260C	Total/NA
Xylenes, Total	9.7		6.0	1.4	ug/L	1		8260C	Total/NA
Acenaphthene	47		0.51	0.10	ug/L	1		8270D	Total/NA
Acenaphthylene	7.6		0.51	0.10	ug/L	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-20200930 (Continued)

Lab Sample ID: 410-15639-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	1.6		0.51	0.10	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	4.8		0.51	0.10	ug/L	1		8270D	Total/NA
Chrysene	2.5		0.51	0.10	ug/L	1		8270D	Total/NA
Fluoranthene	23		0.51	0.10	ug/L	1		8270D	Total/NA
Fluorene	10		0.51	0.10	ug/L	1		8270D	Total/NA
Phenanthrene	5.9		0.51	0.10	ug/L	1		8270D	Total/NA
Pyrene	35		0.51	0.10	ug/L	1		8270D	Total/NA
Naphthalene - DL	200		5.1	1.0	ug/L	10		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 410-15639-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8270D	Semivolatile Organic Compounds (GC/MS)	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-11D-20200930

Lab Sample ID: 410-15639-1

Date Collected: 09/30/20 08:25
Matrix: Ground Water
Date Received: 10/01/20 10:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.20	ug/L			10/06/20 21:36	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/06/20 21:36	1
Toluene	ND		1.0	0.20	ug/L			10/06/20 21:36	1
Xylenes, Total	ND		6.0	1.4	ug/L			10/06/20 21:36	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/06/20 21:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*10/06/20 21:36*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*10/06/20 21:36*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*10/06/20 21:36*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/06/20 21:36*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 03:47	1
Acenaphthylene	ND		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 03:47	1
Anthracene	ND		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 03:47	1
Benzo[a]anthracene	ND		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 03:47	1
Benzo[a]pyrene	ND		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 03:47	1
Benzo[b]fluoranthene	ND		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 03:47	1
Benzo[g,h,i]perylene	ND		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 03:47	1
Benzo[k]fluoranthene	ND		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 03:47	1
Chrysene	ND		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 03:47	1
Dibenz(a,h)anthracene	ND		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 03:47	1
Fluoranthene	ND		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 03:47	1
Fluorene	ND		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 03:47	1
Indeno[1,2,3-cd]pyrene	ND		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 03:47	1
Naphthalene	ND		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 03:47	1
Phenanthrene	ND		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 03:47	1
Pyrene	ND		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 03:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*75*		*44 - 102*	*10/06/20 09:00*	*10/07/20 03:47*	*1*
Nitrobenzene-d5 (Surr)	*87*		*38 - 113*	*10/06/20 09:00*	*10/07/20 03:47*	*1*
p-Terphenyl-d14 (Surr)	*56*		*34 - 128*	*10/06/20 09:00*	*10/07/20 03:47*	*1*

Client Sample ID: MW-3-20200930

Lab Sample ID: 410-15639-2

Date Collected: 09/30/20 09:16
Matrix: Ground Water
Date Received: 10/01/20 10:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.3**		1.0	0.20	ug/L			10/07/20 01:59	1
Ethylbenzene	**8.6**		1.0	0.40	ug/L			10/07/20 01:59	1
Toluene	**1.3**		1.0	0.20	ug/L			10/07/20 01:59	1
Xylenes, Total	**9.2**		6.0	1.4	ug/L			10/07/20 01:59	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/07/20 01:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*10/07/20 01:59*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*10/07/20 01:59*	*1*

Client Sample ID: MW-3-20200930

Date Collected: 09/30/20 09:16
Date Received: 10/01/20 10:35

Lab Sample ID: 410-15639-2
Matrix: Ground Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*10/07/20 01:59*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/07/20 01:59*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**46**		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 04:16	1
Acenaphthylene	**7.7**		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 04:16	1
Anthracene	**1.7**		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 04:16	1
Benzo[a]anthracene	**4.8**		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 04:16	1
Benzo[a]pyrene	ND		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 04:16	1
Benzo[b]fluoranthene	ND		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 04:16	1
Benzo[g,h,i]perylene	ND		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 04:16	1
Benzo[k]fluoranthene	ND		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 04:16	1
Chrysene	**3.1**		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 04:16	1
Dibenz(a,h)anthracene	ND		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 04:16	1
Fluoranthene	**23**		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 04:16	1
Fluorene	**9.7**		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 04:16	1
Indeno[1,2,3-cd]pyrene	ND		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 04:16	1
Phenanthrene	**5.4**		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 04:16	1
Pyrene	**35**		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 04:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*73*		*44 - 102*	*10/06/20 09:00*	*10/07/20 04:16*	*1*
Nitrobenzene-d5 (Surr)	*85*		*38 - 113*	*10/06/20 09:00*	*10/07/20 04:16*	*1*
p-Terphenyl-d14 (Surr)	*77*		*34 - 128*	*10/06/20 09:00*	*10/07/20 04:16*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**200**		5.1	1.0	ug/L		10/06/20 09:00	10/07/20 15:09	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*70*		*44 - 102*	*10/06/20 09:00*	*10/07/20 15:09*	*10*
Nitrobenzene-d5 (Surr)	*83*		*38 - 113*	*10/06/20 09:00*	*10/07/20 15:09*	*10*
p-Terphenyl-d14 (Surr)	*69*		*34 - 128*	*10/06/20 09:00*	*10/07/20 15:09*	*10*

Client Sample ID: MW-13S-20200930

Date Collected: 09/30/20 10:05
Date Received: 10/01/20 10:35

Lab Sample ID: 410-15639-3
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2.8**		1.0	0.20	ug/L			10/07/20 02:44	1
Ethylbenzene	**12**		1.0	0.40	ug/L			10/07/20 02:44	1
Toluene	**1.4**		1.0	0.20	ug/L			10/07/20 02:44	1
Xylenes, Total	**10**		6.0	1.4	ug/L			10/07/20 02:44	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/07/20 02:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*10/07/20 02:44*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*10/07/20 02:44*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*10/07/20 02:44*	*1*

Client Sample ID: MW-13S-20200930

Date Collected: 09/30/20 10:05
Date Received: 10/01/20 10:35

Lab Sample ID: 410-15639-3

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*		*10/07/20 02:44*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**79**		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 04:45	1
Acenaphthylene	**3.6**		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 04:45	1
Anthracene	**11**		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 04:45	1
Benzo[a]anthracene	**2.4**		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 04:45	1
Benzo[a]pyrene	ND		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 04:45	1
Benzo[b]fluoranthene	ND		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 04:45	1
Benzo[g,h,i]perylene	ND		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 04:45	1
Benzo[k]fluoranthene	ND		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 04:45	1
Chrysene	**1.3**		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 04:45	1
Dibenz(a,h)anthracene	ND		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 04:45	1
Fluoranthene	**11**		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 04:45	1
Fluorene	**30**		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 04:45	1
Indeno[1,2,3-cd]pyrene	ND		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 04:45	1
Phenanthrene	**82**		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 04:45	1
Pyrene	**17**		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 04:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*74*		*44 - 102*	*10/06/20 09:00*	*10/07/20 04:45*	*1*
Nitrobenzene-d5 (Surr)	*85*		*38 - 113*	*10/06/20 09:00*	*10/07/20 04:45*	*1*
p-Terphenyl-d14 (Surr)	*68*		*34 - 128*	*10/06/20 09:00*	*10/07/20 04:45*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**230**		5.1	1.0	ug/L		10/06/20 09:00	10/07/20 15:38	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*74*		*44 - 102*	*10/06/20 09:00*	*10/07/20 15:38*	*10*
Nitrobenzene-d5 (Surr)	*77*		*38 - 113*	*10/06/20 09:00*	*10/07/20 15:38*	*10*
p-Terphenyl-d14 (Surr)	*69*		*34 - 128*	*10/06/20 09:00*	*10/07/20 15:38*	*10*

Client Sample ID: MW-13D-20200930

Date Collected: 09/30/20 10:47
Date Received: 10/01/20 10:35

Lab Sample ID: 410-15639-4

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	0.20	ug/L			10/06/20 21:58	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/06/20 21:58	1
Toluene	ND		1.0	0.20	ug/L			10/06/20 21:58	1
Xylenes, Total	ND		6.0	1.4	ug/L			10/06/20 21:58	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/06/20 21:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*10/06/20 21:58*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*10/06/20 21:58*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*10/06/20 21:58*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/06/20 21:58*	*1*

Client Sample ID: MW-13D-20200930

Lab Sample ID: 410-15639-4

Date Collected: 09/30/20 10:47
Matrix: Ground Water
Date Received: 10/01/20 10:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.10	ug/L		10/06/20 09:00	10/07/20 05:14	1
Acenaphthylene	ND		0.50	0.10	ug/L		10/06/20 09:00	10/07/20 05:14	1
Anthracene	ND		0.50	0.10	ug/L		10/06/20 09:00	10/07/20 05:14	1
Benzo[a]anthracene	ND		0.50	0.10	ug/L		10/06/20 09:00	10/07/20 05:14	1
Benzo[a]pyrene	ND		0.50	0.10	ug/L		10/06/20 09:00	10/07/20 05:14	1
Benzo[b]fluoranthene	ND		0.50	0.10	ug/L		10/06/20 09:00	10/07/20 05:14	1
Benzo[g,h,i]perylene	ND		0.50	0.10	ug/L		10/06/20 09:00	10/07/20 05:14	1
Benzo[k]fluoranthene	ND		0.50	0.10	ug/L		10/06/20 09:00	10/07/20 05:14	1
Chrysene	ND		0.50	0.10	ug/L		10/06/20 09:00	10/07/20 05:14	1
Dibenz(a,h)anthracene	ND		0.50	0.10	ug/L		10/06/20 09:00	10/07/20 05:14	1
Fluoranthene	ND		0.50	0.10	ug/L		10/06/20 09:00	10/07/20 05:14	1
Fluorene	ND		0.50	0.10	ug/L		10/06/20 09:00	10/07/20 05:14	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.10	ug/L		10/06/20 09:00	10/07/20 05:14	1
Naphthalene	ND		0.50	0.10	ug/L		10/06/20 09:00	10/07/20 05:14	1
Phenanthrene	ND		0.50	0.10	ug/L		10/06/20 09:00	10/07/20 05:14	1
Pyrene	ND		0.50	0.10	ug/L		10/06/20 09:00	10/07/20 05:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*44 - 102*	*10/06/20 09:00*	*10/07/20 05:14*	*1*
Nitrobenzene-d5 (Surr)	*81*		*38 - 113*	*10/06/20 09:00*	*10/07/20 05:14*	*1*
p-Terphenyl-d14 (Surr)	*62*		*34 - 128*	*10/06/20 09:00*	*10/07/20 05:14*	*1*

Client Sample ID: TB-20200930

Lab Sample ID: 410-15639-5

Date Collected: 09/30/20 00:00
Matrix: Water
Date Received: 10/01/20 10:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.20	ug/L			10/06/20 20:52	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/06/20 20:52	1
Toluene	ND		1.0	0.20	ug/L			10/06/20 20:52	1
Xylenes, Total	ND		6.0	1.4	ug/L			10/06/20 20:52	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/06/20 20:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*10/06/20 20:52*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*10/06/20 20:52*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*10/06/20 20:52*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/06/20 20:52*	*1*

Client Sample ID: DUP-20200930

Lab Sample ID: 410-15639-6

Date Collected: 09/30/20 00:00
Matrix: Ground Water
Date Received: 10/01/20 10:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.4**		1.0	0.20	ug/L			10/07/20 03:28	1
Ethylbenzene	**9.0**		1.0	0.40	ug/L			10/07/20 03:28	1
Toluene	**1.4**		1.0	0.20	ug/L			10/07/20 03:28	1
Xylenes, Total	**9.7**		6.0	1.4	ug/L			10/07/20 03:28	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/07/20 03:28	1

Client Sample ID: DUP-20200930

Date Collected: 09/30/20 00:00
Date Received: 10/01/20 10:35

Lab Sample ID: 410-15639-6

Matrix: Ground Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*10/07/20 03:28*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*10/07/20 03:28*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*10/07/20 03:28*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/07/20 03:28*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**47**		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 05:43	1
Acenaphthylene	**7.6**		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 05:43	1
Anthracene	**1.6**		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 05:43	1
Benzo[a]anthracene	**4.8**		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 05:43	1
Benzo[a]pyrene	ND		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 05:43	1
Benzo[b]fluoranthene	ND		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 05:43	1
Benzo[g,h,i]perylene	ND		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 05:43	1
Benzo[k]fluoranthene	ND		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 05:43	1
Chrysene	**2.5**		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 05:43	1
Dibenz(a,h)anthracene	ND		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 05:43	1
Fluoranthene	**23**		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 05:43	1
Fluorene	**10**		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 05:43	1
Indeno[1,2,3-cd]pyrene	ND		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 05:43	1
Phenanthrene	**5.9**		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 05:43	1
Pyrene	**35**		0.51	0.10	ug/L		10/06/20 09:00	10/07/20 05:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*44 - 102*	*10/06/20 09:00*	*10/07/20 05:43*	*1*
Nitrobenzene-d5 (Surr)	*90*		*38 - 113*	*10/06/20 09:00*	*10/07/20 05:43*	*1*
p-Terphenyl-d14 (Surr)	*72*		*34 - 128*	*10/06/20 09:00*	*10/07/20 05:43*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**200**		5.1	1.0	ug/L		10/06/20 09:00	10/07/20 19:06	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*75*		*44 - 102*	*10/06/20 09:00*	*10/07/20 19:06*	*10*
Nitrobenzene-d5 (Surr)	*85*		*38 - 113*	*10/06/20 09:00*	*10/07/20 19:06*	*10*
p-Terphenyl-d14 (Surr)	*66*		*34 - 128*	*10/06/20 09:00*	*10/07/20 19:06*	*10*

Surrogate Summary

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

Job ID: 410-15639-1

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)
410-15639-1	MW-11D-20200930	101	94	99	96
410-15639-2	MW-3-20200930	101	96	100	96
410-15639-3	MW-13S-20200930	100	97	99	96
410-15639-4	MW-13D-20200930	101	93	99	97
410-15639-6	DUP-20200930	100	97	98	97

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)
410-15639-5	TB-20200930	100	94	97	97
LCS 410-51457/4	Lab Control Sample	98	97	98	98
LCSD 410-51457/5	Lab Control Sample Dup	99	98	98	98
MB 410-51457/7	Method Blank	100	93	98	97

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(44-102)	(38-113)	(34-128)
410-15639-1	MW-11D-20200930	75	87	56
410-15639-2	MW-3-20200930	73	85	77
410-15639-2 - DL	MW-3-20200930	70	83	69
410-15639-3	MW-13S-20200930	74	85	68
410-15639-3 - DL	MW-13S-20200930	74	77	69
410-15639-4	MW-13D-20200930	71	81	62
410-15639-6	DUP-20200930	76	90	72
410-15639-6 - DL	DUP-20200930	75	85	66

Surrogate Legend

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

Surrogate Summary

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

Job ID: 410-15639-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(44-102)	(38-113)	(34-128)
LCS 410-51208/2-A	Lab Control Sample	83	95	81
LCSD 410-51208/3-A	Lab Control Sample Dup	83	95	82
MB 410-51208/1-A	Method Blank	73	88	74

Surrogate Legend

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

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

Lab Sample ID: MB 410-51457/7
Matrix: Water
Analysis Batch: 51457

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	0.20	ug/L			10/06/20 20:08	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/06/20 20:08	1
Toluene	ND		1.0	0.20	ug/L			10/06/20 20:08	1
Xylenes, Total	ND		6.0	1.4	ug/L			10/06/20 20:08	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			10/06/20 20:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*10/06/20 20:08*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*10/06/20 20:08*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*10/06/20 20:08*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/06/20 20:08*	*1*

Lab Sample ID: LCS 410-51457/4
Matrix: Water
Analysis Batch: 51457

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			20.0	19.6		ug/L		98	80 - 120		
Ethylbenzene			20.0	19.9		ug/L		99	80 - 120		
Toluene			20.0	19.6		ug/L		98	80 - 120		
Xylenes, Total			60.0	59.7		ug/L		100	80 - 120		
Methyl tertiary butyl ether			20.0	19.4		ug/L		97	69 - 122		

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

Lab Sample ID: LCSD 410-51457/5
Matrix: Water
Analysis Batch: 51457

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			20.0	20.0		ug/L		100	80 - 120	2	30
Ethylbenzene			20.0	20.0		ug/L		100	80 - 120	1	30
Toluene			20.0	19.8		ug/L		99	80 - 120	1	30
Xylenes, Total			60.0	60.1		ug/L		100	80 - 120	1	30
Methyl tertiary butyl ether			20.0	19.9		ug/L		99	69 - 122	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

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

Lab Sample ID: MB 410-51208/1-A
Matrix: Water
Analysis Batch: 51485

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 51208

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.10	ug/L		10/06/20 09:00	10/06/20 19:02	1
Acenaphthylene	ND		0.50	0.10	ug/L		10/06/20 09:00	10/06/20 19:02	1
Anthracene	ND		0.50	0.10	ug/L		10/06/20 09:00	10/06/20 19:02	1
Benzo[a]anthracene	ND		0.50	0.10	ug/L		10/06/20 09:00	10/06/20 19:02	1
Benzo[a]pyrene	ND		0.50	0.10	ug/L		10/06/20 09:00	10/06/20 19:02	1
Benzo[b]fluoranthene	ND		0.50	0.10	ug/L		10/06/20 09:00	10/06/20 19:02	1
Benzo[g,h,i]perylene	ND		0.50	0.10	ug/L		10/06/20 09:00	10/06/20 19:02	1
Benzo[k]fluoranthene	ND		0.50	0.10	ug/L		10/06/20 09:00	10/06/20 19:02	1
Chrysene	ND		0.50	0.10	ug/L		10/06/20 09:00	10/06/20 19:02	1
Dibenz(a,h)anthracene	ND		0.50	0.10	ug/L		10/06/20 09:00	10/06/20 19:02	1
Fluoranthene	ND		0.50	0.10	ug/L		10/06/20 09:00	10/06/20 19:02	1
Fluorene	ND		0.50	0.10	ug/L		10/06/20 09:00	10/06/20 19:02	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.10	ug/L		10/06/20 09:00	10/06/20 19:02	1
Naphthalene	ND		0.50	0.10	ug/L		10/06/20 09:00	10/06/20 19:02	1
Phenanthrene	ND		0.50	0.10	ug/L		10/06/20 09:00	10/06/20 19:02	1
Pyrene	ND		0.50	0.10	ug/L		10/06/20 09:00	10/06/20 19:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*44 - 102*	*10/06/20 09:00*	*10/06/20 19:02*	*1*
Nitrobenzene-d5 (Surr)	*88*		*38 - 113*	*10/06/20 09:00*	*10/06/20 19:02*	*1*
p-Terphenyl-d14 (Surr)	*74*		*34 - 128*	*10/06/20 09:00*	*10/06/20 19:02*	*1*

Lab Sample ID: LCS 410-51208/2-A
Matrix: Water
Analysis Batch: 51485

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 51208

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	50.1	43.8		ug/L		87	52 - 114
Acenaphthylene	50.2	45.1		ug/L		90	56 - 127
Anthracene	50.1	46.0		ug/L		92	67 - 116
Benzo[a]anthracene	50.0	48.2		ug/L		96	68 - 123
Benzo[a]pyrene	50.2	44.4		ug/L		88	71 - 117
Benzo[b]fluoranthene	50.1	44.5		ug/L		89	69 - 121
Benzo[g,h,i]perylene	50.1	48.9		ug/L		98	60 - 119
Benzo[k]fluoranthene	50.1	45.2		ug/L		90	69 - 122
Chrysene	50.0	44.3		ug/L		89	65 - 121
Dibenz(a,h)anthracene	50.2	49.7		ug/L		99	63 - 128
Fluoranthene	50.1	47.1		ug/L		94	63 - 122
Fluorene	50.1	44.5		ug/L		89	56 - 115
Indeno[1,2,3-cd]pyrene	50.2	47.5		ug/L		95	59 - 123
Naphthalene	50.4	40.1		ug/L		80	51 - 102
Phenanthrene	50.2	47.9		ug/L		95	65 - 113
Pyrene	50.4	45.8		ug/L		91	65 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*83*		*44 - 102*
Nitrobenzene-d5 (Surr)	*95*		*38 - 113*
p-Terphenyl-d14 (Surr)	*81*		*34 - 128*

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

Lab Sample ID: LCSD 410-51208/3-A
Matrix: Water
Analysis Batch: 51485

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 51208

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			50.1	41.4		ug/L		83	52 - 114	6	30
Acenaphthylene			50.2	42.4		ug/L		85	56 - 127	6	30
Anthracene			50.1	43.8		ug/L		87	67 - 116	5	30
Benzo[a]anthracene			50.0	46.0		ug/L		92	68 - 123	5	30
Benzo[a]pyrene			50.2	42.8		ug/L		85	71 - 117	4	30
Benzo[b]fluoranthene			50.1	42.8		ug/L		85	69 - 121	4	30
Benzo[g,h,i]perylene			50.1	47.1		ug/L		94	60 - 119	4	30
Benzo[k]fluoranthene			50.1	43.4		ug/L		87	69 - 122	4	30
Chrysene			50.0	43.3		ug/L		87	65 - 121	2	30
Dibenz(a,h)anthracene			50.2	48.4		ug/L		96	63 - 128	3	30
Fluoranthene			50.1	45.0		ug/L		90	63 - 122	5	30
Fluorene			50.1	41.6		ug/L		83	56 - 115	7	30
Indeno[1,2,3-cd]pyrene			50.2	45.8		ug/L		91	59 - 123	4	30
Naphthalene			50.4	37.8		ug/L		75	51 - 102	6	30
Phenanthrene			50.2	45.1		ug/L		90	65 - 113	6	30
Pyrene			50.4	42.8		ug/L		85	65 - 115	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*83*		*44 - 102*
Nitrobenzene-d5 (Surr)	*95*		*38 - 113*
p-Terphenyl-d14 (Surr)	*82*		*34 - 128*

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: 51457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15639-1	MW-11D-20200930	Total/NA	Ground Water	8260C	
410-15639-2	MW-3-20200930	Total/NA	Ground Water	8260C	
410-15639-3	MW-13S-20200930	Total/NA	Ground Water	8260C	
410-15639-4	MW-13D-20200930	Total/NA	Ground Water	8260C	
410-15639-5	TB-20200930	Total/NA	Water	8260C	
410-15639-6	DUP-20200930	Total/NA	Ground Water	8260C	
MB 410-51457/7	Method Blank	Total/NA	Water	8260C	
LCS 410-51457/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 410-51457/5	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 51208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15639-1	MW-11D-20200930	Total/NA	Ground Water	3510C	
410-15639-2 - DL	MW-3-20200930	Total/NA	Ground Water	3510C	
410-15639-2	MW-3-20200930	Total/NA	Ground Water	3510C	
410-15639-3	MW-13S-20200930	Total/NA	Ground Water	3510C	
410-15639-3 - DL	MW-13S-20200930	Total/NA	Ground Water	3510C	
410-15639-4	MW-13D-20200930	Total/NA	Ground Water	3510C	
410-15639-6 - DL	DUP-20200930	Total/NA	Ground Water	3510C	
410-15639-6	DUP-20200930	Total/NA	Ground Water	3510C	
MB 410-51208/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-51208/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-51208/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 51485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15639-1	MW-11D-20200930	Total/NA	Ground Water	8270D	51208
410-15639-2	MW-3-20200930	Total/NA	Ground Water	8270D	51208
410-15639-3	MW-13S-20200930	Total/NA	Ground Water	8270D	51208
410-15639-4	MW-13D-20200930	Total/NA	Ground Water	8270D	51208
410-15639-6	DUP-20200930	Total/NA	Ground Water	8270D	51208
MB 410-51208/1-A	Method Blank	Total/NA	Water	8270D	51208
LCS 410-51208/2-A	Lab Control Sample	Total/NA	Water	8270D	51208
LCSD 410-51208/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	51208

Analysis Batch: 51653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15639-2 - DL	MW-3-20200930	Total/NA	Ground Water	8270D	51208
410-15639-3 - DL	MW-13S-20200930	Total/NA	Ground Water	8270D	51208

Analysis Batch: 51967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15639-6 - DL	DUP-20200930	Total/NA	Ground Water	8270D	51208

Client Sample ID: MW-11D-20200930
Date Collected: 09/30/20 08:25
Date Received: 10/01/20 10:35

Lab Sample ID: 410-15639-1
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	51457	10/06/20 21:36	TQ4J	ELLE
Total/NA	Prep	3510C			51208	10/06/20 09:00	R9CT	ELLE
Total/NA	Analysis	8270D		1	51485	10/07/20 03:47	SJ89	ELLE

Client Sample ID: MW-3-20200930
Date Collected: 09/30/20 09:16
Date Received: 10/01/20 10:35

Lab Sample ID: 410-15639-2
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	51457	10/07/20 01:59	TQ4J	ELLE
Total/NA	Prep	3510C			51208	10/06/20 09:00	R9CT	ELLE
Total/NA	Analysis	8270D		1	51485	10/07/20 04:16	SJ89	ELLE
Total/NA	Prep	3510C	DL		51208	10/06/20 09:00	R9CT	ELLE
Total/NA	Analysis	8270D	DL	10	51653	10/07/20 15:09	ULM3	ELLE

Client Sample ID: MW-13S-20200930
Date Collected: 09/30/20 10:05
Date Received: 10/01/20 10:35

Lab Sample ID: 410-15639-3
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	51457	10/07/20 02:44	TQ4J	ELLE
Total/NA	Prep	3510C			51208	10/06/20 09:00	R9CT	ELLE
Total/NA	Analysis	8270D		1	51485	10/07/20 04:45	SJ89	ELLE
Total/NA	Prep	3510C	DL		51208	10/06/20 09:00	R9CT	ELLE
Total/NA	Analysis	8270D	DL	10	51653	10/07/20 15:38	ULM3	ELLE

Client Sample ID: MW-13D-20200930
Date Collected: 09/30/20 10:47
Date Received: 10/01/20 10:35

Lab Sample ID: 410-15639-4
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	51457	10/06/20 21:58	TQ4J	ELLE
Total/NA	Prep	3510C			51208	10/06/20 09:00	R9CT	ELLE
Total/NA	Analysis	8270D		1	51485	10/07/20 05:14	SJ89	ELLE

Client Sample ID: TB-20200930
Date Collected: 09/30/20 00:00
Date Received: 10/01/20 10:35

Lab Sample ID: 410-15639-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	51457	10/06/20 20:52	TQ4J	ELLE

Lab Chronicle

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

Job ID: 410-15639-1

Client Sample ID: DUP-20200930

Date Collected: 09/30/20 00:00
Date Received: 10/01/20 10:35

Lab Sample ID: 410-15639-6

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	51457	10/07/20 03:28	TQ4J	ELLE
Total/NA	Prep	3510C			51208	10/06/20 09:00	R9CT	ELLE
Total/NA	Analysis	8270D		1	51485	10/07/20 05:43	SJ89	ELLE
Total/NA	Prep	3510C	DL		51208	10/06/20 09:00	R9CT	ELLE
Total/NA	Analysis	8270D	DL	10	51967	10/07/20 19:06	SJ89	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: 410-15639-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-21

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-15639-1

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-11D-20200930	410-15639-1	99	101	96	94
MW-3-20200930	410-15639-2	100	101	96	96
MW-13S-20200930	410-15639-3	99	100	96	97
MW-13D-20200930	410-15639-4	99	101	97	93
TB-20200930	410-15639-5	97	100	97	94
DUP-20200930	410-15639-6	98	100	97	97
	MB 410-51457/7	98	100	97	93
	LCS 410-51457/4	98	98	98	97
	LCSD 410-51457/5	98	99	98	98

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

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-15639-1

SDG No.:

Matrix: Water Level: Low Lab File ID: YC06L01.D

Lab ID: LCS 410-51457/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Benzene	20.0	19.6	98	80-120	
Ethylbenzene	20.0	19.9	99	80-120	
Toluene	20.0	19.6	98	80-120	
Xylenes, Total	60.0	59.7	100	80-120	
Methyl tertiary butyl ether	20.0	19.4	97	69-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-15639-1

SDG No.:

Matrix: Water Level: Low Lab File ID: YC06L02.D

Lab ID: LCSD 410-51457/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Benzene	20.0	20.0	100	2	30	80-120	
Ethylbenzene	20.0	20.0	100	1	30	80-120	
Toluene	20.0	19.8	99	1	30	80-120	
Xylenes, Total	60.0	60.1	100	1	30	80-120	
Methyl tertiary butyl ether	20.0	19.9	99	3	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.: 410-15639-1

SDG No.:

Lab File ID: YC06B01.D Lab Sample ID: MB 410-51457/7

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

Instrument ID: 9355 Date Analyzed: 10/06/2020 20:08

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 410-51457/4	YC06L01.D	10/06/2020 19:01
	LCSD 410-51457/5	YC06L02.D	10/06/2020 19:23
TB-20200930	410-15639-5	YC06S01.D	10/06/2020 20:52
MW-11D-20200930	410-15639-1	YC06S03.D	10/06/2020 21:36
MW-13D-20200930	410-15639-4	YC06S04.D	10/06/2020 21:58
MW-3-20200930	410-15639-2	YC06S15.D	10/07/2020 01:59
MW-13S-20200930	410-15639-3	YC06S17.D	10/07/2020 02:44
DUP-20200930	410-15639-6	YC06S19.D	10/07/2020 03:28

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15639-1

SDG No.:

Lab File ID: Ys21T01.D BFB Injection Date: 09/21/2020

Instrument ID: 9355 BFB Injection Time: 13:28

Analysis Batch No.: 46013

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
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	83.4	
175	5.0 - 9.0 % of mass 174	5.8	(7.0) 1
176	95.0 - 101.0 % of mass 174	79.8	(95.7) 1
177	5.0 - 9.0 % of mass 176	5.4	(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 410-46013/3	Ys21I01.D	09/21/2020	14:04
	IC 410-46013/4	Ys21I02.D	09/21/2020	14:26
	ICIS 410-46013/5	Ys21I03.D	09/21/2020	14:48
	IC 410-46013/6	Ys21I04.D	09/21/2020	15:10
	IC 410-46013/7	Ys21I05.D	09/21/2020	15:32
	IC 410-46013/8	Ys21I06.D	09/21/2020	15:53
	IC 410-46013/9	Ys21I07.D	09/21/2020	16:16
	ICV 410-46013/11	Ys21v01.D	09/21/2020	17:00

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15639-1

SDG No.:

Lab File ID: YC06T01.D BFB Injection Date: 10/06/2020

Instrument ID: 9355 BFB Injection Time: 17:54

Analysis Batch No.: 51457

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.7	
75	30.0 - 60.0 % of mass 95	48.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.2	(0.2) 1
174	Greater than 50% of mass 95	77.8	
175	5.0 - 9.0 % of mass 174	5.8	(7.5) 1
176	95.0 - 101.0 % of mass 174	74.7	(96.0) 1
177	5.0 - 9.0 % of mass 176	5.0	(6.7) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-51457/3	YC06C01.D	10/06/2020	18:39
	LCS 410-51457/4	YC06L01.D	10/06/2020	19:01
	LCSD 410-51457/5	YC06L02.D	10/06/2020	19:23
	MB 410-51457/7	YC06B01.D	10/06/2020	20:08
TB-20200930	410-15639-5	YC06S01.D	10/06/2020	20:52
MW-11D-20200930	410-15639-1	YC06S03.D	10/06/2020	21:36
MW-13D-20200930	410-15639-4	YC06S04.D	10/06/2020	21:58
MW-3-20200930	410-15639-2	YC06S15.D	10/07/2020	1:59
MW-13S-20200930	410-15639-3	YC06S17.D	10/07/2020	2:44
DUP-20200930	410-15639-6	YC06S19.D	10/07/2020	3:28

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15639-1

SDG No.:

Sample No.: ICIS 410-46013/5 Date Analyzed: 09/21/2020 14:48

Instrument ID: 9355 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): Ys21I03.D Heated Purge: (Y/N) N

Calibration ID: 11387

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		390698	4.34	1236687	7.86	901388	11.30
UPPER LIMIT		781396	4.84	2473374	8.36	1802776	11.80
LOWER LIMIT		195349	3.84	618344	7.36	450694	10.80
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-46013/11		375114	4.34	1220222	7.85	896783	11.30
CCVIS 410-51457/3		464903	4.36	1350415	7.86	1014201	11.30

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.: 410-15639-1

SDG No.:

Sample No.: ICIS 410-46013/5 Date Analyzed: 09/21/2020 14:48

Instrument ID: 9355 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): Ys21I03.D Heated Purge: (Y/N) N

Calibration ID: 11387

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		490868	13.17				
UPPER LIMIT		981736	13.67				
LOWER LIMIT		245434	12.67				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-46013/11		483606	13.17				
CCVIS 410-51457/3		541863	13.17				

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.: 410-15639-1

SDG No.:

Sample No.: CCVIS 410-51457/3 Date Analyzed: 10/06/2020 18:39

Instrument ID: 9355 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): YC06C01.D Heated Purge: (Y/N) N

Calibration ID: 11387

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		464903	4.36	1350415	7.86	1014201	11.30
UPPER LIMIT		929806	4.86	2700830	8.36	2028402	11.80
LOWER LIMIT		232452	3.86	675208	7.36	507101	10.80
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-51457/4		489588	4.37	1383961	7.86	1022007	11.30
LCSD 410-51457/5		487095	4.36	1376588	7.86	1016347	11.30
MB 410-51457/7		476065	4.37	1373206	7.86	1003639	11.30
410-15639-5	TB-20200930	468640	4.36	1360702	7.86	993230	11.30
410-15639-1	MW-11D-20200930	453177	4.36	1344569	7.85	984627	11.30
410-15639-4	MW-13D-20200930	425038	4.36	1308882	7.86	955418	11.30
410-15639-2	MW-3-20200930	398442	4.36	1299249	7.85	963989	11.30
410-15639-3	MW-13S-20200930	409172	4.37	1321364	7.86	972804	11.30
410-15639-6	DUP-20200930	459513	4.36	1366049	7.85	1011491	11.30

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.: 410-15639-1

SDG No.:

Sample No.: CCVIS 410-51457/3 Date Analyzed: 10/06/2020 18:39

Instrument ID: 9355 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): YC06C01.D Heated Purge: (Y/N) N

Calibration ID: 11387

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		541863	13.17				
UPPER LIMIT		1083726	13.67				
LOWER LIMIT		270932	12.67				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-51457/4		536524	13.17				
LCSD 410-51457/5		530004	13.17				
MB 410-51457/7		519636	13.17				
410-15639-5	TB-20200930	514089	13.18				
410-15639-1	MW-11D-20200930	507791	13.17				
410-15639-4	MW-13D-20200930	497615	13.17				
410-15639-2	MW-3-20200930	518140	13.17				
410-15639-3	MW-13S-20200930	521351	13.17				
410-15639-6	DUP-20200930	534674	13.17				

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.: 410-15639-1

SDG No.:

Client Sample ID: MW-11D-20200930 Lab Sample ID: 410-15639-1

Matrix: Ground Water Lab File ID: YC06S03.D

Analysis Method: 8260C Date Collected: 09/30/2020 08:25

Sample wt/vol: 5(mL) Date Analyzed: 10/06/2020 21:36

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.: 51457 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		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\9355\20201006-12206.b\YC06S03.D
Lims ID: 410-15639-A-1
Client ID: MW-11D-20200930
Sample Type: Client
Inject. Date: 06-Oct-2020 21:36:30 ALS Bottle#: 9 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0012206-011
Misc. Info.: 410-15639-A-1
Operator ID: ljg30941 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20201006-12206.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 07-Oct-2020 08:44:26 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1016

First Level Reviewer: mellingerc Date: 07-Oct-2020 08:25:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.356	4.361	-0.005	30	453177	250.0	
31 Methyl tert-butyl ether	73		4.781				ND	
$ 50 Dibromofluoromethane (Surr)	113	6.959	6.959	0.000	93	297852	49.3	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.416	7.422	-0.006	98	83687	50.4	
57 Benzene	78		7.458				ND	
* 62 Fluorobenzene (IS)	96	7.854	7.860	-0.006	99	1344569	50.0	
$ 77 Toluene-d8 (Surr)	98	9.849	9.855	-0.006	93	1286345	48.2	
78 Toluene	92		9.928				ND	
S 90 Xylenes, Total	106		11.245				ND	7
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	86	984627	50.0	
95 Ethylbenzene	91		11.406				ND	
96 m-Xylene & p-Xylene	106		11.522				ND	
97 o-Xylene	106		11.844				ND	
$ 103 4-Bromofluorobenzene (Surr)	95	12.295	12.288	0.007	90	468949	46.9	
* 119 1,4-Dichlorobenzene-d4	152	13.171	13.170	0.001	96	507791	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP20_ISSS_00026 Amount Added: 1.00 Units: uL Run Reagent

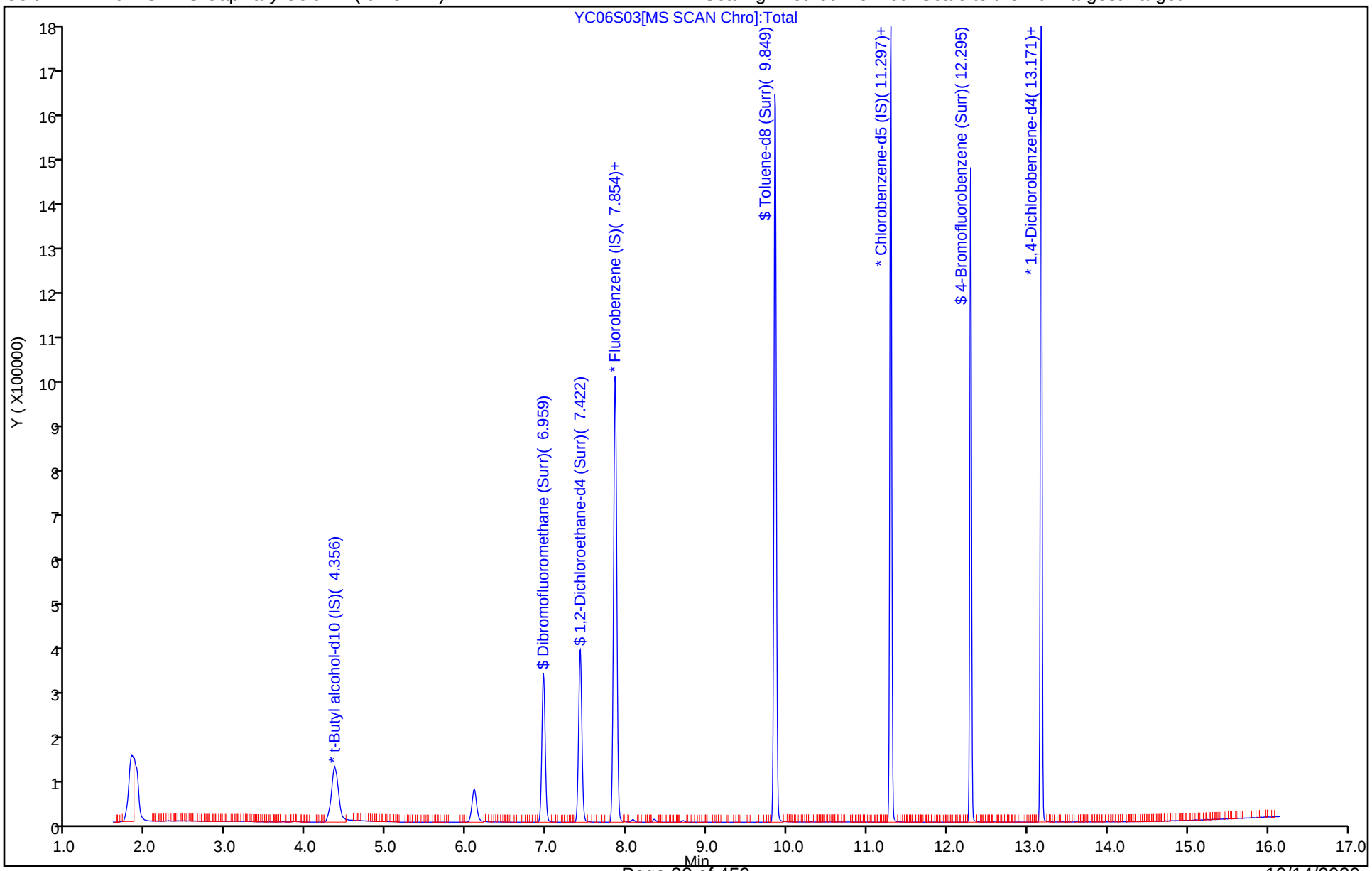
Report Date: 07-Oct-2020 08:48:31 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06S03.D

Injection Date:	06-Oct-2020 21:36:30	Instrument ID:	9355	Operator ID:	ljg30941
Lims ID:	410-15639-A-1	Lab Sample ID:	410-15639-1	Worklist Smp#:	11
Client ID:	MW-11D-20200930				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MSVoa_9355	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.: 410-15639-1

SDG No.:

Client Sample ID: MW-3-20200930 Lab Sample ID: 410-15639-2

Matrix: Ground Water Lab File ID: YC06S15.D

Analysis Method: 8260C Date Collected: 09/30/2020 09:16

Sample wt/vol: 5(mL) Date Analyzed: 10/07/2020 01:59

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.: 51457 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1.3		1.0	0.20
100-41-4	Ethylbenzene	8.6		1.0	0.40
108-88-3	Toluene	1.3		1.0	0.20
1330-20-7	Xylenes, Total	9.2		6.0	1.4
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	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\9355\20201006-12206.b\YC06S15.D
Lims ID: 410-15639-A-2
Client ID: MW-3-20200930
Sample Type: Client
Inject. Date: 07-Oct-2020 01:59:30 ALS Bottle#: 21 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0012206-020
Misc. Info.: 410-15639-A-2
Operator ID: ljg30941 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20201006-12206.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 07-Oct-2020 08:44:26 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1016

First Level Reviewer: mellingerc Date: 07-Oct-2020 08:35:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.356	4.361	-0.005	29	398442	250.0	
31 Methyl tert-butyl ether	73		4.781				ND	7
$ 50 Dibromofluoromethane (Surr)	113	6.959	6.959	0.000	93	290778	49.8	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.422	7.422	0.000	98	80716	50.3	
57 Benzene	78	7.452	7.458	-0.006	92	43360	1.31	
* 62 Fluorobenzene (IS)	96	7.854	7.860	-0.006	99	1299249	50.0	
$ 77 Toluene-d8 (Surr)	98	9.849	9.855	-0.006	94	1258927	48.2	
78 Toluene	92	9.928	9.928	0.000	98	27990	1.34	
S 90 Xylenes, Total	106				0		9.26	
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	86	963989	50.0	
95 Ethylbenzene	91	11.406	11.406	0.000	98	334420	8.57	
96 m-Xylene & p-Xylene	106	11.516	11.522	-0.006	100	69481	4.55	
97 o-Xylene	106	11.844	11.844	0.000	97	69644	4.71	
$ 103 4-Bromofluorobenzene (Surr)	95	12.288	12.288	0.000	89	470079	48.0	
* 119 1,4-Dichlorobenzene-d4	152	13.171	13.170	0.001	95	518140	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP20_ISSS_00026 Amount Added: 1.00 Units: uL Run Reagent

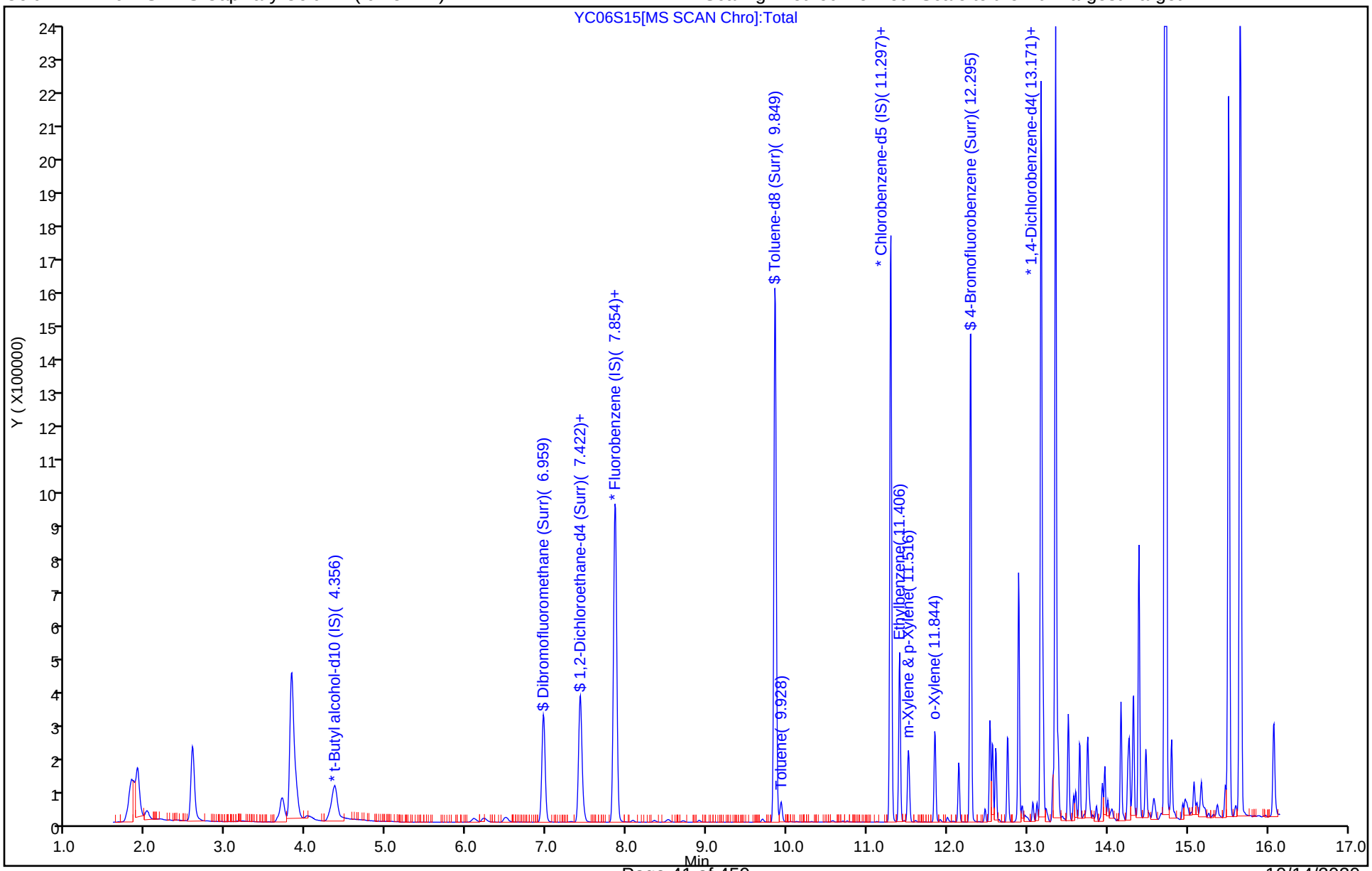
Report Date: 07-Oct-2020 08:49:02 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06S15.D

Injection Date:	07-Oct-2020 01:59:30	Instrument ID:	9355	Operator ID:	ljg30941
Lims ID:	410-15639-A-2	Lab Sample ID:	410-15639-2	Worklist Smp#:	20
Client ID:	MW-3-20200930				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	MSVoa_9355	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: 07-Oct-2020 08:49:02 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06S15.D

Injection Date: 07-Oct-2020 01:59:30 Instrument ID: 9355

Lims ID: 410-15639-A-2 Lab Sample ID: 410-15639-2

Client ID: MW-3-20200930

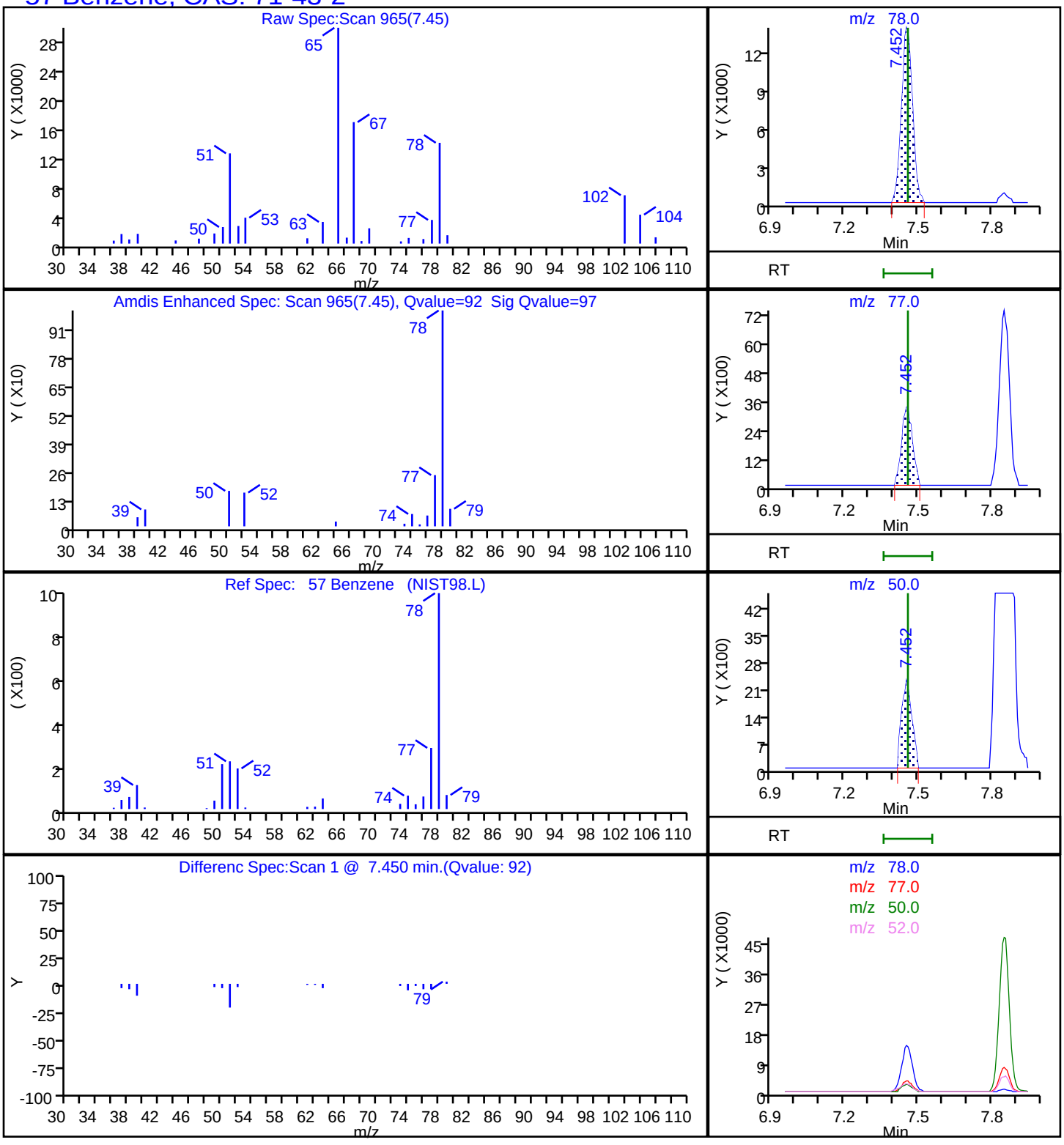
Operator ID: ljg30941 ALS Bottle#: 21 Worklist Smp#: 20

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: MSVoa_9355 Limit Group: MSV - 8260C_D

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

57 Benzene, CAS: 71-43-2



Report Date: 07-Oct-2020 08:49:02 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06S15.D

Injection Date: 07-Oct-2020 01:59:30 Instrument ID: 9355

Lims ID: 410-15639-A-2 Lab Sample ID: 410-15639-2

Client ID: MW-3-20200930

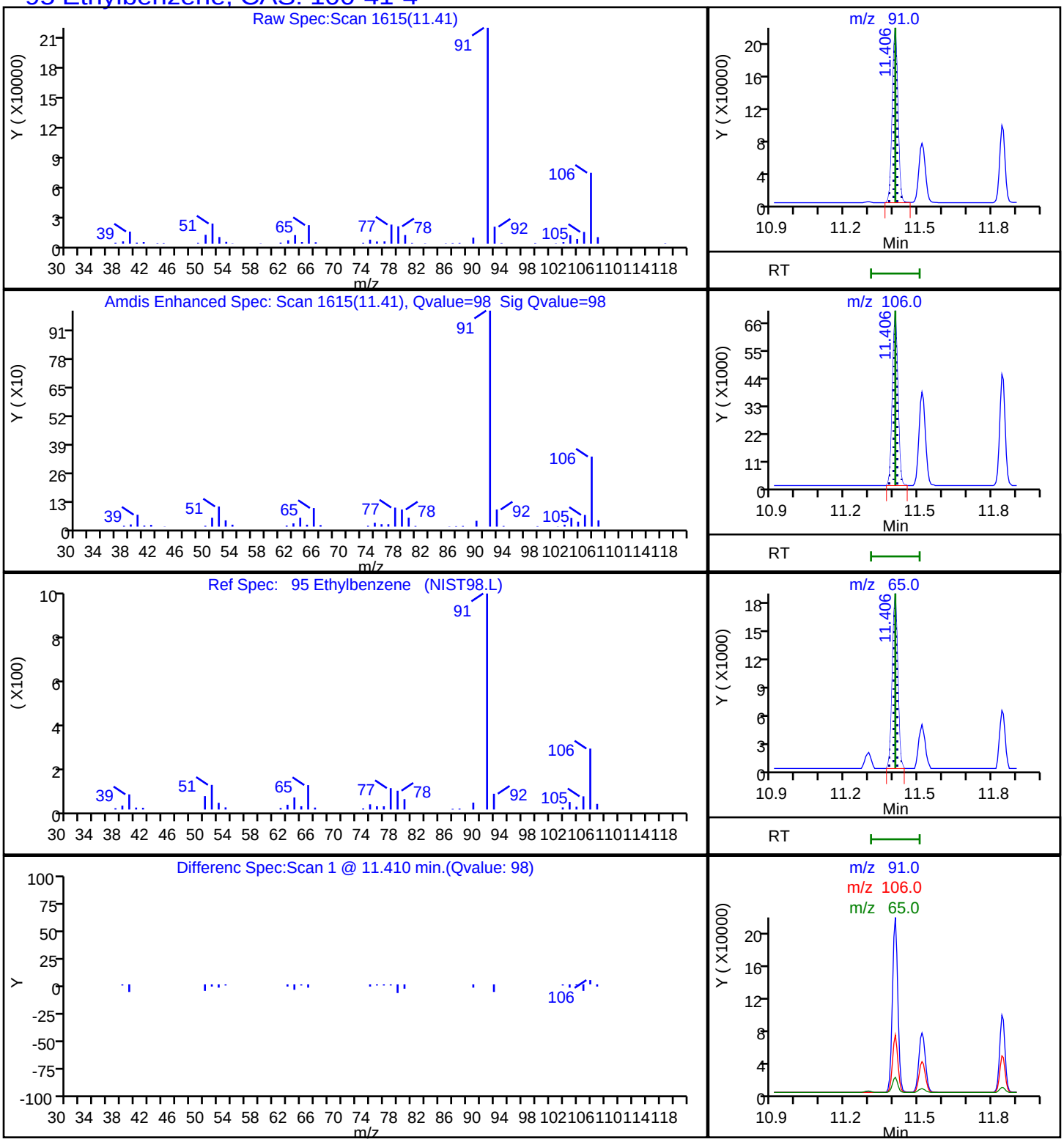
Operator ID: ljg30941 ALS Bottle#: 21 Worklist Smp#: 20

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: MSVoa_9355 Limit Group: MSV - 8260C_D

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

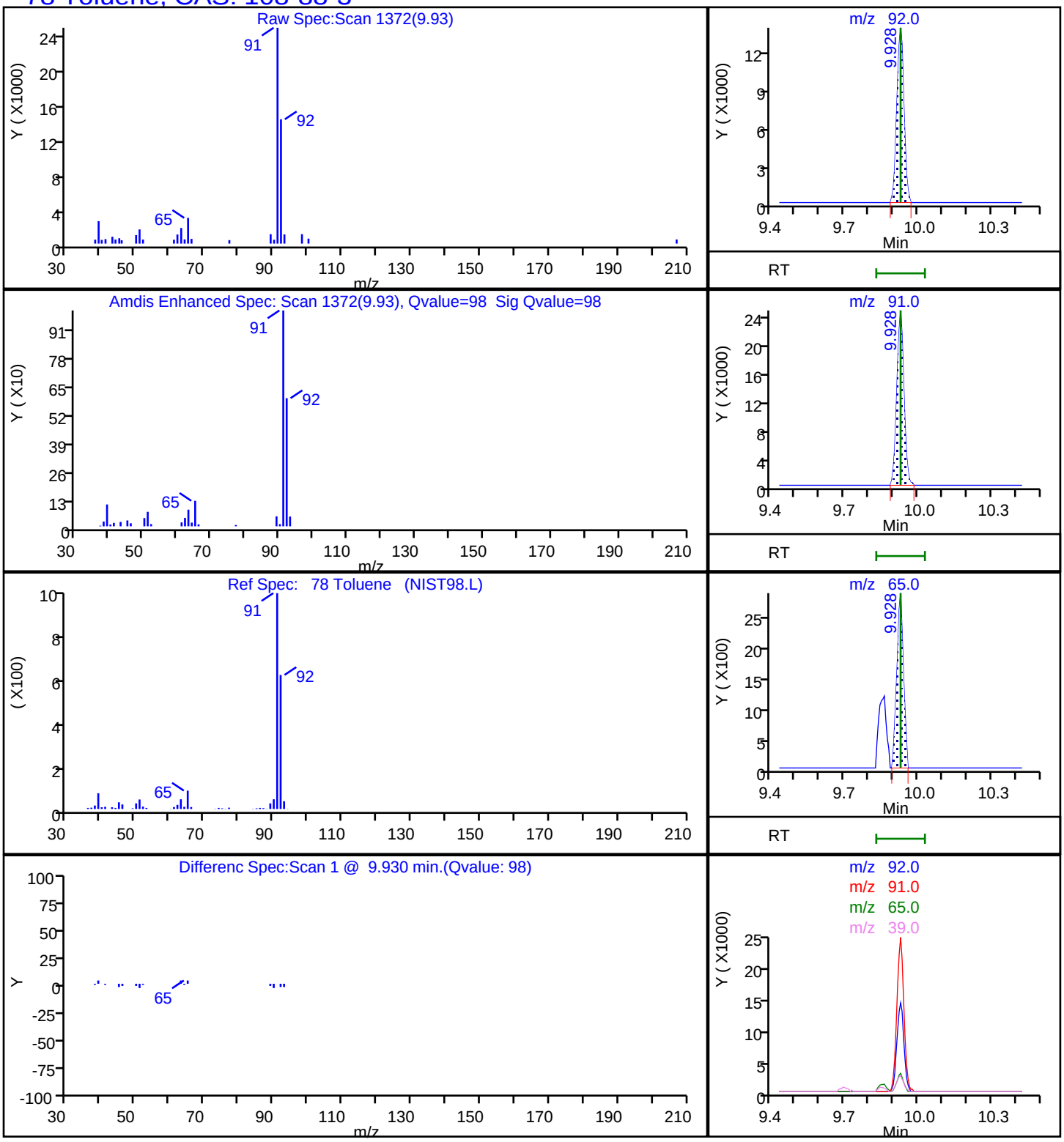
95 Ethylbenzene, CAS: 100-41-4



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06S15.D				
Injection Date:	07-Oct-2020 01:59:30	Instrument ID:	9355		
Lims ID:	410-15639-A-2	Lab Sample ID:	410-15639-2		
Client ID:	MW-3-20200930				
Operator ID:	ljg30941	ALS Bottle#:	21	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

78 Toluene, CAS: 108-88-3



Report Date: 07-Oct-2020 08:49:02 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06S15.D

Injection Date: 07-Oct-2020 01:59:30 Instrument ID: 9355

Lims ID: 410-15639-A-2 Lab Sample ID: 410-15639-2

Client ID: MW-3-20200930

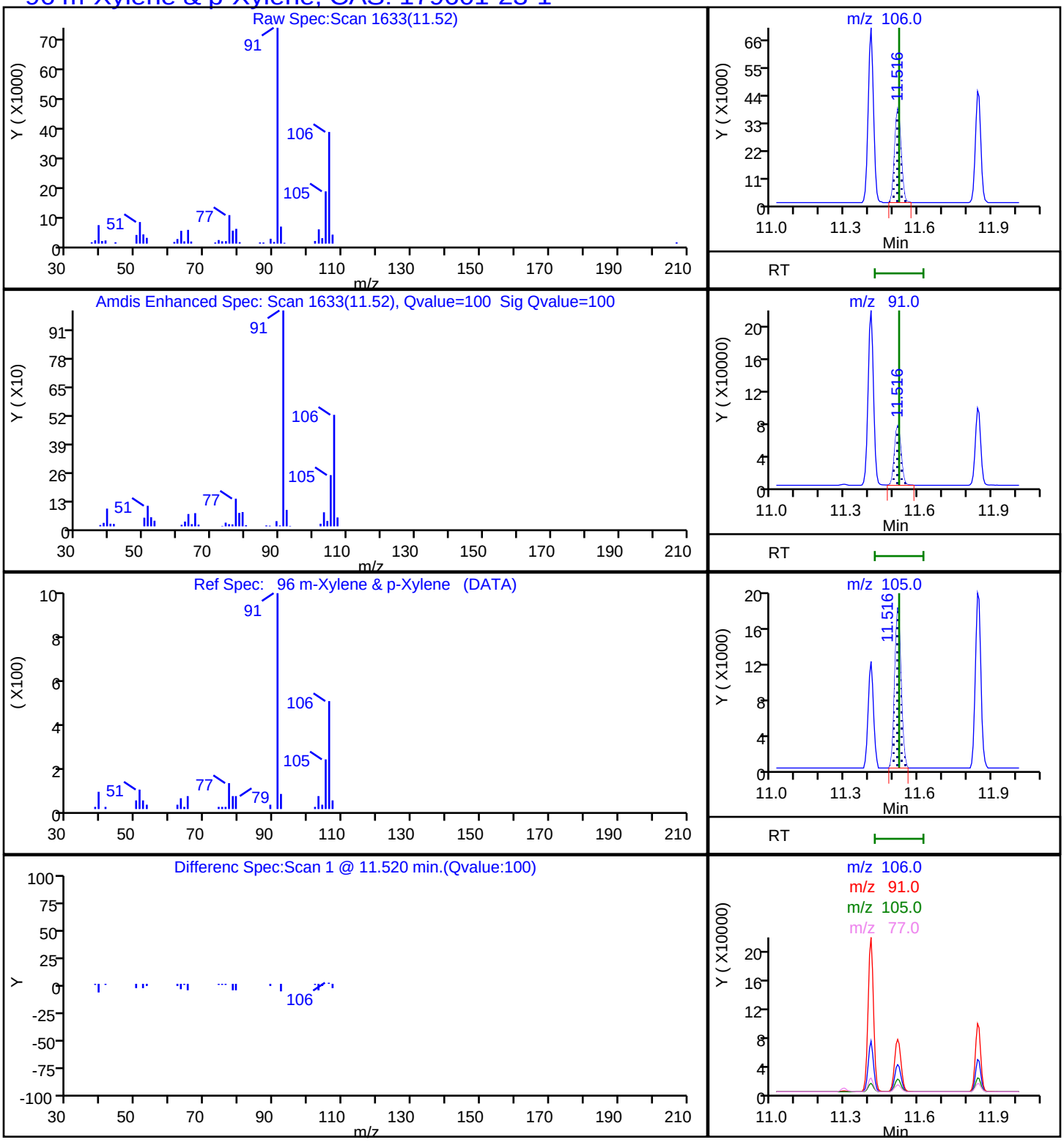
Operator ID: ljg30941 ALS Bottle#: 21 Worklist Smp#: 20

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: MSVoa_9355 Limit Group: MSV - 8260C_D

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

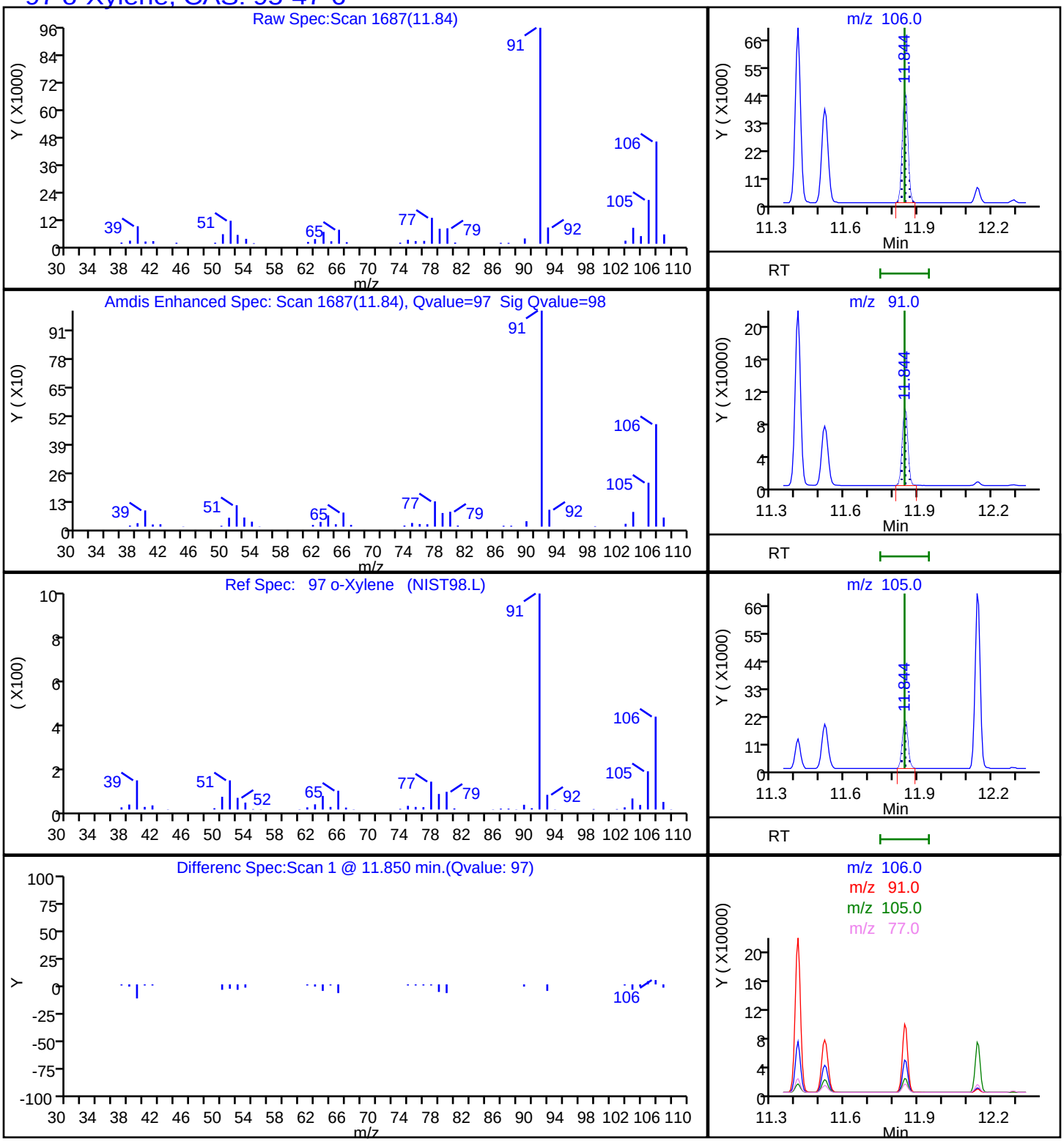
96 m-Xylene & p-Xylene, CAS: 179601-23-1



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06S15.D				
Injection Date:	07-Oct-2020 01:59:30	Instrument ID:	9355		
Lims ID:	410-15639-A-2	Lab Sample ID:	410-15639-2		
Client ID:	MW-3-20200930				
Operator ID:	ljg30941	ALS Bottle#:	21	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

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



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15639-1

SDG No.:

Client Sample ID: MW-13S-20200930 Lab Sample ID: 410-15639-3

Matrix: Ground Water Lab File ID: YC06S17.D

Analysis Method: 8260C Date Collected: 09/30/2020 10:05

Sample wt/vol: 5(mL) Date Analyzed: 10/07/2020 02:44

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.: 51457 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	2.8		1.0	0.20
100-41-4	Ethylbenzene	12		1.0	0.40
108-88-3	Toluene	1.4		1.0	0.20
1330-20-7	Xylenes, Total	10		6.0	1.4
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		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\9355\20201006-12206.b\YC06S17.D
Lims ID: 410-15639-A-3
Client ID: MW-13S-20200930
Sample Type: Client
Inject. Date: 07-Oct-2020 02:44:30 ALS Bottle#: 23 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0012206-022
Misc. Info.: 410-15639-A-3
Operator ID: ljg30941 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20201006-12206.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 07-Oct-2020 08:44:26 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1016

First Level Reviewer: mellingerc Date: 07-Oct-2020 08:36:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.368	4.361	0.007	33	409172	250.0	
31 Methyl tert-butyl ether	73		4.781				ND	
$ 50 Dibromofluoromethane (Surr)	113	6.965	6.959	0.006	94	295254	49.7	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.421	7.422	-0.001	98	81500	49.9	
57 Benzene	78	7.458	7.458	0.000	92	93164	2.78	
* 62 Fluorobenzene (IS)	96	7.859	7.860	-0.001	99	1321364	50.0	
$ 77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	94	1268770	48.1	
78 Toluene	92	9.928	9.928	0.000	97	30168	1.43	
S 90 Xylenes, Total	106				0		10.3	
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	86	972804	50.0	
95 Ethylbenzene	91	11.406	11.406	0.000	98	480382	12.2	
96 m-Xylene & p-Xylene	106	11.516	11.522	-0.006	100	73983	4.80	
97 o-Xylene	106	11.844	11.844	0.000	97	82627	5.54	
$ 103 4-Bromofluorobenzene (Surr)	95	12.294	12.288	0.006	90	478702	48.4	
* 119 1,4-Dichlorobenzene-d4	152	13.170	13.170	0.000	95	521351	50.0	

QC Flag Legend
Processing Flags

Reagents:
MSV_HP20_ISSS_00026 Amount Added: 1.00 Units: uL Run Reagent

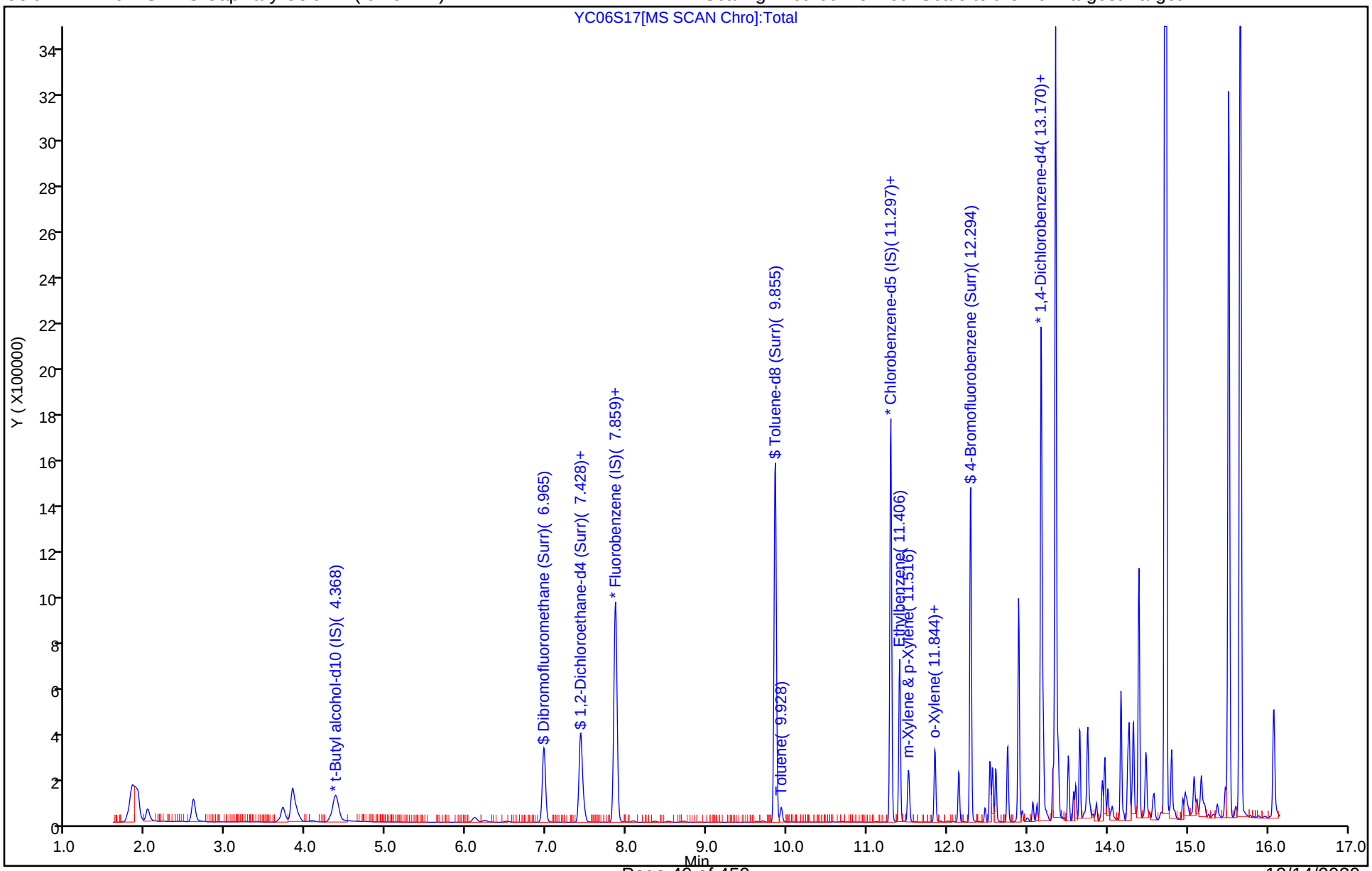
Report Date: 07-Oct-2020 08:49:06 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06S17.D

Injection Date:	07-Oct-2020 02:44:30	Instrument ID:	9355	Operator ID:	ljg30941
Lims ID:	410-15639-A-3	Lab Sample ID:	410-15639-3	Worklist Smp#:	22
Client ID:	MW-13S-20200930				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	MSVoa_9355	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

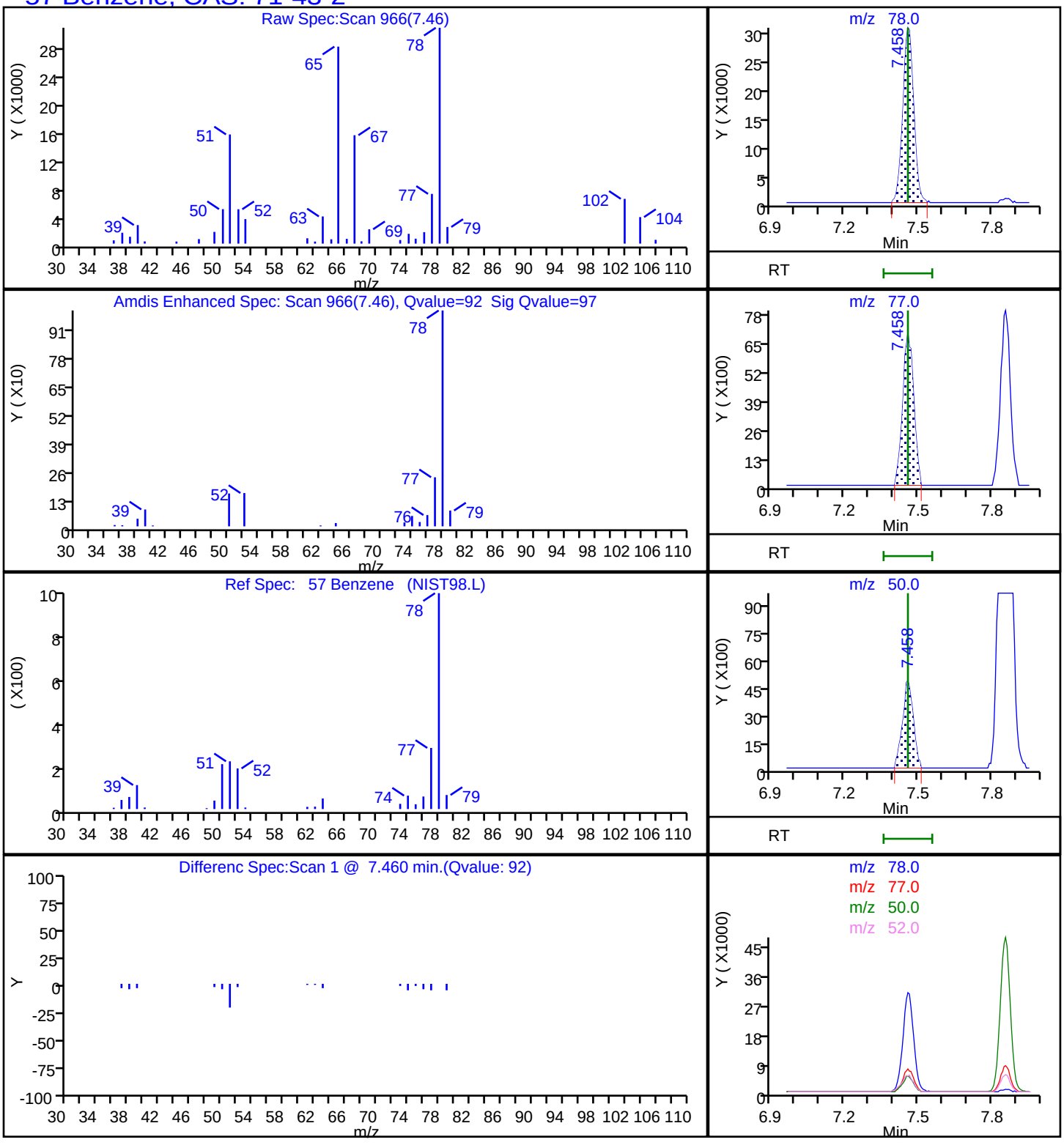


Report Date: 07-Oct-2020 08:49:06 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06S17.D				
Injection Date:	07-Oct-2020 02:44:30	Instrument ID:	9355		
Lims ID:	410-15639-A-3	Lab Sample ID:	410-15639-3		
Client ID:	MW-13S-20200930				
Operator ID:	ljg30941	ALS Bottle#:	23	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

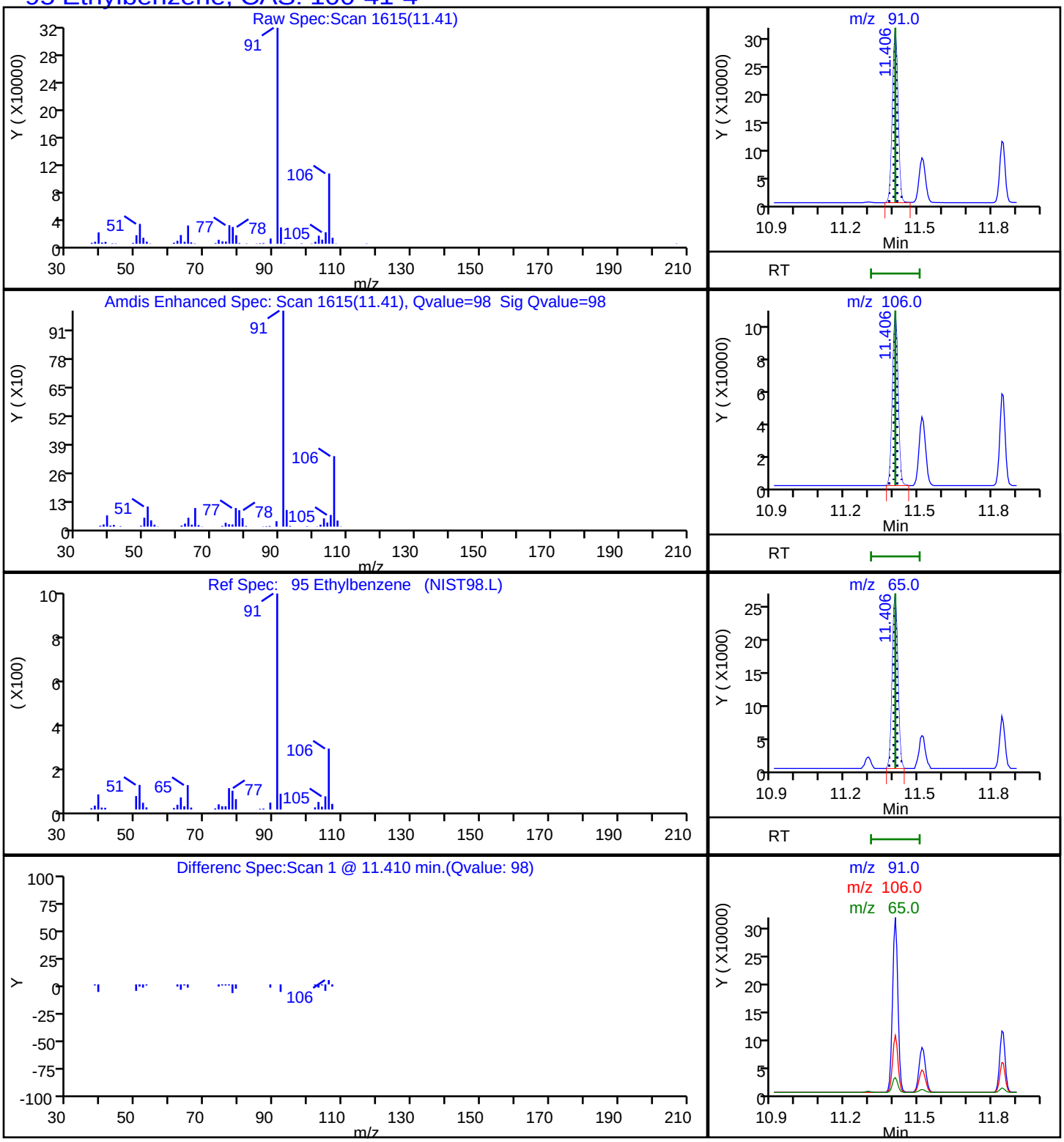
57 Benzene, CAS: 71-43-2



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06S17.D				
Injection Date:	07-Oct-2020 02:44:30	Instrument ID:	9355		
Lims ID:	410-15639-A-3	Lab Sample ID:	410-15639-3		
Client ID:	MW-13S-20200930				
Operator ID:	ljg30941	ALS Bottle#:	23	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

95 Ethylbenzene, CAS: 100-41-4



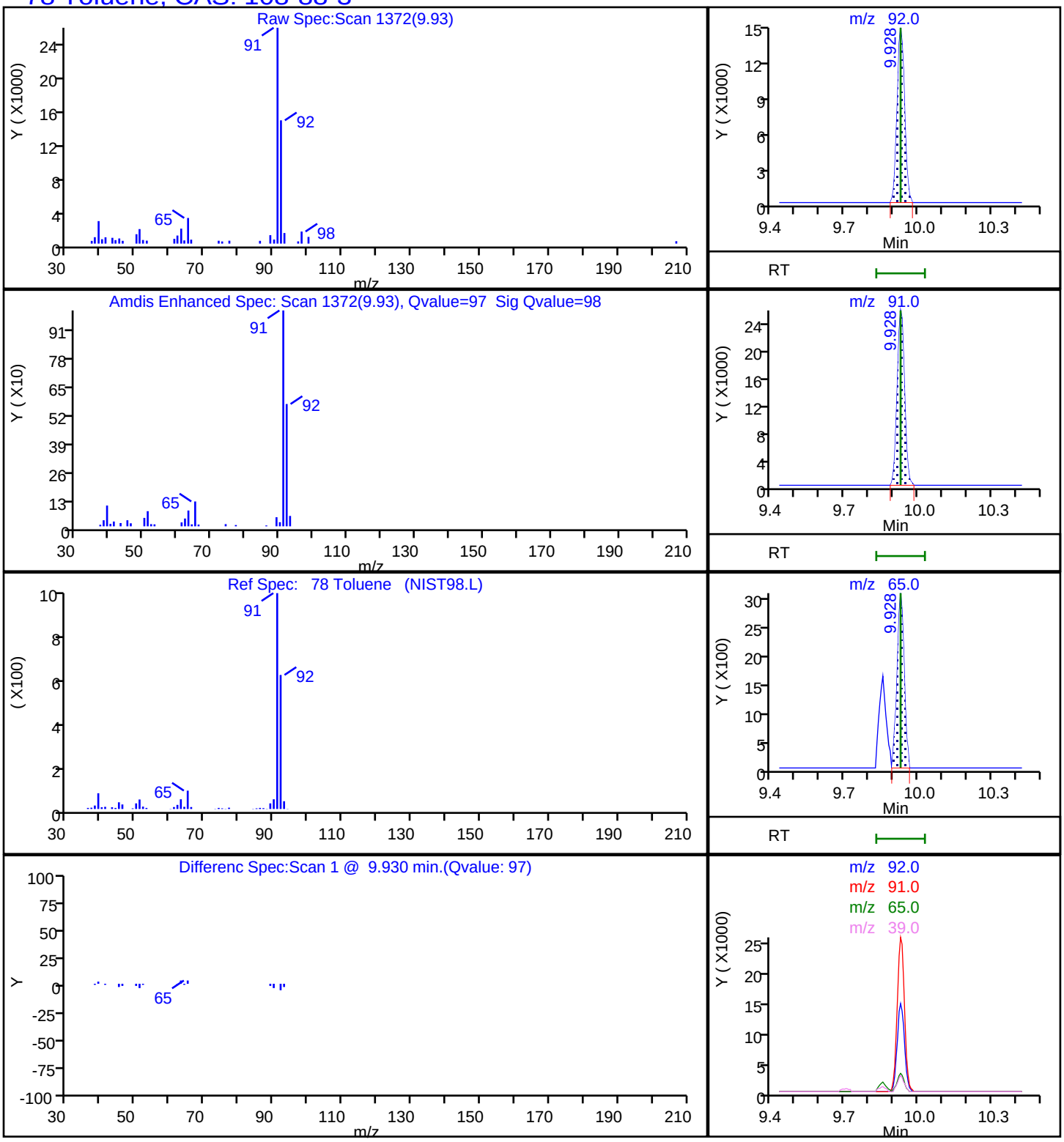
Report Date: 07-Oct-2020 08:49:06 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06S17.D

Injection Date:	07-Oct-2020 02:44:30	Instrument ID:	9355		
Lims ID:	410-15639-A-3	Lab Sample ID:	410-15639-3		
Client ID:	MW-13S-20200930				
Operator ID:	ljg30941	ALS Bottle#:	23	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

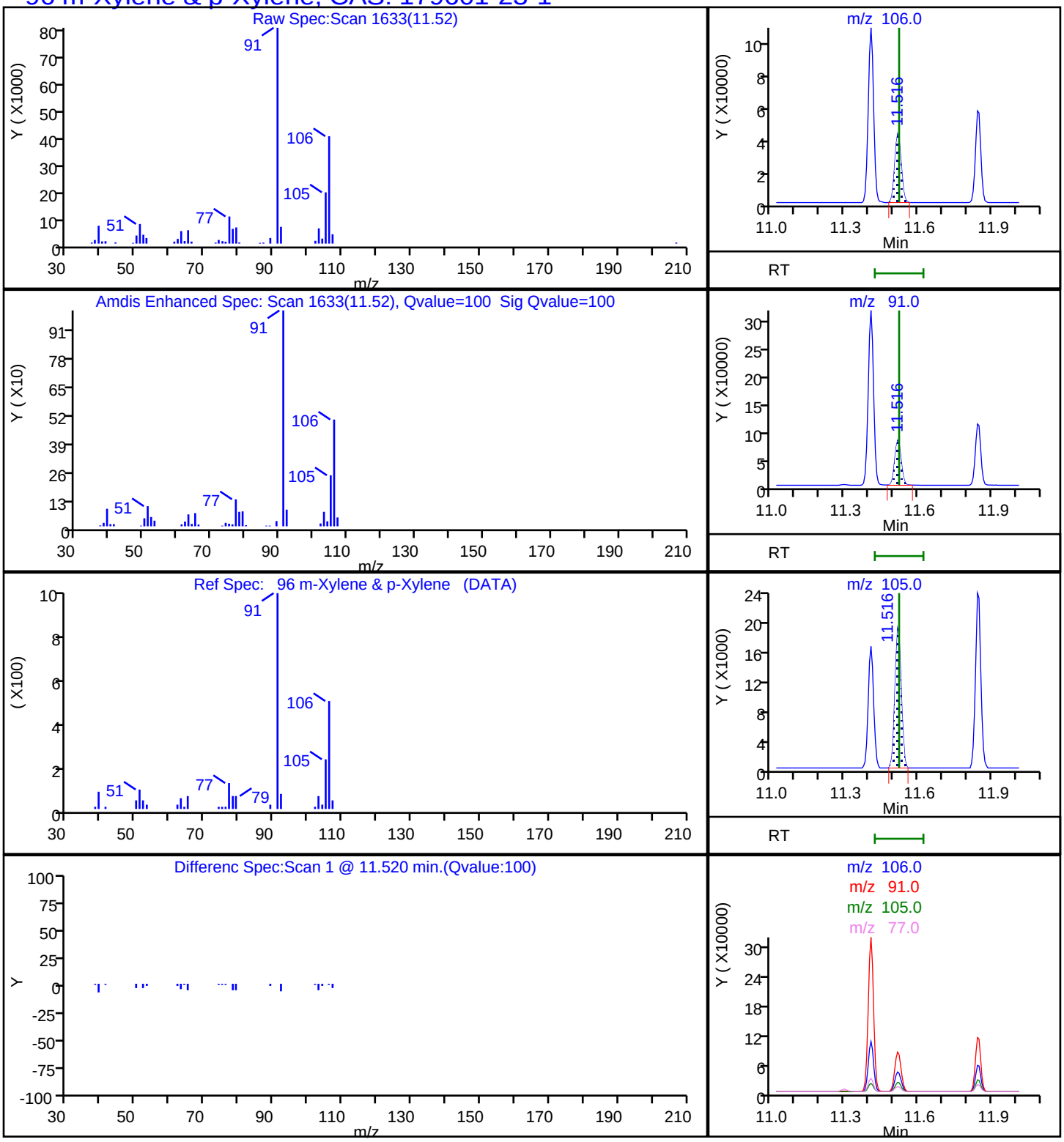
78 Toluene, CAS: 108-88-3



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06S17.D				
Injection Date:	07-Oct-2020 02:44:30	Instrument ID:	9355		
Lims ID:	410-15639-A-3	Lab Sample ID:	410-15639-3		
Client ID:	MW-13S-20200930				
Operator ID:	ljg30941	ALS Bottle#:	23	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

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



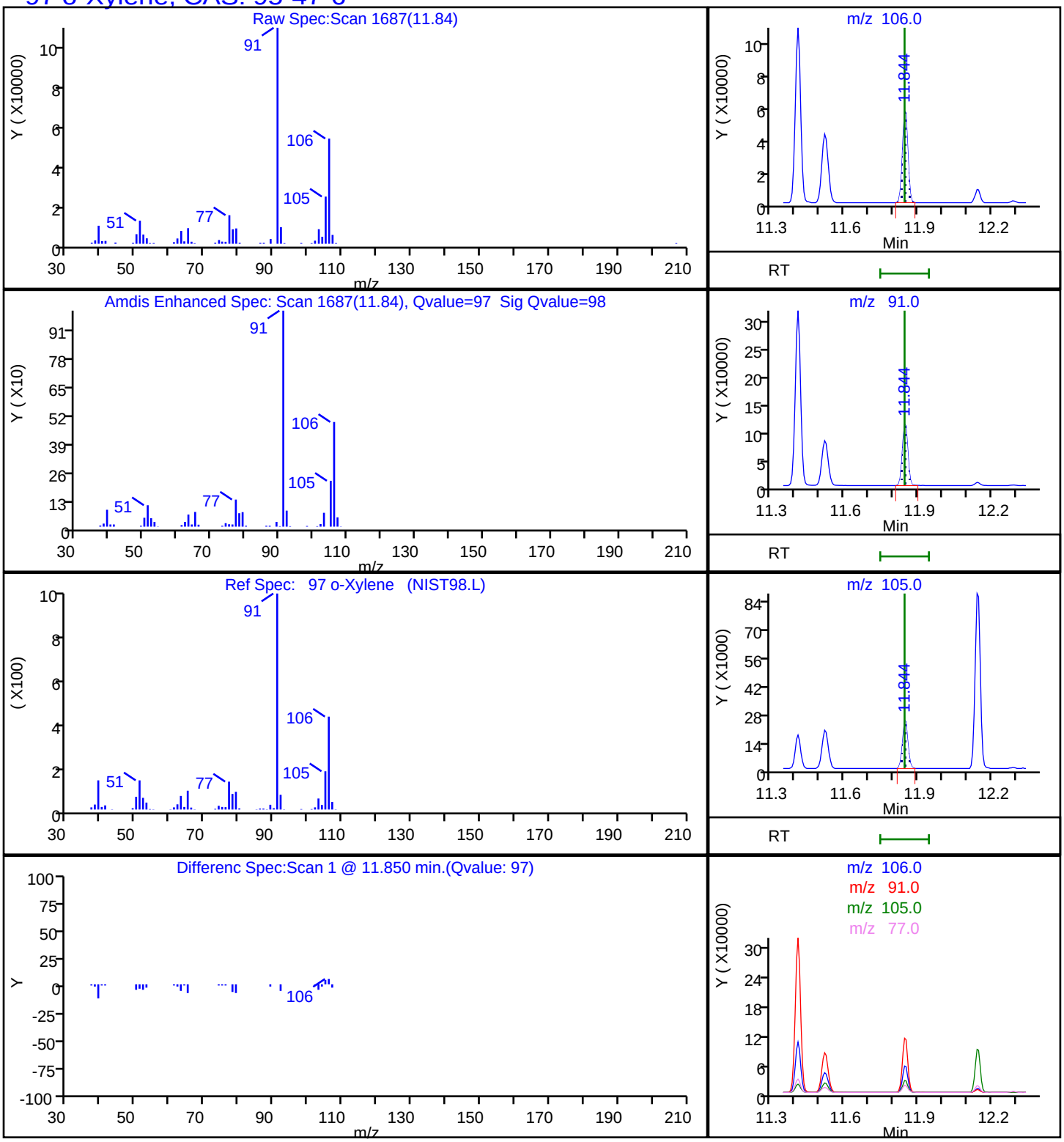
Report Date: 07-Oct-2020 08:49:06 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06S17.D

Injection Date:	07-Oct-2020 02:44:30	Instrument ID:	9355
Lims ID:	410-15639-A-3	Lab Sample ID:	410-15639-3
Client ID:	MW-13S-20200930		
Operator ID:	ljg30941	ALS Bottle#:	23 Worklist Smp#: 22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad

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



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15639-1

SDG No.:

Client Sample ID: MW-13D-20200930 Lab Sample ID: 410-15639-4

Matrix: Ground Water Lab File ID: YC06S04.D

Analysis Method: 8260C Date Collected: 09/30/2020 10:47

Sample wt/vol: 5(mL) Date Analyzed: 10/06/2020 21:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51457 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		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\9355\20201006-12206.b\YC06S04.D
Lims ID: 410-15639-A-4
Client ID: MW-13D-20200930
Sample Type: Client
Inject. Date: 06-Oct-2020 21:58:30 ALS Bottle#: 10 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0012206-012
Misc. Info.: 410-15639-A-4
Operator ID: ljg30941 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20201006-12206.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 07-Oct-2020 08:44:26 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1016

First Level Reviewer: mellingerc Date: 07-Oct-2020 08:28:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.355	4.361	-0.006	29	425038	250.0	
31 Methyl tert-butyl ether	73		4.781				ND	
$ 50 Dibromofluoromethane (Surr)	113	6.959	6.959	0.000	93	290296	49.3	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.421	7.422	-0.001	98	81344	50.3	
57 Benzene	78		7.458				ND	
* 62 Fluorobenzene (IS)	96	7.859	7.860	-0.001	99	1308882	50.0	
$ 77 Toluene-d8 (Surr)	98	9.849	9.855	-0.006	94	1251284	48.3	
78 Toluene	92		9.928				ND	
S 90 Xylenes, Total	106		11.245				ND	7
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	86	955418	50.0	
95 Ethylbenzene	91		11.406				ND	
96 m-Xylene & p-Xylene	106		11.522				ND	
97 o-Xylene	106		11.844				ND	
$ 103 4-Bromofluorobenzene (Surr)	95	12.294	12.288	0.006	90	453203	46.7	
* 119 1,4-Dichlorobenzene-d4	152	13.170	13.170	0.000	95	497615	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP20_ISSS_00026 Amount Added: 1.00 Units: uL Run Reagent

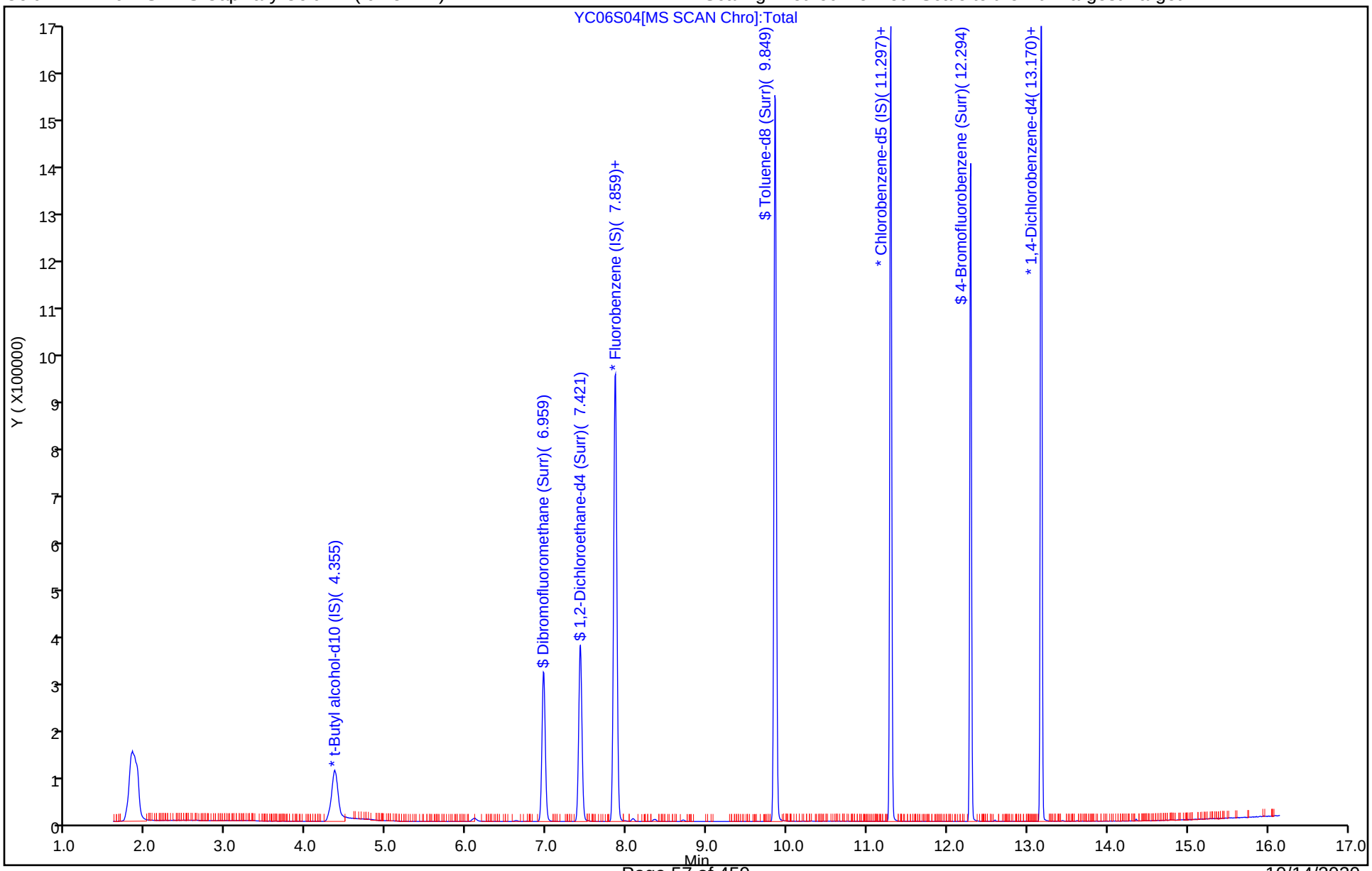
Report Date: 07-Oct-2020 08:48:33 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06S04.D

Injection Date:	06-Oct-2020 21:58:30	Instrument ID:	9355	Operator ID:	ljg30941
Lims ID:	410-15639-A-4	Lab Sample ID:	410-15639-4	Worklist Smp#:	12
Client ID:	MW-13D-20200930				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	MSVoa_9355	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.: 410-15639-1

SDG No.:

Client Sample ID: TB-20200930 Lab Sample ID: 410-15639-5

Matrix: Water Lab File ID: YC06S01.D

Analysis Method: 8260C Date Collected: 09/30/2020 00:00

Sample wt/vol: 5(mL) Date Analyzed: 10/06/2020 20:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51457 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		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\9355\20201006-12206.b\YC06S01.D				
Lims ID:	410-15639-A-5				
Client ID:	TB-20200930				
Sample Type:	Client				
Inject. Date:	06-Oct-2020 20:52:30	ALS Bottle#:	7	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0012206-009				
Misc. Info.:	410-15639-A-5				
Operator ID:	ljg30941	Instrument ID:	9355		
Method:	\\chromfs\Lancaster\ChromData\9355\20201006-12206.b\MSVoa_9355.m				
Limit Group:	MSV - 8260C_D				
Last Update:	07-Oct-2020 08:44:26	Calib Date:	21-Sep-2020 16:16:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1016				
First Level Reviewer: mellingerc		Date:	07-Oct-2020 08:23:45		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.356	4.361	-0.005	29	468640	250.0	
31 Methyl tert-butyl ether	73		4.781				ND	
$ 50 Dibromofluoromethane (Surr)	113	6.959	6.959	0.000	94	298009	48.7	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.422	7.422	0.000	98	84392	50.2	
57 Benzene	78		7.458				ND	
* 62 Fluorobenzene (IS)	96	7.860	7.860	0.000	99	1360702	50.0	
$ 77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	94	1301021	48.3	
78 Toluene	92	9.916	9.928	-0.012	0	755	0.0350	7M
S 90 Xylenes, Total	106		11.245				ND	7
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	86	993230	50.0	
95 Ethylbenzene	91		11.406				ND	
96 m-Xylene & p-Xylene	106		11.522				ND	
97 o-Xylene	106		11.844				ND	
$ 103 4-Bromofluorobenzene (Surr)	95	12.295	12.288	0.007	89	474843	47.0	
* 119 1,4-Dichlorobenzene-d4	152	13.177	13.170	0.007	95	514089	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSV_HP20_ISSS_00026 Amount Added: 1.00 Units: uL Run Reagent

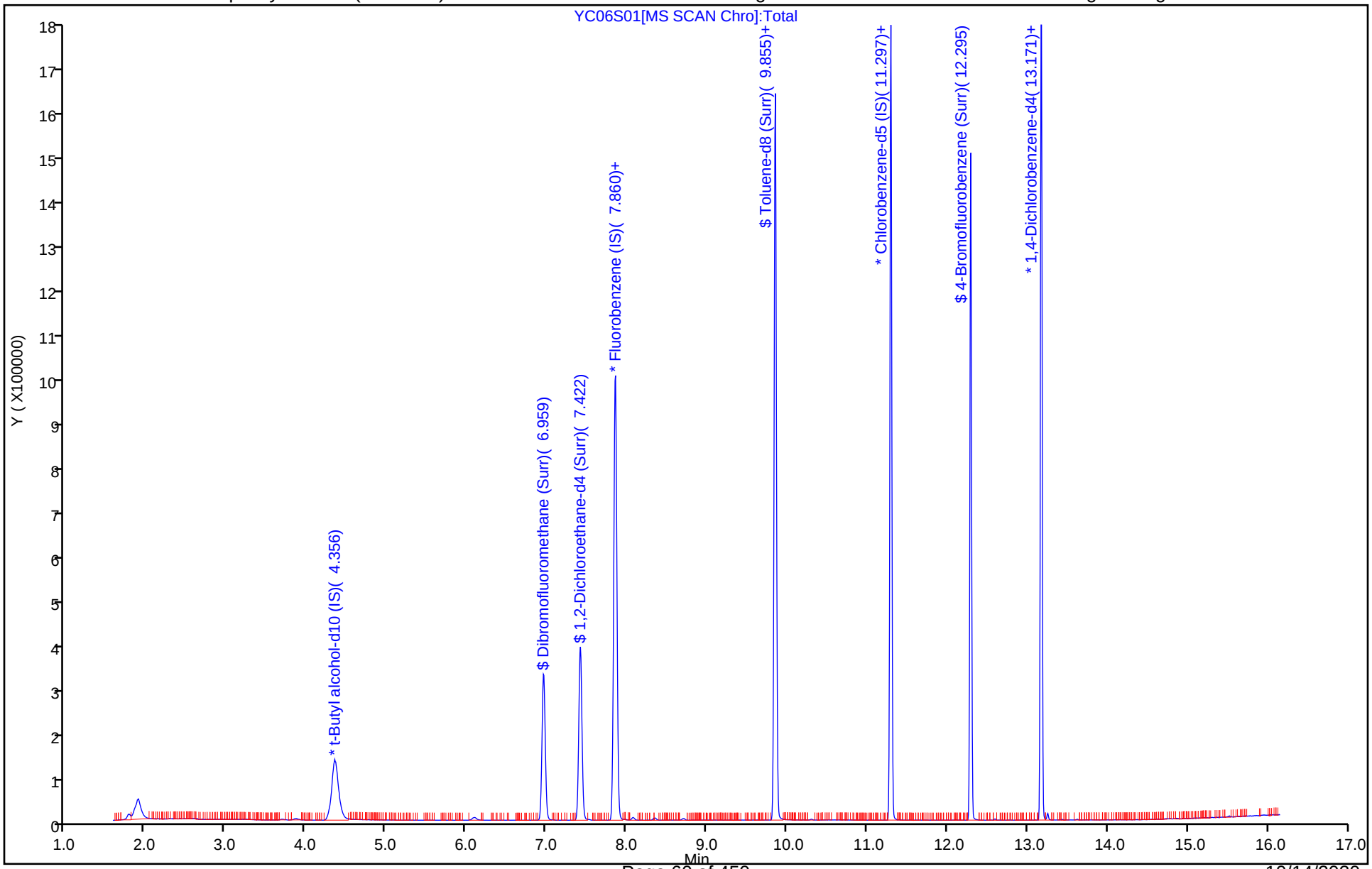
Report Date: 07-Oct-2020 08:48:26 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06S01.D

Injection Date:	06-Oct-2020 20:52:30	Instrument ID:	9355	Operator ID:	ljg30941
Lims ID:	410-15639-A-5	Lab Sample ID:	410-15639-5	Worklist Smp#:	9
Client ID:	TB-20200930				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSVoa_9355	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

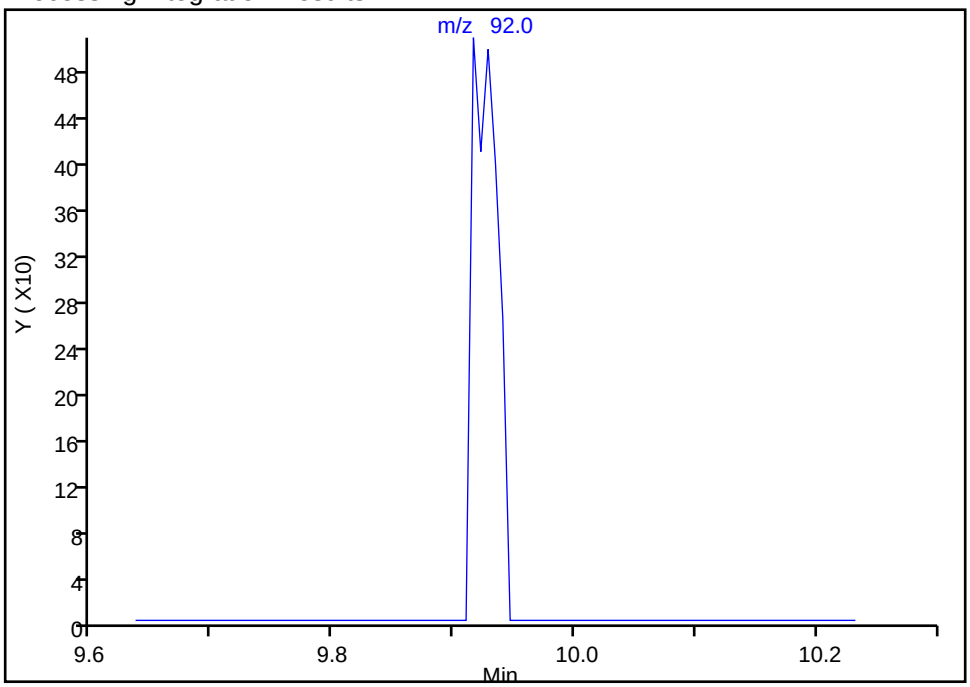
Data File:	\\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06S01.D				
Injection Date:	06-Oct-2020 20:52:30	Instrument ID:	9355		
Lims ID:	410-15639-A-5	Lab Sample ID:	410-15639-5		
Client ID:	TB-20200930				
Operator ID:	ljg30941	ALS Bottle#:	7	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

78 Toluene, CAS: 108-88-3

Signal: 1

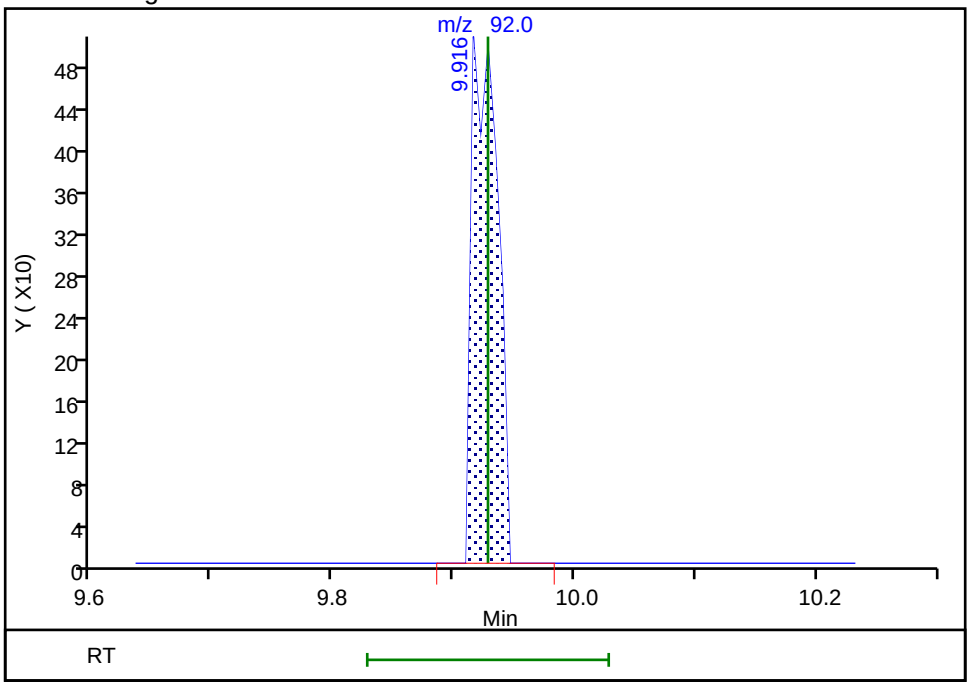
Not Detected
Expected RT: 9.93

Processing Integration Results



Manual Integration Results

RT: 9.92
Area: 755
Amount: 0.034989
Amount Units: ug/l



Reviewer: mellingerc, 07-Oct-2020 08:23:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15639-1

SDG No.:

Client Sample ID: DUP-20200930 Lab Sample ID: 410-15639-6

Matrix: Ground Water Lab File ID: YC06S19.D

Analysis Method: 8260C Date Collected: 09/30/2020 00:00

Sample wt/vol: 5(mL) Date Analyzed: 10/07/2020 03:28

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.: 51457 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1.4		1.0	0.20
100-41-4	Ethylbenzene	9.0		1.0	0.40
108-88-3	Toluene	1.4		1.0	0.20
1330-20-7	Xylenes, Total	9.7		6.0	1.4
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		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\9355\20201006-12206.b\YC06S19.D
Lims ID: 410-15639-A-6
Client ID: DUP-20200930
Sample Type: Client
Inject. Date: 07-Oct-2020 03:28:30 ALS Bottle#: 25 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0012206-024
Misc. Info.: 410-15639-A-6
Operator ID: ljg30941 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20201006-12206.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 07-Oct-2020 08:44:26 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1016

First Level Reviewer: mellingerc Date: 07-Oct-2020 08:36:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.361	4.361	0.000	29	459513	250.0	
31 Methyl tert-butyl ether	73		4.781				ND	7
$ 50 Dibromofluoromethane (Surr)	113	6.959	6.959	0.000	93	300825	49.0	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.421	7.422	-0.001	98	84269	49.9	
57 Benzene	78	7.458	7.458	0.000	0	49374	1.42	M
* 62 Fluorobenzene (IS)	96	7.853	7.860	-0.007	99	1366049	50.0	
$ 77 Toluene-d8 (Surr)	98	9.849	9.855	-0.006	94	1327498	48.4	
78 Toluene	92	9.928	9.928	0.000	97	30004	1.37	
S 90 Xylenes, Total	106				0		9.71	
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	86	1011491	50.0	
95 Ethylbenzene	91	11.406	11.406	0.000	98	370229	9.05	
96 m-Xylene & p-Xylene	106	11.516	11.522	-0.006	100	74733	4.66	
97 o-Xylene	106	11.844	11.844	0.000	97	78286	5.05	
$ 103 4-Bromofluorobenzene (Surr)	95	12.288	12.288	0.000	88	496117	48.3	
* 119 1,4-Dichlorobenzene-d4	152	13.170	13.170	0.000	95	534674	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

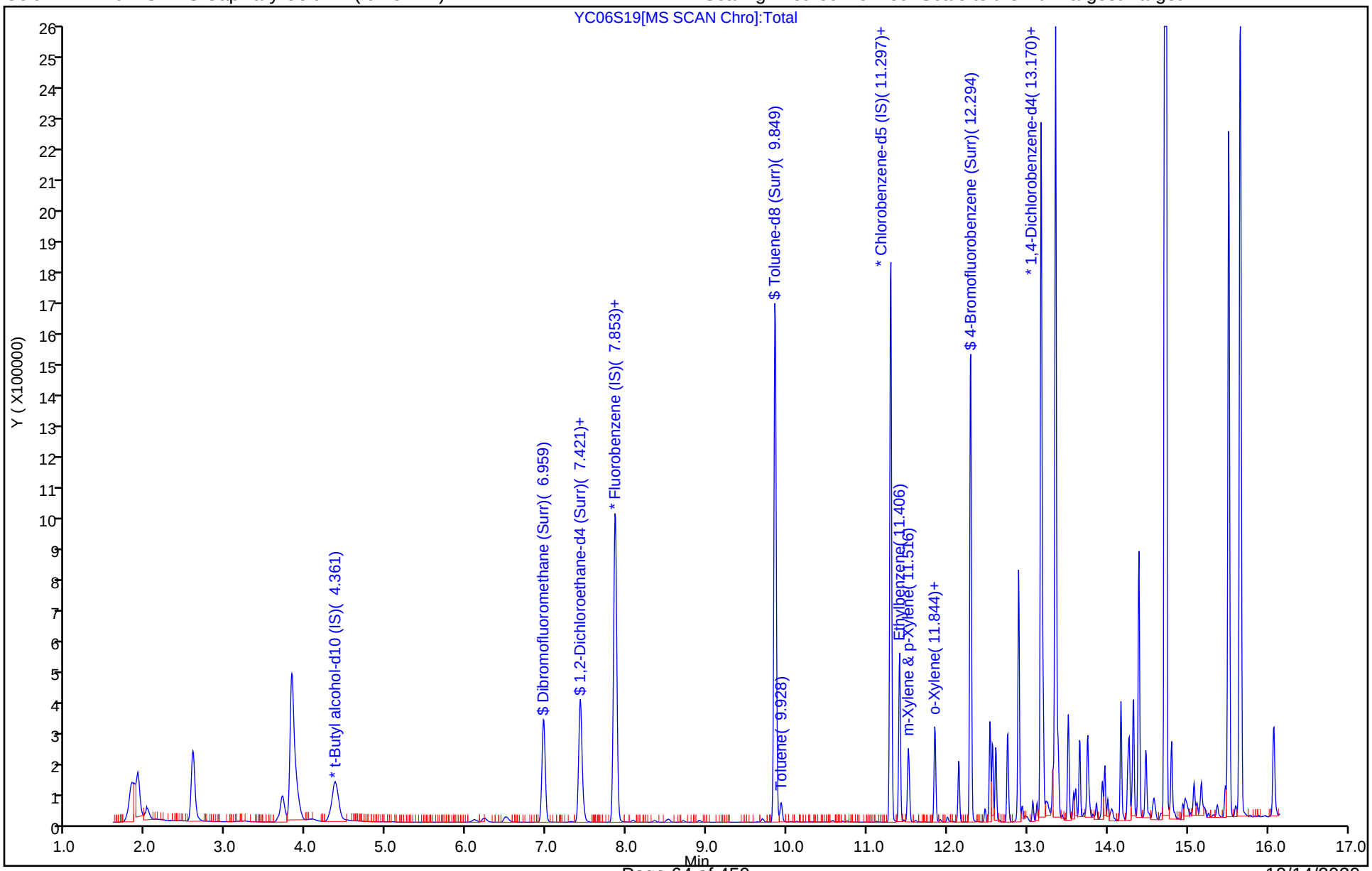
MSV_HP20_ISSS_00026 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 07-Oct-2020 08:49:09 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06S19.D				
Injection Date:	07-Oct-2020 03:28:30	Instrument ID:	9355	Operator ID:	ljg30941
Lims ID:	410-15639-A-6	Lab Sample ID:	410-15639-6	Worklist Smp#:	24
Client ID:	DUP-20200930				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

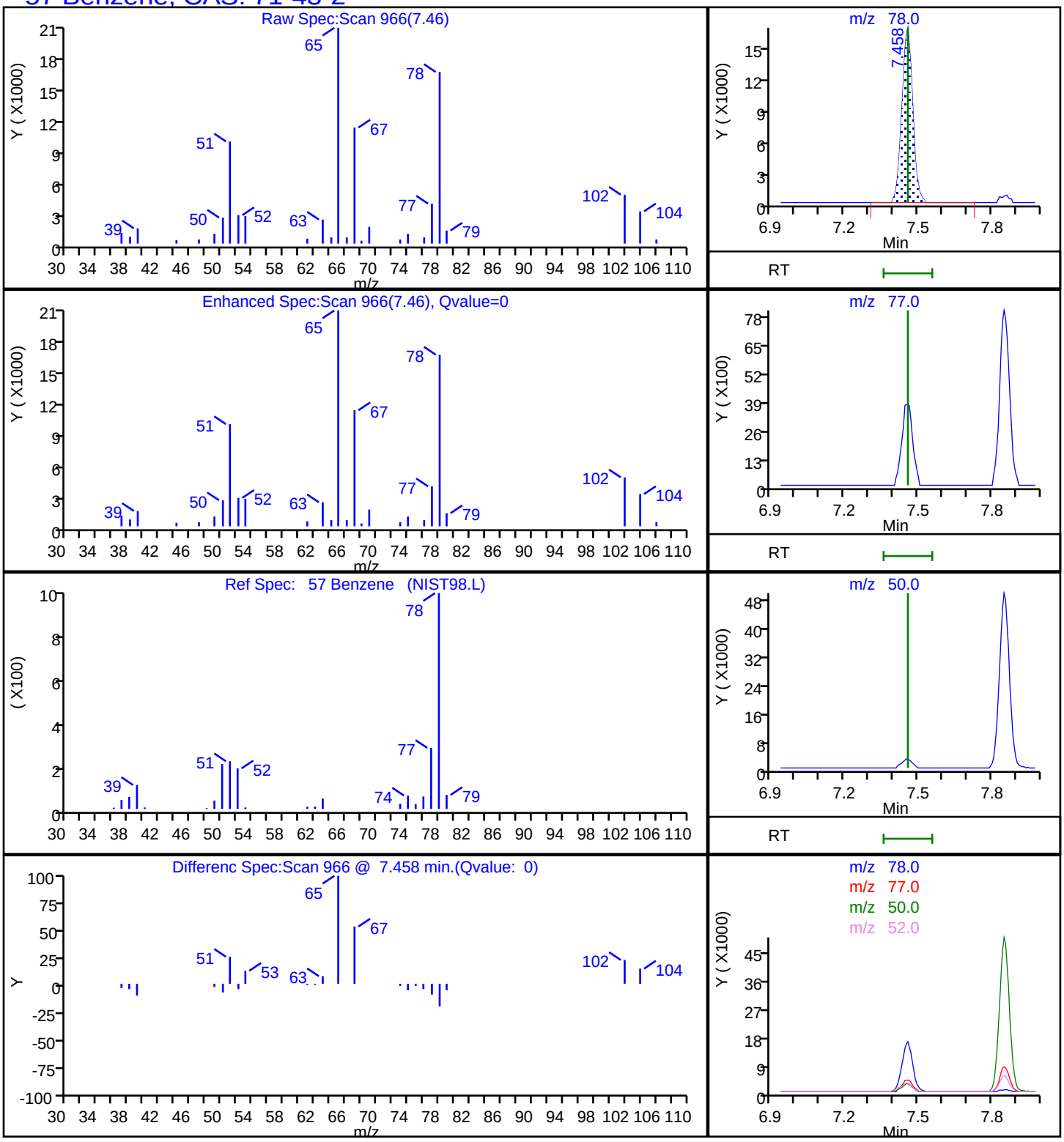
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06S19.D				
Injection Date:	07-Oct-2020 03:28:30	Instrument ID:	9355		
Lims ID:	410-15639-A-6	Lab Sample ID:	410-15639-6		
Client ID:	DUP-20200930				
Operator ID:	ljg30941	ALS Bottle#:	25	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

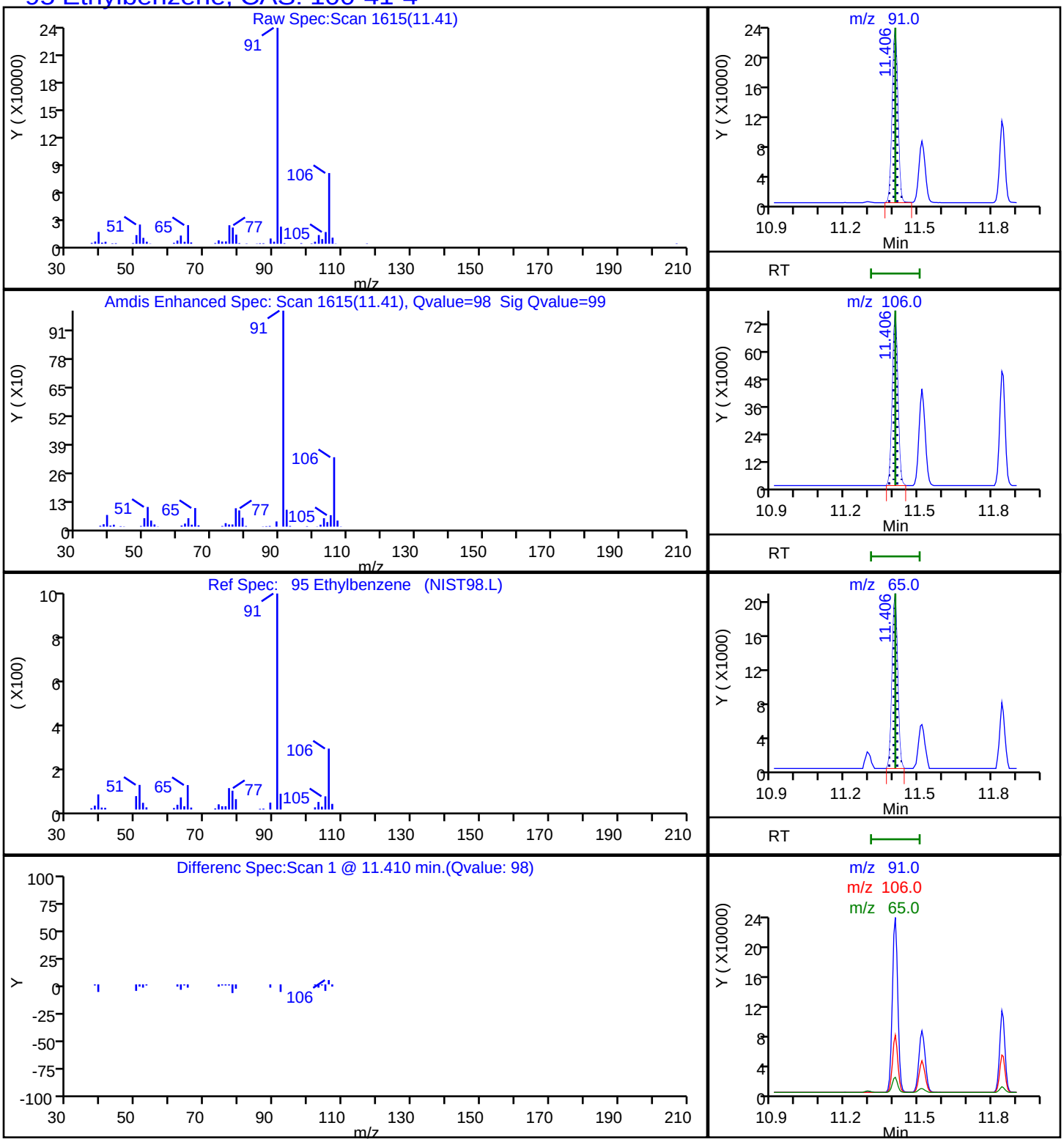
57 Benzene, CAS: 71-43-2



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06S19.D				
Injection Date:	07-Oct-2020 03:28:30	Instrument ID:	9355		
Lims ID:	410-15639-A-6	Lab Sample ID:	410-15639-6		
Client ID:	DUP-20200930				
Operator ID:	ljg30941	ALS Bottle#:	25	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

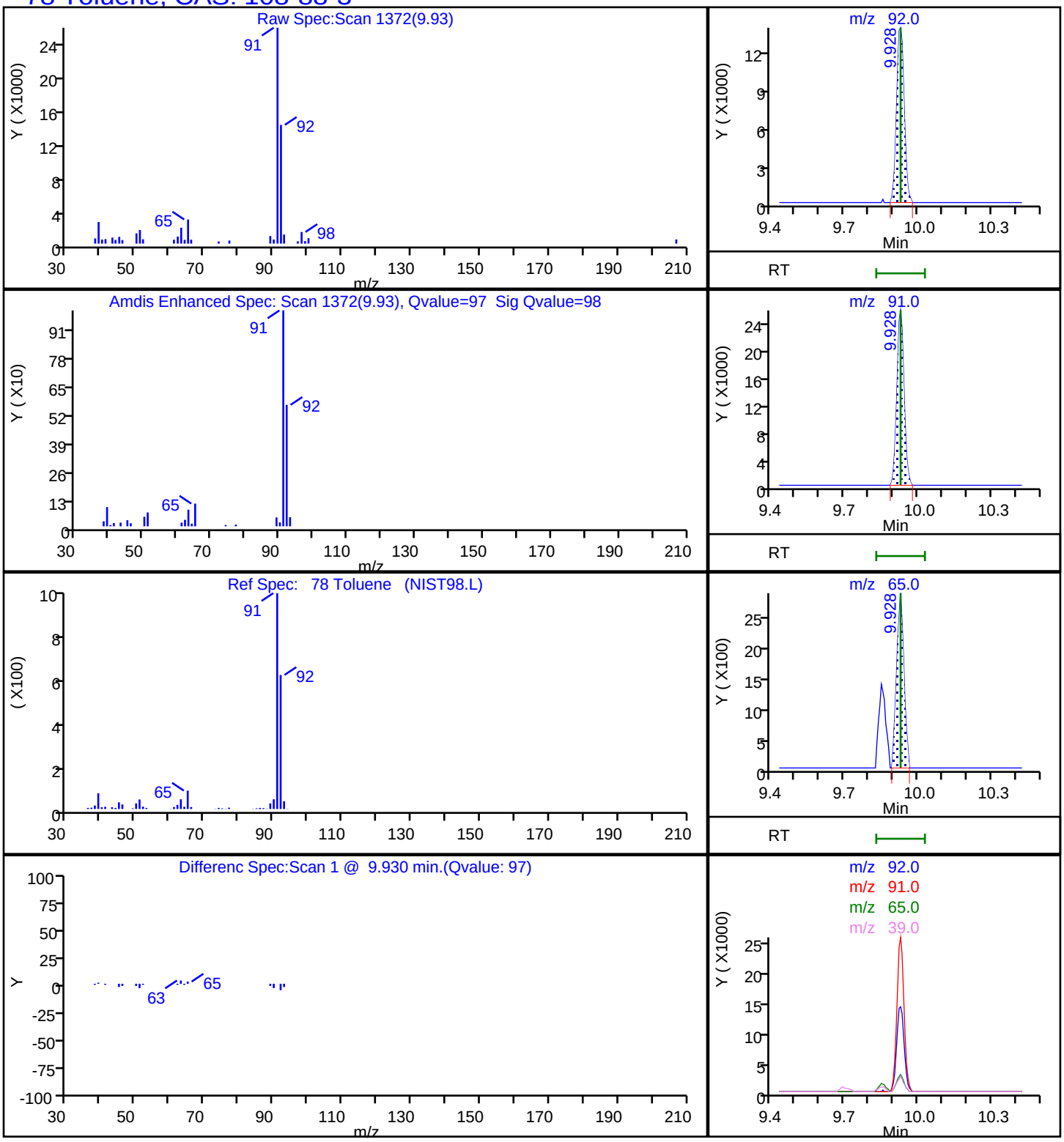
95 Ethylbenzene, CAS: 100-41-4



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06S19.D				
Injection Date:	07-Oct-2020 03:28:30	Instrument ID:	9355		
Lims ID:	410-15639-A-6	Lab Sample ID:	410-15639-6		
Client ID:	DUP-20200930				
Operator ID:	ljg30941	ALS Bottle#:	25	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

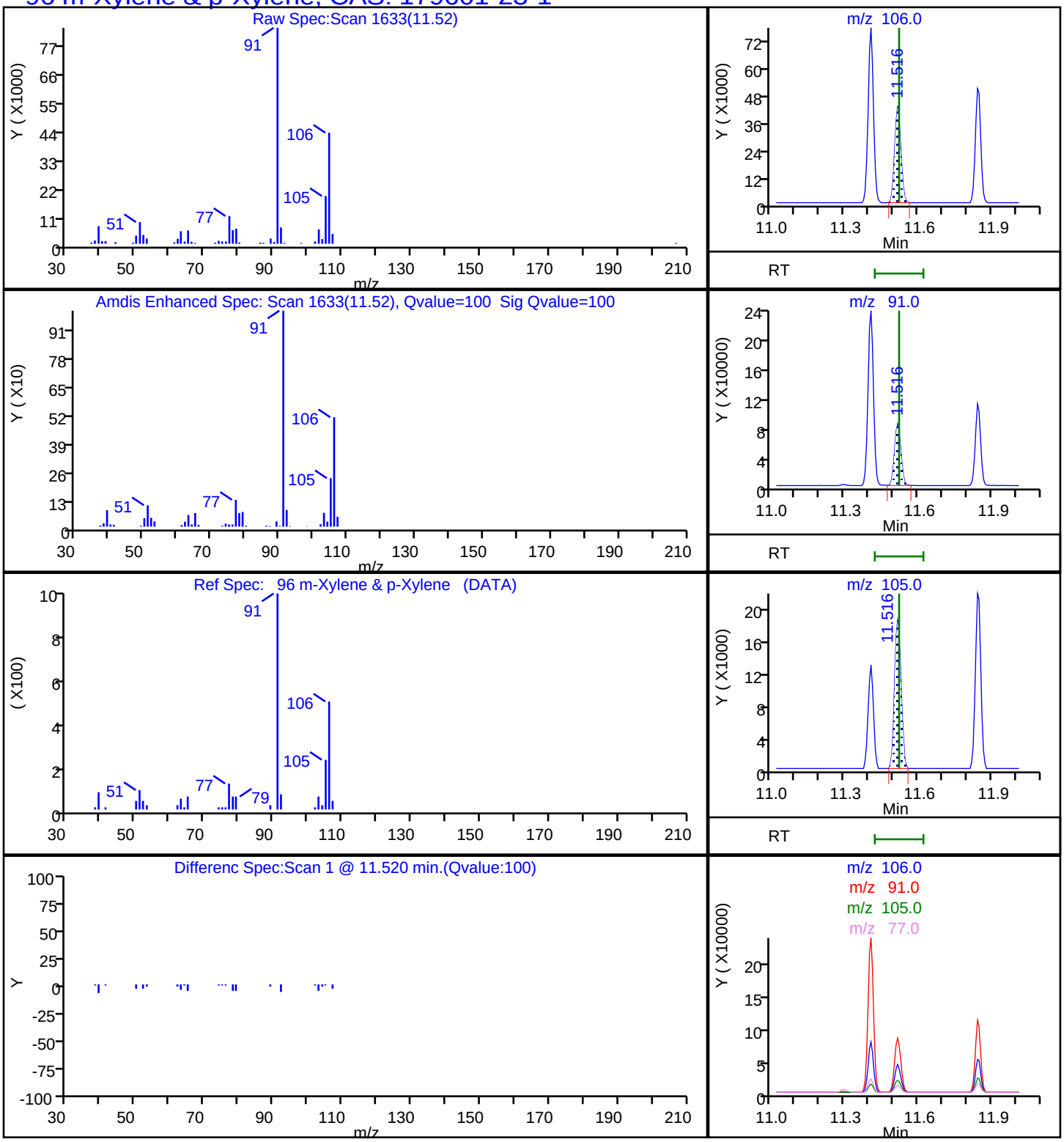
78 Toluene, CAS: 108-88-3



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06S19.D				
Injection Date:	07-Oct-2020 03:28:30	Instrument ID:	9355		
Lims ID:	410-15639-A-6	Lab Sample ID:	410-15639-6		
Client ID:	DUP-20200930				
Operator ID:	ljg30941	ALS Bottle#:	25	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

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



Report Date: 07-Oct-2020 08:49:09 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06S19.D

Injection Date: 07-Oct-2020 03:28:30 Instrument ID: 9355

Lims ID: 410-15639-A-6 Lab Sample ID: 410-15639-6

Client ID: DUP-20200930

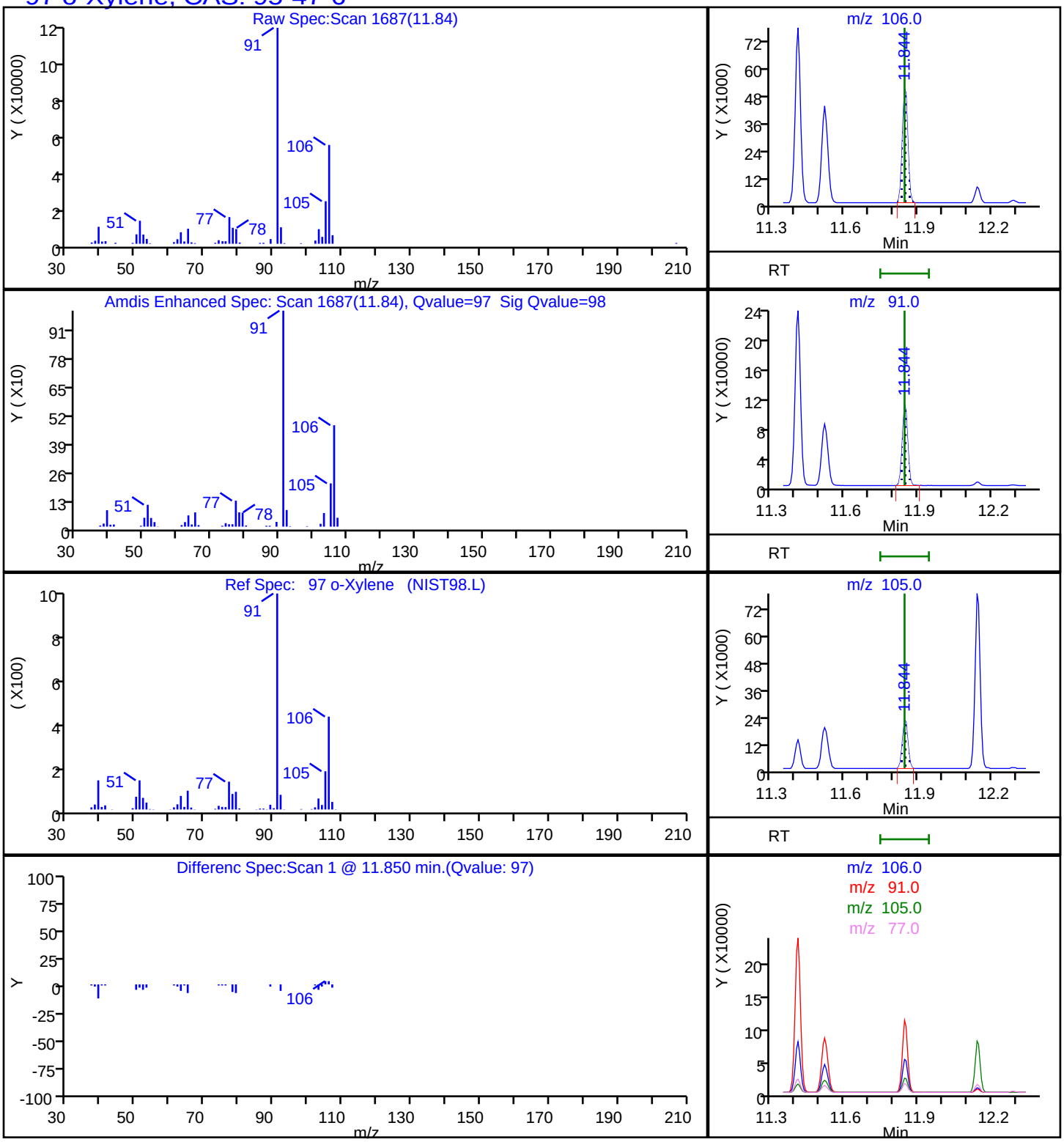
Operator ID: ljg30941 ALS Bottle#: 25 Worklist Smp#: 24

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: MSVoa_9355 Limit Group: MSV - 8260C_D

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

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

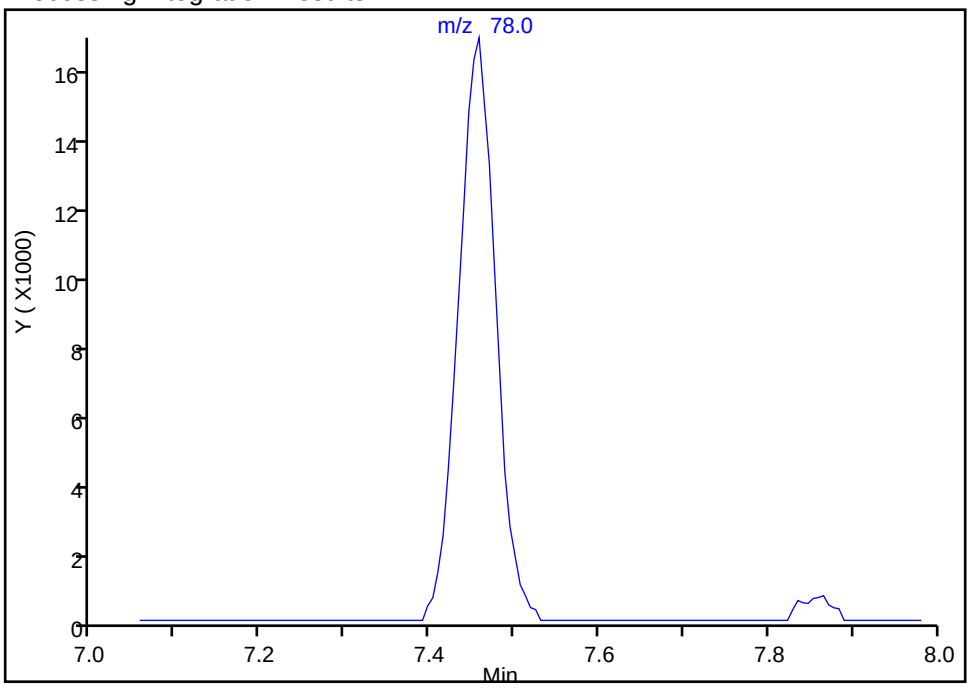
Data File:	\\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06S19.D				
Injection Date:	07-Oct-2020 03:28:30	Instrument ID:	9355		
Lims ID:	410-15639-A-6	Lab Sample ID:	410-15639-6		
Client ID:	DUP-20200930				
Operator ID:	ljg30941	ALS Bottle#:	25	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

57 Benzene, CAS: 71-43-2

Signal: 1

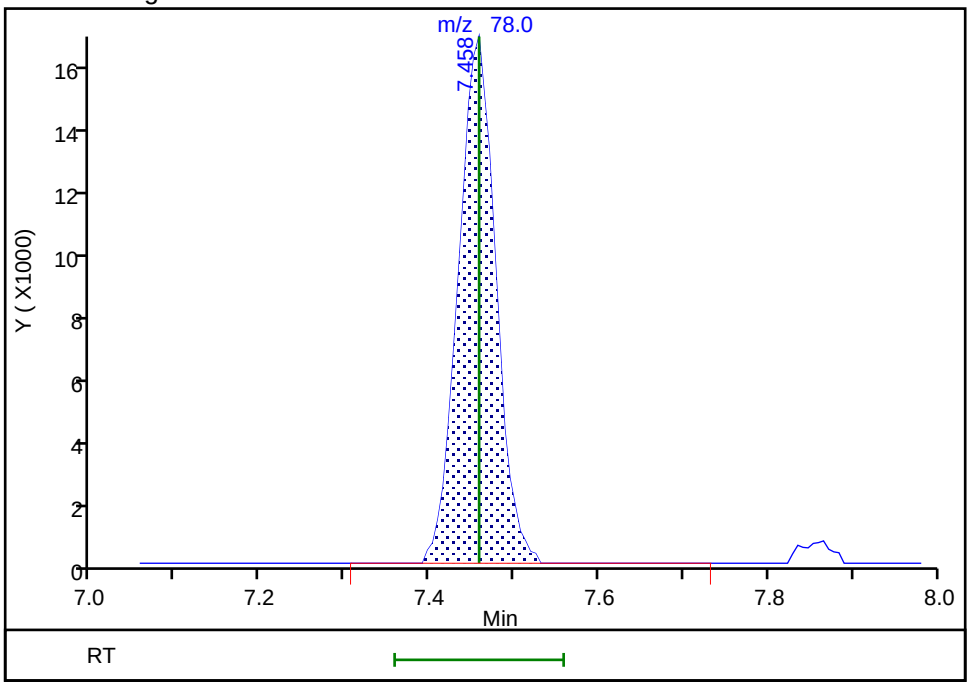
Processing Integration Results

Not Detected
Expected RT: 7.46



Manual Integration Results

RT: 7.46
Area: 49374
Amount: 1.423875
Amount Units: ug/l



Reviewer: mellingerc, 07-Oct-2020 08:36:38
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1 Analy Batch No.: 46013

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/21/2020 14:04 Calibration End Date: 09/21/2020 16:16 Calibration ID: 11387

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-46013/9	Ys21I07.D
Level 2	IC 410-46013/8	Ys21I06.D
Level 3	IC 410-46013/7	Ys21I05.D
Level 4	IC 410-46013/6	Ys21I04.D
Level 5	ICIS 410-46013/5	Ys21I03.D
Level 6	IC 410-46013/4	Ys21I02.D
Level 7	IC 410-46013/3	Ys21I01.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	0.2699 0.3577	0.3428 0.3779	0.3445	0.3284	0.3535	Ave		0.3392			0.1000	10.1		20.0			
Chloromethane	0.3380 0.3475	0.3647 0.3511	0.3780	0.3427	0.3410	Ave		0.3519			0.1000	4.1		20.0			
1,3-Butadiene	0.2667 0.2543	0.2524 0.2454	0.2260	0.2452	0.2424	Ave		0.2475				5.1		20.0			
Vinyl chloride	0.2980 0.3310	0.3409 0.3258	0.3442	0.3223	0.3262	Ave		0.3269			0.1000	4.6		20.0			
Bromomethane	0.2118 0.2203	0.2429 0.2172	0.2482	0.2328	0.2248	Ave		0.2283			0.1000	5.9		20.0			
Chloroethane	0.1903 0.1962	0.2155 0.1897	0.2194	0.2031	0.2008	Ave		0.2021			0.1000	5.7		20.0			
Dichlorofluoromethane	0.4153 0.4483	0.4725 0.4454	0.5003	0.4604	0.4545	Ave		0.4567			0.1000	5.7		20.0			
Trichlorofluoromethane	0.3583 0.4114	0.4214 0.4226	0.4179	0.3957	0.4120	Ave		0.4056			0.1000	5.6		20.0			
n-Pentane	0.4082 0.4129	0.4152 0.3977	0.3448	0.4092	0.4076	Ave		0.3994				6.2		20.0			
Ethyl ether	0.3055 0.3018	0.3096 0.2982	0.2983	0.3058	0.3006	Ave		0.3028				1.4		20.0			
Freon 123a	0.3069 0.3364	0.3386 0.3370	0.3247	0.3387	0.3342	Ave		0.3309				3.5		20.0			
Acrolein	1.9356 2.0094	1.7878 2.0688	2.2846	2.1867	2.0460	Ave		2.0456				7.9		20.0			
1,1-Dichloroethene	0.2109 0.2472	0.2449 0.2442	0.2386	0.2466	0.2416	Ave		0.2391			0.1000	5.3		20.0			
Acetone	0.9693 1.0160	1.0434 1.0937	1.1699	1.1270	0.9990	Ave		1.0598			0.1000	6.9		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.: 410-15639-1 Analy Batch No.: 46013

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/21/2020 14:04 Calibration End Date: 09/21/2020 16:16 Calibration ID: 11387

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	0.2189 0.2610	0.2513 0.2606	0.2284	0.2547	0.2528	Ave		0.2468			0.1000	6.7		20.0			
2-Propanol	0.7562 0.7992	0.7198 0.7942	0.7265	0.7550	0.7799	Ave		0.7615				4.1		20.0			
Methyl iodide	0.3808 0.4439	0.4360 0.4450	0.4292	0.4421	0.4396	Ave		0.4309				5.3		20.0			
Carbon disulfide	0.7507 0.8806	0.8519 0.8792	0.8186	0.8590	0.8584	Ave		0.8426			0.1000	5.4		20.0			
Methyl acetate	0.4099 0.4377	0.4235 0.4394	0.4276	0.4250	0.4298	Ave		0.4276			0.1000	2.3		20.0			
Allyl chloride	0.4014 0.4818	0.4483 0.4671	0.4322	0.4583	0.4702	Ave		0.4513				6.0		20.0			
Methylene Chloride	0.3102 0.3014	0.3047 0.3007	0.3014	0.3065	0.2990	Ave		0.3034			0.1000	1.3		20.0			
t-Butyl alcohol	1.2929 1.4245	1.2826 1.3722	1.3258	1.3550	1.4115	Ave		1.3521				4.1		20.0			
Acrylonitrile	0.1957 0.2361	0.2206 0.2402	0.2489	0.2471	0.2393	Ave		0.2326				8.0		20.0			
Methyl tertiary butyl ether	0.8513 0.9624	0.9050 0.9430	0.9238	0.9581	0.9608	Ave		0.9292			0.1000	4.4		20.0			
trans-1,2-Dichloroethene	0.2607 0.2913	0.2901 0.2855	0.2817	0.2904	0.2869	Ave		0.2838			0.1000	3.8		20.0			
n-Hexane	0.3552 0.5010	0.4416 0.5008	0.3792	0.4732	0.4824	Ave		0.4476				13.2		20.0			
1,1-Dichloroethane	0.4850 0.5366	0.5300 0.5274	0.5185	0.5387	0.5282	Ave		0.5235			0.2000	3.5		20.0			
di-Isopropyl ether	0.8520 1.0322	0.9480 0.9909	0.9741	1.0211	1.0200	Ave		0.9769				6.4		20.0			
2-Chloro-1,3-butadiene	0.3160 0.4738	0.4101 0.4683	0.4181	0.4489	0.4577	Ave		0.4276				12.8		20.0			
Ethyl t-butyl ether	0.7685 0.9578	0.8538 0.9300	0.8970	0.9429	0.9466	Ave		0.8995				7.6		20.0			
2-Butanone	0.2812 0.3162	0.2904 0.3181	0.3390	0.3286	0.3241	Ave		0.3140			0.1000	6.6		20.0			
cis-1,2-Dichloroethene	0.2889 0.3330	0.3314 0.3218	0.3258	0.3339	0.3256	Ave		0.3229			0.1000	4.8		20.0			
2,2-Dichloropropane	0.3254 0.4099	0.3871 0.4011	0.3795	0.3988	0.3996	Ave		0.3859				7.4		20.0			
Propionitrile	1.4468 1.5527	1.5175 1.5926	1.5391	1.5485	1.5265	Ave		1.5319				2.9		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.: 410-15639-1 Analy Batch No.: 46013

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/21/2020 14:04 Calibration End Date: 09/21/2020 16:16 Calibration ID: 11387

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								
Methacrylonitrile	0.2037 0.2314	0.2210 0.2280	0.2256	0.2345	0.2331	Ave		0.2253				4.7		20.0			
Bromochloromethane	0.1463 0.1681	0.1577 0.1648	0.1582	0.1639	0.1689	Ave		0.1611				4.9		20.0			
Tetrahydrofuran	1.1620 1.4691	1.3200 1.5322	1.4925	1.4473	1.4058	Ave		1.4041				9.0		20.0			
Chloroform	0.4536 0.5062	0.4914 0.5011	0.4854	0.5037	0.4995	Ave		0.4916			0.2000	3.7		20.0			
1,1,1-Trichloroethane	0.3652 0.4292	0.4101 0.4286	0.3939	0.4148	0.4153	Ave		0.4081			0.1000	5.5		20.0			
Cyclohexane	0.4303 0.5810	0.5234 0.5689	0.4759	0.5577	0.5649	Ave		0.5289			0.1000	10.6		20.0			
1,1-Dichloropropene	0.3471 0.4369	0.4089 0.4223	0.3979	0.4307	0.4245	Ave		0.4097				7.5		20.0			
Carbon tetrachloride	0.2851 0.3659	0.3325 0.3616	0.3218	0.3480	0.3535	Ave		0.3383			0.1000	8.3		20.0			
Isobutyl alcohol	0.4034 0.4935	0.4113 0.4729	0.4402	0.4471	0.4706	Ave		0.4484				7.4		20.0			
Benzene	1.2106 1.2923	1.3045 1.2462	1.2608	1.2945	1.2754	Ave		1.2692			0.5000	2.6		20.0			
1,2-Dichloroethane	0.4264 0.4134	0.4181 0.4120	0.4048	0.4175	0.4125	Ave		0.4150			0.1000	1.6		20.0			
t-Amyl methyl ether	0.7616 0.9402	0.8392 0.8991	0.8805	0.9311	0.9348	Ave		0.8838				7.3		20.0			
n-Heptane	0.4578 0.5660	0.5308 0.5514	0.4185	0.5306	0.5387	Ave		0.5134				10.5		20.0			
n-Butanol	0.3201 0.4564	0.3623 0.4084	0.3977	0.4073	0.4276	Ave		0.3971				11.2		20.0			
Trichloroethene	0.2828 0.3229	0.3126 0.3202	0.3027	0.3175	0.3169	Ave		0.3108			0.2000	4.5		20.0			
Methylcyclohexane	0.4381 0.6059	0.5379 0.5679	0.4796	0.5806	0.5958	Ave		0.5437			0.1000	11.6		20.0			
1,2-Dichloropropane	0.3036 0.3376	0.3346 0.3115	0.3292	0.3421	0.3387	Ave		0.3282			0.1000	4.5		20.0			
t-Amyl ethyl ether	0.3661 0.4781	0.4260 0.4457	0.4429	0.4657	0.4679	Ave		0.4418				8.5		20.0			
Methyl methacrylate	0.2544 0.3654	0.3065 0.3660	0.3246	0.3437	0.3580	Ave		0.3312				12.2		20.0			
1,4-Dioxane	0.0675 0.0942	0.0831 0.0853	0.0875	0.0897	0.0919	Ave		0.0856			0.0050	10.3		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.: 410-15639-1 Analy Batch No.: 46013

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/21/2020 14:04 Calibration End Date: 09/21/2020 16:16 Calibration ID: 11387

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								
Dibromomethane	0.1823 0.2084	0.2004 0.2075	0.2005	0.2063	0.2051	Ave		0.2015				4.5		20.0			
Bromodichloromethane	0.3049 0.3948	0.3365 0.4025	0.3488	0.3710	0.3825	Ave		0.3630			0.2000	9.6		20.0			
2-Nitropropane	1.7047 2.3966	1.8377 2.5330	2.2546	2.3204	2.2772	Ave		2.1892				13.8		20.0			
2-Chloroethyl vinyl ether	0.1820 0.2944	0.2177 0.2829	0.2530	0.2725	0.2835	Ave		0.2551				16.1		20.0			
cis-1,3-Dichloropropene	0.3989 0.5523	0.4628 0.5448	0.4946	0.5271	0.5370	Ave		0.5025			0.2000	11.0		20.0			
4-Methyl-2-pentanone	0.4332 0.6053	0.5222 0.5721	0.6359	0.6378	0.6304	Ave		0.5767			0.1000	13.1		20.0			
Toluene	1.0477 1.1085	1.0948 1.0814	1.0685	1.1049	1.0981	Ave		1.0863			0.4000	2.0		20.0			
trans-1,3-Dichloropropene	0.4926 0.7026	0.5759 0.7125	0.6153	0.6572	0.6812	Ave		0.6339			0.1000	12.4		20.0			
Ethyl methacrylate	0.4965 0.8097	0.5903 0.8055	0.6874	0.7482	0.7892	Ave		0.7038				17.1		20.0			
1,1,2-Trichloroethane	0.3753 0.4322	0.4147 0.4308	0.4131	0.4237	0.4296	Ave		0.4171			0.1000	4.8		20.0			
Tetrachloroethene	0.4715 0.5467	0.5363 0.4968	0.4959	0.5210	0.5420	Ave		0.5158			0.2000	5.5		20.0			
1,3-Dichloropropane	0.6683 0.7616	0.7195 0.7465	0.7277	0.7568	0.7533	Ave		0.7334				4.4		20.0			
2-Hexanone	0.4784 0.6635	0.5473 0.6347	0.6885	0.6857	0.6985	Ave		0.6281			0.1000	13.3		20.0			
Dibromochloromethane	0.3169 0.4588	0.3636 0.4737	0.3884	0.4184	0.4389	Ave		0.4084				13.6		20.0			
1,2-Dibromoethane	0.3788 0.4785	0.4282 0.4852	0.4405	0.4587	0.4705	Ave		0.4486			0.1000	8.2		20.0			
1-Chlorohexane	0.5647 0.6217	0.5780 0.6045	0.5305	0.5949	0.6072	Ave		0.5859				5.3		20.0			
Chlorobenzene	1.1732 1.2307	1.2387 1.1694	1.2049	1.2338	1.2228	Ave		1.2105			0.5000	2.4		20.0			
1,1,1,2-Tetrachloroethane	0.3355 0.4083	0.3752 0.3953	0.3856	0.3975	0.4064	Ave		0.3862				6.5		20.0			
Ethylbenzene	1.8276 2.1301	2.0583 1.9222	1.9968	2.1157	2.1120	Ave		2.0233			0.1000	5.6		20.0			
m&p-Xylene	0.6950 0.8314	0.8075 0.7473	0.7964	0.8344	0.8324	Ave		0.7921			0.1000	6.7		20.0			

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1 Analy Batch No.: 46013

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/21/2020 14:04 Calibration End Date: 09/21/2020 16:16 Calibration ID: 11387

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								
o-Xylene	0.6570 0.8119	0.7619 0.7439	0.7699	0.8154	0.8072	Ave		0.7667			0.3000	7.3		20.0			
Styrene	0.9563 1.3872	1.1986 1.2735	1.2581	1.3445	1.3744	Ave		1.2561			0.3000	11.8		20.0			
Bromoform	0.2199 0.3617	0.2555 0.3730	0.2803	0.3109	0.3416	Ave		0.3061			0.1000	18.6		20.0			
Isopropylbenzene	1.6008 2.1118	1.9744 1.9021	1.9302	2.0969	2.0885	Ave		1.9578			0.1000	9.1		20.0			
Cyclohexanone	0.3319 0.4382	0.3981 0.3334	0.3990	0.4212	0.4394	Ave		0.3944				11.5		20.0			
1,1,2,2-Tetrachloroethane	1.2038 1.3918	1.2811 1.3095	1.3444	1.3618	1.3828	Ave		1.3250			0.3000	5.0		20.0			
trans-1,4-Dichloro-2-butene	0.3956 0.4865	0.4323 0.4380	0.4510	0.4702	0.4840	Ave		0.4511				7.2		20.0			
Bromobenzene	0.9079 0.9688	0.9747 0.8653	0.9583	0.9833	0.9770	Ave		0.9479				4.7		20.0			
1,2,3-Trichloropropane	0.3984 0.4232	0.4114 0.4014	0.4143	0.4140	0.4232	Ave		0.4123				2.3		20.0			
N-Propylbenzene	4.0926 4.6124	4.5860 3.9516	4.3129	4.6589	4.5984	Ave		4.4018				6.5		20.0			
2-Chlorotoluene	0.8307 0.9446	0.9348 0.9057	0.8879	0.9462	0.9360	Ave		0.9123				4.6		20.0			
1,3,5-Trimethylbenzene	2.6731 3.3664	3.1991 3.0780	3.1280	3.3873	3.3365	Ave		3.1669				7.9		20.0			
4-Chlorotoluene	0.8226 0.9890	0.9599 0.9434	0.9396	0.9907	0.9828	Ave		0.9469				6.2		20.0			
tert-Butylbenzene	0.5517 0.7151	0.6524 0.6730	0.6343	0.7007	0.7069	Ave		0.6620				8.6		20.0			
Pentachloroethane	0.3318 0.4581	0.3839 0.4910	0.4096	0.4496	0.4325	Ave		0.4224				12.5		20.0			
1,2,4-Trimethylbenzene	2.6752 3.4948	3.2747 3.1034	3.2581	3.4995	3.4777	Ave		3.2548				9.1		20.0			
sec-Butylbenzene	3.4224 4.3662	4.1858 3.7260	3.8716	4.3789	4.3326	Ave		4.0405				9.2		20.0			
1,3-Dichlorobenzene	1.7776 1.8687	1.9040 1.6578	1.8480	1.9056	1.8847	Ave		1.8352			0.6000	4.9		20.0			
p-Isopropyltoluene	2.8012 3.7163	3.4979 3.1769	3.3280	3.7512	3.7178	Ave		3.4271				10.3		20.0			
1,4-Dichlorobenzene	1.9004 1.9205	1.9529 1.7020	1.8891	1.9715	1.9278	Ave		1.8949			0.5000	4.7		20.0			

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1 Analy Batch No.: 46013

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/21/2020 14:04 Calibration End Date: 09/21/2020 16:16 Calibration ID: 11387

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-Trimethylbenzene	3.0121 3.4234	3.2440 2.9765	3.2177	3.4230	3.4348	Ave		3.2474				6.0		20.0			
Benzyl chloride	1.9724 2.9714	2.2683 2.7979	2.5490	2.7674	2.9102	Ave		2.6052				14.1		20.0			
1,3-Diethylbenzene	1.6837 2.2449	2.0405 2.0110	2.0156	2.2121	2.2298	Ave		2.0625				9.5		20.0			
1,4-Diethylbenzene	1.7391 2.3459	2.1777 2.0580	2.1413	2.3470	2.3532	Ave		2.1660				10.2		20.0			
n-Butylbenzene	1.6265 1.9344	1.9097 1.7234	1.7340	1.9457	1.9363	Ave		1.8300				7.2		20.0			
1,2-Dichlorobenzene	1.8017 1.8172	1.8377 1.6460	1.8090	1.8619	1.8314	Ave		1.8007			0.4000	3.9		20.0			
1,2-Diethylbenzene	1.5220 1.8251	1.7296 1.6246	1.7217	1.8396	1.8407	Ave		1.7290				7.0		20.0			
1,2-Dibromo-3-Chloropropane	0.2572 0.3696	0.2770 0.3571	0.3240	0.3396	0.3598	Ave		0.3263			0.0500	13.3		20.0			
1,3,5-Trichlorobenzene	1.3576 1.4723	1.4179 1.3592	1.3495	1.4885	1.4676	Ave		1.4161				4.3		20.0			
1,2,4-Trichlorobenzene	1.2498 1.3888	1.2868 1.2830	1.2649	1.3794	1.3881	Ave		1.3201			0.2000	4.7		20.0			
Hexachlorobutadiene	0.6101 0.6463	0.6220 0.6017	0.5033	0.6499	0.6364	Ave		0.6100				8.3		20.0			
Naphthalene	3.7785 4.7727	4.1471 3.9099	4.5829	4.9011	4.9253	Ave		4.4311				10.8		20.0			
1,2,3-Trichlorobenzene	1.2360 1.3148	1.2665 1.2327	1.2586	1.3483	1.3438	Ave		1.2858				3.8		20.0			
2-Methylnaphthalene	1.9506 2.7550	2.1470 2.5263	2.4055	2.7921	2.9169	Ave		2.4991				14.2		20.0			
Dibromofluoromethane (Surr)	0.2232 0.2250	0.2237 0.2282	0.2237	0.2238	0.2259	Ave		0.2248				0.8		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0614 0.0613	0.0622 0.0620	0.0615	0.0622	0.0620	Ave		0.0618				0.6		20.0			
Toluene-d8 (Surr)	1.3345 1.3559	1.3474 1.4069	1.3490	1.3397	1.3548	Ave		1.3555				1.8		20.0			
4-Bromofluorobenzene (Surr)	0.5038 0.5068	0.5099 0.5287	0.5075	0.4992	0.5019	Ave		0.5083				1.9		20.0			

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1 Analy Batch No.: 46013

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/21/2020 14:04 Calibration End Date: 09/21/2020 16:16 Calibration ID: 11387

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-46013/9	Ys21I07.D
Level 2	IC 410-46013/8	Ys21I06.D
Level 3	IC 410-46013/7	Ys21I05.D
Level 4	IC 410-46013/6	Ys21I04.D
Level 5	ICIS 410-46013/5	Ys21I03.D
Level 6	IC 410-46013/4	Ys21I02.D
Level 7	IC 410-46013/3	Ys21I01.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	6631 883268	33679 2746005	84757	160331	437139	1.00 100	4.00 300	10.0	20.0	50.0
Chloromethane	FB	Ave	8305 858020	35831 2551175	93002	167351	421728	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Butadiene	FB	Ave	6553 627958	24795 1783243	55600	119708	299784	1.00 100	4.00 300	10.0	20.0	50.0
Vinyl chloride	FB	Ave	7321 817374	33492 2367430	84678	157364	403407	1.00 100	4.00 300	10.0	20.0	50.0
Bromomethane	FB	Ave	5203 543994	23864 1577960	61068	113648	277955	1.00 100	4.00 300	10.0	20.0	50.0
Chloroethane	FB	Ave	4676 484348	21170 1378299	53986	99150	248271	1.00 100	4.00 300	10.0	20.0	50.0
Dichlorofluoromethane	FB	Ave	10204 1106831	46420 3236600	123086	224811	562074	1.00 100	4.00 300	10.0	20.0	50.0
Trichlorofluoromethane	FB	Ave	8804 1015757	41394 3070694	102811	193221	509501	1.00 100	4.00 300	10.0	20.0	50.0
n-Pentane	FB	Ave	10030 1019425	40784 2889956	84823	199789	504087	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl ether	FB	Ave	7504 745197	30413 2166313	73378	149303	371639	1.000 100.0	4.00 300	10.00	20.0	50.0
Freon 123a	FB	Ave	7539 830542	33259 2448461	79901	165381	413279	1.00 100	4.00 300	10.0	20.0	50.0
Acrolein	TBAd 10	Ave	29639 2979872	108315 8786392	344988	665218	1601740	10.0 1002	40.1 3006	100	200	501
1,1-Dichloroethene	FB	Ave	5182 610322	24056 1774225	58695	120415	298740	1.00 100	4.00 300	10.0	20.0	50.0
Acetone	TBAd 10	Ave	2963 300779	12620 927285	35265	68443	156121	2.00 200	8.00 600	20.0	40.0	100
Freon 113	FB	Ave	5379 644448	24687 1893636	56207	124363	312624	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.: 410-15639-1 Analy Batch No.: 46013

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/21/2020 14:04 Calibration End Date: 09/21/2020 16:16 Calibration ID: 11387

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
2-Propanol	TBAd10	Ave	23116 591468	87057 1683387	109505	229246	304713	20.0 500	80.0 1500	100	200	250
Methyl iodide	FB	Ave	9355 1095964	42828 3233189	105603	215846	543675	1.00 100	4.00 300	10.0	20.0	50.0
Carbon disulfide	FB	Ave	18443 2174260	83692 6388629	201411	419442	1061601	1.00 100	4.00 300	10.0	20.0	50.0
Methyl acetate	FB	Ave	10070 1080650	41607 3192626	105217	207527	531542	1.00 100	4.00 300	10.0	20.0	50.0
Allyl chloride	FB	Ave	9863 1189766	44038 3393905	106333	223781	581430	1.00 100	4.00 300	10.0	20.0	50.0
Methylene Chloride	FB	Ave	7622 744240	29935 2184708	74168	149641	369720	1.00 100	4.00 300	10.0	20.0	50.0
t-Butyl alcohol	TBAd10	Ave	39521 1054249	155131 2908575	199824	411431	551476	20.0 500	80.0 1500	100	200	250
Acrylonitrile	FB	Ave	4808 583093	21667 1745454	61244	120634	295912	1.00 100	4.00 300	10.0	20.0	50.0
Methyl tertiary butyl ether	FB	Ave	20916 2376331	88909 6851927	227295	467846	1188208	1.00 100	4.00 300	10.0	20.0	50.0
trans-1,2-Dichloroethene	FB	Ave	6405 719313	28500 2074235	69318	141817	354795	1.00 100	4.00 300	10.0	20.0	50.0
n-Hexane	FB	Ave	8726 1236979	43381 3638767	93288	231063	596571	1.00 100	4.00 300	10.0	20.0	50.0
1,1-Dichloroethane	FB	Ave	11915 1324935	52063 3832233	127564	263028	653161	1.00 100	4.00 300	10.0	20.0	50.0
di-Isopropyl ether	FB	Ave	20932 2548766	93126 7199734	239657	498606	1261425	1.00 100	4.00 300	10.0	20.0	50.0
2-Chloro-1,3-butadiene	FB	Ave	7764 1169812	40290 3402602	102873	219195	565979	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl t-butyl ether	FB	Ave	18880 2365040	83871 6757627	220707	460384	1170641	1.00 100	4.00 300	10.0	20.0	50.0
2-Butanone	FB	Ave	13817 1561731	57059 4622510	166833	320888	801701	2.00 200	8.00 600	20.0	40.0	100
cis-1,2-Dichloroethene	FB	Ave	7099 822263	32554 2338387	80157	163013	402618	1.00 100	4.00 300	10.0	20.0	50.0
2,2-Dichloropropane	FB	Ave	7995 1012041	38029 2914508	93377	194711	494182	1.00 100	4.00 300	10.0	20.0	50.0
Propionitrile	TBAd10	Ave	44226 1149182	183530 3375653	231969	470188	596390	20.0 500	80.0 1500	100	200	250
Methacrylonitrile	FB	Ave	50043 1428517	217105 4142014	277573	572519	720629	10.0 250	40.0 750	50.0	100	125
Bromochloromethane	FB	Ave	3595 415125	15491 1197452	38928	80022	208833	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.: 410-15639-1 Analy Batch No.: 46013

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/21/2020 14:04 Calibration End Date: 09/21/2020 16:16 Calibration ID: 11387

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
Tetrahydrofuran	TBAd 10	Ave	3552 434920	15965 1299067	44990	87891	219701	2.00 200	8.00 600	20.0	40.0	100
Chloroform	FB	Ave	11144 1249872	48275 3641271	119436	245951	617781	1.00 100	4.00 300	10.0	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	8972 1059676	40287 3113940	96903	202560	513591	1.00 100	4.00 300	10.0	20.0	50.0
Cyclohexane	FB	Ave	10573 1434533	51418 4133632	117085	272325	698591	1.00 100	4.00 300	10.0	20.0	50.0
1,1-Dichloropropene	FB	Ave	8527 1078676	40165 3068317	97899	210325	524933	1.00 100	4.00 300	10.0	20.0	50.0
Carbon tetrachloride	FB	Ave	7005 903400	32660 2627127	79176	169902	437125	1.00 100	4.00 300	10.0	20.0	50.0
Isobutyl alcohol	TBAd 10	Ave	30830 913062	124373 2505985	165884	339385	459671	50.0 1250	200 3750	250	500	625
Benzene	FB	Ave	29742 3191034	128150 9055166	310218	632101	1577265	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichloroethane	FB	Ave	10477 1020740	41077 2993959	99585	203835	510142	1.00 100	4.00 300	10.0	20.0	50.0
t-Amyl methyl ether	FB	Ave	18711 2321429	82444 6532991	216627	454614	1156023	1.00 100	4.00 300	10.0	20.0	50.0
n-Heptane	FB	Ave	11247 1397602	52144 4006320	102969	259083	666191	1.00 100	4.00 300	10.0	20.0	50.0
n-Butanol	TBAd 10	Ave	48928 1689053	219077 4328465	299744	618334	835300	100 2500	400 7500	500	1000	1250
Trichloroethene	FB	Ave	6949 797314	30711 2326396	74480	155041	391925	1.00 100	4.00 300	10.0	20.0	50.0
Methylcyclohexane	FB	Ave	10763 1496146	52845 4126219	117995	283474	736788	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichloropropane	FB	Ave	7458 833575	32869 2263549	81002	167063	418875	1.00 100	4.00 300	10.0	20.0	50.0
t-Amyl ethyl ether	FB	Ave	8995 1180426	41848 3238689	108966	227369	578656	1.00 100	4.00 300	10.0	20.0	50.0
Methyl methacrylate	FB	Ave	6249 902323	30114 2659710	79874	167800	442675	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Dioxane	TBAd 10	Ave	5160 174260	25132 451834	32965	68071	89794	50.0 1250	200 3750	250	500	625
Dibromomethane	FB	Ave	4479 514484	19686 1507989	49343	100721	253622	1.00 100	4.00 300	10.0	20.0	50.0
Bromodichloromethane	FB	Ave	7491 974790	33057 2924690	85822	181143	473007	1.00 100	4.00 300	10.0	20.0	50.0
2-Nitropropane	TBAd 10	Ave	5211 709478	22226 2147634	67963	140913	355882	2.00 200	8.00 600	20.0	40.0	100

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1 Analy Batch No.: 46013

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/21/2020 14:04 Calibration End Date: 09/21/2020 16:16 Calibration ID: 11387

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
2-Chloroethyl vinyl ether	FB	Ave	4472 727002	21388 2055304	62241	133079	350593	1.00 100	4.00 300	10.0	20.0	50.0
cis-1,3-Dichloropropene	FB	Ave	9801 1363728	45462 3958803	121689	257357	664131	1.00 100	4.00 300	10.0	20.0	50.0
4-Methyl-2-pentanone	FB	Ave	21288 2989218	102602 8314275	312890	622840	1559111	2.00 200	8.00 600	20.0	40.0	100
Toluene	CBZd5	Ave	18779 1998468	78111 5631593	191009	396678	989811	1.00 100	4.00 300	10.0	20.0	50.0
trans-1,3-Dichloropropene	CBZd5	Ave	8829 1266619	41090 3710453	109996	235951	614061	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl methacrylate	CBZd5	Ave	8899 1459727	42116 4194753	122874	268605	711339	1.00 100	4.00 300	10.0	20.0	50.0
1,1,2-Trichloroethane	CBZd5	Ave	6728 779148	29588 2243513	73851	152127	387230	1.00 100	4.00 300	10.0	20.0	50.0
Tetrachloroethene	CBZd5	Ave	8452 985559	38264 2587272	88652	187061	488589	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Dichloropropane	CBZd5	Ave	11979 1373048	51335 3887370	130080	271681	679043	1.00 100	4.00 300	10.0	20.0	50.0
2-Hexanone	CBZd5	Ave	17149 2392257	78100 6610429	246169	492316	1259274	2.00 200	8.00 600	20.0	40.0	100
Dibromochloromethane	CBZd5	Ave	5681 827168	25942 2467107	69438	150207	395627	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dibromoethane	CBZd5	Ave	6789 862703	30549 2526625	78744	164693	424079	1.00 100	4.00 300	10.0	20.0	50.0
1-Chlorohexane	CBZd5	Ave	10122 1120872	41239 3148232	94831	213580	547359	1.00 100	4.00 300	10.0	20.0	50.0
Chlorobenzene	CBZd5	Ave	21030 2218802	88376 6089776	215395	442946	1102173	1.00 100	4.00 300	10.0	20.0	50.0
1,1,1,2-Tetrachloroethane	CBZd5	Ave	6013 736059	26771 2058443	68933	142692	366359	1.00 100	4.00 300	10.0	20.0	50.0
Ethylbenzene	CBZd5	Ave	32759 3840223	146854 10010518	356947	759572	1903758	1.00 100	4.00 300	10.0	20.0	50.0
m&p-Xylene	CBZd5	Ave	24914 2997830	115223 7783240	284736	599144	1500680	2.00 200	8.00 600	20.0	40.0	100
o-Xylene	CBZd5	Ave	11777 1463748	54358 3873954	137624	292724	727624	1.00 100	4.00 300	10.0	20.0	50.0
Styrene	CBZd5	Ave	17141 2500873	85518 6632146	224901	482706	1238906	1.00 100	4.00 300	10.0	20.0	50.0
Bromoform	CBZd5	Ave	3941 652070	18229 1942528	50108	111608	307903	1.00 100	4.00 300	10.0	20.0	50.0
Isopropylbenzene	CBZd5	Ave	28693 3807297	140862 9905647	345051	752800	1882519	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.: 410-15639-1 Analy Batch No.: 46013

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/21/2020 14:04 Calibration End Date: 09/21/2020 16:16 Calibration ID: 11387

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
Cyclohexanone	TBAd 10	Ave	25361 810730	120358 1766458	150352	319693	429112	50.0 1250	200 3750	250	500	625
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	11913 1365620	50576 3701640	131522	265291	678786	1.00 100	4.00 300	10.0	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	39148 1193300	170675 3095441	220629	458012	593997	10.0 250	40.0 750	50.0	100	125
Bromobenzene	DCBd 4	Ave	8985 950570	38480 2445940	93751	191563	479583	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	3943 415277	16243 1134658	40529	80660	207755	1.00 100	4.00 300	10.0	20.0	50.0
N-Propylbenzene	DCBd 4	Ave	40502 4525639	181045 11169896	421938	907607	2257212	1.00 100	4.00 300	10.0	20.0	50.0
2-Chlorotoluene	DCBd 4	Ave	8221 926878	36904 2560219	86860	184322	459461	1.00 100	4.00 300	10.0	20.0	50.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	26454 3303117	126291 8700354	306013	659883	1637790	1.00 100	4.00 300	10.0	20.0	50.0
4-Chlorotoluene	DCBd 4	Ave	8141 970376	37896 2666645	91927	193000	482415	1.00 100	4.00 300	10.0	20.0	50.0
tert-Butylbenzene	DCBd 4	Ave	5460 701688	25754 1902452	62050	136501	347019	1.00 100	4.00 300	10.0	20.0	50.0
Pentachloroethane	DCBd 4	Ave	3284 449477	15154 1387883	40076	87585	212303	1.00 100	4.00 300	10.0	20.0	50.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	26475 3429071	129276 8772386	318745	681735	1707072	1.00 100	4.00 300	10.0	20.0	50.0
sec-Butylbenzene	DCBd 4	Ave	33870 4284058	165245 10532028	378760	853050	2126711	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Dichlorobenzene	DCBd 4	Ave	17592 1833532	75167 4686177	180796	371225	925150	1.00 100	4.00 300	10.0	20.0	50.0
p-Isopropyltoluene	DCBd 4	Ave	27722 3646411	138087 8980030	325587	730779	1824960	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Dichlorobenzene	DCBd 4	Ave	18807 1884428	77097 4810936	184814	384061	946277	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	29809 3358984	128067 8413636	314791	666830	1686053	1.00 100	4.00 300	10.0	20.0	50.0
Benzyl chloride	DCBd 4	Ave	19520 2915475	89546 7908676	249368	539113	1428546	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Diethylbenzene	DCBd 4	Ave	16663 2202657	80554 5684502	197193	430945	1094557	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Diethylbenzene	DCBd 4	Ave	17211 2301764	85969 5817375	209487	457223	1155096	1.00 100	4.00 300	10.0	20.0	50.0
n-Butylbenzene	DCBd 4	Ave	16097 1898046	75389 4871567	169637	379050	950445	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.: 410-15639-1 Analy Batch No.: 46013

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/21/2020 14:04 Calibration End Date: 09/21/2020 16:16 Calibration ID: 11387

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
1,2-Dichlorobenzene	DCBd 4	Ave	17830 1783037	72547 4652551	176976	362710	898969	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Diethylbenzene	DCBd 4	Ave	15062 1790766	68281 4592150	168434	358370	903553	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	2545 362697	10936 1009341	31701	66152	176605	1.00 100	4.00 300	10.0	20.0	50.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	13435 1444574	55977 3841929	132019	289970	720406	1.00 100	4.00 300	10.0	20.0	50.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	12369 1362645	50801 3626613	123751	268731	681392	1.00 100	4.00 300	10.0	20.0	50.0
Hexachlorobutadiene	DCBd 4	Ave	6038 634116	24556 1700929	49237	126602	312402	1.00 100	4.00 300	10.0	20.0	50.0
Naphthalene	DCBd 4	Ave	37394 4682947	163716 11051928	448351	954779	2417681	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	12232 1290041	49997 3484288	123129	262663	659629	1.00 100	4.00 300	10.0	20.0	50.0
2-Methylnaphthalene	DCBd 4	Ave	19304 2703230	84757 7140927	235336	543926	1431828	1.00 100	4.00 300	10.0	20.0	50.0
Dibromofluoromethane (Surr)	FB	Ave	274168 277810	274708 276366	275143	273195	279306	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	75441 75682	76362 75082	75625	75896	76694	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBZd 5	Ave	1196006 1222224	1201608 1221109	1205739	1202459	1221242	50.0 50.0	50.0 50.0	50.0	50.0	50.0
4-Bromofluorobenzene (Surr)	CBZd 5	Ave	451548 456853	454722 458896	453590	448059	452437	50.0 50.0	50.0 50.0	50.0	50.0	50.0

Curve Type Legend:
Ave = Average ISTD

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I01.D
Lims ID: IC level7 300
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 21-Sep-2020 14:04:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0010935-003
Misc. Info.: IC LEVEL7 300
Operator ID: kas02648 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub2

Method: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 21-Sep-2020 18:07:47 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1029

First Level Reviewer: campbellme Date: 21-Sep-2020 16:25:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.037	2.044	-0.007	99	2746005	300.0	334.2	
4 Chloromethane	50	2.250	2.257	-0.007	99	2551175	300.0	299.3	
5 Butadiene	39	2.360	2.366	-0.006	91	1783243	300.0	297.5	
6 Vinyl chloride	62	2.372	2.378	-0.006	98	2367430	300.0	299.0	
8 Bromomethane	94	2.695	2.701	-0.007	90	1577960	300.0	285.4	
9 Chloroethane	64	2.786	2.792	-0.006	100	1378299	300.0	281.5	
10 Dichlorofluoromethane	67	3.029	3.029	0.000	97	3236600	300.0	292.6	
11 Trichlorofluoromethane	101	3.114	3.121	-0.007	98	3070694	300.0	312.6	
12 Pentane	43	3.139	3.151	-0.012	96	2889956	300.0	298.8	
14 Ethyl ether	59	3.352	3.364	-0.012	91	2166313	300.0	295.4	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.431	3.431	0.000	95	2448461	300.0	305.5	
16 Acrolein	56	3.516	3.528	-0.012	99	8786392	3005.6	3039.7	
17 1,1-Dichloroethene	96	3.680	3.680	0.000	98	1774225	300.0	306.3	
18 Acetone	58	3.686	3.692	-0.006	100	927285	600.0	619.2	
19 112TCTFE	101	3.717	3.723	-0.006	93	1893636	300.0	316.8	
20 Isopropyl alcohol	45	3.856	3.863	-0.007	100	1683387	1500.0	1564.3	
21 Iodomethane	142	3.887	3.893	-0.006	98	3233189	300.0	309.8	
22 Carbon disulfide	76	4.009	4.009	0.000	99	6388629	300.0	313.0	
24 Methyl acetate	43	4.124	4.137	-0.013	98	3192626	300.0	308.3	
25 3-Chloro-1-propene	41	4.161	4.173	-0.012	94	3393905	300.0	310.5	
* 26 t-Butyl alcohol-d10 (IS)	65	4.349	4.356	-0.007	87	353269	250.0	250.0	
27 Methylene Chloride	84	4.355	4.368	-0.013	92	2184708	300.0	297.3	
28 2-Methyl-2-propanol	59	4.477	4.477	0.000	99	2908575	1500.0	1522.3	
30 Acrylonitrile	53	4.672	4.684	-0.012	99	1745454	300.0	309.9	
31 Methyl tert-butyl ether	73	4.775	4.781	-0.006	95	6851927	300.0	304.4	
32 trans-1,2-Dichloroethene	96	4.787	4.800	-0.013	99	2074235	300.0	301.8	
33 Hexane	57	5.207	5.219	-0.012	92	3638767	300.0	335.6	
36 1,1-Dichloroethane	63	5.432	5.444	-0.012	96	3832233	300.0	302.3	
37 Isopropyl ether	45	5.493	5.499	-0.006	94	7199734	300.0	304.3	
38 2-Chloro-1,3-butadiene	53	5.548	5.554	-0.006	90	3402602	300.0	328.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	6.034	6.035	-0.001	97	6757627	300.0	310.2	
S 40 1,2-Dichloroethene, Total	100				0			600.7	
41 2-Butanone (MEK)	43	6.223	6.229	-0.006	99	4622510	600.0	607.9	
42 cis-1,2-Dichloroethene	96	6.259	6.266	-0.007	83	2338387	300.0	299.0	
44 2,2-Dichloropropane	77	6.284	6.284	0.000	87	2914508	300.0	311.8	
45 Propionitrile	54	6.296	6.296	0.000	99	3375653	1500.0	1559.4	
46 Methacrylonitrile	67	6.521	6.521	0.000	92	4142014	750.0	758.9	
47 Chlorobromomethane	128	6.600	6.600	0.000	95	1197452	300.0	306.8	
48 Tetrahydrofuran	71	6.618	6.619	-0.001	90	1299067	600.0	654.7	
49 Chloroform	83	6.740	6.746	-0.006	93	3641271	300.0	305.8	
$ 50 Dibromofluoromethane (Surr)	113	6.959	6.959	0.000	94	276366	50.0	50.8	
51 1,1,1-Trichloroethane	97	6.983	6.984	-0.001	98	3113940	300.0	315.0	
52 Cyclohexane	56	7.093	7.093	0.000	90	4133632	300.0	322.7	
53 1,1-Dichloropropene	75	7.190	7.197	-0.007	98	3068317	300.0	309.2	
54 Carbon tetrachloride	117	7.202	7.203	-0.001	97	2627127	300.0	320.6	
55 Isobutyl alcohol	41	7.312	7.306	0.006	95	2505985	3750.0	3954.6	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.421	7.422	-0.001	96	75082	50.0	50.2	
57 Benzene	78	7.458	7.458	0.000	96	9055166	300.0	294.6	
59 1,2-Dichloroethane	62	7.525	7.525	0.000	97	2993959	300.0	297.9	
60 Tert-amyl methyl ether	73	7.647	7.647	0.000	98	6532991	300.0	305.2	
* 62 Fluorobenzene (IS)	96	7.853	7.860	-0.007	99	1211019	50.0	50.0	
63 n-Heptane	43	7.872	7.878	-0.006	92	4006320	300.0	322.2	
64 n-Butanol	56	8.188	8.182	0.006	88	4328465	7500.0	7713.3	
65 Trichloroethene	95	8.340	8.340	0.000	100	2326396	300.0	309.0	
66 Methylcyclohexane	83	8.656	8.657	-0.001	97	4126219	300.0	313.4	
67 1,2-Dichloropropane	63	8.669	8.669	0.000	73	2263549	300.0	284.8	
34 2-ethoxy-2-methyl butane	87	8.675	8.675	0.000	91	3238689	300.0	302.7	
68 Methyl methacrylate	69	8.742	8.736	0.006	92	2659710	300.0	331.5	
69 1,4-Dioxane	88	8.754	8.754	0.000	34	451834	3750.0	3735.5	M
70 Dibromomethane	93	8.784	8.784	0.000	97	1507989	300.0	309.0	
72 Dichlorobromomethane	83	9.009	9.009	0.000	100	2924690	300.0	332.7	
73 2-Nitropropane	41	9.259	9.253	0.006	97	2147634	600.0	694.2	
74 2-Chloroethyl vinyl ether	63	9.362	9.356	0.006	91	2055304	300.0	332.6	
75 cis-1,3-Dichloropropene	75	9.545	9.545	0.000	96	3958803	300.0	325.3	
76 4-Methyl-2-pentanone (MIBK)	43	9.703	9.697	0.006	96	8314275	600.0	595.2	
$ 77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	93	1221109	50.0	51.9	
78 Toluene	92	9.928	9.928	0.000	98	5631593	300.0	298.6	
S 79 1,3-Dichloropropene, Total	100				0			662.5	
80 trans-1,3-Dichloropropene	75	10.177	10.171	0.006	92	3710453	300.0	337.2	
81 Ethyl methacrylate	69	10.232	10.232	0.000	89	4194753	300.0	343.3	
82 1,1,2-Trichloroethane	97	10.378	10.378	0.000	90	2243513	300.0	309.9	
83 Tetrachloroethene	166	10.475	10.476	-0.001	96	2587272	300.0	289.0	
84 1,3-Dichloropropane	76	10.542	10.536	0.006	90	3887370	300.0	305.3	
86 2-Hexanone	43	10.579	10.579	0.000	95	6610429	600.0	606.3	
88 Chlorodibromomethane	129	10.761	10.762	-0.001	90	2467107	300.0	348.0	
89 Ethylene Dibromide	107	10.877	10.871	0.006	98	2526625	300.0	324.4	
S 90 Xylenes, Total	106				0			857.1	
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	86	867964	50.0	50.0	
92 1-Chlorohexane	91	11.303	11.297	0.006	98	3148232	300.0	309.5	
93 Chlorobenzene	112	11.327	11.321	0.006	95	6089776	300.0	289.8	
94 1,1,1,2-Tetrachloroethane	131	11.406	11.400	0.006	96	2058443	300.0	307.0	
95 Ethylbenzene	91	11.406	11.406	0.000	98	10010518	300.0	285.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
96 m-Xylene & p-Xylene	106	11.522	11.522	0.000	97	7783240	600.0	566.1	
97 o-Xylene	106	11.850	11.844	0.006	96	3873954	300.0	291.1	
98 Styrene	104	11.862	11.863	-0.001	92	6632146	300.0	304.2	
99 Bromoform	173	12.027	12.027	0.000	97	1942528	300.0	365.5	
100 Isopropylbenzene	105	12.148	12.143	0.006	97	9905647	300.0	291.5	
102 Cyclohexanone	55	12.215	12.216	-0.001	92	1766458	3749.8	3169.2	
$ 103 4-Bromofluorobenzene (Surr)	95	12.294	12.295	-0.001	89	458896	50.0	52.0	
104 1,1,2,2-Tetrachloroethane	83	12.386	12.380	0.006	93	3701640	300.0	296.5	
106 trans-1,4-Dichloro-2-butene	53	12.410	12.404	0.006	84	3095441	750.0	728.3	
105 Bromobenzene	156	12.410	12.410	0.000	91	2445940	300.0	273.9	
107 1,2,3-Trichloropropane	110	12.434	12.428	0.006	83	1134658	300.0	292.1	
108 N-Propylbenzene	91	12.477	12.471	0.006	97	11169896	300.0	269.3	
109 2-Chlorotoluene	126	12.556	12.550	0.006	97	2560219	300.0	297.9	
110 1,3,5-Trimethylbenzene	105	12.611	12.605	0.006	94	8700354	300.0	291.6	
111 4-Chlorotoluene	126	12.647	12.641	0.006	97	2666645	300.0	298.9	
113 tert-Butylbenzene	134	12.854	12.848	0.006	92	1902452	300.0	305.0	
114 Pentachloroethane	167	12.885	12.885	-0.001	94	1387883	300.0	348.8	
115 1,2,4-Trimethylbenzene	105	12.897	12.891	0.006	97	8772386	300.0	286.1	
116 sec-Butylbenzene	105	13.018	13.012	0.006	95	10532028	300.0	276.6	
117 1,3-Dichlorobenzene	146	13.116	13.116	0.000	97	4686177	300.0	271.0	
118 4-Isopropyltoluene	119	13.122	13.122	0.000	95	8980030	300.0	278.1	
* 119 1,4-Dichlorobenzene-d4	152	13.177	13.171	0.005	87	471110	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.195	13.189	0.006	93	4810936	300.0	269.5	
120 1,2,3-Trimethylbenzene	105	13.201	13.195	0.006	98	8413636	300.0	275.0	
122 Benzyl chloride	91	13.262	13.262	0.000	99	7908676	300.0	322.2	
123 1,3-Diethylbenzene	119	13.323	13.323	0.000	94	5684502	300.0	292.5	
124 p-Diethylbenzene	119	13.396	13.396	0.000	92	5817375	300.0	285.0	
125 n-Butylbenzene	92	13.414	13.414	0.000	97	4871567	300.0	282.5	
126 1,2-Dichlorobenzene	146	13.450	13.450	0.000	97	4652551	300.0	274.2	
127 o-diethylbenzene	119	13.469	13.463	0.006	96	4592150	300.0	281.9	
129 1,2-Dibromo-3-Chloropropane	75	13.992	13.986	0.006	87	1009341	300.0	328.3	
130 1,3,5-Trichlorobenzene	180	14.119	14.120	-0.001	98	3841929	300.0	287.9	
131 1,2,4-Trichlorobenzene	180	14.545	14.546	-0.001	95	3626613	300.0	291.6	
132 Hexachlorobutadiene	225	14.624	14.625	-0.001	98	1700929	300.0	296.0	
133 Naphthalene	128	14.728	14.722	0.006	98	11051928	300.0	264.7	
134 1,2,3-Trichlorobenzene	180	14.868	14.868	0.000	96	3484288	300.0	287.6	
135 2-Methylnaphthalene	142	15.513	15.513	0.000	91	7140927	300.0	303.3	
S 146 Total Diethylbenzene	1				0			859.4	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_VCYC_00005	Amount Added:	30.00	Units: uL	
MSV_V_EE_00003	Amount Added:	15.00	Units: uL	
MSV_DCFM_00022	Amount Added:	7.50	Units: uL	
MSV_V_2CEVE_00106	Amount Added:	15.00	Units: uL	
MSV_V_VOA1_00094	Amount Added:	15.00	Units: uL	
MSV_V_VOA3_00047	Amount Added:	6.00	Units: uL	
MSV_V_VOA6_00053	Amount Added:	15.00	Units: uL	
MSV_V_Gas_00146	Amount Added:	7.50	Units: uL	
MSV_HP20_ISSS_00025	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 21-Sep-2020 18:07:49 Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I01.D

Injection Date: 21-Sep-2020 14:04:30 Instrument ID: 9355 Operator ID: kas02648

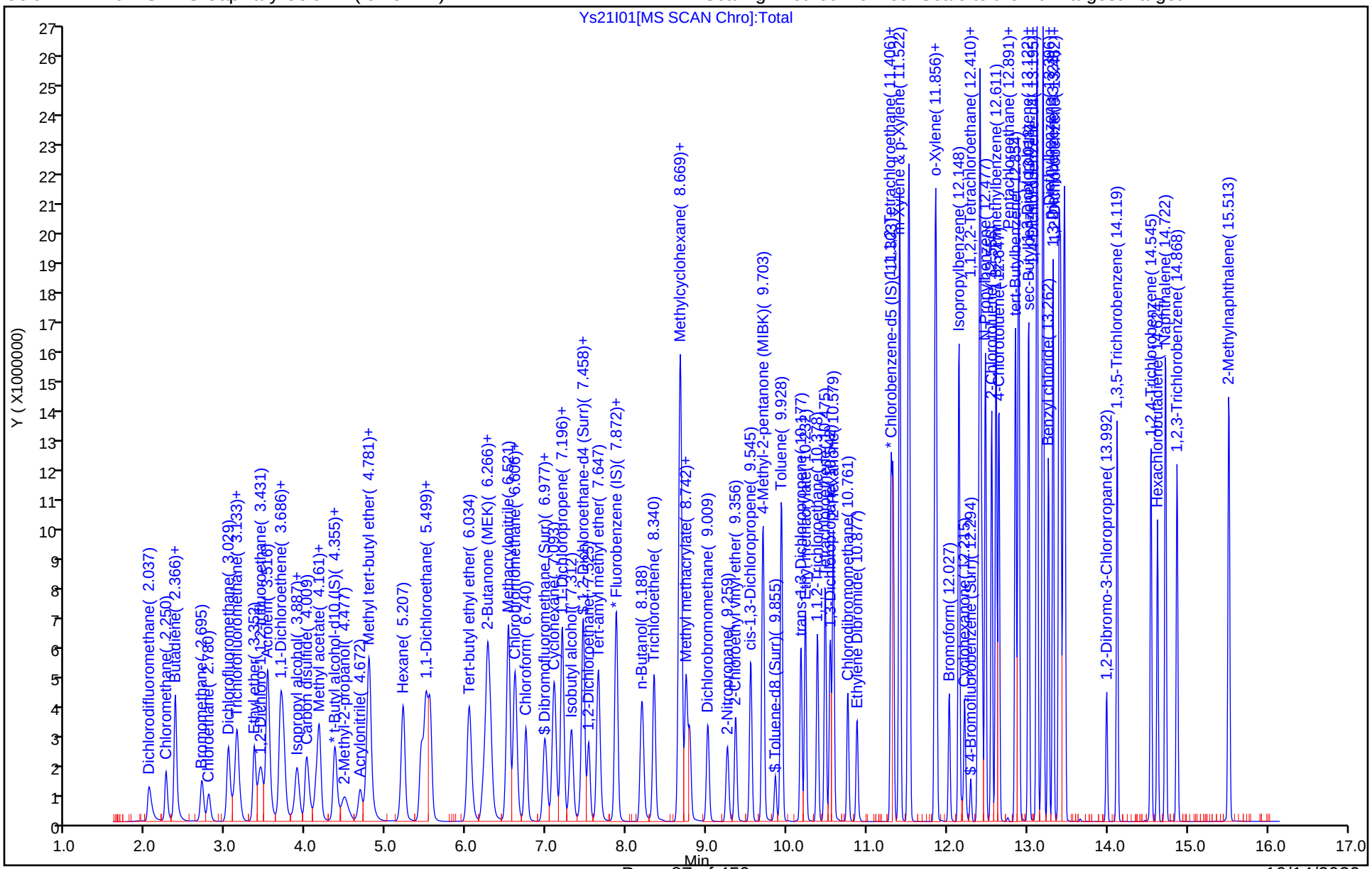
Lims ID: IC level7 300 Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: MSVoa_9355 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

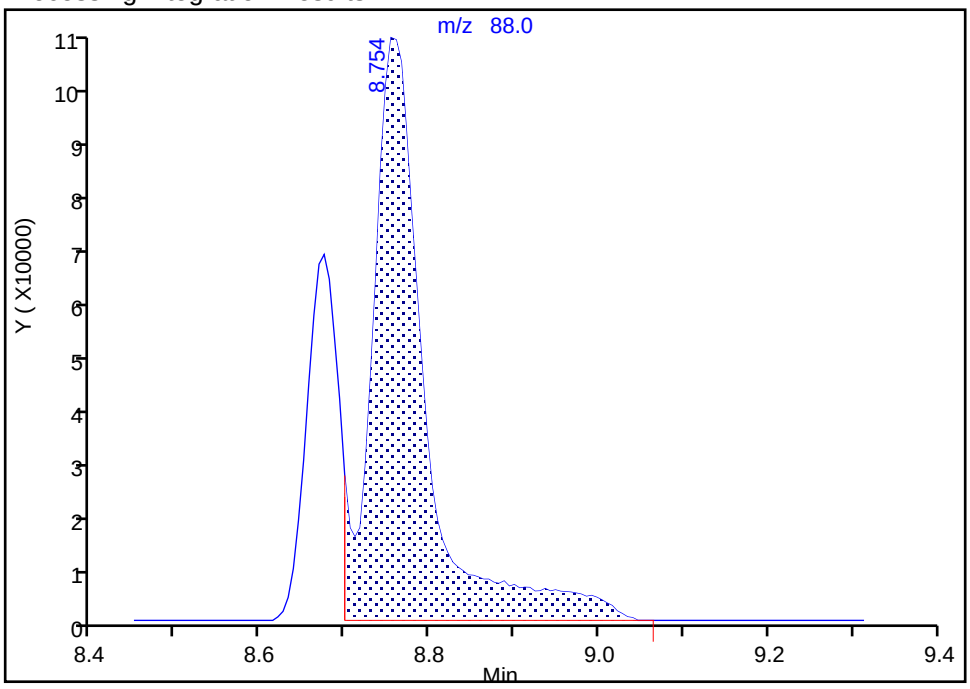
Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I01.D
Injection Date: 21-Sep-2020 14:04:30 Instrument ID: 9355
Lims ID: IC level7 300
Client ID:
Operator ID: kas02648 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

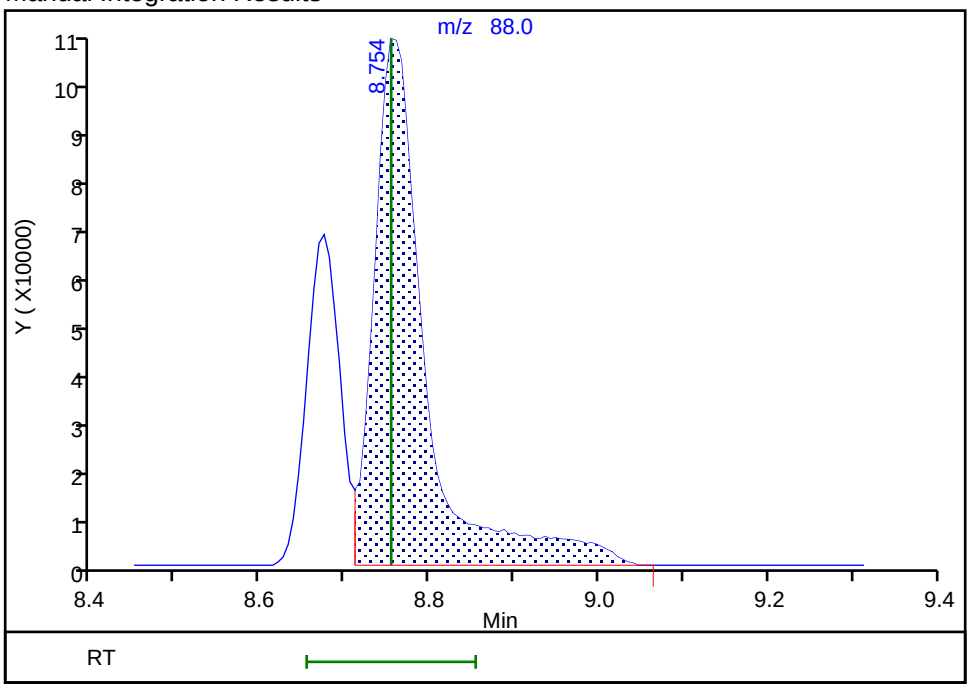
Processing Integration Results

RT: 8.75
Area: 467684
Amount: 3809.3223
Amount Units: ug/l



Manual Integration Results

RT: 8.75
Area: 451834
Amount: 3735.5434
Amount Units: ug/l



Reviewer: campbellme, 21-Sep-2020 16:25:19
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I02.D
Lims ID: IC std6 100
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 21-Sep-2020 14:26:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0010935-004
Misc. Info.: IC STD6 100
Operator ID: kas02648 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub2

Method: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 21-Sep-2020 18:08:00 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1029

First Level Reviewer: campbellme Date: 21-Sep-2020 16:27:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.038	2.044	-0.006	99	883268	100.0	105.4	M
4 Chloromethane	50	2.251	2.257	-0.006	99	858020	100.0	98.8	
5 Butadiene	39	2.366	2.366	0.000	91	627958	100.0	102.8	
6 Vinyl chloride	62	2.372	2.378	-0.006	98	817374	100.0	101.3	
8 Bromomethane	94	2.701	2.701	0.000	90	543994	100.0	96.5	
9 Chloroethane	64	2.786	2.792	-0.006	100	484348	100.0	97.0	
10 Dichlorofluoromethane	67	3.029	3.029	0.000	97	1106831	100.0	98.2	
11 Trichlorofluoromethane	101	3.114	3.121	-0.007	98	1015757	100.0	101.4	
12 Pentane	43	3.145	3.151	-0.006	96	1019425	100.0	103.4	
14 Ethyl ether	59	3.358	3.364	-0.006	92	745197	100.0	99.7	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.425	3.431	-0.006	93	830542	100.0	101.6	
16 Acrolein	56	3.522	3.528	-0.006	99	2979872	1001.9	984.2	
17 1,1-Dichloroethene	96	3.680	3.680	0.000	98	610322	100.0	103.4	
18 Acetone	58	3.686	3.692	-0.006	100	300779	200.0	191.7	
19 112TCTFE	101	3.717	3.723	-0.006	93	644448	100.0	105.7	
20 Isopropyl alcohol	45	3.857	3.863	-0.006	100	591468	500.0	524.7	
21 Iodomethane	142	3.887	3.893	-0.006	97	1095964	100.0	103.0	
22 Carbon disulfide	76	4.009	4.009	0.000	99	2174260	100.0	104.5	
24 Methyl acetate	43	4.130	4.137	-0.007	98	1080650	100.0	102.4	
25 3-Chloro-1-propene	41	4.167	4.173	-0.006	94	1189766	100.0	106.8	
* 26 t-Butyl alcohol-d10 (IS)	65	4.349	4.356	-0.007	90	370049	250.0	250.0	
27 Methylene Chloride	84	4.356	4.368	-0.012	93	744240	100.0	99.3	
28 2-Methyl-2-propanol	59	4.477	4.477	0.000	99	1054249	500.0	526.8	
30 Acrylonitrile	53	4.678	4.684	-0.006	99	583093	100.0	101.5	
31 Methyl tert-butyl ether	73	4.775	4.781	-0.006	95	2376331	100.0	103.6	
32 trans-1,2-Dichloroethene	96	4.787	4.800	-0.013	99	719313	100.0	102.6	
33 Hexane	57	5.213	5.219	-0.006	92	1236979	100.0	111.9	
36 1,1-Dichloroethane	63	5.438	5.444	-0.006	96	1324935	100.0	102.5	
37 Isopropyl ether	45	5.499	5.499	0.000	94	2548766	100.0	105.7	
38 2-Chloro-1,3-butadiene	53	5.548	5.554	-0.006	90	1169812	100.0	110.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	6.035	6.035	0.000	98	2365040	100.0	106.5	
S 40 1,2-Dichloroethene, Total	100				0			205.8	
41 2-Butanone (MEK)	43	6.223	6.229	-0.006	100	1561731	200.0	201.5	
42 cis-1,2-Dichloroethene	96	6.266	6.266	0.000	82	822263	100.0	103.1	
44 2,2-Dichloropropane	77	6.284	6.284	0.000	89	1012041	100.0	106.2	
45 Propionitrile	54	6.296	6.296	0.000	99	1149182	500.0	506.8	
46 Methacrylonitrile	67	6.521	6.521	0.000	92	1428517	250.0	256.7	
47 Chlorobromomethane	128	6.600	6.600	0.000	96	415125	100.0	104.3	
48 Tetrahydrofuran	71	6.619	6.619	0.000	92	434920	200.0	209.3	
49 Chloroform	83	6.746	6.746	0.000	93	1249872	100.0	103.0	
$ 50 Dibromofluoromethane (Surr)	113	6.959	6.959	0.000	93	277810	50.0	50.1	
51 1,1,1-Trichloroethane	97	6.984	6.984	0.000	98	1059676	100.0	105.1	
52 Cyclohexane	56	7.093	7.093	0.000	90	1434533	100.0	109.9	
53 1,1-Dichloropropene	75	7.197	7.197	0.000	98	1078676	100.0	106.6	
54 Carbon tetrachloride	117	7.203	7.203	0.000	96	903400	100.0	108.1	
55 Isobutyl alcohol	41	7.306	7.306	0.000	95	913062	1250.0	1375.5	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.422	7.422	0.000	97	75682	50.0	49.6	
57 Benzene	78	7.458	7.458	0.000	96	3191034	100.0	101.8	
59 1,2-Dichloroethane	62	7.525	7.525	0.000	97	1020740	100.0	99.6	
60 Tert-amyl methyl ether	73	7.647	7.647	0.000	98	2321429	100.0	106.4	
* 62 Fluorobenzene (IS)	96	7.860	7.860	0.000	99	1234597	50.0	50.0	
63 n-Heptane	43	7.872	7.878	-0.006	92	1397602	100.0	110.2	
64 n-Butanol	56	8.182	8.182	0.000	89	1689053	2500.0	2873.4	
65 Trichloroethene	95	8.340	8.340	0.000	99	797314	100.0	103.9	
66 Methylcyclohexane	83	8.657	8.657	0.000	96	1496146	100.0	111.5	
67 1,2-Dichloropropane	63	8.669	8.669	0.000	71	833575	100.0	102.9	
34 2-ethoxy-2-methyl butane	87	8.675	8.675	0.000	90	1180426	100.0	108.2	
68 Methyl methacrylate	69	8.736	8.736	0.000	92	902323	100.0	110.3	
69 1,4-Dioxane	88	8.754	8.754	0.000	92	174260	1250.0	1375.4	M
70 Dibromomethane	93	8.784	8.784	0.000	97	514484	100.0	103.4	
72 Dichlorobromomethane	83	9.009	9.009	0.000	100	974790	100.0	108.8	
73 2-Nitropropane	41	9.253	9.253	0.000	97	709478	200.0	218.9	
74 2-Chloroethyl vinyl ether	63	9.356	9.356	0.000	91	727002	100.0	115.4	
75 cis-1,3-Dichloropropene	75	9.545	9.545	0.000	96	1363728	100.0	109.9	
76 4-Methyl-2-pentanone (MIBK)	43	9.697	9.697	0.000	96	2989218	200.0	209.9	
$ 77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	93	1222224	50.0	50.0	
78 Toluene	92	9.928	9.928	0.000	98	1998468	100.0	102.0	
S 79 1,3-Dichloropropene, Total	100				0			220.7	
80 trans-1,3-Dichloropropene	75	10.171	10.171	0.000	92	1266619	100.0	110.8	
81 Ethyl methacrylate	69	10.232	10.232	0.000	90	1459727	100.0	115.0	
82 1,1,2-Trichloroethane	97	10.378	10.378	0.000	90	779148	100.0	103.6	
83 Tetrachloroethene	166	10.476	10.476	0.000	97	985559	100.0	106.0	
84 1,3-Dichloropropane	76	10.536	10.536	0.000	91	1373048	100.0	103.8	
86 2-Hexanone	43	10.579	10.579	0.000	95	2392257	200.0	211.3	
88 Chlorodibromomethane	129	10.755	10.762	-0.007	90	827168	100.0	112.3	
89 Ethylene Dibromide	107	10.871	10.871	0.000	98	862703	100.0	106.7	
S 90 Xylenes, Total	106				0			315.8	
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	86	901413	50.0	50.0	
92 1-Chlorohexane	91	11.297	11.297	0.000	98	1120872	100.0	106.1	
93 Chlorobenzene	112	11.321	11.321	0.000	94	2218802	100.0	101.7	
94 1,1,1,2-Tetrachloroethane	131	11.400	11.400	0.000	97	736059	100.0	105.7	
95 Ethylbenzene	91	11.406	11.406	0.000	98	3840223	100.0	105.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
96 m-Xylene & p-Xylene	106	11.522	11.522	0.000	100	2997830	200.0	209.9	
97 o-Xylene	106	11.844	11.844	0.000	96	1463748	100.0	105.9	
98 Styrene	104	11.863	11.863	0.000	94	2500873	100.0	110.4	
99 Bromoform	173	12.027	12.027	0.000	98	652070	100.0	118.2	
100 Isopropylbenzene	105	12.149	12.143	0.007	96	3807297	100.0	107.9	
102 Cyclohexanone	55	12.216	12.216	0.000	91	810730	1249.9	1388.6	
$ 103 4-Bromofluorobenzene (Surr)	95	12.295	12.295	0.000	90	456853	50.0	49.9	
104 1,1,2,2-Tetrachloroethane	83	12.380	12.380	0.000	93	1365620	100.0	105.0	
106 trans-1,4-Dichloro-2-butene	53	12.404	12.404	0.000	82	1193300	250.0	269.6	
105 Bromobenzene	156	12.410	12.410	0.000	92	950570	100.0	102.2	
107 1,2,3-Trichloropropane	110	12.435	12.428	0.007	83	415277	100.0	102.7	
108 N-Propylbenzene	91	12.477	12.471	0.006	99	4525639	100.0	104.8	
109 2-Chlorotoluene	126	12.556	12.550	0.006	97	926878	100.0	103.5	
110 1,3,5-Trimethylbenzene	105	12.611	12.605	0.006	94	3303117	100.0	106.3	
111 4-Chlorotoluene	126	12.641	12.641	0.000	97	970376	100.0	104.4	
113 tert-Butylbenzene	134	12.854	12.848	0.006	93	701688	100.0	108.0	
114 Pentachloroethane	167	12.885	12.885	0.000	88	449477	100.0	108.5	
115 1,2,4-Trimethylbenzene	105	12.891	12.891	0.000	97	3429071	100.0	107.4	
116 sec-Butylbenzene	105	13.012	13.012	0.000	94	4284058	100.0	108.1	
117 1,3-Dichlorobenzene	146	13.116	13.116	0.000	97	1833532	100.0	101.8	
118 4-Isopropyltoluene	119	13.122	13.122	0.000	97	3646411	100.0	108.4	
* 119 1,4-Dichlorobenzene-d4	152	13.171	13.171	0.000	95	490596	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.189	13.189	0.000	94	1884428	100.0	101.4	
120 1,2,3-Trimethylbenzene	105	13.195	13.195	0.000	98	3358984	100.0	105.4	
122 Benzyl chloride	91	13.262	13.262	0.000	98	2915475	100.0	114.1	
123 1,3-Diethylbenzene	119	13.323	13.323	0.000	95	2202657	100.0	108.8	
124 p-Diethylbenzene	119	13.396	13.396	0.000	93	2301764	100.0	108.3	
125 n-Butylbenzene	92	13.414	13.414	0.000	97	1898046	100.0	105.7	
126 1,2-Dichlorobenzene	146	13.450	13.450	0.000	98	1783037	100.0	100.9	
127 o-diethylbenzene	119	13.463	13.463	0.000	96	1790766	100.0	105.6	
129 1,2-Dibromo-3-Chloropropane	75	13.986	13.986	0.000	87	362697	100.0	113.3	
130 1,3,5-Trichlorobenzene	180	14.120	14.120	0.000	98	1444574	100.0	104.0	
131 1,2,4-Trichlorobenzene	180	14.546	14.546	0.000	94	1362645	100.0	105.2	
132 Hexachlorobutadiene	225	14.625	14.625	0.000	97	634116	100.0	106.0	
133 Naphthalene	128	14.722	14.722	0.000	97	4682947	100.0	107.7	
134 1,2,3-Trichlorobenzene	180	14.868	14.868	0.000	96	1290041	100.0	102.3	
135 2-Methylnaphthalene	142	15.513	15.513	0.000	92	2703230	100.0	110.2	
S 146 Total Diethylbenzene	1				0			322.7	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_VCYC_00005	Amount Added:	10.00	Units: uL	
MSV_V_EE_00003	Amount Added:	5.00	Units: uL	
MSV_DCFM_00022	Amount Added:	2.50	Units: uL	
MSV_V_VOA1_00094	Amount Added:	5.00	Units: uL	
MSV_V_VOA3_00047	Amount Added:	2.00	Units: uL	
MSV_V_VOA6_00053	Amount Added:	5.00	Units: uL	
MSV_V_2CEVE_00106	Amount Added:	5.00	Units: uL	
MSV_V_Gas_00146	Amount Added:	2.50	Units: uL	
MSV_HP20_ISSS_00025	Amount Added:	1.00	Units: uL	Run Reagent

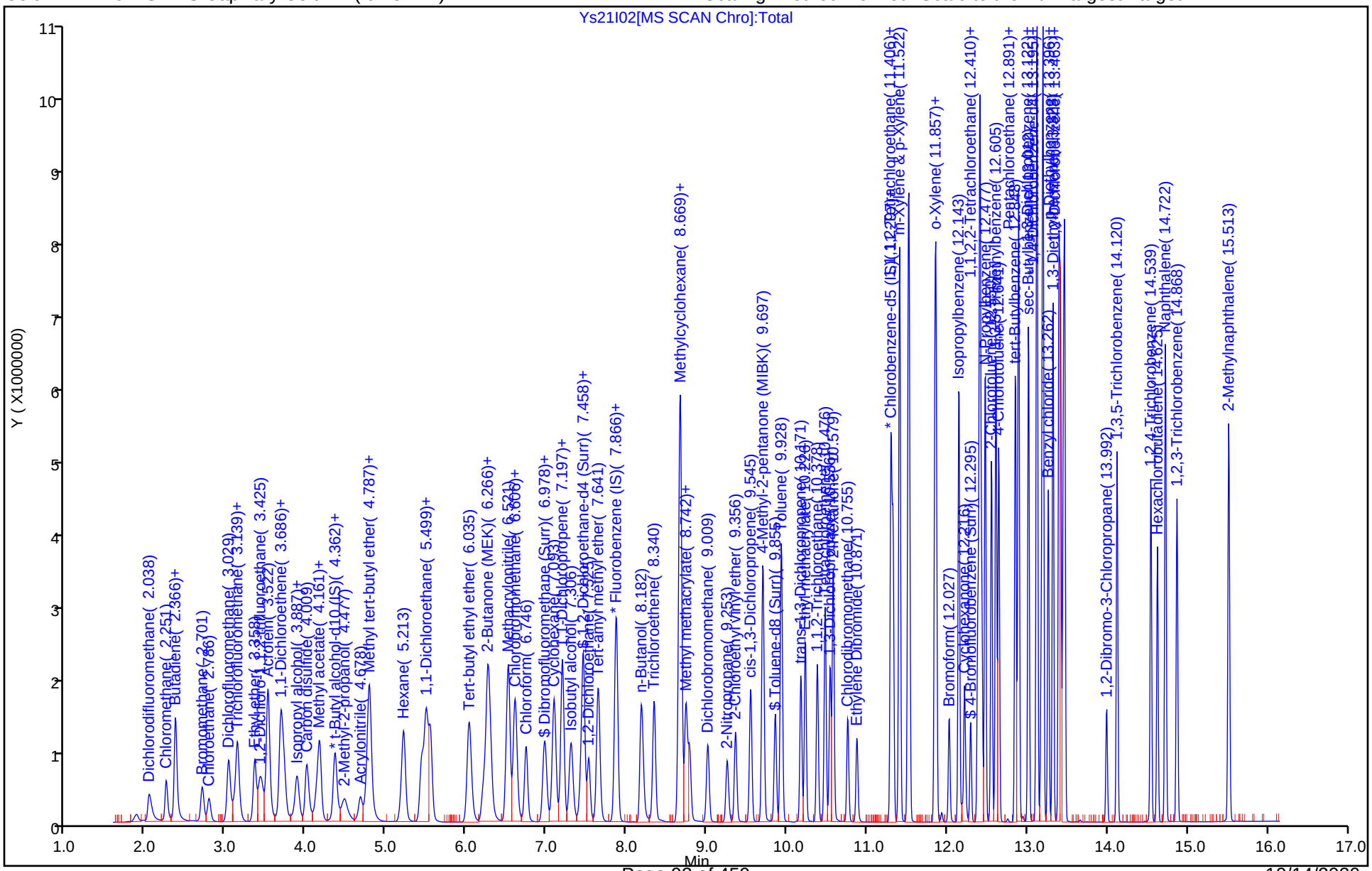
Report Date: 21-Sep-2020 18:08:01 Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I02.D

Injection Date:	21-Sep-2020 14:26:30	Instrument ID:	9355	Operator ID:	kas02648
Lims ID:	IC std6 100			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSVoa_9355	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

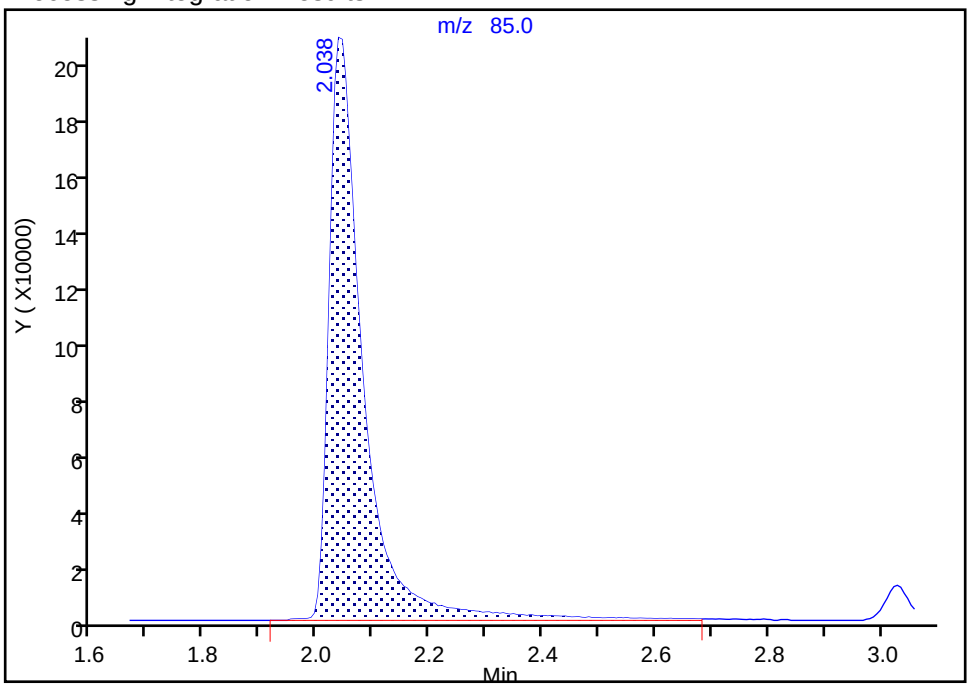
Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I02.D
Injection Date: 21-Sep-2020 14:26:30 Instrument ID: 9355
Lims ID: IC std6 100
Client ID:
Operator ID: kas02648 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

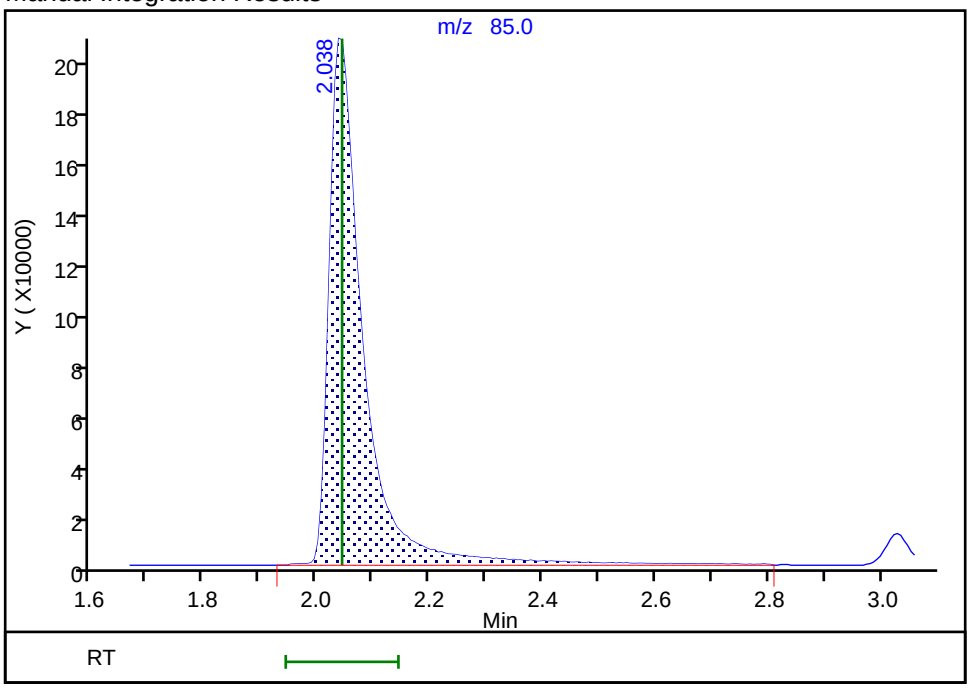
Processing Integration Results

RT: 2.04
Area: 880192
Amount: 101.6770
Amount Units: ug/l



Manual Integration Results

RT: 2.04
Area: 883268
Amount: 105.4459
Amount Units: ug/l



Reviewer: campbellme, 21-Sep-2020 16:26:42
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

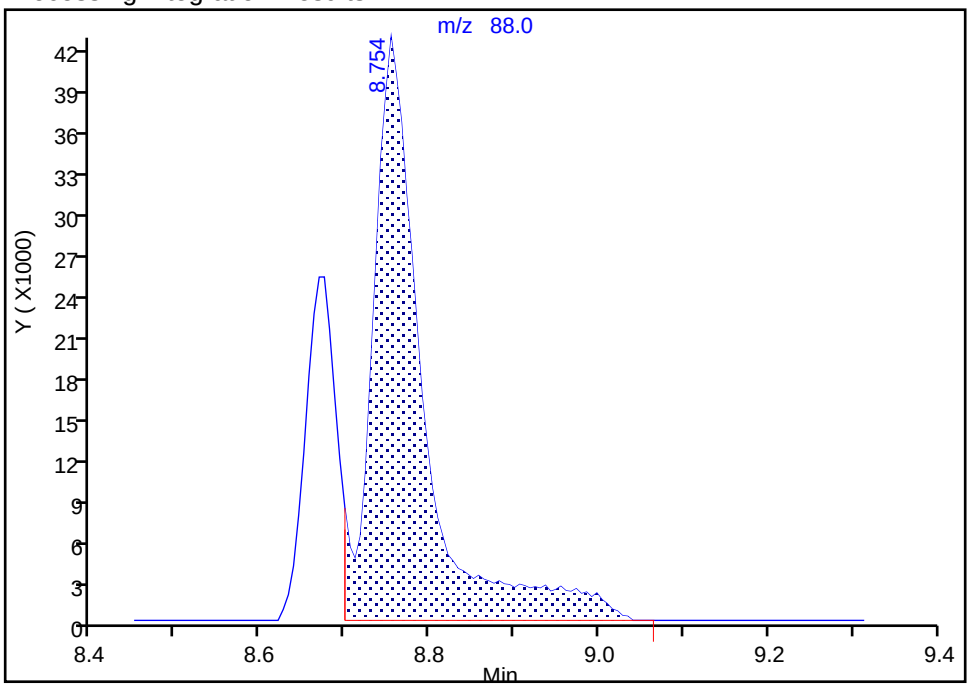
Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I02.D
Injection Date: 21-Sep-2020 14:26:30 Instrument ID: 9355
Lims ID: IC std6 100
Client ID:
Operator ID: kas02648 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

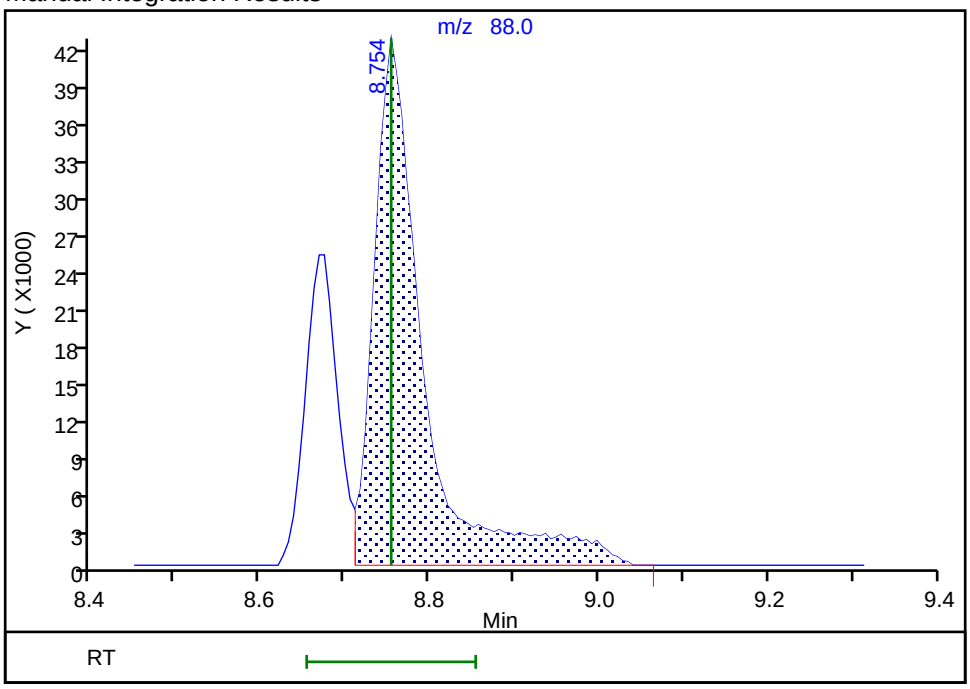
Processing Integration Results

RT: 8.75
Area: 179233
Amount: 1401.7111
Amount Units: ug/l



Manual Integration Results

RT: 8.75
Area: 174260
Amount: 1375.3679
Amount Units: ug/l



Reviewer: campbellme, 21-Sep-2020 16:27:10
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I03.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 21-Sep-2020 14:48:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0010935-005
Misc. Info.: ICIS
Operator ID: kas02648 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub2

Method: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 21-Sep-2020 18:08:14 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1029

First Level Reviewer: campbellme Date: 21-Sep-2020 17:56:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.038	2.038	0.000	99	437139	50.0	52.1	
4 Chloromethane	50	2.251	2.251	0.000	99	421728	50.0	48.5	
5 Butadiene	39	2.366	2.366	0.000	91	299784	50.0	49.0	
6 Vinyl chloride	62	2.372	2.372	0.000	98	403407	50.0	49.9	
8 Bromomethane	94	2.701	2.701	0.000	90	277955	50.0	49.2	
9 Chloroethane	64	2.786	2.786	0.000	100	248271	50.0	49.7	
10 Dichlorofluoromethane	67	3.029	3.029	0.000	97	562074	50.0	49.8	
11 Trichlorofluoromethane	101	3.114	3.114	0.000	98	509501	50.0	50.8	
12 Pentane	43	3.145	3.145	0.000	97	504087	50.0	51.0	
14 Ethyl ether	59	3.358	3.358	0.000	92	371639	50.0	49.6	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.425	3.425	0.000	93	413279	50.0	50.5	
16 Acrolein	56	3.522	3.522	0.000	99	1601740	500.9	501.0	
17 1,1-Dichloroethene	96	3.680	3.680	0.000	98	298740	50.0	50.5	
18 Acetone	58	3.692	3.692	0.000	100	156121	100.0	94.3	
19 112TCTFE	101	3.717	3.717	0.000	93	312624	50.0	51.2	
20 Isopropyl alcohol	45	3.863	3.863	0.000	100	304713	250.0	256.0	
21 Iodomethane	142	3.887	3.887	0.000	97	543675	50.0	51.0	
22 Carbon disulfide	76	4.009	4.009	0.000	99	1061601	50.0	50.9	
24 Methyl acetate	43	4.130	4.130	0.000	98	531542	50.0	50.3	
25 3-Chloro-1-propene	41	4.167	4.167	0.000	94	581430	50.0	52.1	
* 26 t-Butyl alcohol-d10 (IS)	65	4.343	4.343	0.000	96	390698	250.0	250.0	
27 Methylene Chloride	84	4.362	4.362	0.000	93	369720	50.0	49.3	
28 2-Methyl-2-propanol	59	4.477	4.477	0.000	99	551476	250.0	261.0	
30 Acrylonitrile	53	4.678	4.678	0.000	99	295912	50.0	51.4	
31 Methyl tert-butyl ether	73	4.775	4.775	0.000	95	1188208	50.0	51.7	
32 trans-1,2-Dichloroethene	96	4.794	4.794	0.000	99	354795	50.0	50.5	
33 Hexane	57	5.213	5.213	0.000	92	596571	50.0	53.9	
36 1,1-Dichloroethane	63	5.438	5.438	0.000	96	653161	50.0	50.4	
37 Isopropyl ether	45	5.493	5.493	0.000	94	1261425	50.0	52.2	
38 2-Chloro-1,3-butadiene	53	5.548	5.548	0.000	90	565979	50.0	53.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	6.028	6.028	0.000	98	1170641	50.0	52.6	
41 2-Butanone (MEK)	43	6.223	6.223	0.000	100	801701	100.0	103.2	
42 cis-1,2-Dichloroethene	96	6.266	6.266	0.000	82	402618	50.0	50.4	
44 2,2-Dichloropropane	77	6.284	6.284	0.000	89	494182	50.0	51.8	
45 Propionitrile	54	6.296	6.296	0.000	99	596390	250.0	249.1	
46 Methacrylonitrile	67	6.521	6.521	0.000	92	720629	125.0	129.3	
47 Chlorobromomethane	128	6.600	6.600	0.000	96	208833	50.0	52.4	
48 Tetrahydrofuran	71	6.619	6.619	0.000	93	219701	100.0	100.1	
49 Chloroform	83	6.740	6.740	0.000	93	617781	50.0	50.8	
$ 50 Dibromofluoromethane (Surr)	113	6.959	6.959	0.000	94	279306	50.0	50.2	
51 1,1,1-Trichloroethane	97	6.978	6.978	0.000	99	513591	50.0	50.9	
52 Cyclohexane	56	7.093	7.093	0.000	90	698591	50.0	53.4	
53 1,1-Dichloropropene	75	7.197	7.197	0.000	98	524933	50.0	51.8	
54 Carbon tetrachloride	117	7.197	7.197	0.000	97	437125	50.0	52.2	
55 Isobutyl alcohol	41	7.306	7.306	0.000	96	459671	625.0	655.9	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.422	7.422	0.000	98	76694	50.0	50.2	
57 Benzene	78	7.458	7.458	0.000	96	1577265	50.0	50.2	
59 1,2-Dichloroethane	62	7.525	7.525	0.000	97	510142	50.0	49.7	
60 Tert-amyl methyl ether	73	7.641	7.641	0.000	98	1156023	50.0	52.9	
* 62 Fluorobenzene (IS)	96	7.860	7.860	0.000	99	1236687	50.0	50.0	
63 n-Heptane	43	7.872	7.872	0.000	93	666191	50.0	52.5	
64 n-Butanol	56	8.182	8.182	0.000	88	835300	1250.0	1345.9	
65 Trichloroethene	95	8.340	8.340	0.000	99	391925	50.0	51.0	
66 Methylcyclohexane	83	8.657	8.657	0.000	97	736788	50.0	54.8	
67 1,2-Dichloropropane	63	8.669	8.669	0.000	71	418875	50.0	51.6	
34 2-ethoxy-2-methyl butane	87	8.675	8.675	0.000	94	578656	50.0	53.0	
68 Methyl methacrylate	69	8.736	8.736	0.000	91	442675	50.0	54.0	
69 1,4-Dioxane	88	8.754	8.754	0.000	91	89794	625.0	671.3	M
70 Dibromomethane	93	8.784	8.784	0.000	97	253622	50.0	50.9	
72 Dichlorobromomethane	83	9.009	9.009	0.000	100	473007	50.0	52.7	
73 2-Nitropropane	41	9.253	9.253	0.000	97	355882	100.0	104.0	
74 2-Chloroethyl vinyl ether	63	9.356	9.356	0.000	91	350593	50.0	55.6	
75 cis-1,3-Dichloropropene	75	9.545	9.545	0.000	96	664131	50.0	53.4	
76 4-Methyl-2-pentanone (MIBK)	43	9.697	9.697	0.000	96	1559111	100.0	109.3	
$ 77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	93	1221242	50.0	50.0	
78 Toluene	92	9.928	9.928	0.000	98	989811	50.0	50.5	
80 trans-1,3-Dichloropropene	75	10.171	10.171	0.000	92	614061	50.0	53.7	
81 Ethyl methacrylate	69	10.226	10.226	0.000	90	711339	50.0	56.1	
82 1,1,2-Trichloroethane	97	10.378	10.378	0.000	90	387230	50.0	51.5	
83 Tetrachloroethene	166	10.476	10.476	0.000	97	488589	50.0	52.5	
84 1,3-Dichloropropane	76	10.536	10.536	0.000	91	679043	50.0	51.4	
86 2-Hexanone	43	10.573	10.573	0.000	96	1259274	100.0	111.2	
88 Chlorodibromomethane	129	10.755	10.755	0.000	90	395627	50.0	53.7	
89 Ethylene Dibromide	107	10.871	10.871	0.000	98	424079	50.0	52.4	
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	87	901388	50.0	50.0	
92 1-Chlorohexane	91	11.297	11.297	0.000	97	547359	50.0	51.8	
93 Chlorobenzene	112	11.321	11.321	0.000	95	1102173	50.0	50.5	
94 1,1,1,2-Tetrachloroethane	131	11.400	11.400	0.000	97	366359	50.0	52.6	
95 Ethylbenzene	91	11.406	11.406	0.000	98	1903758	50.0	52.2	
96 m-Xylene & p-Xylene	106	11.522	11.522	0.000	100	1500680	100.0	105.1	
97 o-Xylene	106	11.844	11.844	0.000	96	727624	50.0	52.6	
98 Styrene	104	11.863	11.863	0.000	95	1238906	50.0	54.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 Bromoform	173	12.027	12.027	0.000	97	307903	50.0	55.8	
100 Isopropylbenzene	105	12.142	12.142	0.000	96	1882519	50.0	53.3	
102 Cyclohexanone	55	12.215	12.215	0.000	91	429112	625.0	696.1	
$ 103 4-Bromofluorobenzene (Surr)	95	12.295	12.295	0.000	90	452437	50.0	49.4	
104 1,1,2,2-Tetrachloroethane	83	12.380	12.380	0.000	93	678786	50.0	52.2	
106 trans-1,4-Dichloro-2-butene	53	12.404	12.404	0.000	82	593997	125.0	134.1	
105 Bromobenzene	156	12.410	12.410	0.000	91	479583	50.0	51.5	
107 1,2,3-Trichloropropane	110	12.435	12.435	0.000	83	207755	50.0	51.3	
108 N-Propylbenzene	91	12.471	12.471	0.000	99	2257212	50.0	52.2	
109 2-Chlorotoluene	126	12.550	12.550	0.000	97	459461	50.0	51.3	
110 1,3,5-Trimethylbenzene	105	12.611	12.611	0.000	94	1637790	50.0	52.7	
111 4-Chlorotoluene	126	12.641	12.641	0.000	97	482415	50.0	51.9	
113 tert-Butylbenzene	134	12.848	12.848	0.000	93	347019	50.0	53.4	
114 Pentachloroethane	167	12.885	12.885	0.000	90	212303	50.0	51.2	
115 1,2,4-Trimethylbenzene	105	12.891	12.891	0.000	97	1707072	50.0	53.4	
116 sec-Butylbenzene	105	13.012	13.012	0.000	94	2126711	50.0	53.6	
117 1,3-Dichlorobenzene	146	13.116	13.116	0.000	97	925150	50.0	51.3	
118 4-Isopropyltoluene	119	13.122	13.122	0.000	97	1824960	50.0	54.2	
* 119 1,4-Dichlorobenzene-d4	152	13.171	13.171	0.000	95	490868	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.189	13.189	0.000	94	946277	50.0	50.9	
120 1,2,3-Trimethylbenzene	105	13.195	13.195	0.000	98	1686053	50.0	52.9	
122 Benzyl chloride	91	13.262	13.262	0.000	98	1428546	50.0	55.9	
123 1,3-Diethylbenzene	119	13.323	13.323	0.000	95	1094557	50.0	54.1	
124 p-Diethylbenzene	119	13.396	13.396	0.000	94	1155096	50.0	54.3	
125 n-Butylbenzene	92	13.414	13.414	0.000	97	950445	50.0	52.9	
126 1,2-Dichlorobenzene	146	13.450	13.450	0.000	98	898969	50.0	50.9	
127 o-diethylbenzene	119	13.463	13.463	0.000	96	903553	50.0	53.2	
129 1,2-Dibromo-3-Chloropropane	75	13.986	13.986	0.000	86	176605	50.0	55.1	
130 1,3,5-Trichlorobenzene	180	14.120	14.120	0.000	98	720406	50.0	51.8	
131 1,2,4-Trichlorobenzene	180	14.546	14.546	0.000	94	681392	50.0	52.6	
132 Hexachlorobutadiene	225	14.625	14.625	0.000	97	312402	50.0	52.2	
133 Naphthalene	128	14.722	14.722	0.000	97	2417681	50.0	55.6	
134 1,2,3-Trichlorobenzene	180	14.868	14.868	0.000	96	659629	50.0	52.3	
135 2-Methylnaphthalene	142	15.513	15.513	0.000	92	1431828	50.0	58.4	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_VCYC_00005	Amount Added:	10.00	Units: uL	
MSV_V_EE_00003	Amount Added:	5.00	Units: uL	
MSV_DCFM_00022	Amount Added:	2.50	Units: uL	
MSV_V_2CEVE_00106	Amount Added:	5.00	Units: uL	
MSV_V_VOA1_00094	Amount Added:	5.00	Units: uL	
MSV_V_VOA3_00047	Amount Added:	2.00	Units: uL	
MSV_V_VOA6_00053	Amount Added:	5.00	Units: uL	
MSV_V_Gas_00146	Amount Added:	2.50	Units: uL	
MSV_HP20_ISSS_00025	Amount Added:	1.00	Units: uL	Run Reagent

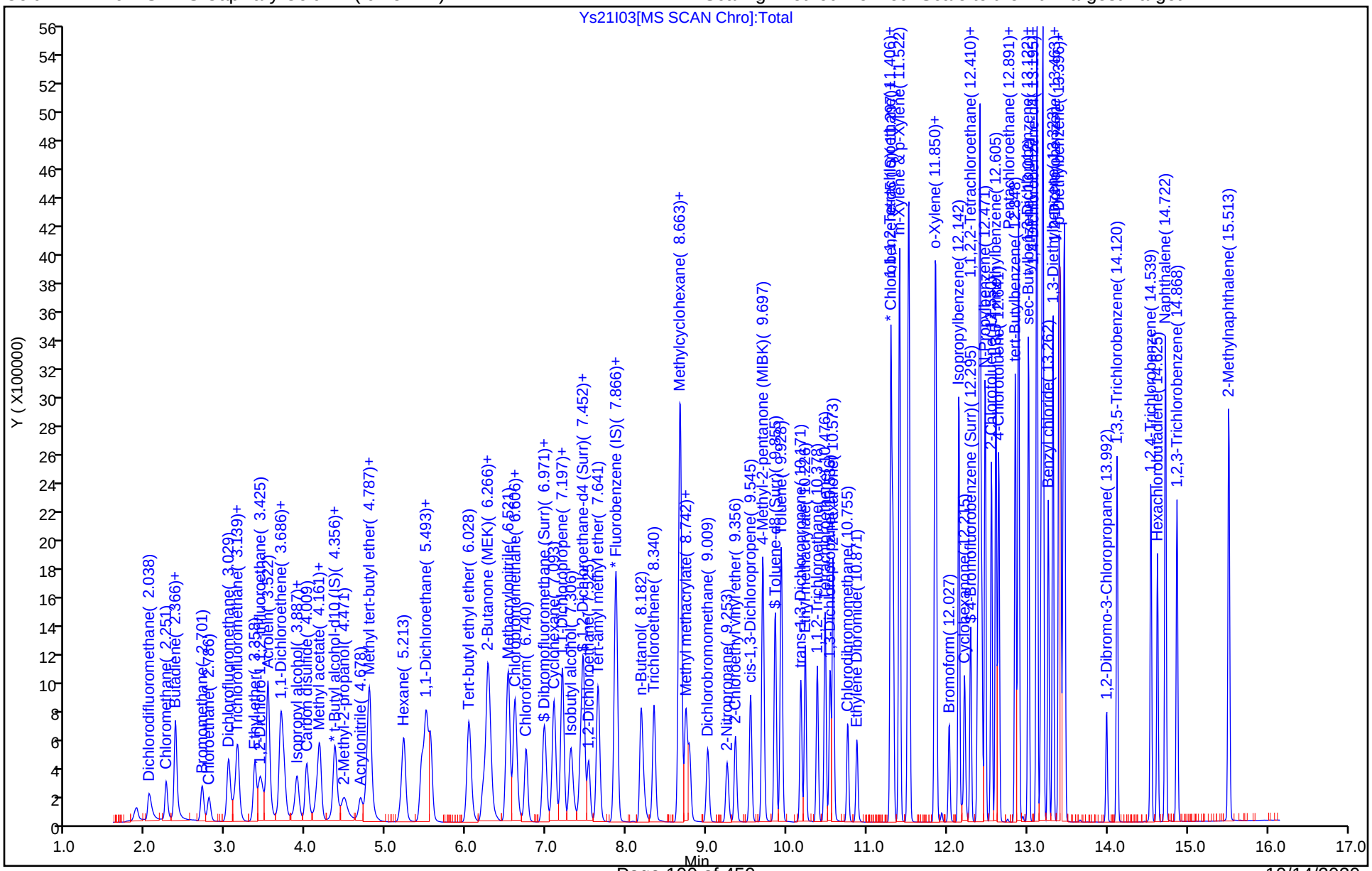
Report Date: 21-Sep-2020 18:08:16 Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I03.D

Injection Date:	21-Sep-2020 14:48:30	Instrument ID:	9355	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_9355	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

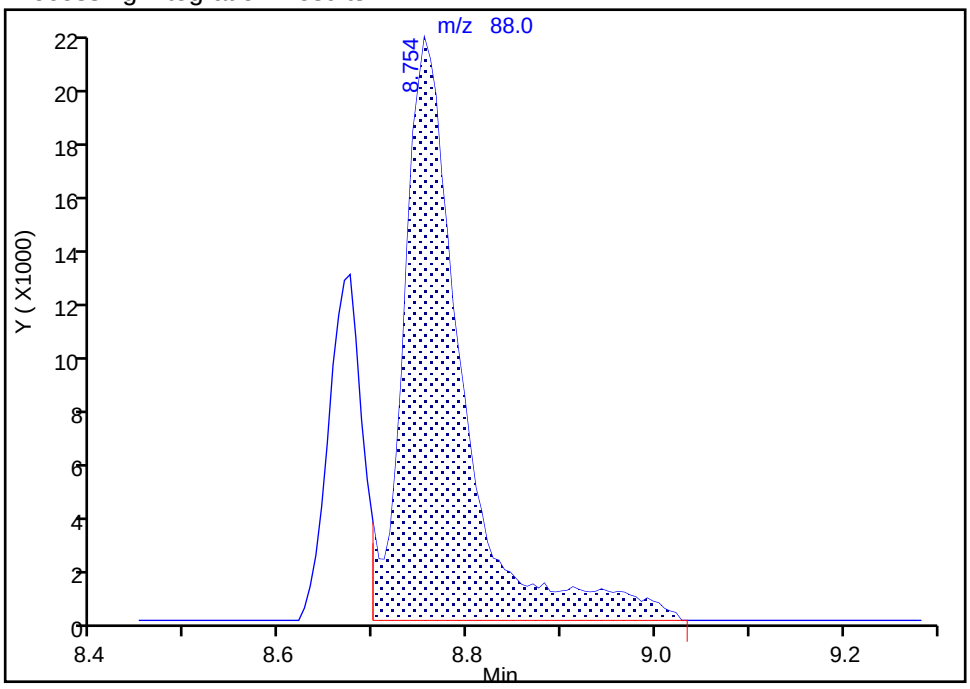
Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I03.D
Injection Date: 21-Sep-2020 14:48:30 Instrument ID: 9355
Lims ID: ICIS
Client ID:
Operator ID: kas02648 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

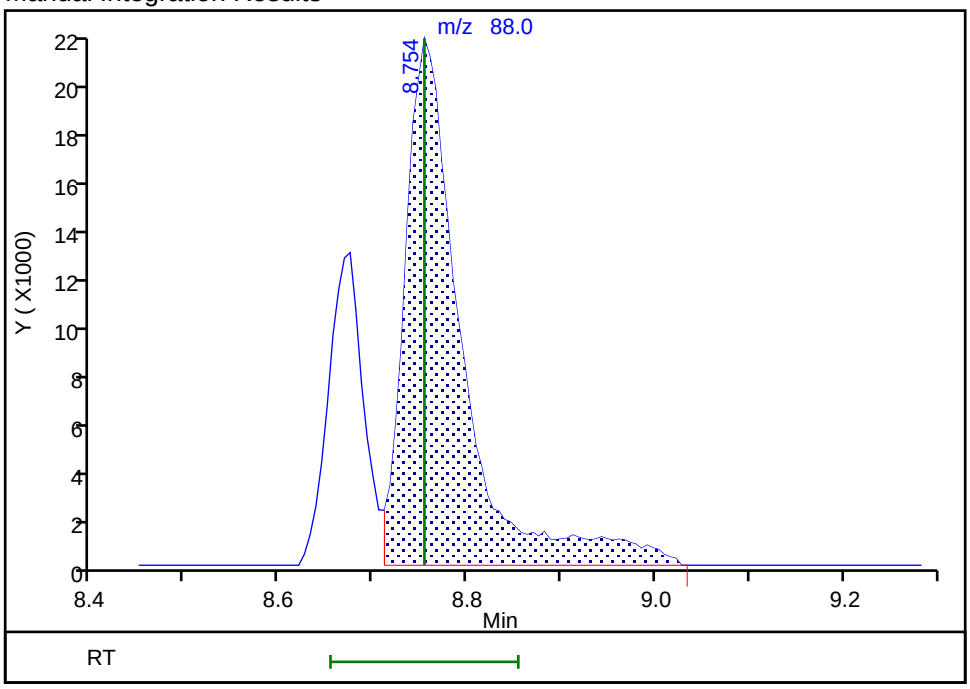
Processing Integration Results

RT: 8.75
Area: 91913
Amount: 684.3740
Amount Units: ug/l



Manual Integration Results

RT: 8.75
Area: 89794
Amount: 671.2535
Amount Units: ug/l



Reviewer: campbellme, 21-Sep-2020 16:28:19
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I04.D
Lims ID: IC std4 20
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 21-Sep-2020 15:10:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0010935-006
Misc. Info.: IC STD4 20
Operator ID: kas02648 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub2

Method: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 21-Sep-2020 18:08:27 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1029

First Level Reviewer: campbellme Date: 21-Sep-2020 16:30:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.044	2.044	0.000	99	160331	20.0	19.4	
4 Chloromethane	50	2.257	2.257	0.000	99	167351	20.0	19.5	
5 Butadiene	39	2.366	2.366	0.000	91	119708	20.0	19.8	
6 Vinyl chloride	62	2.378	2.378	0.000	98	157364	20.0	19.7	
8 Bromomethane	94	2.701	2.701	0.000	89	113648	20.0	20.4	
9 Chloroethane	64	2.792	2.792	0.000	100	99150	20.0	20.1	
10 Dichlorofluoromethane	67	3.029	3.029	0.000	97	224811	20.0	20.2	
11 Trichlorofluoromethane	101	3.121	3.121	0.000	98	193221	20.0	19.5	M
12 Pentane	43	3.151	3.151	0.000	97	199789	20.0	20.5	
14 Ethyl ether	59	3.364	3.364	0.000	91	149303	20.0	20.2	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.431	3.431	0.000	94	165381	20.0	20.5	
16 Acrolein	56	3.528	3.528	0.000	100	665218	200.4	214.2	
17 1,1-Dichloroethene	96	3.680	3.680	0.000	98	120415	20.0	20.6	
18 Acetone	58	3.692	3.692	0.000	100	68443	40.0	42.5	
19 112TCTFE	101	3.723	3.723	0.000	93	124363	20.0	20.6	
20 Isopropyl alcohol	45	3.863	3.863	0.000	100	229246	200.0	198.3	
21 Iodomethane	142	3.893	3.893	0.000	97	215846	20.0	20.5	
22 Carbon disulfide	76	4.009	4.009	0.000	99	419442	20.0	20.4	
24 Methyl acetate	43	4.137	4.137	0.000	98	207527	20.0	19.9	
25 3-Chloro-1-propene	41	4.173	4.173	0.000	94	223781	20.0	20.3	
* 26 t-Butyl alcohol-d10 (IS)	65	4.356	4.356	0.000	97	379549	250.0	250.0	
27 Methylene Chloride	84	4.368	4.368	0.000	93	149641	20.0	20.2	
28 2-Methyl-2-propanol	59	4.477	4.477	0.000	99	411431	200.0	200.4	
30 Acrylonitrile	53	4.684	4.684	0.000	100	120634	20.0	21.2	
31 Methyl tert-butyl ether	73	4.781	4.781	0.000	95	467846	20.0	20.6	
32 trans-1,2-Dichloroethene	96	4.800	4.800	0.000	99	141817	20.0	20.5	
33 Hexane	57	5.219	5.219	0.000	92	231063	20.0	21.1	
36 1,1-Dichloroethane	63	5.444	5.444	0.000	96	263028	20.0	20.6	
37 Isopropyl ether	45	5.499	5.499	0.000	95	498606	20.0	20.9	
38 2-Chloro-1,3-butadiene	53	5.554	5.554	0.000	90	219195	20.0	21.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	6.035	6.035	0.000	98	460384	20.0	21.0	
S 40 1,2-Dichloroethene, Total	100				0			41.1	
41 2-Butanone (MEK)	43	6.229	6.229	0.000	100	320888	40.0	41.9	
42 cis-1,2-Dichloroethene	96	6.266	6.266	0.000	82	163013	20.0	20.7	
44 2,2-Dichloropropane	77	6.284	6.284	0.000	91	194711	20.0	20.7	
45 Propionitrile	54	6.296	6.296	0.000	100	470188	200.0	202.2	
46 Methacrylonitrile	67	6.521	6.521	0.000	92	572519	100.0	104.1	
47 Chlorobromomethane	128	6.600	6.600	0.000	96	80022	20.0	20.3	
48 Tetrahydrofuran	71	6.619	6.619	0.000	90	87891	40.0	41.2	
49 Chloroform	83	6.746	6.746	0.000	93	245951	20.0	20.5	
$ 50 Dibromofluoromethane (Surr)	113	6.959	6.959	0.000	94	273195	50.0	49.8	
51 1,1,1-Trichloroethane	97	6.984	6.984	0.000	98	202560	20.0	20.3	
52 Cyclohexane	56	7.093	7.093	0.000	90	272325	20.0	21.1	
53 1,1-Dichloropropene	75	7.197	7.197	0.000	97	210325	20.0	21.0	
54 Carbon tetrachloride	117	7.203	7.203	0.000	96	169902	20.0	20.6	
55 Isobutyl alcohol	41	7.306	7.306	0.000	95	339385	500.0	498.5	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.422	7.422	0.000	98	75896	50.0	50.3	
57 Benzene	78	7.458	7.458	0.000	96	632101	20.0	20.4	
59 1,2-Dichloroethane	62	7.525	7.525	0.000	97	203835	20.0	20.1	
60 Tert-amyl methyl ether	73	7.647	7.647	0.000	98	454614	20.0	21.1	
* 62 Fluorobenzene (IS)	96	7.860	7.860	0.000	99	1220702	50.0	50.0	
63 n-Heptane	43	7.878	7.878	0.000	92	259083	20.0	20.7	
64 n-Butanol	56	8.182	8.182	0.000	89	618334	1000.0	1025.6	
65 Trichloroethene	95	8.340	8.340	0.000	99	155041	20.0	20.4	
66 Methylcyclohexane	83	8.657	8.657	0.000	97	283474	20.0	21.4	
67 1,2-Dichloropropane	63	8.669	8.669	0.000	71	167063	20.0	20.9	
34 2-ethoxy-2-methyl butane	87	8.675	8.675	0.000	94	227369	20.0	21.1	
68 Methyl methacrylate	69	8.736	8.736	0.000	92	167800	20.0	20.8	
69 1,4-Dioxane	88	8.754	8.754	0.000	94	68071	500.0	523.8	M
70 Dibromomethane	93	8.784	8.784	0.000	97	100721	20.0	20.5	
72 Dichlorobromomethane	83	9.009	9.009	0.000	100	181143	20.0	20.4	
73 2-Nitropropane	41	9.253	9.253	0.000	98	140913	40.0	42.4	
74 2-Chloroethyl vinyl ether	63	9.356	9.356	0.000	91	133079	20.0	21.4	
75 cis-1,3-Dichloropropene	75	9.545	9.545	0.000	96	257357	20.0	21.0	
76 4-Methyl-2-pentanone (MIBK)	43	9.697	9.697	0.000	96	622840	40.0	44.2	
$ 77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	94	1202459	50.0	49.4	
78 Toluene	92	9.928	9.928	0.000	98	396678	20.0	20.3	
S 79 1,3-Dichloropropene, Total	100				0			41.7	
80 trans-1,3-Dichloropropene	75	10.171	10.171	0.000	92	235951	20.0	20.7	
81 Ethyl methacrylate	69	10.232	10.232	0.000	90	268605	20.0	21.3	
82 1,1,2-Trichloroethane	97	10.378	10.378	0.000	90	152127	20.0	20.3	
83 Tetrachloroethene	166	10.476	10.476	0.000	97	187061	20.0	20.2	
84 1,3-Dichloropropane	76	10.536	10.536	0.000	90	271681	20.0	20.6	
86 2-Hexanone	43	10.579	10.579	0.000	95	492316	40.0	43.7	
88 Chlorodibromomethane	129	10.762	10.762	0.000	90	150207	20.0	20.5	
89 Ethylene Dibromide	107	10.871	10.871	0.000	99	164693	20.0	20.5	
S 90 Xylenes, Total	106				0			63.4	
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	87	897525	50.0	50.0	
92 1-Chlorohexane	91	11.297	11.297	0.000	98	213580	20.0	20.3	
93 Chlorobenzene	112	11.321	11.321	0.000	96	442946	20.0	20.4	
94 1,1,1,2-Tetrachloroethane	131	11.400	11.400	0.000	96	142692	20.0	20.6	
95 Ethylbenzene	91	11.406	11.406	0.000	98	759572	20.0	20.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
96 m-Xylene & p-Xylene	106	11.522	11.522	0.000	100	599144	40.0	42.1	
97 o-Xylene	106	11.844	11.844	0.000	96	292724	20.0	21.3	
98 Styrene	104	11.863	11.863	0.000	95	482706	20.0	21.4	
99 Bromoform	173	12.027	12.027	0.000	97	111608	20.0	20.3	
100 Isopropylbenzene	105	12.143	12.143	0.000	96	752800	20.0	21.4	
102 Cyclohexanone	55	12.216	12.216	0.000	91	319693	500.0	533.8	
$ 103 4-Bromofluorobenzene (Surr)	95	12.295	12.295	0.000	90	448059	50.0	49.1	
104 1,1,2,2-Tetrachloroethane	83	12.380	12.380	0.000	93	265291	20.0	20.6	
106 trans-1,4-Dichloro-2-butene	53	12.404	12.404	0.000	90	458012	100.0	104.2	
105 Bromobenzene	156	12.410	12.410	0.000	72	191563	20.0	20.7	
107 1,2,3-Trichloropropane	110	12.428	12.428	0.000	81	80660	20.0	20.1	
108 N-Propylbenzene	91	12.471	12.471	0.000	99	907607	20.0	21.2	
109 2-Chlorotoluene	126	12.550	12.550	0.000	97	184322	20.0	20.7	
110 1,3,5-Trimethylbenzene	105	12.605	12.605	0.000	94	659883	20.0	21.4	
111 4-Chlorotoluene	126	12.641	12.641	0.000	97	193000	20.0	20.9	
113 tert-Butylbenzene	134	12.848	12.848	0.000	93	136501	20.0	21.2	
114 Pentachloroethane	167	12.885	12.885	0.000	84	87585	20.0	21.3	
115 1,2,4-Trimethylbenzene	105	12.891	12.891	0.000	97	681735	20.0	21.5	
116 sec-Butylbenzene	105	13.012	13.012	0.000	96	853050	20.0	21.7	
117 1,3-Dichlorobenzene	146	13.116	13.116	0.000	97	371225	20.0	20.8	
118 4-Isopropyltoluene	119	13.122	13.122	0.000	97	730779	20.0	21.9	
* 119 1,4-Dichlorobenzene-d4	152	13.171	13.171	0.000	95	487027	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.189	13.189	0.000	94	384061	20.0	20.8	
120 1,2,3-Trimethylbenzene	105	13.195	13.195	0.000	98	666830	20.0	21.1	
122 Benzyl chloride	91	13.262	13.262	0.000	98	539113	20.0	21.2	
123 1,3-Diethylbenzene	119	13.323	13.323	0.000	95	430945	20.0	21.5	
124 p-Diethylbenzene	119	13.396	13.396	0.000	94	457223	20.0	21.7	
125 n-Butylbenzene	92	13.414	13.414	0.000	96	379050	20.0	21.3	
126 1,2-Dichlorobenzene	146	13.450	13.450	0.000	98	362710	20.0	20.7	
127 o-diethylbenzene	119	13.463	13.463	0.000	95	358370	20.0	21.3	
129 1,2-Dibromo-3-Chloropropane	75	13.986	13.986	0.000	86	66152	20.0	20.8	
130 1,3,5-Trichlorobenzene	180	14.120	14.120	0.000	98	289970	20.0	21.0	
131 1,2,4-Trichlorobenzene	180	14.546	14.546	0.000	94	268731	20.0	20.9	
132 Hexachlorobutadiene	225	14.625	14.625	0.000	97	126602	20.0	21.3	
133 Naphthalene	128	14.722	14.722	0.000	97	954779	20.0	22.1	
134 1,2,3-Trichlorobenzene	180	14.868	14.868	0.000	96	262663	20.0	21.0	
135 2-Methylnaphthalene	142	15.513	15.513	0.000	92	543926	20.0	22.3	
S 146 Total Diethylbenzene	1				0			64.4	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_VCYC_00005	Amount Added:	16.00	Units: uL	
MSV_V_EE_00003	Amount Added:	4.00	Units: uL	
MSV_DCFM_00022	Amount Added:	2.00	Units: uL	
MSV_V_2CEVE_00106	Amount Added:	4.00	Units: uL	
MSV_V_VOA1_00094	Amount Added:	4.00	Units: uL	
MSV_V_VOA3_00047	Amount Added:	1.60	Units: uL	
MSV_V_VOA6_00053	Amount Added:	4.00	Units: uL	
MSV_V_VOA2_00050	Amount Added:	4.00	Units: uL	
MSV_V_Gas_00146	Amount Added:	2.00	Units: uL	
MSV_HP20_ISSS_00025	Amount Added:	1.00	Units: uL	Run Reagent

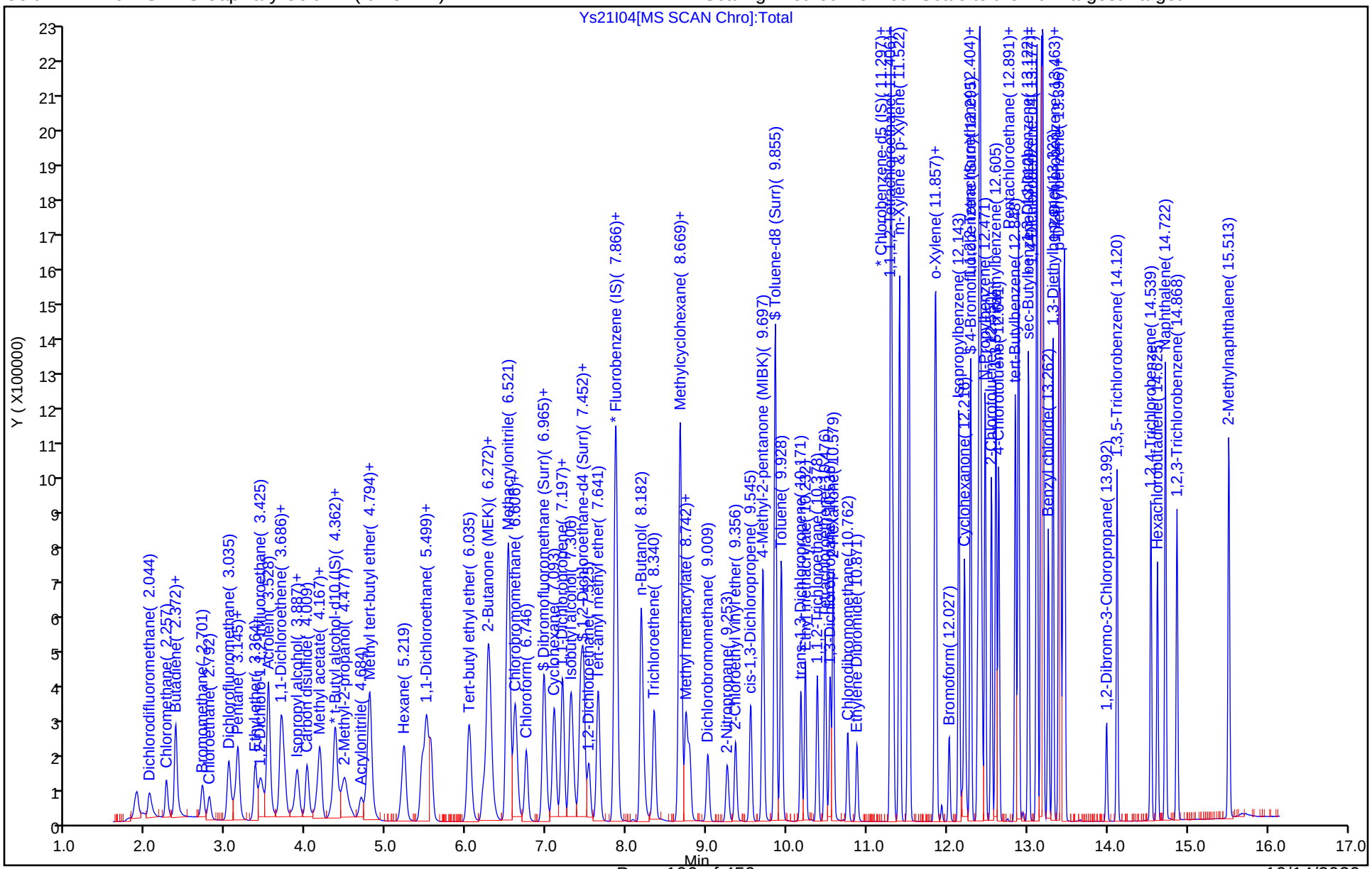
Report Date: 21-Sep-2020 18:08:29 Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I04.D

Injection Date:	21-Sep-2020 15:10:30	Instrument ID:	9355	Operator ID:	kas02648
Lims ID:	IC std4 20			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSVoa_9355	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

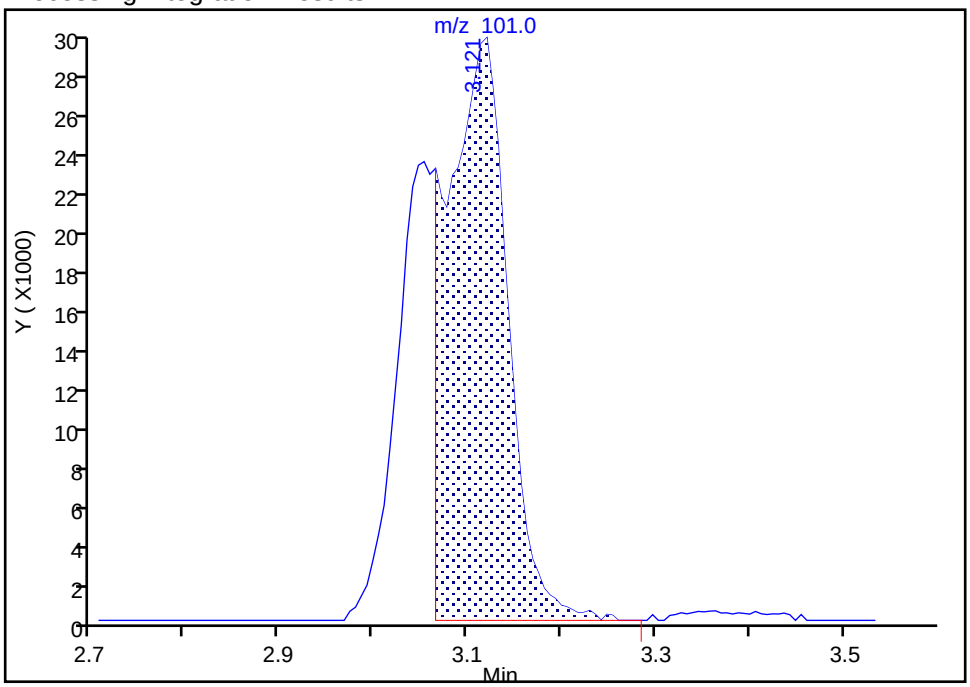
Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I04.D
Injection Date: 21-Sep-2020 15:10:30 Instrument ID: 9355
Lims ID: IC std4 20
Client ID:
Operator ID: kas02648 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

11 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

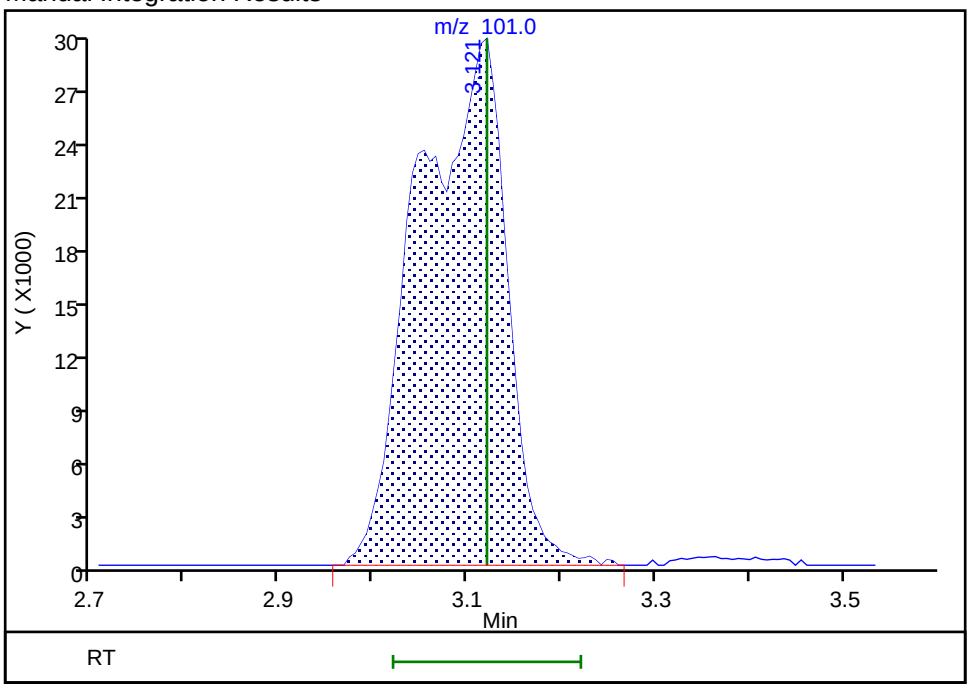
Processing Integration Results

RT: 3.12
Area: 133806
Amount: 16.085106
Amount Units: ug/l



Manual Integration Results

RT: 3.12
Area: 193221
Amount: 19.512285
Amount Units: ug/l



Reviewer: campbellme, 21-Sep-2020 16:29:10
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

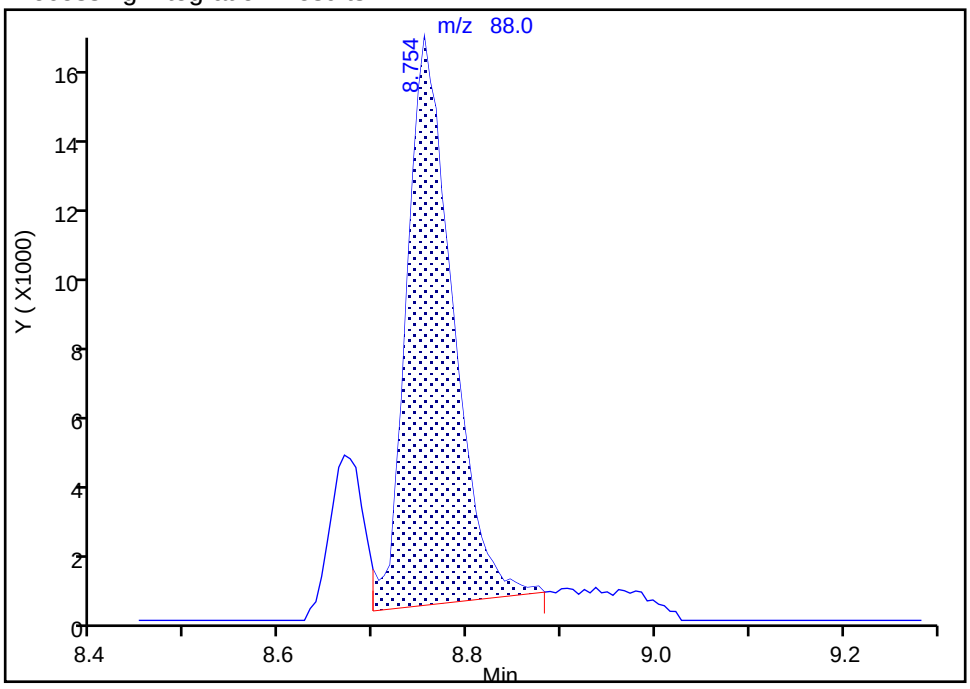
Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I04.D
Injection Date: 21-Sep-2020 15:10:30 Instrument ID: 9355
Lims ID: IC std4 20
Client ID:
Operator ID: kas02648 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

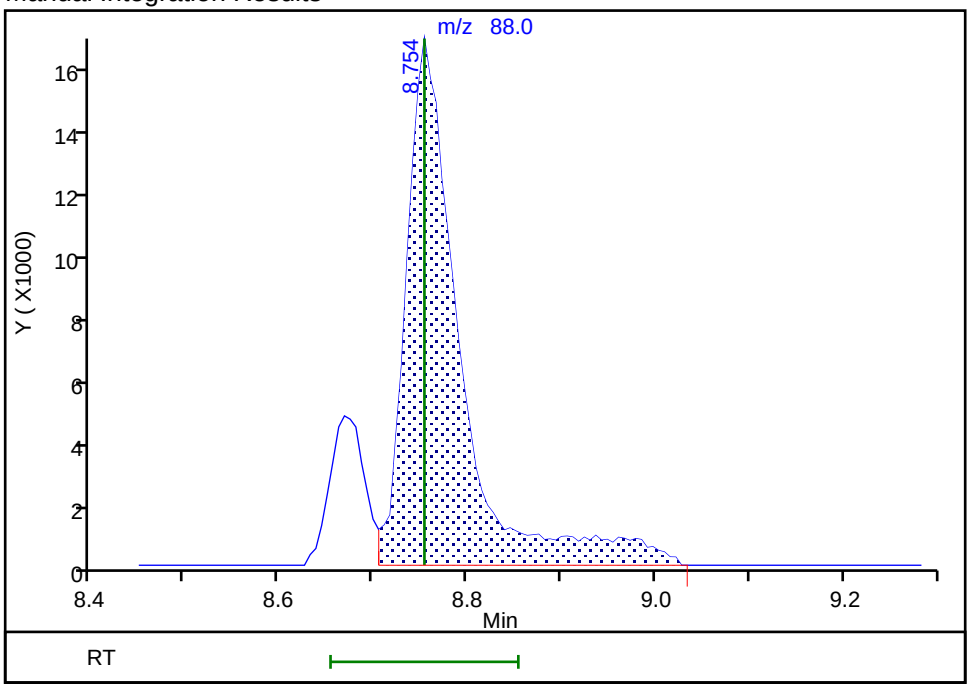
Processing Integration Results

RT: 8.75
Area: 56193
Amount: 432.5170
Amount Units: ug/l



Manual Integration Results

RT: 8.75
Area: 68071
Amount: 523.8111
Amount Units: ug/l



Reviewer: campbellme, 21-Sep-2020 16:29:38
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I05.D
Lims ID: IC std3 10
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 21-Sep-2020 15:32:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0010935-007
Misc. Info.: IC STD3 10
Operator ID: kas02648 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub2

Method: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 21-Sep-2020 18:08:40 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1029

First Level Reviewer: campbellme Date: 21-Sep-2020 16:32:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.044	2.044	0.000	99	84757	10.0	10.2	
4 Chloromethane	50	2.257	2.257	0.000	99	93002	10.0	10.7	
5 Butadiene	39	2.366	2.366	0.000	92	55600	10.0	9.13	
6 Vinyl chloride	62	2.378	2.378	0.000	98	84678	10.0	10.5	M
8 Bromomethane	94	2.701	2.701	0.000	91	61068	10.0	10.9	
9 Chloroethane	64	2.792	2.792	0.000	100	53986	10.0	10.9	
10 Dichlorofluoromethane	67	3.029	3.029	0.000	97	123086	10.0	11.0	
11 Trichlorofluoromethane	101	3.114	3.121	-0.007	98	102811	10.0	10.3	M
12 Pentane	43	3.145	3.151	-0.006	96	84823	10.0	8.63	
14 Ethyl ether	59	3.364	3.364	0.000	92	73378	10.0	9.85	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.425	3.431	-0.006	93	79901	10.0	9.81	
16 Acrolein	56	3.528	3.528	0.000	100	344988	100.2	111.9	
17 1,1-Dichloroethene	96	3.680	3.680	0.000	98	58695	10.0	9.98	
18 Acetone	58	3.692	3.692	0.000	99	35265	20.0	22.1	
19 112TCTFE	101	3.717	3.723	-0.006	92	56207	10.0	9.26	
20 Isopropyl alcohol	45	3.869	3.863	0.006	99	109505	100.0	95.4	
21 Iodomethane	142	3.887	3.893	-0.006	97	105603	10.0	9.96	
22 Carbon disulfide	76	4.009	4.009	0.000	99	201411	10.0	9.71	
24 Methyl acetate	43	4.136	4.137	-0.001	98	105217	10.0	10.0	
25 3-Chloro-1-propene	41	4.173	4.173	0.000	94	106333	10.0	9.58	
* 26 t-Butyl alcohol-d10 (IS)	65	4.355	4.356	-0.001	86	376801	250.0	250.0	
27 Methylene Chloride	84	4.361	4.368	-0.007	92	74168	10.0	9.94	
28 2-Methyl-2-propanol	59	4.483	4.477	0.006	98	199824	100.0	98.1	
30 Acrylonitrile	53	4.684	4.684	0.000	99	61244	10.0	10.7	
31 Methyl tert-butyl ether	73	4.775	4.781	-0.006	96	227295	10.0	9.94	
32 trans-1,2-Dichloroethene	96	4.800	4.800	0.000	99	69318	10.0	9.93	
33 Hexane	57	5.219	5.219	0.000	92	93288	10.0	8.47	
36 1,1-Dichloroethane	63	5.444	5.444	0.000	96	127564	10.0	9.90	
37 Isopropyl ether	45	5.499	5.499	0.000	94	239657	10.0	9.97	
38 2-Chloro-1,3-butadiene	53	5.554	5.554	0.000	90	102873	10.0	9.78	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	6.034	6.035	-0.001	97	220707	10.0	9.97	
S 40 1,2-Dichloroethene, Total	100				0			20.0	
41 2-Butanone (MEK)	43	6.223	6.229	-0.006	100	166833	20.0	21.6	
42 cis-1,2-Dichloroethene	96	6.266	6.266	0.000	82	80157	10.0	10.1	
44 2,2-Dichloropropane	77	6.290	6.284	0.006	90	93377	10.0	9.83	
45 Propionitrile	54	6.296	6.296	0.000	99	231969	100.0	100.5	
46 Methacrylonitrile	67	6.521	6.521	0.000	92	277573	50.0	50.1	
47 Chlorobromomethane	128	6.600	6.600	0.000	95	38928	10.0	9.82	
48 Tetrahydrofuran	71	6.625	6.619	0.006	92	44990	20.0	21.3	
49 Chloroform	83	6.746	6.746	0.000	93	119436	10.0	9.88	
$ 50 Dibromofluoromethane (Surr)	113	6.965	6.959	0.006	94	275143	50.0	49.8	
51 1,1,1-Trichloroethane	97	6.984	6.984	0.000	99	96903	10.0	9.65	
52 Cyclohexane	56	7.093	7.093	0.000	90	117085	10.0	9.00	
53 1,1-Dichloropropene	75	7.196	7.197	-0.001	96	97899	10.0	9.71	
54 Carbon tetrachloride	117	7.196	7.203	-0.007	96	79176	10.0	9.51	
55 Isobutyl alcohol	41	7.300	7.306	-0.006	96	165884	250.0	245.4	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.422	7.422	0.000	98	75625	50.0	49.7	
57 Benzene	78	7.458	7.458	0.000	97	310218	10.0	9.93	
59 1,2-Dichloroethane	62	7.525	7.525	0.000	97	99585	10.0	9.75	
60 Tert-amyl methyl ether	73	7.641	7.647	-0.006	98	216627	10.0	9.96	
* 62 Fluorobenzene (IS)	96	7.860	7.860	0.000	98	1230196	50.0	50.0	
63 n-Heptane	43	7.872	7.878	-0.006	93	102969	10.0	8.15	
64 n-Butanol	56	8.182	8.182	0.000	88	299744	500.0	500.8	
65 Trichloroethene	95	8.340	8.340	0.000	99	74480	10.0	9.74	
66 Methylcyclohexane	83	8.656	8.657	-0.001	93	117995	10.0	8.82	
67 1,2-Dichloropropane	63	8.669	8.669	0.000	76	81002	10.0	10.0	
34 2-ethoxy-2-methyl butane	87	8.669	8.675	-0.006	93	108966	10.0	10.0	
68 Methyl methacrylate	69	8.736	8.736	0.000	92	79874	10.0	9.80	
69 1,4-Dioxane	88	8.754	8.754	0.000	92	32965	250.0	255.5	M
70 Dibromomethane	93	8.784	8.784	0.000	97	49343	10.0	9.95	
72 Dichlorobromomethane	83	9.009	9.009	0.000	99	85822	10.0	9.61	
73 2-Nitropropane	41	9.253	9.253	0.000	98	67963	20.0	20.6	
74 2-Chloroethyl vinyl ether	63	9.356	9.356	0.000	92	62241	10.0	9.91	
75 cis-1,3-Dichloropropene	75	9.545	9.545	0.000	96	121689	10.0	9.84	
76 4-Methyl-2-pentanone (MIBK)	43	9.697	9.697	0.000	96	312890	20.0	22.1	
$ 77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	93	1205739	50.0	49.8	
78 Toluene	92	9.928	9.928	0.000	98	191009	10.0	9.84	
S 79 1,3-Dichloropropene, Total	100				0			19.5	
80 trans-1,3-Dichloropropene	75	10.171	10.171	0.000	92	109996	10.0	9.71	
81 Ethyl methacrylate	69	10.232	10.232	0.000	89	122874	10.0	9.77	
82 1,1,2-Trichloroethane	97	10.378	10.378	0.000	90	73851	10.0	9.91	
83 Tetrachloroethene	166	10.475	10.476	-0.001	97	88652	10.0	9.62	
84 1,3-Dichloropropane	76	10.536	10.536	0.000	90	130080	10.0	9.92	
86 2-Hexanone	43	10.579	10.579	0.000	96	246169	20.0	21.9	
88 Chlorodibromomethane	129	10.755	10.762	-0.007	90	69438	10.0	9.51	
89 Ethylene Dibromide	107	10.871	10.871	0.000	98	78744	10.0	9.82	
S 90 Xylenes, Total	106				0			30.2	
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	87	893817	50.0	50.0	
92 1-Chlorohexane	91	11.297	11.297	0.000	97	94831	10.0	9.05	
93 Chlorobenzene	112	11.321	11.321	0.000	95	215395	10.0	9.95	
94 1,1,1,2-Tetrachloroethane	131	11.406	11.400	0.006	96	68933	10.0	9.98	
95 Ethylbenzene	91	11.406	11.406	0.000	98	356947	10.0	9.87	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
96 m-Xylene & p-Xylene	106	11.522	11.522	0.000	100	284736	20.0	20.1	
97 o-Xylene	106	11.844	11.844	0.000	96	137624	10.0	10.0	
98 Styrene	104	11.863	11.863	0.000	95	224901	10.0	10.0	
99 Bromoform	173	12.027	12.027	0.000	97	50108	10.0	9.16	
100 Isopropylbenzene	105	12.142	12.143	0.000	95	345051	10.0	9.86	
102 Cyclohexanone	55	12.215	12.216	-0.001	91	150352	250.0	252.9	
$ 103 4-Bromofluorobenzene (Surr)	95	12.288	12.295	-0.007	89	453590	50.0	49.9	
104 1,1,2,2-Tetrachloroethane	83	12.380	12.380	0.000	93	131522	10.0	10.1	
106 trans-1,4-Dichloro-2-butene	53	12.404	12.404	0.000	90	220629	50.0	50.0	
105 Bromobenzene	156	12.410	12.410	0.000	72	93751	10.0	10.1	
107 1,2,3-Trichloropropane	110	12.428	12.428	0.000	81	40529	10.0	10.0	
108 N-Propylbenzene	91	12.471	12.471	0.000	99	421938	10.0	9.80	
109 2-Chlorotoluene	126	12.550	12.550	0.000	97	86860	10.0	9.73	
110 1,3,5-Trimethylbenzene	105	12.605	12.605	0.000	94	306013	10.0	9.88	
111 4-Chlorotoluene	126	12.641	12.641	0.000	97	91927	10.0	9.92	
113 tert-Butylbenzene	134	12.848	12.848	0.000	94	62050	10.0	9.58	
114 Pentachloroethane	167	12.885	12.885	0.000	89	40076	10.0	9.70	
115 1,2,4-Trimethylbenzene	105	12.891	12.891	0.000	97	318745	10.0	10.0	
116 sec-Butylbenzene	105	13.012	13.012	0.000	94	378760	10.0	9.58	
117 1,3-Dichlorobenzene	146	13.116	13.116	0.000	97	180796	10.0	10.1	
118 4-Isopropyltoluene	119	13.122	13.122	0.000	97	325587	10.0	9.71	
* 119 1,4-Dichlorobenzene-d4	152	13.171	13.171	-0.001	96	489158	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.189	13.189	0.000	91	184814	10.0	9.97	
120 1,2,3-Trimethylbenzene	105	13.195	13.195	0.000	98	314791	10.0	9.91	
122 Benzyl chloride	91	13.262	13.262	0.000	98	249368	10.0	9.78	
123 1,3-Diethylbenzene	119	13.323	13.323	0.000	95	197193	10.0	9.77	
124 p-Diethylbenzene	119	13.396	13.396	0.000	95	209487	10.0	9.89	
125 n-Butylbenzene	92	13.414	13.414	0.000	94	169637	10.0	9.48	
126 1,2-Dichlorobenzene	146	13.450	13.450	0.000	98	176976	10.0	10.0	
127 o-diethylbenzene	119	13.463	13.463	0.000	95	168434	10.0	9.96	
129 1,2-Dibromo-3-Chloropropane	75	13.992	13.986	0.006	84	31701	10.0	9.93	
130 1,3,5-Trichlorobenzene	180	14.120	14.120	0.000	98	132019	10.0	9.53	
131 1,2,4-Trichlorobenzene	180	14.545	14.546	-0.001	94	123751	10.0	9.58	
132 Hexachlorobutadiene	225	14.624	14.625	-0.001	97	49237	10.0	8.25	
133 Naphthalene	128	14.722	14.722	0.000	97	448351	10.0	10.3	
134 1,2,3-Trichlorobenzene	180	14.868	14.868	0.000	96	123129	10.0	9.79	
135 2-Methylnaphthalene	142	15.513	15.513	0.000	93	235336	10.0	9.63	
S 146 Total Diethylbenzene	1				0			29.6	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_VCYC_00005	Amount Added:	8.00	Units: uL	
MSV_V_EE_00003	Amount Added:	2.00	Units: uL	
MSV_DCFM_00022	Amount Added:	1.00	Units: uL	
MSV_V_2CEVE_00106	Amount Added:	2.00	Units: uL	
MSV_V_VOA1_00094	Amount Added:	2.00	Units: uL	
MSV_V_VOA3_00047	Amount Added:	0.80	Units: uL	
MSV_V_VOA6_00053	Amount Added:	2.00	Units: uL	
MSV_V_VOA2_00050	Amount Added:	2.00	Units: uL	
MSV_V_Gas_00146	Amount Added:	1.00	Units: uL	
MSV_HP20_ISSS_00025	Amount Added:	1.00	Units: uL	Run Reagent

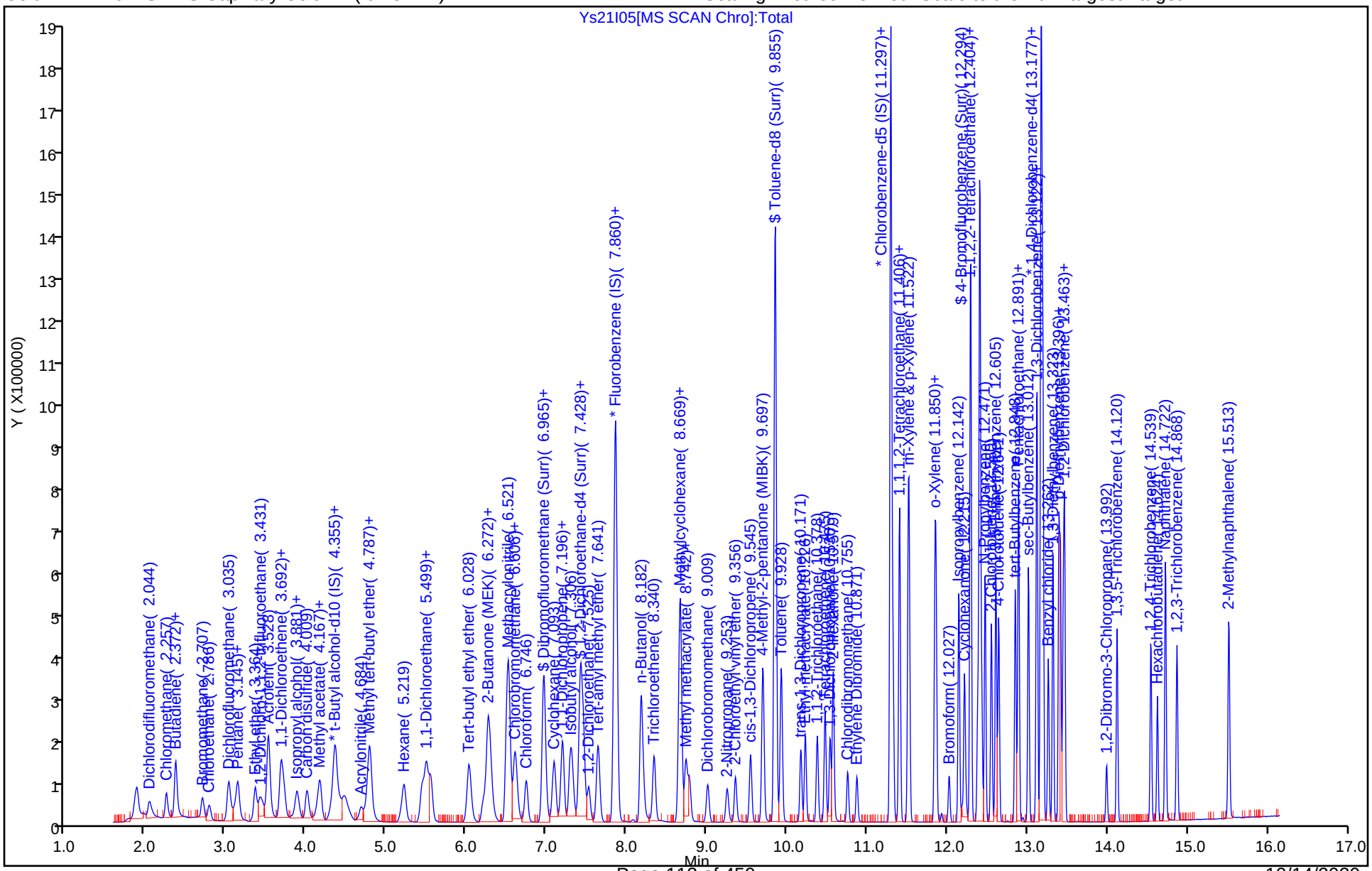
Report Date: 21-Sep-2020 18:08:42 Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I05.D

Injection Date:	21-Sep-2020 15:32:30	Instrument ID:	9355	Operator ID:	kas02648
Lims ID:	IC std3 10			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSVoa_9355	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

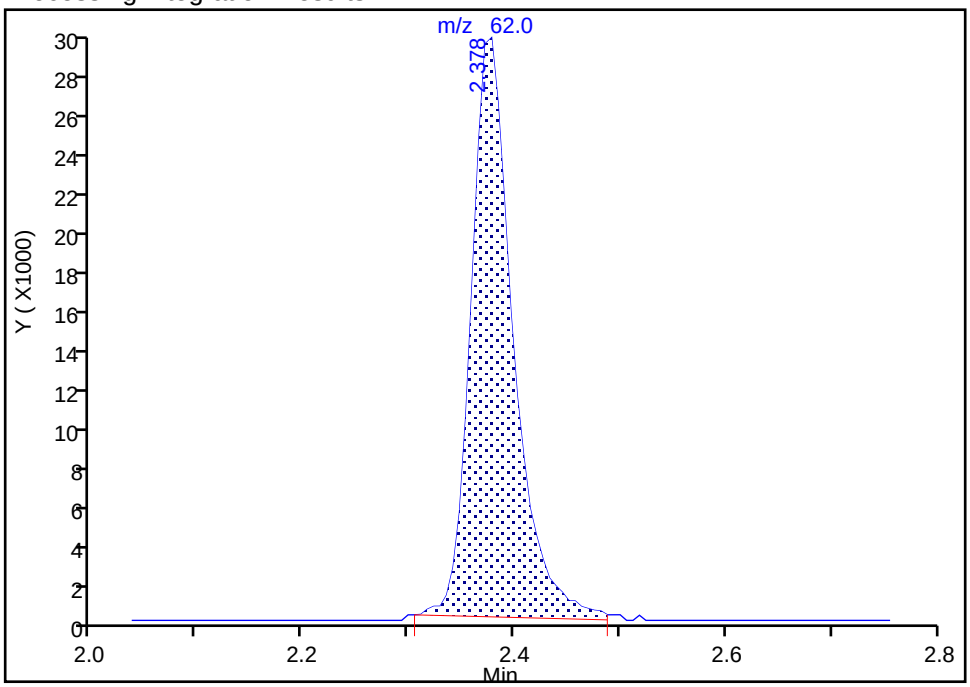
Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I05.D
Injection Date: 21-Sep-2020 15:32:30 Instrument ID: 9355
Lims ID: IC std3 10
Client ID:
Operator ID: kas02648 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

6 Vinyl chloride, CAS: 75-01-4

Signal: 1

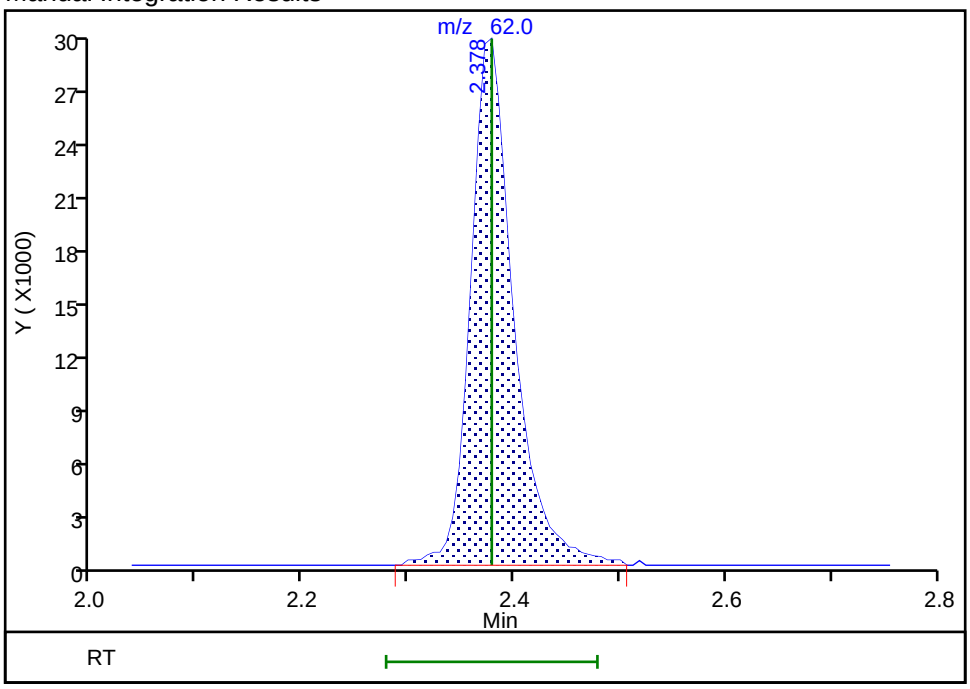
Processing Integration Results

RT: 2.38
Area: 82618
Amount: 10.165007
Amount Units: ug/l



Manual Integration Results

RT: 2.38
Area: 84678
Amount: 10.527658
Amount Units: ug/l



Reviewer: campbellme, 21-Sep-2020 16:31:31
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC

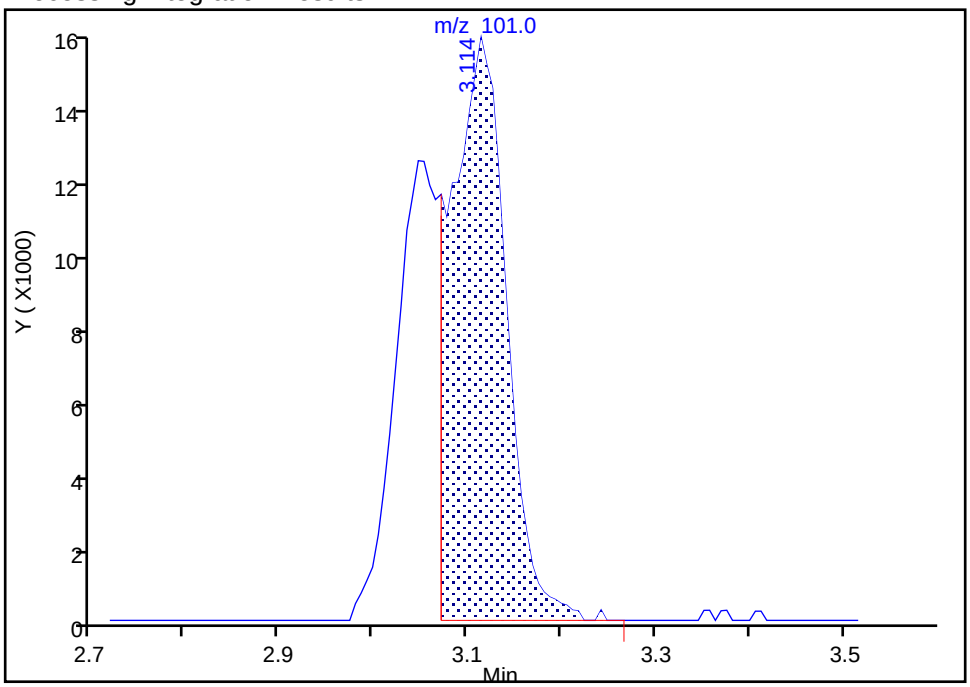
Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I05.D
Injection Date: 21-Sep-2020 15:32:30 Instrument ID: 9355
Lims ID: IC std3 10
Client ID:
Operator ID: kas02648 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

11 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

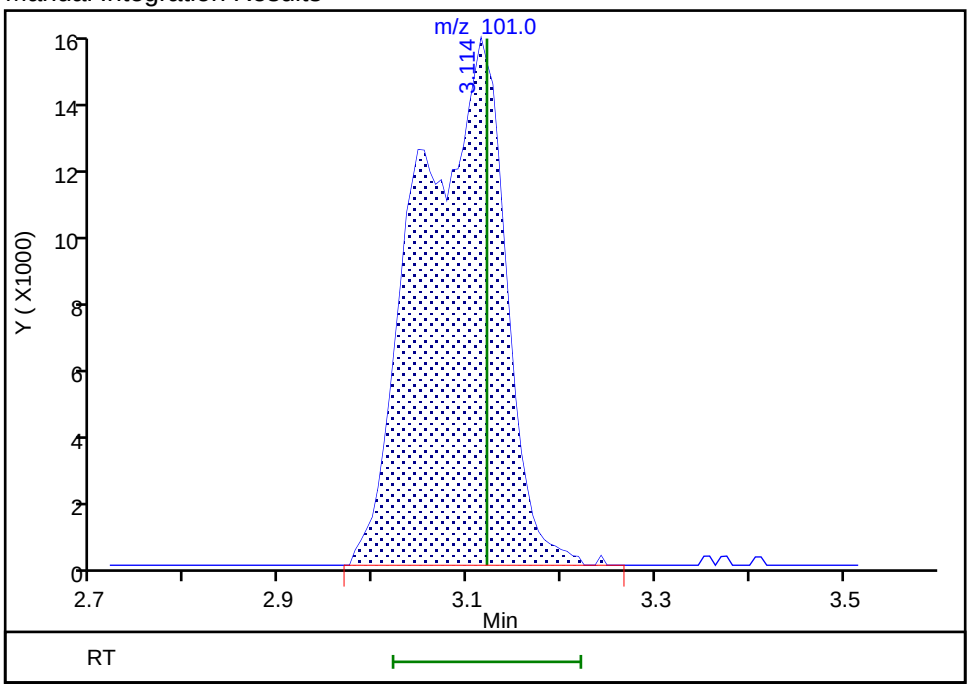
Processing Integration Results

RT: 3.11
Area: 65901
Amount: 6.894717
Amount Units: ug/l



Manual Integration Results

RT: 3.11
Area: 102811
Amount: 10.302170
Amount Units: ug/l



Reviewer: campbellme, 21-Sep-2020 16:31:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

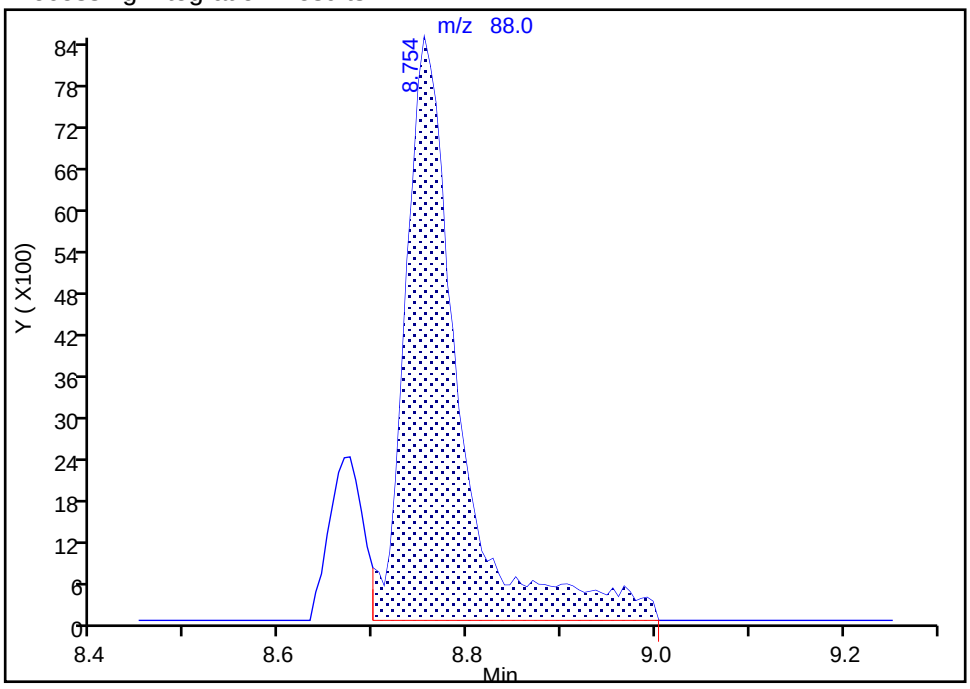
Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I05.D
Injection Date: 21-Sep-2020 15:32:30 Instrument ID: 9355
Lims ID: IC std3 10
Client ID:
Operator ID: kas02648 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

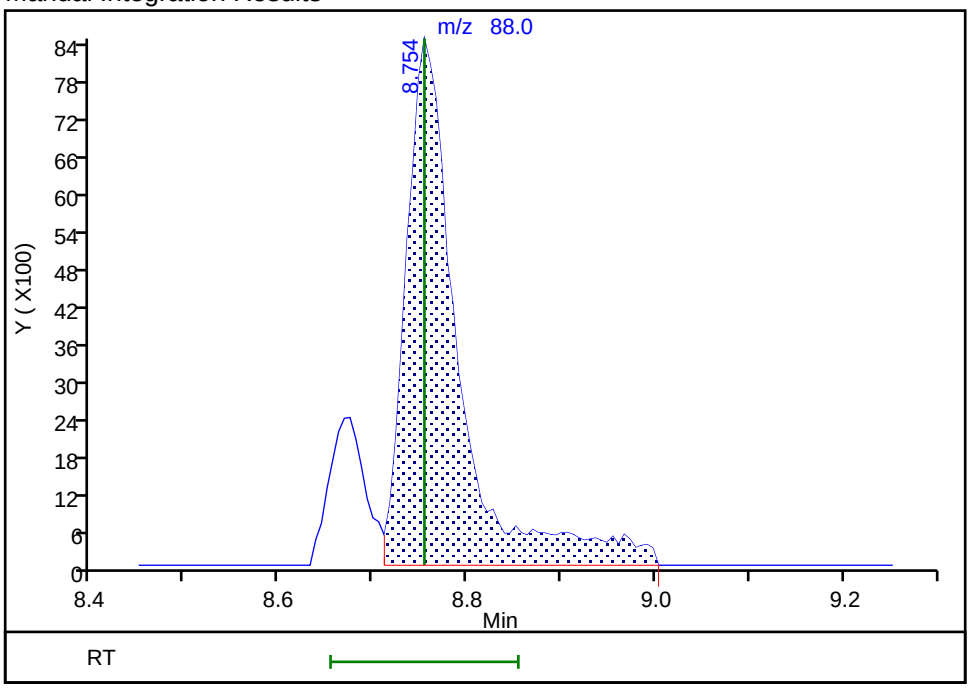
Processing Integration Results

RT: 8.75
Area: 33497
Amount: 252.0259
Amount Units: ug/l



Manual Integration Results

RT: 8.75
Area: 32965
Amount: 255.5180
Amount Units: ug/l



Reviewer: campbellme, 21-Sep-2020 16:32:10
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I06.D
Lims ID: IC std2 4
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 21-Sep-2020 15:53:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0010935-008
Misc. Info.: IC STD2 4
Operator ID: kas02648 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub2

Method: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 21-Sep-2020 18:08:52 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1029

First Level Reviewer: campbellme Date: 21-Sep-2020 16:38:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.032	2.044	-0.012	99	33679	4.00	4.04	
4 Chloromethane	50	2.244	2.257	-0.013	99	35831	4.00	4.15	
5 Butadiene	39	2.360	2.366	-0.006	92	24795	4.00	4.08	
6 Vinyl chloride	62	2.366	2.378	-0.012	98	33492	4.00	4.17	
8 Bromomethane	94	2.701	2.701	0.000	91	23864	4.00	4.26	
9 Chloroethane	64	2.780	2.792	-0.012	99	21170	4.00	4.26	
10 Dichlorofluoromethane	67	3.017	3.029	-0.012	97	46420	4.00	4.14	
11 Trichlorofluoromethane	101	3.096	3.121	-0.025	96	41394	4.00	4.16	
12 Pentane	43	3.139	3.151	-0.012	96	40784	4.00	4.16	
14 Ethyl ether	59	3.352	3.364	-0.012	91	30413	4.00	4.09	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.419	3.431	-0.012	93	33259	4.00	4.09	
16 Acrolein	56	3.522	3.528	-0.006	100	108315	40.1	35.0	
17 1,1-Dichloroethene	96	3.674	3.680	-0.006	98	24056	4.00	4.10	
18 Acetone	58	3.686	3.692	-0.006	100	12620	8.00	7.88	
19 112TCTFE	101	3.705	3.723	-0.018	93	24687	4.00	4.07	
20 Isopropyl alcohol	45	3.857	3.863	-0.006	99	87057	80.0	75.6	
21 Iodomethane	142	3.881	3.893	-0.012	97	42828	4.00	4.05	
22 Carbon disulfide	76	4.003	4.009	-0.006	99	83692	4.00	4.04	
24 Methyl acetate	43	4.124	4.137	-0.013	98	41607	4.00	3.96	
25 3-Chloro-1-propene	41	4.161	4.173	-0.012	94	44038	4.00	3.97	
* 26 t-Butyl alcohol-d10 (IS)	65	4.343	4.356	-0.013	89	377956	250.0	250.0	
27 Methylene Chloride	84	4.355	4.368	-0.013	91	29935	4.00	4.02	
28 2-Methyl-2-propanol	59	4.471	4.477	-0.006	98	155131	80.0	75.9	
30 Acrylonitrile	53	4.672	4.684	-0.012	98	21667	4.00	3.79	
31 Methyl tert-butyl ether	73	4.763	4.781	-0.018	96	88909	4.00	3.90	
32 trans-1,2-Dichloroethene	96	4.781	4.800	-0.019	98	28500	4.00	4.09	
33 Hexane	57	5.213	5.219	-0.006	92	43381	4.00	3.95	
36 1,1-Dichloroethane	63	5.432	5.444	-0.012	96	52063	4.00	4.05	
37 Isopropyl ether	45	5.487	5.499	-0.012	94	93126	4.00	3.88	
38 2-Chloro-1,3-butadiene	53	5.548	5.554	-0.006	90	40290	4.00	3.84	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	6.022	6.035	-0.013	97	83871	4.00	3.80	
S 40 1,2-Dichloroethene, Total	100				0			8.19	
41 2-Butanone (MEK)	43	6.211	6.229	-0.018	100	57059	8.00	7.40	
42 cis-1,2-Dichloroethene	96	6.260	6.266	-0.006	81	32554	4.00	4.10	
44 2,2-Dichloropropane	77	6.284	6.284	0.000	88	38029	4.00	4.01	
45 Propionitrile	54	6.296	6.296	0.000	100	183530	80.0	79.2	
46 Methacrylonitrile	67	6.515	6.521	-0.006	92	217105	40.0	39.2	
47 Chlorobromomethane	128	6.594	6.600	-0.006	94	15491	4.00	3.91	
48 Tetrahydrofuran	71	6.619	6.619	0.000	89	15965	8.00	7.52	
49 Chloroform	83	6.740	6.746	-0.006	93	48275	4.00	4.00	
$ 50 Dibromofluoromethane (Surr)	113	6.953	6.959	-0.006	94	274708	50.0	49.8	
51 1,1,1-Trichloroethane	97	6.978	6.984	-0.006	99	40287	4.00	4.02	
52 Cyclohexane	56	7.093	7.093	0.000	90	51418	4.00	3.96	
53 1,1-Dichloropropene	75	7.190	7.197	-0.007	95	40165	4.00	3.99	
54 Carbon tetrachloride	117	7.203	7.203	0.000	80	32660	4.00	3.93	
55 Isobutyl alcohol	41	7.300	7.306	-0.006	95	124373	200.0	183.4	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.416	7.422	-0.006	98	76362	50.0	50.3	
57 Benzene	78	7.452	7.458	-0.006	94	128150	4.00	4.11	
59 1,2-Dichloroethane	62	7.519	7.525	-0.006	96	41077	4.00	4.03	
60 Tert-amyl methyl ether	73	7.641	7.647	-0.006	96	82444	4.00	3.80	
* 62 Fluorobenzene (IS)	96	7.854	7.860	-0.006	99	1227976	50.0	50.0	
63 n-Heptane	43	7.872	7.878	-0.006	93	52144	4.00	4.14	
64 n-Butanol	56	8.176	8.182	-0.006	89	219077	400.0	364.9	
65 Trichloroethene	95	8.340	8.340	0.000	98	30711	4.00	4.02	
66 Methylcyclohexane	83	8.657	8.657	0.000	95	52845	4.00	3.96	
67 1,2-Dichloropropane	63	8.669	8.669	0.000	73	32869	4.00	4.08	
34 2-ethoxy-2-methyl butane	87	8.669	8.675	-0.006	94	41848	4.00	3.86	
68 Methyl methacrylate	69	8.736	8.736	0.000	90	30114	4.00	3.70	
69 1,4-Dioxane	88	8.748	8.754	-0.006	94	25132	200.0	194.2	M
70 Dibromomethane	93	8.778	8.784	-0.006	97	19686	4.00	3.98	
72 Dichlorobromomethane	83	9.009	9.009	0.000	99	33057	4.00	3.71	
73 2-Nitropropane	41	9.253	9.253	0.000	99	22226	8.00	6.72	
74 2-Chloroethyl vinyl ether	63	9.356	9.356	0.000	92	21388	4.00	3.41	
75 cis-1,3-Dichloropropene	75	9.545	9.545	0.000	96	45462	4.00	3.68	
76 4-Methyl-2-pentanone (MIBK)	43	9.697	9.697	0.000	97	102602	8.00	7.24	
$ 77 Toluene-d8 (Surr)	98	9.849	9.855	-0.006	93	1201608	50.0	49.7	
78 Toluene	92	9.928	9.928	0.000	98	78111	4.00	4.03	
S 79 1,3-Dichloropropene, Total	100				0			7.32	
80 trans-1,3-Dichloropropene	75	10.171	10.171	0.000	92	41090	4.00	3.63	
81 Ethyl methacrylate	69	10.226	10.232	-0.006	90	42116	4.00	3.35	
82 1,1,2-Trichloroethane	97	10.378	10.378	0.000	90	29588	4.00	3.98	
83 Tetrachloroethene	166	10.476	10.476	0.000	97	38264	4.00	4.16	
84 1,3-Dichloropropane	76	10.536	10.536	0.000	88	51335	4.00	3.92	
86 2-Hexanone	43	10.579	10.579	0.000	95	78100	8.00	6.97	
88 Chlorodibromomethane	129	10.755	10.762	-0.007	90	25942	4.00	3.56	
89 Ethylene Dibromide	107	10.871	10.871	0.000	98	30549	4.00	3.82	
S 90 Xylenes, Total	106				0			12.1	
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	86	891820	50.0	50.0	
92 1-Chlorohexane	91	11.297	11.297	0.000	96	41239	4.00	3.95	
93 Chlorobenzene	112	11.321	11.321	0.000	95	88376	4.00	4.09	
94 1,1,1,2-Tetrachloroethane	131	11.406	11.400	0.006	95	26771	4.00	3.89	
95 Ethylbenzene	91	11.406	11.406	0.000	98	146854	4.00	4.07	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
96 m-Xylene & p-Xylene	106	11.522	11.522	0.000	100	115223	8.00	8.16	
97 o-Xylene	106	11.844	11.844	0.000	96	54358	4.00	3.97	
98 Styrene	104	11.863	11.863	0.000	95	85518	4.00	3.82	
99 Bromoform	173	12.027	12.027	0.000	96	18229	4.00	3.34	
100 Isopropylbenzene	105	12.149	12.143	0.007	95	140862	4.00	4.03	
102 Cyclohexanone	55	12.215	12.216	-0.001	91	120358	200.0	201.8	
$ 103 4-Bromofluorobenzene (Surr)	95	12.288	12.295	-0.007	89	454722	50.0	50.2	
104 1,1,2,2-Tetrachloroethane	83	12.380	12.380	0.000	92	50576	4.00	3.87	
106 trans-1,4-Dichloro-2-butene	53	12.404	12.404	0.000	95	170675	40.0	38.3	
105 Bromobenzene	156	12.410	12.410	0.000	74	38480	4.00	4.11	
107 1,2,3-Trichloropropane	110	12.428	12.428	0.000	79	16243	4.00	3.99	
108 N-Propylbenzene	91	12.471	12.471	0.000	99	181045	4.00	4.17	
109 2-Chlorotoluene	126	12.550	12.550	0.000	97	36904	4.00	4.10	
110 1,3,5-Trimethylbenzene	105	12.605	12.605	0.000	94	126291	4.00	4.04	
111 4-Chlorotoluene	126	12.641	12.641	0.000	97	37896	4.00	4.06	
113 tert-Butylbenzene	134	12.854	12.848	0.006	93	25754	4.00	3.94	
114 Pentachloroethane	167	12.885	12.885	0.000	90	15154	4.00	3.64	
115 1,2,4-Trimethylbenzene	105	12.891	12.891	0.000	97	129276	4.00	4.02	
116 sec-Butylbenzene	105	13.012	13.012	0.000	94	165245	4.00	4.14	
117 1,3-Dichlorobenzene	146	13.116	13.116	0.000	97	75167	4.00	4.15	
118 4-Isopropyltoluene	119	13.122	13.122	0.000	97	138087	4.00	4.08	
* 119 1,4-Dichlorobenzene-d4	152	13.171	13.171	0.000	95	493469	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.189	13.189	0.000	95	77097	4.00	4.12	
120 1,2,3-Trimethylbenzene	105	13.195	13.195	0.000	97	128067	4.00	4.00	
122 Benzyl chloride	91	13.262	13.262	0.000	98	89546	4.00	3.48	
123 1,3-Diethylbenzene	119	13.323	13.323	0.000	95	80554	4.00	3.96	
124 p-Diethylbenzene	119	13.396	13.396	0.000	96	85969	4.00	4.02	
125 n-Butylbenzene	92	13.414	13.414	0.000	96	75389	4.00	4.17	
126 1,2-Dichlorobenzene	146	13.450	13.450	0.000	98	72547	4.00	4.08	
127 o-diethylbenzene	119	13.463	13.463	0.000	95	68281	4.00	4.00	
129 1,2-Dibromo-3-Chloropropane	75	13.992	13.986	0.006	82	10936	4.00	3.40	
130 1,3,5-Trichlorobenzene	180	14.120	14.120	0.000	98	55977	4.00	4.01	
131 1,2,4-Trichlorobenzene	180	14.545	14.546	-0.001	94	50801	4.00	3.90	
132 Hexachlorobutadiene	225	14.625	14.625	0.000	97	24556	4.00	4.08	
133 Naphthalene	128	14.722	14.722	0.000	97	163716	4.00	3.74	
134 1,2,3-Trichlorobenzene	180	14.868	14.868	0.000	96	49997	4.00	3.94	
135 2-Methylnaphthalene	142	15.519	15.513	0.006	93	84757	4.00	3.44	
S 146 Total Diethylbenzene	1				0			12.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_VCYC_00005	Amount Added:	32.00	Units: uL	
MSV_V_EE_00003	Amount Added:	4.00	Units: uL	
MSV_DCFM_00022	Amount Added:	2.00	Units: uL	
MSV_V_2CEVE_00106	Amount Added:	4.00	Units: uL	
MSV_V_VOA1_00094	Amount Added:	4.00	Units: uL	
MSV_V_VOA3_00047	Amount Added:	1.60	Units: uL	
MSV_V_VOA6_00053	Amount Added:	4.00	Units: uL	
MSV_V_VOA2_00050	Amount Added:	12.00	Units: uL	
MSV_V_Gas_00146	Amount Added:	2.00	Units: uL	
MSV_HP20_ISSS_00025	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 21-Sep-2020 18:08:53 Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I06.D

Injection Date: 21-Sep-2020 15:53:30 Instrument ID: 9355 Operator ID: kas02648

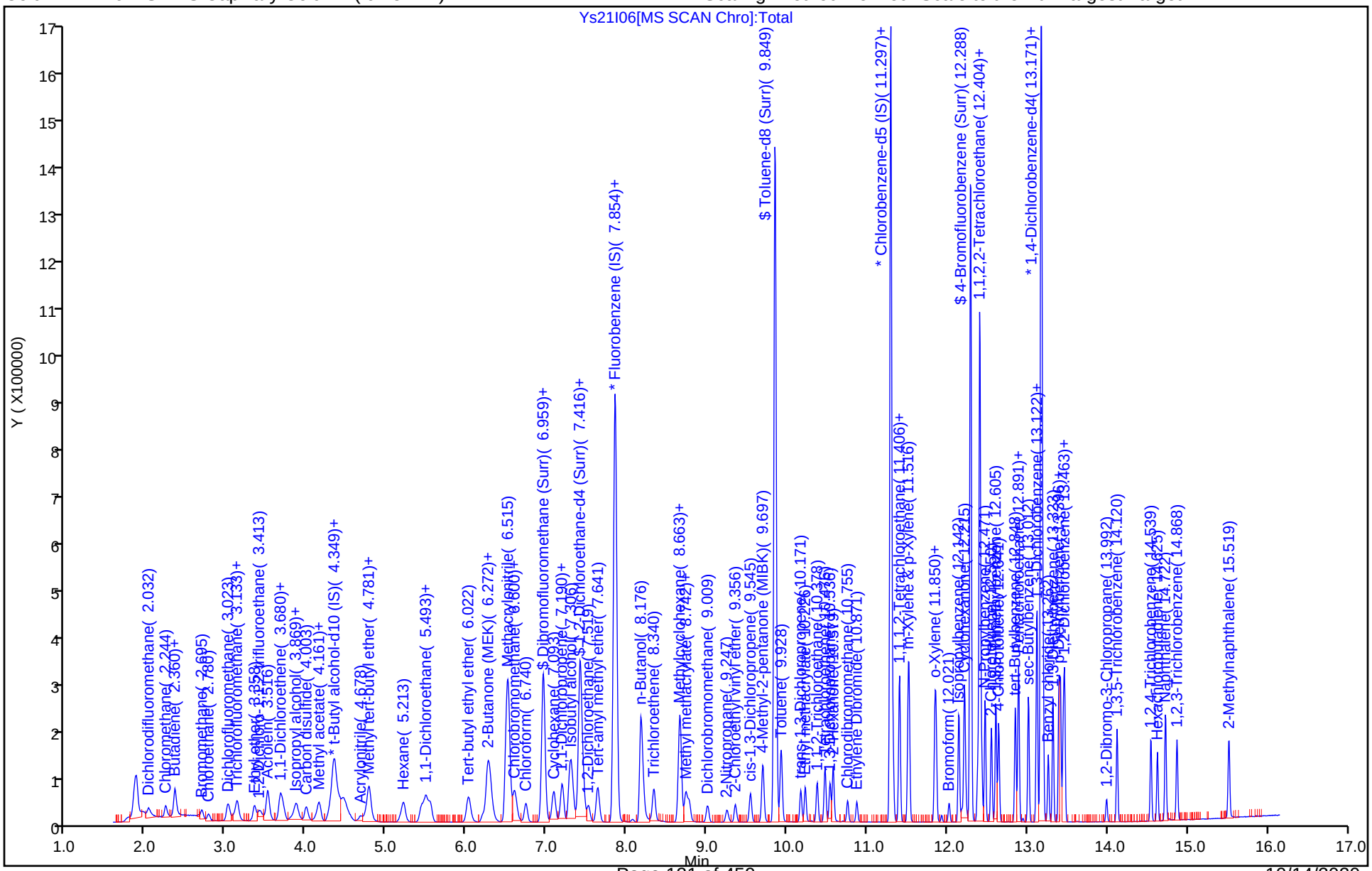
Lims ID: IC std2 4 Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 8

Method: MSVoa_9355 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

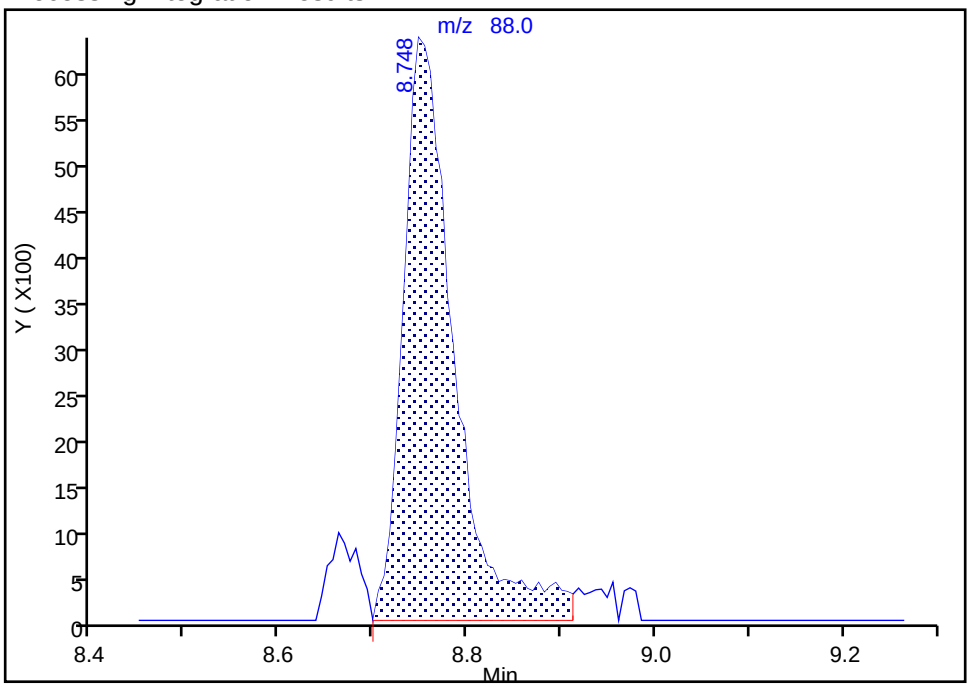
Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I06.D
Injection Date: 21-Sep-2020 15:53:30 Instrument ID: 9355
Lims ID: IC std2 4
Client ID:
Operator ID: kas02648 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

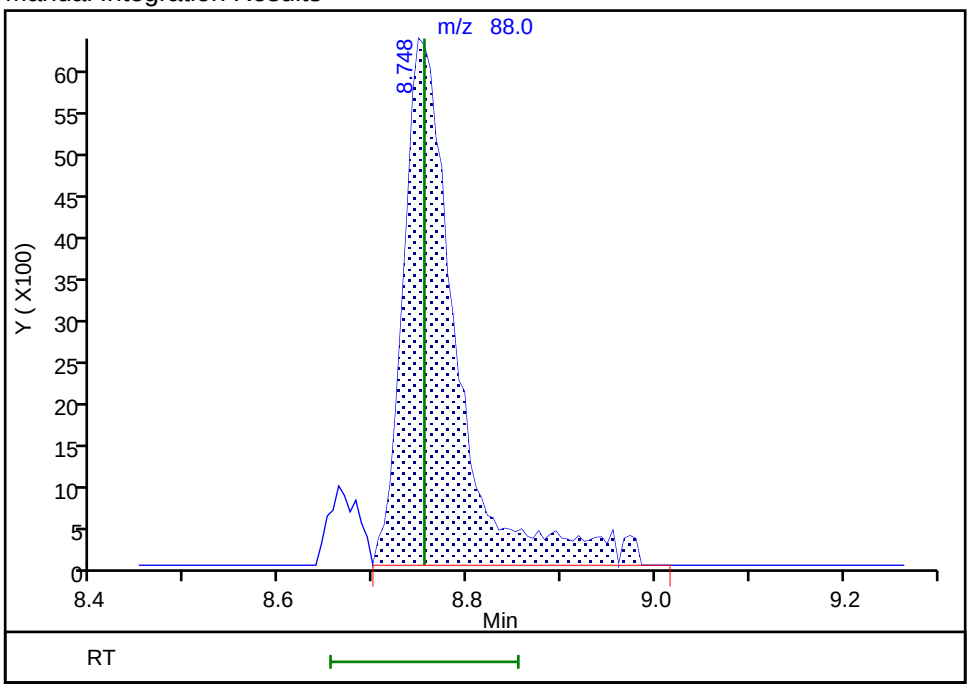
Processing Integration Results

RT: 8.75
Area: 23932
Amount: 179.9905
Amount Units: ug/l



Manual Integration Results

RT: 8.75
Area: 25132
Amount: 194.2076
Amount Units: ug/l



Reviewer: campbellme, 21-Sep-2020 16:33:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D
Lims ID: IC std1 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 21-Sep-2020 16:16:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0010935-009
Misc. Info.: IC STD1 1
Operator ID: kas02648 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub2

Method: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 21-Sep-2020 18:09:07 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1029

First Level Reviewer: campbellme Date: 21-Sep-2020 16:54:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.038	2.044	-0.006	96	6631	1.00	0.7956	
4 Chloromethane	50	2.244	2.257	-0.013	97	8305	1.00	0.9607	
5 Butadiene	39	2.360	2.366	-0.006	89	6553	1.00	1.08	
6 Vinyl chloride	62	2.366	2.378	-0.012	95	7321	1.00	0.9115	
8 Bromomethane	94	2.701	2.701	0.000	87	5203	1.00	0.9277	
9 Chloroethane	64	2.786	2.792	-0.006	97	4676	1.00	0.9416	
10 Dichlorofluoromethane	67	3.023	3.029	-0.006	96	10204	1.00	0.9095	
11 Trichlorofluoromethane	101	3.108	3.121	-0.013	90	8804	1.00	0.8835	
12 Pentane	43	3.139	3.151	-0.012	95	10030	1.00	1.02	
14 Ethyl ether	59	3.364	3.364	0.000	89	7504	1.00	1.01	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.419	3.431	-0.012	91	7539	1.00	0.9273	
16 Acrolein	56	3.522	3.528	-0.006	99	29639	10.0	9.48	
17 1,1-Dichloroethene	96	3.674	3.680	-0.006	95	5182	1.00	0.8820	
18 Acetone	58	3.698	3.692	0.006	97	2963	2.00	1.83	
19 112TCTFE	101	3.717	3.723	-0.006	67	5379	1.00	0.8870	
20 Isopropyl alcohol	45	3.863	3.863	0.000	97	23116	20.0	19.9	
21 Iodomethane	142	3.881	3.893	-0.012	97	9355	1.00	0.8836	
22 Carbon disulfide	76	4.009	4.009	0.000	98	18443	1.00	0.8909	
24 Methyl acetate	43	4.136	4.137	-0.001	95	10070	1.00	0.9586	
25 3-Chloro-1-propene	41	4.167	4.173	-0.006	93	9863	1.00	0.8895	
* 26 t-Butyl alcohol-d10 (IS)	65	4.349	4.356	-0.007	84	382103	250.0	250.0	
27 Methylene Chloride	84	4.355	4.368	-0.013	90	7622	1.00	1.02	
28 2-Methyl-2-propanol	59	4.465	4.477	-0.012	98	39521	20.0	19.1	
30 Acrylonitrile	53	4.690	4.684	0.006	93	4808	1.00	0.8415	
31 Methyl tert-butyl ether	73	4.781	4.781	0.000	95	20916	1.00	0.9162	
32 trans-1,2-Dichloroethene	96	4.787	4.800	-0.013	97	6405	1.00	0.9186	
33 Hexane	57	5.213	5.219	-0.006	94	8726	1.00	0.7935	
36 1,1-Dichloroethane	63	5.438	5.444	-0.006	93	11915	1.00	0.9265	
37 Isopropyl ether	45	5.493	5.499	-0.006	91	20932	1.00	0.8721	
38 2-Chloro-1,3-butadiene	53	5.554	5.554	0.000	89	7764	1.00	0.7391	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	6.028	6.035	-0.007	95	18880	1.00	0.8543	
S 40 1,2-Dichloroethene, Total	100				0			1.81	
41 2-Butanone (MEK)	43	6.223	6.229	-0.006	99	13817	2.00	1.79	
42 cis-1,2-Dichloroethene	96	6.266	6.266	0.000	80	7099	1.00	0.8948	
44 2,2-Dichloropropane	77	6.284	6.284	0.000	70	7995	1.00	0.8432	
45 Propionitrile	54	6.296	6.296	0.000	99	44226	20.0	18.9	
46 Methacrylonitrile	67	6.527	6.521	0.006	92	50043	10.0	9.04	
47 Chlorobromomethane	128	6.600	6.600	0.000	94	3595	1.00	0.9081	
48 Tetrahydrofuran	71	6.612	6.619	-0.007	80	3552	2.00	1.66	
49 Chloroform	83	6.740	6.746	-0.006	93	11144	1.00	0.9227	
$ 50 Dibromofluoromethane (Surr)	113	6.959	6.959	0.000	94	274168	50.0	49.6	
51 1,1,1-Trichloroethane	97	6.984	6.984	0.000	89	8972	1.00	0.8947	
52 Cyclohexane	56	7.087	7.093	-0.006	90	10573	1.00	0.8137	
53 1,1-Dichloropropene	75	7.196	7.197	-0.001	94	8527	1.00	0.8471	
54 Carbon tetrachloride	117	7.196	7.203	-0.007	84	7005	1.00	0.8428	
55 Isobutyl alcohol	41	7.300	7.306	-0.006	93	30830	50.0	45.0	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.416	7.422	-0.006	98	75441	50.0	49.7	
57 Benzene	78	7.452	7.458	-0.006	93	29742	1.00	0.9538	
59 1,2-Dichloroethane	62	7.525	7.525	0.000	97	10477	1.00	1.03	
60 Tert-amyl methyl ether	73	7.641	7.647	-0.006	95	18711	1.00	0.8618	
* 62 Fluorobenzene (IS)	96	7.854	7.860	-0.006	99	1228423	50.0	50.0	
63 n-Heptane	43	7.866	7.878	-0.012	36	11247	1.00	0.8917	
64 n-Butanol	56	8.182	8.182	0.000	90	48928	100.0	80.6	
65 Trichloroethene	95	8.340	8.340	0.000	95	6949	1.00	0.9100	
66 Methylcyclohexane	83	8.663	8.657	0.006	90	10763	1.00	0.8058	
67 1,2-Dichloropropane	63	8.675	8.669	0.006	75	7458	1.00	0.9250	
34 2-ethoxy-2-methyl butane	87	8.669	8.675	-0.006	79	8995	1.00	0.8288	
68 Methyl methacrylate	69	8.736	8.736	0.000	93	6249	1.00	0.7679	
69 1,4-Dioxane	88	8.754	8.754	0.000	95	5160	50.0	39.4	
70 Dibromomethane	93	8.784	8.784	0.000	98	4479	1.00	0.9047	
72 Dichlorobromomethane	83	9.009	9.009	0.000	97	7491	1.00	0.8400	
73 2-Nitropropane	41	9.253	9.253	0.000	96	5211	2.00	1.56	
74 2-Chloroethyl vinyl ether	63	9.362	9.356	0.006	88	4472	1.00	0.7134	
75 cis-1,3-Dichloropropene	75	9.545	9.545	0.000	96	9801	1.00	0.7939	
76 4-Methyl-2-pentanone (MIBK)	43	9.697	9.697	0.000	97	21288	2.00	1.50	
$ 77 Toluene-d8 (Surr)	98	9.849	9.855	-0.006	93	1196006	50.0	49.2	
78 Toluene	92	9.928	9.928	0.000	99	18779	1.00	0.9645	
S 79 1,3-Dichloropropene, Total	100				0			1.57	
80 trans-1,3-Dichloropropene	75	10.171	10.171	0.000	92	8829	1.00	0.7770	
81 Ethyl methacrylate	69	10.226	10.232	-0.006	88	8899	1.00	0.7054	
82 1,1,2-Trichloroethane	97	10.378	10.378	0.000	91	6728	1.00	0.9000	
83 Tetrachloroethene	166	10.476	10.476	0.000	96	8452	1.00	0.9142	
84 1,3-Dichloropropane	76	10.536	10.536	0.000	88	11979	1.00	0.9113	
86 2-Hexanone	43	10.579	10.579	0.000	96	17149	2.00	1.52	
88 Chlorodibromomethane	129	10.761	10.762	-0.001	89	5681	1.00	0.7760	
89 Ethylene Dibromide	107	10.871	10.871	0.000	98	6789	1.00	0.8443	
S 90 Xylenes, Total	106				0			2.61	
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	86	896235	50.0	50.0	
92 1-Chlorohexane	91	11.297	11.297	0.000	46	10122	1.00	0.9637	
93 Chlorobenzene	112	11.321	11.321	0.000	97	21030	1.00	0.9692	
94 1,1,1,2-Tetrachloroethane	131	11.400	11.400	0.000	93	6013	1.00	0.8685	
95 Ethylbenzene	91	11.406	11.406	0.000	98	32759	1.00	0.9033	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
96 m-Xylene & p-Xylene	106	11.522	11.522	0.000	100	24914	2.00	1.75	
97 o-Xylene	106	11.850	11.844	0.006	96	11777	1.00	0.8569	
98 Styrene	104	11.863	11.863	0.000	95	17141	1.00	0.7613	
99 Bromoform	173	12.021	12.027	-0.006	94	3941	1.00	0.7182	
100 Isopropylbenzene	105	12.149	12.143	0.007	95	28693	1.00	0.8176	
102 Cyclohexanone	55	12.215	12.216	-0.001	90	25361	50.0	42.1	
$ 103 4-Bromofluorobenzene (Surr)	95	12.295	12.295	0.000	90	451548	50.0	49.6	
104 1,1,2,2-Tetrachloroethane	83	12.380	12.380	0.000	93	11913	1.00	0.9085	
106 trans-1,4-Dichloro-2-butene	53	12.404	12.404	0.000	93	39148	10.0	8.77	
105 Bromobenzene	156	12.410	12.410	0.000	62	8985	1.00	0.9578	
107 1,2,3-Trichloropropane	110	12.428	12.428	0.000	75	3943	1.00	0.9664	
108 N-Propylbenzene	91	12.471	12.471	0.000	99	40502	1.00	0.9297	
109 2-Chlorotoluene	126	12.556	12.550	0.006	97	8221	1.00	0.9106	
110 1,3,5-Trimethylbenzene	105	12.605	12.605	0.000	94	26454	1.00	0.8441	
111 4-Chlorotoluene	126	12.641	12.641	0.000	96	8141	1.00	0.8688	
113 tert-Butylbenzene	134	12.848	12.848	0.000	93	5460	1.00	0.8334	
114 Pentachloroethane	167	12.885	12.885	0.000	78	3284	1.00	0.7857	
115 1,2,4-Trimethylbenzene	105	12.891	12.891	0.000	97	26475	1.00	0.8219	
116 sec-Butylbenzene	105	13.012	13.012	0.000	94	33870	1.00	0.8470	
117 1,3-Dichlorobenzene	146	13.116	13.116	0.000	97	17592	1.00	0.9686	
118 4-Isopropyltoluene	119	13.122	13.122	0.000	97	27722	1.00	0.8174	
* 119 1,4-Dichlorobenzene-d4	152	13.171	13.171	0.000	95	494823	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.189	13.189	0.000	94	18807	1.00	1.00	
120 1,2,3-Trimethylbenzene	105	13.195	13.195	0.000	97	29809	1.00	0.9275	
122 Benzyl chloride	91	13.262	13.262	0.000	99	19520	1.00	0.7571	
123 1,3-Diethylbenzene	119	13.323	13.323	0.000	95	16663	1.00	0.8163	
124 p-Diethylbenzene	119	13.396	13.396	0.000	94	17211	1.00	0.8029	
125 n-Butylbenzene	92	13.414	13.414	0.000	97	16097	1.00	0.8888	
126 1,2-Dichlorobenzene	146	13.450	13.450	0.000	98	17830	1.00	1.00	
127 o-diethylbenzene	119	13.463	13.463	0.000	94	15062	1.00	0.8802	
129 1,2-Dibromo-3-Chloropropane	75	13.992	13.986	0.006	78	2545	1.00	0.7880	
130 1,3,5-Trichlorobenzene	180	14.120	14.120	0.000	97	13435	1.00	0.9587	
131 1,2,4-Trichlorobenzene	180	14.545	14.546	-0.001	94	12369	1.00	0.9468	
132 Hexachlorobutadiene	225	14.625	14.625	0.000	96	6038	1.00	1.00	
133 Naphthalene	128	14.722	14.722	0.000	97	37394	1.00	0.8527	
134 1,2,3-Trichlorobenzene	180	14.868	14.868	0.000	96	12232	1.00	0.9613	
135 2-Methylnaphthalene	142	15.519	15.513	0.006	91	19304	1.00	0.7805	
S 146 Total Diethylbenzene	1				0			2.50	

QC Flag Legend

Processing Flags

Reagents:

MSV_4ppbEE_00085	Amount Added: 12.50	Units: mL	
MSV_HP20_ISSS_00025	Amount Added: 1.00	Units: uL	Run Reagent

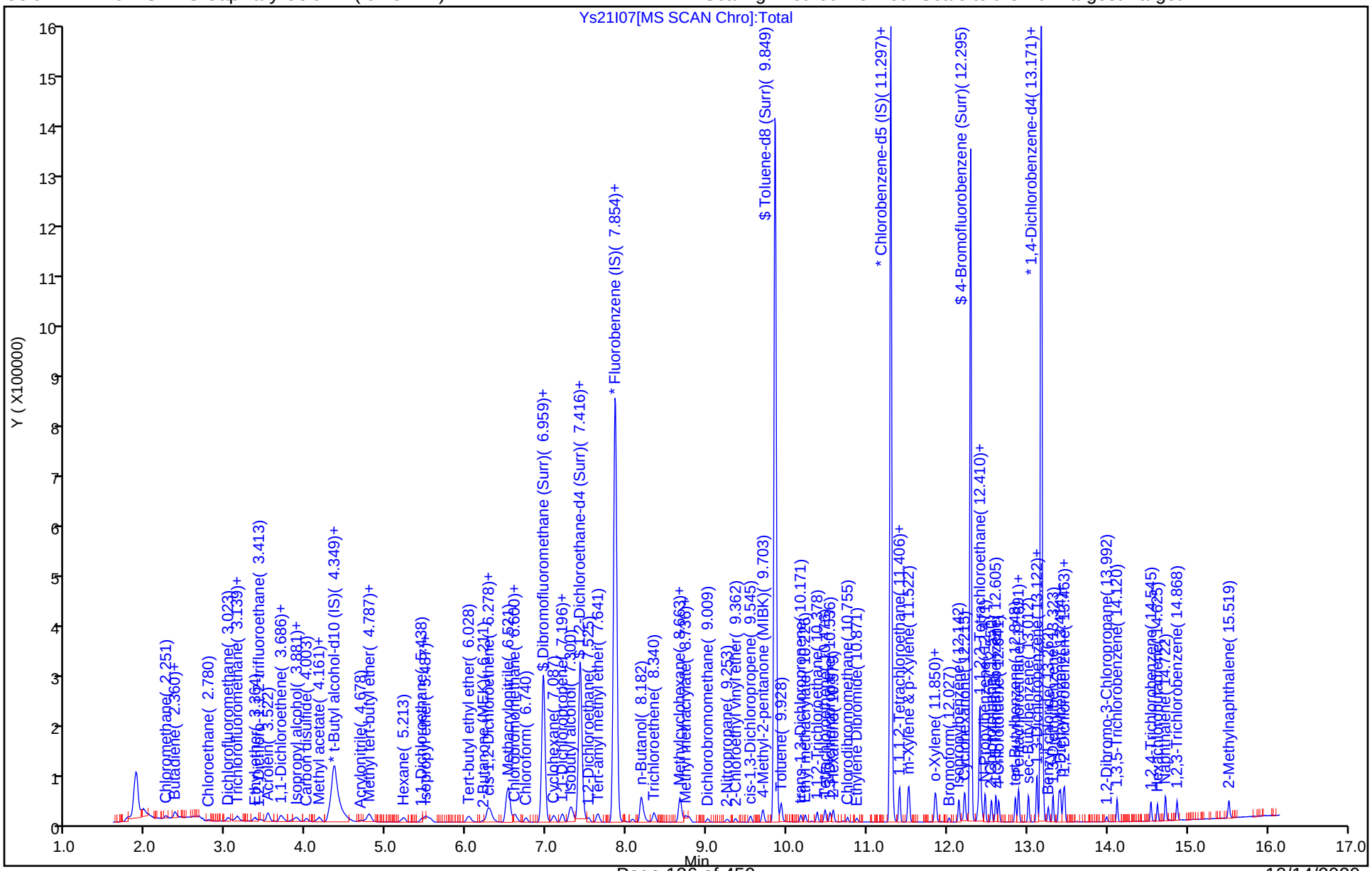
Report Date: 21-Sep-2020 18:09:08 Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Injection Date:	21-Sep-2020 16:16:30	Instrument ID:	9355	Operator ID:	kas02648
Lims ID:	IC std1 1			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1

SDG No.:

Lab Sample ID: ICV 410-46013/11 Calibration Date: 09/21/2020 17:00

Instrument ID: 9355 Calib Start Date: 09/21/2020 14:04

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 09/21/2020 16:16

Lab File ID: Ys21v01.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	0.3392	0.2795	0.1000	16.5	20.0	-17.6	30.0
Chloromethane	Ave	0.3519	0.3162	0.1000	18.0	20.0	-10.1	30.0
1,3-Butadiene	Ave	0.2475	0.2825		22.8	20.0	14.1	30.0
Vinyl chloride	Ave	0.3269	0.3112	0.1000	19.0	20.0	-4.8	30.0
Bromomethane	Ave	0.2283	0.1959	0.1000	17.2	20.0	-14.2	30.0
Chloroethane	Ave	0.2021	0.1707	0.1000	16.9	20.0	-15.6	30.0
Dichlorofluoromethane	Ave	0.4567	0.4264		18.7	20.0	-6.6	30.0
Trichlorofluoromethane	Ave	0.4056	0.3714	0.1000	18.3	20.0	-8.4	30.0
n-Pentane	Ave	0.3994	0.3621		18.1	20.0	-9.3	30.0
Ethyl ether	Ave	0.3028	0.2828		18.7	20.0	-6.6	30.0
Freon 123a	Ave	0.3309	0.3342		20.2	20.0	1.0	30.0
Acrolein	Ave	2.046	1.986		145	150	-2.9	30.0
1,1-Dichloroethene	Ave	0.2391	0.2586	0.1000	21.6	20.0	8.2	30.0
Acetone	Ave	1.060	1.048	0.1000	148	150	-1.1	30.0
Freon 113	Ave	0.2468	0.2427	0.1000	19.7	20.0	-1.7	30.0
2-Propanol	Ave	0.7615	0.6914		136	150	-9.2	30.0
Methyl iodide	Ave	0.4309	0.4341		20.1	20.0	0.7	30.0
Carbon disulfide	Ave	0.8426	0.8741	0.1000	20.7	20.0	3.7	30.0
Methyl acetate	Ave	0.4276	0.4344	0.1000	20.3	20.0	1.6	30.0
Allyl chloride	Ave	0.4513	0.4495		19.9	20.0	-0.4	30.0
Methylene Chloride	Ave	0.3034	0.3115	0.1000	20.5	20.0	2.7	30.0
t-Butyl alcohol	Ave	1.352	1.294		191	200	-4.3	30.0
Acrylonitrile	Ave	0.2326	0.2257		97.0	100	-3.0	30.0
Methyl tertiary butyl ether	Ave	0.9292	0.8981	0.1000	19.3	20.0	-3.4	30.0
trans-1,2-Dichloroethene	Ave	0.2838	0.2884	0.1000	20.3	20.0	1.6	30.0
n-Hexane	Ave	0.4476	0.4683		20.9	20.0	4.6	30.0
1,1-Dichloroethane	Ave	0.5235	0.5246	0.2000	20.0	20.0	0.2	30.0
di-Isopropyl ether	Ave	0.9769	0.9655		19.8	20.0	-1.2	30.0
2-Chloro-1,3-butadiene	Ave	0.4276	0.4321		20.2	20.0	1.1	30.0
Ethyl t-butyl ether	Ave	0.8995	0.8907		19.8	20.0	-1.0	30.0
2-Butanone	Ave	0.3140	0.3214	0.1000	154	150	2.4	30.0
cis-1,2-Dichloroethene	Ave	0.3229	0.3428	0.1000	21.2	20.0	6.1	30.0
2,2-Dichloropropane	Ave	0.3859	0.3966		20.6	20.0	2.8	30.0
Propionitrile	Ave	1.532	1.530		150	150	-0.1	30.0
Methacrylonitrile	Ave	0.2253	0.2318		154	150	2.9	30.0
Bromochloromethane	Ave	0.1611	0.1547		19.2	20.0	-4.0	30.0
Tetrahydrofuran	Ave	1.404	1.424		101	100	1.4	30.0
Chloroform	Ave	0.4916	0.4882	0.2000	19.9	20.0	-0.7	30.0
1,1,1-Trichloroethane	Ave	0.4081	0.4032	0.1000	19.8	20.0	-1.2	30.0
Cyclohexane	Ave	0.5289	0.5432	0.1000	20.5	20.0	2.7	30.0
1,1-Dichloropropene	Ave	0.4097	0.4142		20.2	20.0	1.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1

SDG No.:

Lab Sample ID: ICV 410-46013/11 Calibration Date: 09/21/2020 17:00

Instrument ID: 9355 Calib Start Date: 09/21/2020 14:04

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 09/21/2020 16:16

Lab File ID: Ys21v01.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	0.3383	0.3423	0.1000	20.2	20.0	1.2	30.0
Isobutyl alcohol	Ave	0.4484	0.4258		475	500	-5.1	30.0
Benzene	Ave	1.269	1.258	0.5000	19.8	20.0	-0.9	30.0
1,2-Dichloroethane	Ave	0.4150	0.4087	0.1000	19.7	20.0	-1.5	30.0
t-Amyl methyl ether	Ave	0.8838	0.8831		20.0	20.0	-0.0	30.0
n-Heptane	Ave	0.5134	0.5129		20.0	20.0	-0.1	30.0
n-Butanol	Ave	0.3971	0.3819		962	1000	-3.8	30.0
Trichloroethene	Ave	0.3108	0.3085	0.2000	19.9	20.0	-0.7	30.0
Methylcyclohexane	Ave	0.5437	0.5668	0.1000	20.9	20.0	4.3	30.0
1,2-Dichloropropane	Ave	0.3282	0.3383	0.1000	20.6	20.0	3.1	30.0
t-Amyl ethyl ether	Ave	0.4418	0.4507		20.4	20.0	2.0	30.0
Methyl methacrylate	Ave	0.3312	0.3401		20.5	20.0	2.7	30.0
1,4-Dioxane	Ave	0.0856	0.0855	0.0050	499	500	-0.2	30.0
Dibromomethane	Ave	0.2015	0.2040		20.2	20.0	1.2	30.0
Bromodichloromethane	Ave	0.3630	0.3613	0.2000	19.9	20.0	-0.5	30.0
2-Nitropropane	Ave	2.189	2.012		18.4	20.0	-8.1	30.0
2-Chloroethyl vinyl ether	Ave	0.2551	0.2637		20.7	20.0	3.4	30.0
cis-1,3-Dichloropropene	Ave	0.5025	0.5012	0.2000	19.9	20.0	-0.3	30.0
4-Methyl-2-pentanone	Ave	0.5767	0.5898	0.1000	102	100	2.3	30.0
Toluene	Ave	1.086	1.082	0.4000	19.9	20.0	-0.4	30.0
trans-1,3-Dichloropropene	Ave	0.6339	0.6246	0.1000	19.7	20.0	-1.5	30.0
Ethyl methacrylate	Ave	0.7038	0.7228		20.5	20.0	2.7	30.0
1,1,2-Trichloroethane	Ave	0.4171	0.4308	0.1000	20.7	20.0	3.3	30.0
Tetrachloroethene	Ave	0.5158	0.5181	0.2000	20.1	20.0	0.4	30.0
1,3-Dichloropropane	Ave	0.7334	0.7309		19.9	20.0	-0.3	30.0
2-Hexanone	Ave	0.6281	0.6520	0.1000	104	100	3.8	30.0
Dibromochloromethane	Ave	0.4084	0.4082		20.0	20.0	-0.0	30.0
1,2-Dibromoethane	Ave	0.4486	0.4495	0.1000	20.0	20.0	0.2	30.0
1-Chlorohexane	Ave	0.5859	0.5699		19.5	20.0	-2.7	30.0
Chlorobenzene	Ave	1.211	1.209	0.5000	20.0	20.0	-0.0	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3862	0.3825		19.8	20.0	-1.0	30.0
Ethylbenzene	Ave	2.023	2.041	0.1000	20.2	20.0	0.9	30.0
m&p-Xylene	Ave	0.7921	0.8179	0.1000	41.3	40.0	3.3	30.0
o-Xylene	Ave	0.7667	0.7896	0.3000	20.6	20.0	3.0	30.0
Styrene	Ave	1.256	1.310	0.3000	20.9	20.0	4.3	30.0
Bromoform	Ave	0.3061	0.2928	0.1000	19.1	20.0	-4.4	30.0
Isopropylbenzene	Ave	1.958	2.025	0.1000	20.7	20.0	3.4	30.0
Cyclohexanone	Ave	0.3944	0.3137		398	500	-20.5	30.0
1,1,2,2-Tetrachloroethane	Ave	1.325	1.343	0.3000	20.3	20.0	1.3	30.0
trans-1,4-Dichloro-2-butene	Ave	0.4511	0.4632		103	100	2.7	30.0
Bromobenzene	Ave	0.9479	0.9655		20.4	20.0	1.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1

SDG No.:

Lab Sample ID: ICV 410-46013/11 Calibration Date: 09/21/2020 17:00

Instrument ID: 9355 Calib Start Date: 09/21/2020 14:04

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 09/21/2020 16:16

Lab File ID: Ys21v01.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichloropropane	Ave	0.4123	0.4188		20.3	20.0	1.6	30.0
N-Propylbenzene	Ave	4.402	4.597		20.9	20.0	4.4	30.0
2-Chlorotoluene	Ave	0.9123	0.9112		20.0	20.0	-0.1	30.0
1,3,5-Trimethylbenzene	Ave	3.167	3.261		20.6	20.0	3.0	30.0
4-Chlorotoluene	Ave	0.9469	0.9640		20.4	20.0	1.8	30.0
tert-Butylbenzene	Ave	0.6620	0.6837		20.7	20.0	3.3	30.0
Pentachloroethane	Ave	0.4224	0.4418		20.9	20.0	4.6	30.0
1,2,4-Trimethylbenzene	Ave	3.255	3.365		20.7	20.0	3.4	30.0
sec-Butylbenzene	Ave	4.040	4.275		21.2	20.0	5.8	30.0
1,3-Dichlorobenzene	Ave	1.835	1.862	0.6000	20.3	20.0	1.5	30.0
p-Isopropyltoluene	Ave	3.427	3.684		21.5	20.0	7.5	30.0
1,4-Dichlorobenzene	Ave	1.895	1.927	0.5000	20.3	20.0	1.7	30.0
1,2,3-Trimethylbenzene	Ave	3.247	3.544		21.8	20.0	9.1	30.0
Benzyl chloride	Ave	2.605	2.630		20.2	20.0	0.9	30.0
1,3-Diethylbenzene	Ave	2.063	2.188		21.2	20.0	6.1	30.0
1,4-Diethylbenzene	Ave	2.166	2.331		21.5	20.0	7.6	30.0
n-Butylbenzene	Ave	1.830	1.883		20.6	20.0	2.9	30.0
1,2-Dichlorobenzene	Ave	1.801	1.829	0.4000	20.3	20.0	1.6	30.0
1,2-Diethylbenzene	Ave	1.729	1.837		21.2	20.0	6.2	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.3263	0.3195	0.0500	19.6	20.0	-2.1	30.0
1,3,5-Trichlorobenzene	Ave	1.416	1.419		20.0	20.0	0.2	30.0
1,2,4-Trichlorobenzene	Ave	1.320	1.330	0.2000	20.1	20.0	0.7	30.0
Hexachlorobutadiene	Ave	0.6100	0.6102		20.0	20.0	0.0	30.0
Naphthalene	Ave	4.431	4.587		20.7	20.0	3.5	30.0
1,2,3-Trichlorobenzene	Ave	1.286	1.285		20.0	20.0	-0.0	30.0
2-Methylnaphthalene	Ave	2.499	2.464		19.7	20.0	-1.4	30.0
Dibromofluoromethane (Surr)	Ave	0.2248	0.2228		49.6	50.0	-0.9	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0618	0.0620		50.1	50.0	0.3	30.0
Toluene-d8 (Surr)	Ave	1.355	1.346		49.7	50.0	-0.7	30.0
4-Bromofluorobenzene (Surr)	Ave	0.5083	0.4984		49.0	50.0	-1.9	30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21v01.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 21-Sep-2020 17:00:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0010935-011
Misc. Info.: ICV
Operator ID: kas02648 Instrument ID: 9355
Sublist:

Method: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 21-Sep-2020 18:09:37 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1029

First Level Reviewer: campbellme Date: 21-Sep-2020 17:43:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.025	2.044	-0.019	99	136445	20.0	16.5	M
4 Chloromethane	50	2.238	2.257	-0.019	99	154336	20.0	18.0	
5 Butadiene	39	2.354	2.366	-0.012	92	137870	20.0	22.8	
6 Vinyl chloride	62	2.360	2.378	-0.018	97	151889	20.0	19.0	
8 Bromomethane	94	2.682	2.701	-0.019	90	95636	20.0	17.2	
9 Chloroethane	64	2.774	2.792	-0.018	100	83311	20.0	16.9	
10 Dichlorofluoromethane	67	3.017	3.029	-0.012	97	208137	20.0	18.7	
11 Trichlorofluoromethane	101	3.096	3.121	-0.025	98	181286	20.0	18.3	M
12 Pentane	43	3.133	3.151	-0.018	96	176751	20.0	18.1	
14 Ethyl ether	59	3.345	3.364	-0.019	90	138178	20.0	18.7	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.412	3.431	-0.019	93	163124	20.0	20.2	
16 Acrolein	56	3.510	3.528	-0.018	100	446090	149.7	145.3	
17 1,1-Dichloroethene	96	3.668	3.680	-0.012	97	126234	20.0	21.6	
18 Acetone	58	3.686	3.692	-0.006	100	235875	150.0	148.3	
19 112TCTFE	101	3.698	3.723	-0.025	91	118435	20.0	19.7	
20 Isopropyl alcohol	45	3.857	3.863	-0.007	97	155602	150.0	136.2	
21 Iodomethane	142	3.881	3.893	-0.012	97	211869	20.0	20.1	
22 Carbon disulfide	76	3.996	4.009	-0.013	99	426632	20.0	20.7	
24 Methyl acetate	43	4.118	4.137	-0.019	98	212021	20.0	20.3	
25 3-Chloro-1-propene	41	4.155	4.173	-0.018	94	219391	20.0	19.9	
* 26 t-Butyl alcohol-d10 (IS)	65	4.343	4.356	-0.013	97	375114	250.0	250.0	
27 Methylene Chloride	84	4.349	4.368	-0.019	93	152057	20.0	20.5	
28 2-Methyl-2-propanol	59	4.477	4.477	0.000	98	388278	200.0	191.4	
30 Acrylonitrile	53	4.672	4.684	-0.012	99	550690	100.0	97.0	
31 Methyl tert-butyl ether	73	4.769	4.781	-0.012	96	438334	20.0	19.3	
32 trans-1,2-Dichloroethene	96	4.781	4.800	-0.019	98	140778	20.0	20.3	
33 Hexane	57	5.207	5.219	-0.012	91	228551	20.0	20.9	
36 1,1-Dichloroethane	63	5.432	5.444	-0.012	96	256033	20.0	20.0	
37 Isopropyl ether	45	5.487	5.499	-0.012	94	471249	20.0	19.8	
38 2-Chloro-1,3-butadiene	53	5.542	5.554	-0.012	90	210882	20.0	20.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	6.022	6.035	-0.013	97	434765	20.0	19.8	
41 2-Butanone (MEK)	43	6.217	6.229	-0.012	100	1176596	150.0	153.6	
42 cis-1,2-Dichloroethene	96	6.260	6.266	-0.006	83	167300	20.0	21.2	
44 2,2-Dichloropropane	77	6.272	6.284	-0.012	88	193564	20.0	20.6	
45 Propionitrile	54	6.290	6.296	-0.006	99	344317	150.0	149.8	
46 Methacrylonitrile	67	6.515	6.521	-0.006	92	848402	150.0	154.3	
47 Chlorobromomethane	128	6.594	6.600	-0.006	95	75531	20.0	19.2	
48 Tetrahydrofuran	71	6.612	6.619	-0.007	91	213738	100.0	101.4	
49 Chloroform	83	6.740	6.746	-0.006	93	238265	20.0	19.9	
$ 50 Dibromofluoromethane (Surr)	113	6.959	6.959	0.000	94	271885	50.0	49.6	
51 1,1,1-Trichloroethane	97	6.977	6.984	-0.007	98	196788	20.0	19.8	
52 Cyclohexane	56	7.087	7.093	-0.006	90	265106	20.0	20.5	
53 1,1-Dichloropropene	75	7.190	7.197	-0.007	97	202160	20.0	20.2	
54 Carbon tetrachloride	117	7.196	7.203	-0.007	97	167094	20.0	20.2	
55 Isobutyl alcohol	41	7.300	7.306	-0.006	96	319422	500.0	474.7	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.415	7.422	-0.007	98	75617	50.0	50.1	
57 Benzene	78	7.452	7.458	-0.006	96	614187	20.0	19.8	
59 1,2-Dichloroethane	62	7.519	7.525	-0.006	97	199470	20.0	19.7	
60 Tert-amyl methyl ether	73	7.640	7.647	-0.007	97	431029	20.0	20.0	
* 62 Fluorobenzene (IS)	96	7.853	7.860	-0.007	98	1220222	50.0	50.0	
63 n-Heptane	43	7.866	7.878	-0.012	93	250328	20.0	20.0	
64 n-Butanol	56	8.182	8.182	0.000	88	573099	1000.0	961.8	
65 Trichloroethene	95	8.340	8.340	0.000	98	150572	20.0	19.9	
66 Methylcyclohexane	83	8.656	8.657	-0.001	95	276665	20.0	20.9	
67 1,2-Dichloropropane	63	8.669	8.669	0.000	73	165116	20.0	20.6	
34 2-ethoxy-2-methyl butane	87	8.669	8.675	-0.006	92	219981	20.0	20.4	
68 Methyl methacrylate	69	8.736	8.736	0.000	91	166011	20.0	20.5	M
69 1,4-Dioxane	88	8.754	8.754	0.000	92	64109	500.0	499.2	M
70 Dibromomethane	93	8.778	8.784	-0.006	97	99553	20.0	20.2	
72 Dichlorobromomethane	83	9.009	9.009	0.000	100	176329	20.0	19.9	
73 2-Nitropropane	41	9.253	9.253	0.000	98	60376	20.0	18.4	
74 2-Chloroethyl vinyl ether	63	9.356	9.356	0.000	91	128729	20.0	20.7	
75 cis-1,3-Dichloropropene	75	9.545	9.545	0.000	96	244646	20.0	19.9	
76 4-Methyl-2-pentanone (MIBK)	43	9.697	9.697	0.000	96	1439286	100.0	102.3	
$ 77 Toluene-d8 (Surr)	98	9.849	9.855	-0.006	93	1207127	50.0	49.7	
78 Toluene	92	9.928	9.928	0.000	98	387951	20.0	19.9	
80 trans-1,3-Dichloropropene	75	10.171	10.171	0.000	92	224068	20.0	19.7	
81 Ethyl methacrylate	69	10.226	10.232	-0.006	90	259288	20.0	20.5	
82 1,1,2-Trichloroethane	97	10.378	10.378	0.000	90	154549	20.0	20.7	
83 Tetrachloroethene	166	10.475	10.476	-0.001	97	185835	20.0	20.1	
84 1,3-Dichloropropane	76	10.536	10.536	0.000	90	262188	20.0	19.9	
86 2-Hexanone	43	10.573	10.579	-0.006	97	1169365	100.0	103.8	
88 Chlorodibromomethane	129	10.755	10.762	-0.007	90	146413	20.0	20.0	
89 Ethylene Dibromide	107	10.871	10.871	0.000	98	161234	20.0	20.0	
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	86	896783	50.0	50.0	
92 1-Chlorohexane	91	11.297	11.297	0.000	98	204422	20.0	19.5	
93 Chlorobenzene	112	11.321	11.321	0.000	95	433840	20.0	20.0	
94 1,1,1,2-Tetrachloroethane	131	11.400	11.400	0.000	95	137224	20.0	19.8	
95 Ethylbenzene	91	11.406	11.406	0.000	98	732118	20.0	20.2	
96 m-Xylene & p-Xylene	106	11.522	11.522	0.000	100	586808	40.0	41.3	
97 o-Xylene	106	11.844	11.844	0.000	96	283245	20.0	20.6	
98 Styrene	104	11.862	11.863	-0.001	95	470060	20.0	20.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 Bromoform	173	12.027	12.027	0.000	97	105032	20.0	19.1	
100 Isopropylbenzene	105	12.142	12.143	0.000	96	726301	20.0	20.7	
102 Cyclohexanone	55	12.215	12.216	-0.001	91	235401	500.0	397.7	
$ 103 4-Bromofluorobenzene (Surr)	95	12.288	12.295	-0.007	89	446996	50.0	49.0	
104 1,1,2,2-Tetrachloroethane	83	12.380	12.380	0.000	92	259760	20.0	20.3	
106 trans-1,4-Dichloro-2-butene	53	12.404	12.404	0.000	90	448000	100.0	102.7	
105 Bromobenzene	156	12.410	12.410	0.000	72	186763	20.0	20.4	
107 1,2,3-Trichloropropane	110	12.428	12.428	0.000	81	81016	20.0	20.3	
108 N-Propylbenzene	91	12.471	12.471	0.000	99	889175	20.0	20.9	
109 2-Chlorotoluene	126	12.550	12.550	0.000	97	176267	20.0	20.0	
110 1,3,5-Trimethylbenzene	105	12.605	12.605	0.000	94	630882	20.0	20.6	
111 4-Chlorotoluene	126	12.641	12.641	0.000	97	186479	20.0	20.4	
113 tert-Butylbenzene	134	12.848	12.848	0.000	93	132252	20.0	20.7	
114 Pentachloroethane	167	12.885	12.885	0.000	90	85456	20.0	20.9	
115 1,2,4-Trimethylbenzene	105	12.891	12.891	0.000	97	650973	20.0	20.7	
116 sec-Butylbenzene	105	13.012	13.012	0.000	94	826926	20.0	21.2	
117 1,3-Dichlorobenzene	146	13.116	13.116	0.000	97	360283	20.0	20.3	
118 4-Isopropyltoluene	119	13.122	13.122	0.000	97	712574	20.0	21.5	
* 119 1,4-Dichlorobenzene-d4	152	13.170	13.171	-0.001	95	483606	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.189	13.189	0.000	94	372829	20.0	20.3	
120 1,2,3-Trimethylbenzene	105	13.195	13.195	0.000	98	685653	20.0	21.8	
122 Benzyl chloride	91	13.262	13.262	0.000	98	508685	20.0	20.2	
123 1,3-Diethylbenzene	119	13.323	13.323	0.000	95	423278	20.0	21.2	
124 p-Diethylbenzene	119	13.396	13.396	0.000	94	450897	20.0	21.5	
125 n-Butylbenzene	92	13.414	13.414	0.000	97	364302	20.0	20.6	
126 1,2-Dichlorobenzene	146	13.450	13.450	0.000	98	353852	20.0	20.3	
127 o-diethylbenzene	119	13.462	13.463	-0.001	95	355302	20.0	21.2	
129 1,2-Dibromo-3-Chloropropane	75	13.992	13.986	0.006	85	61814	20.0	19.6	
130 1,3,5-Trichlorobenzene	180	14.120	14.120	0.000	98	274475	20.0	20.0	
131 1,2,4-Trichlorobenzene	180	14.545	14.546	-0.001	94	257276	20.0	20.1	
132 Hexachlorobutadiene	225	14.624	14.625	-0.001	97	118041	20.0	20.0	
133 Naphthalene	128	14.722	14.722	0.000	97	887264	20.0	20.7	
134 1,2,3-Trichlorobenzene	180	14.868	14.868	0.000	96	248625	20.0	20.0	
135 2-Methylnaphthalene	142	15.513	15.513	0.000	93	476718	20.0	19.7	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_QCYC_00004	Amount Added:	50.00	Units: uL	
MSV_Q_EE_00002	Amount Added:	50.00	Units: uL	
MSV_Q_QVOA1_00047	Amount Added:	50.00	Units: uL	
MSV_Q_QARC_00046	Amount Added:	50.00	Units: uL	
MSV_Q_QVOA6_00044	Amount Added:	50.00	Units: uL	
MSV_Q_QGases_00088	Amount Added:	50.00	Units: uL	
MSV_Q_QDCFM_00004	Amount Added:	50.00	Units: uL	
MSV_HP20_ISSS_00025	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 21-Sep-2020 18:09:41 Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21v01.D

Injection Date: 21-Sep-2020 17:00:30 Instrument ID: 9355 Operator ID: kas02648

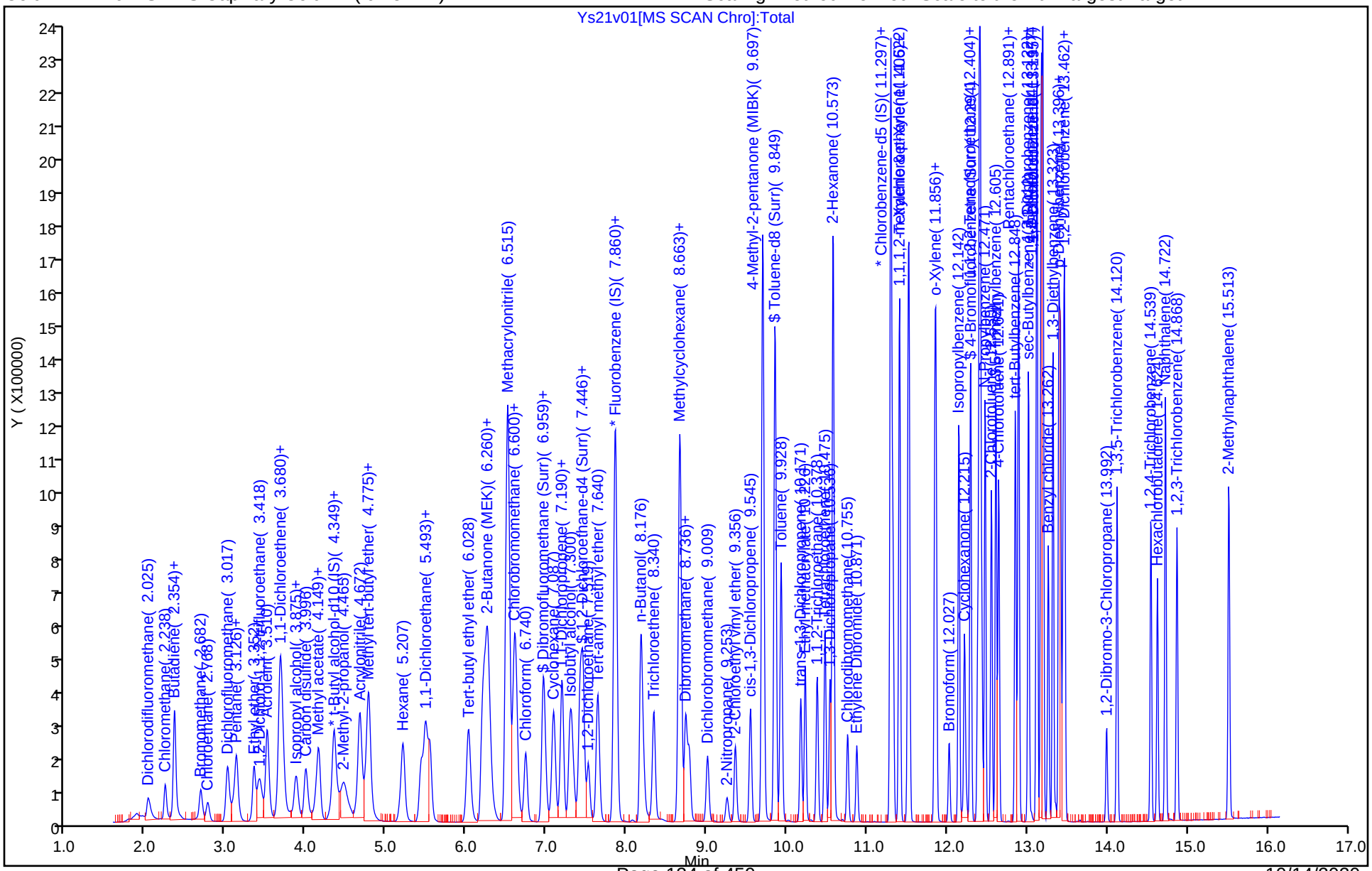
Lims ID: ICV Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 11

Method: MSVoa_9355 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

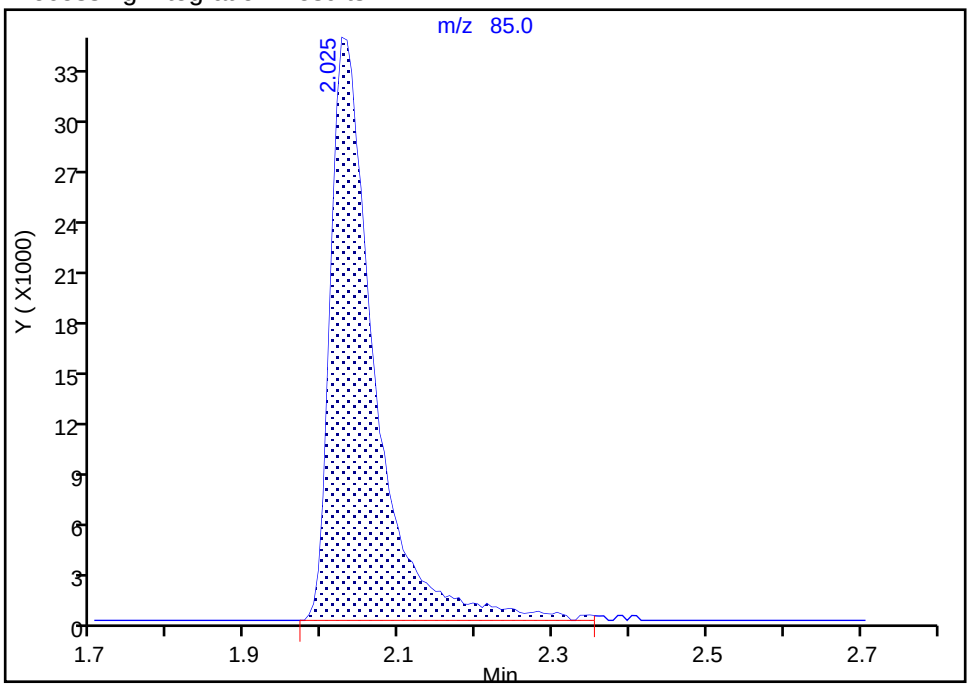
Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21v01.D
Injection Date: 21-Sep-2020 17:00:30 Instrument ID: 9355
Lims ID: ICV
Client ID:
Operator ID: kas02648 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

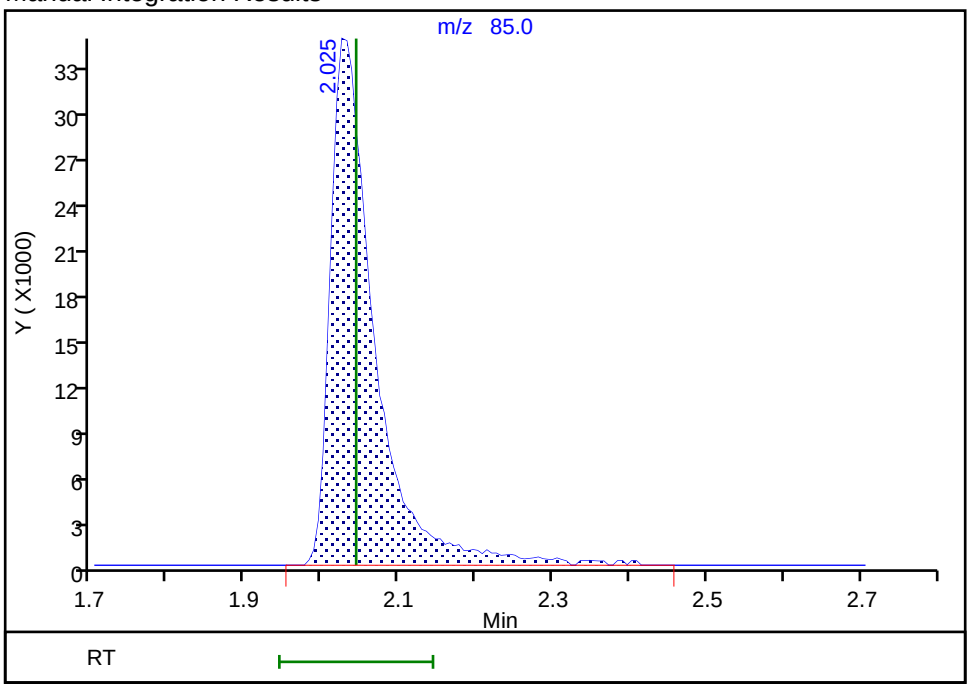
Processing Integration Results

RT: 2.03
Area: 135829
Amount: 16.406500
Amount Units: ug/l



Manual Integration Results

RT: 2.03
Area: 136445
Amount: 16.480906
Amount Units: ug/l



Reviewer: campbellme, 21-Sep-2020 17:40:34
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

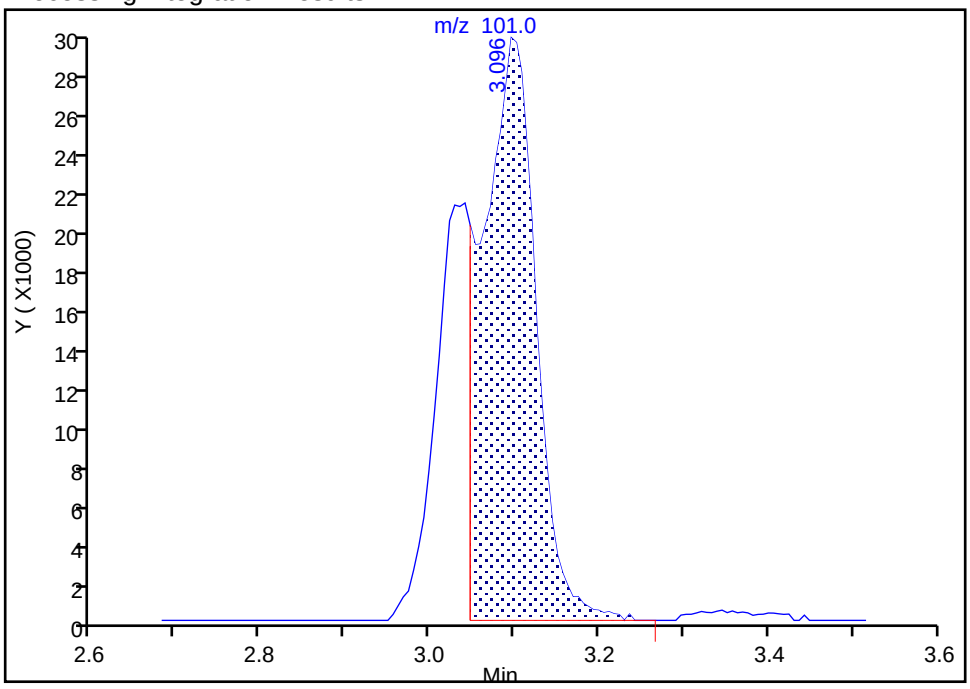
Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21v01.D
Injection Date: 21-Sep-2020 17:00:30 Instrument ID: 9355
Lims ID: ICV
Client ID:
Operator ID: kas02648 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

11 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

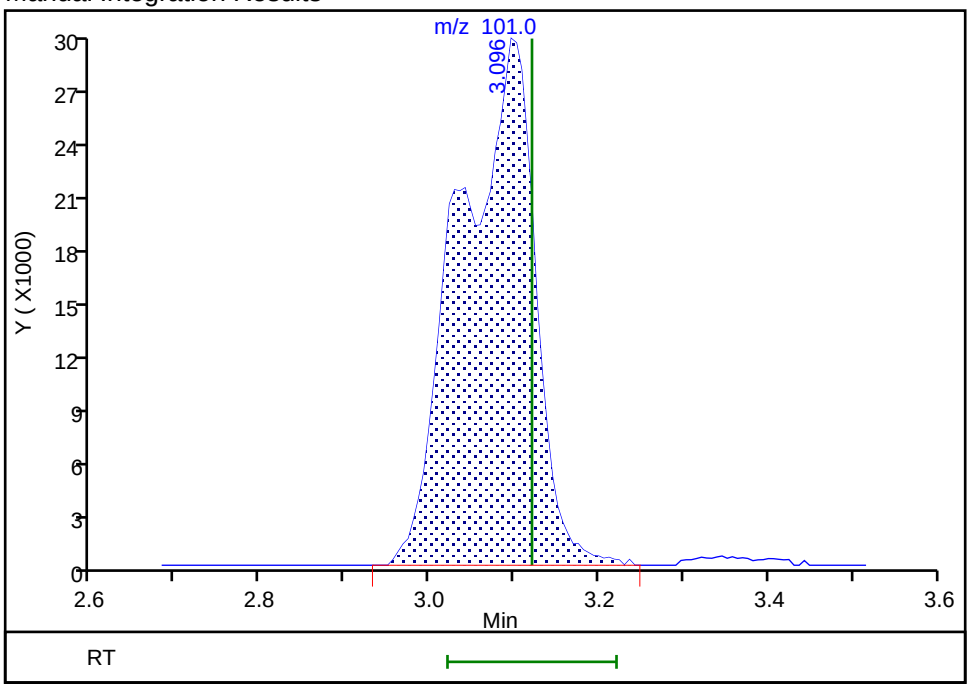
Processing Integration Results

RT: 3.10
Area: 128496
Amount: 12.981181
Amount Units: ug/l



Manual Integration Results

RT: 3.10
Area: 181286
Amount: 18.314239
Amount Units: ug/l



Reviewer: campbellme, 21-Sep-2020 17:40:43
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

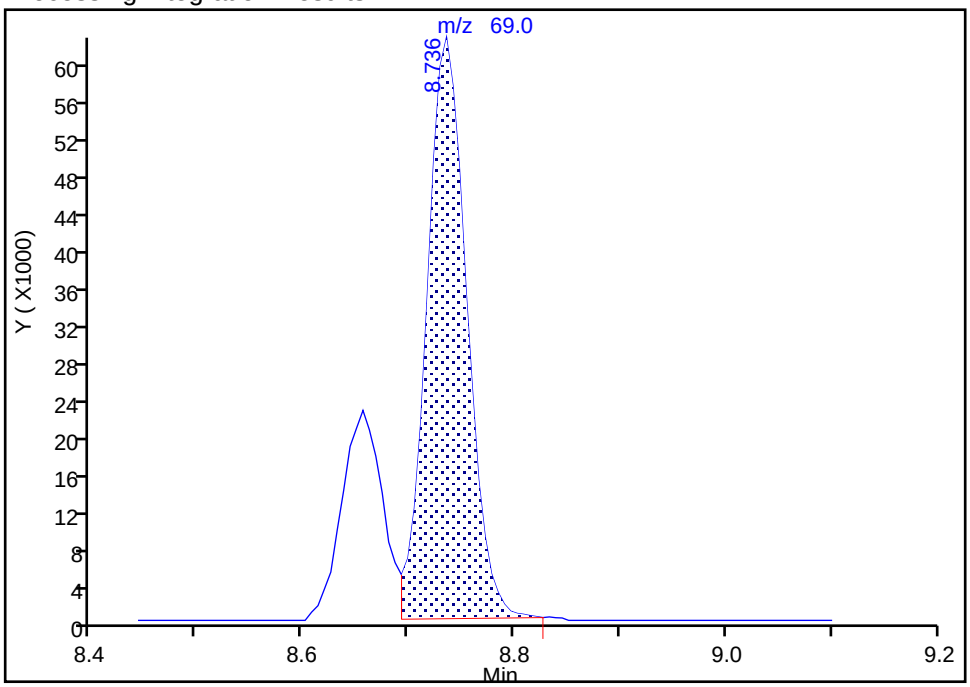
Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21v01.D
Injection Date: 21-Sep-2020 17:00:30 Instrument ID: 9355
Lims ID: ICV
Client ID:
Operator ID: kas02648 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

68 Methyl methacrylate, CAS: 80-62-6

Signal: 1

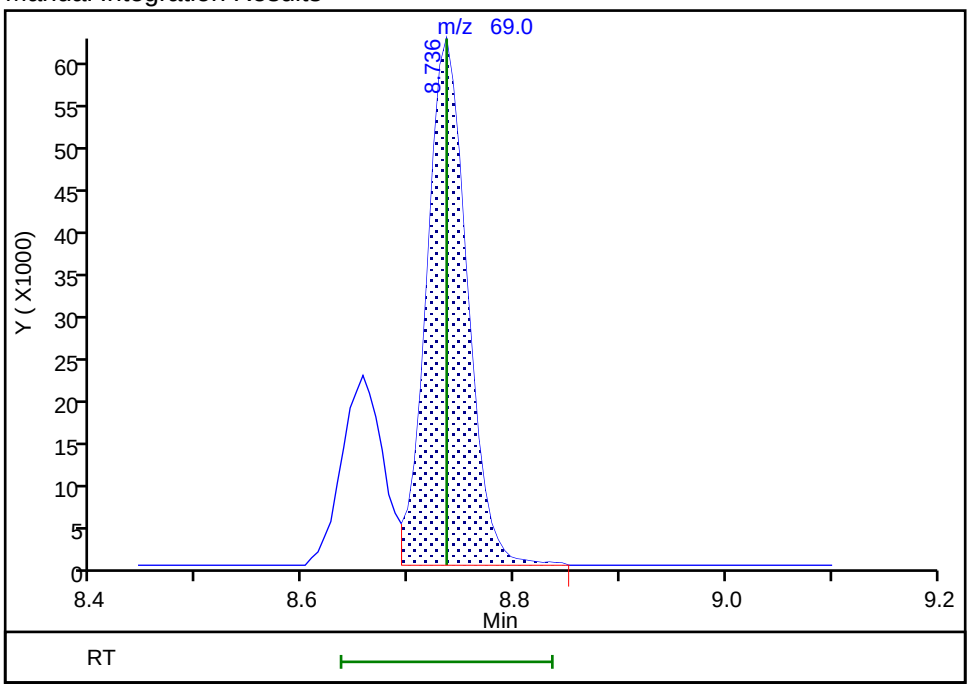
Processing Integration Results

RT: 8.74
Area: 163915
Amount: 20.277743
Amount Units: ug/l



Manual Integration Results

RT: 8.74
Area: 166011
Amount: 20.537037
Amount Units: ug/l



Reviewer: campbellme, 21-Sep-2020 17:41:10
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

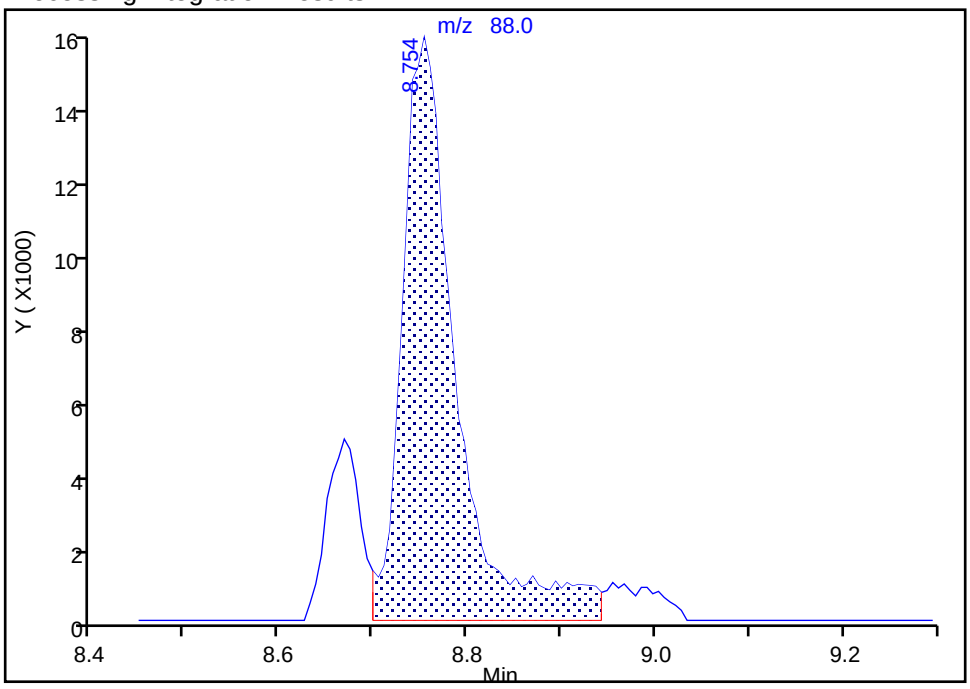
Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21v01.D
Injection Date: 21-Sep-2020 17:00:30 Instrument ID: 9355
Lims ID: ICV
Client ID:
Operator ID: kas02648 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

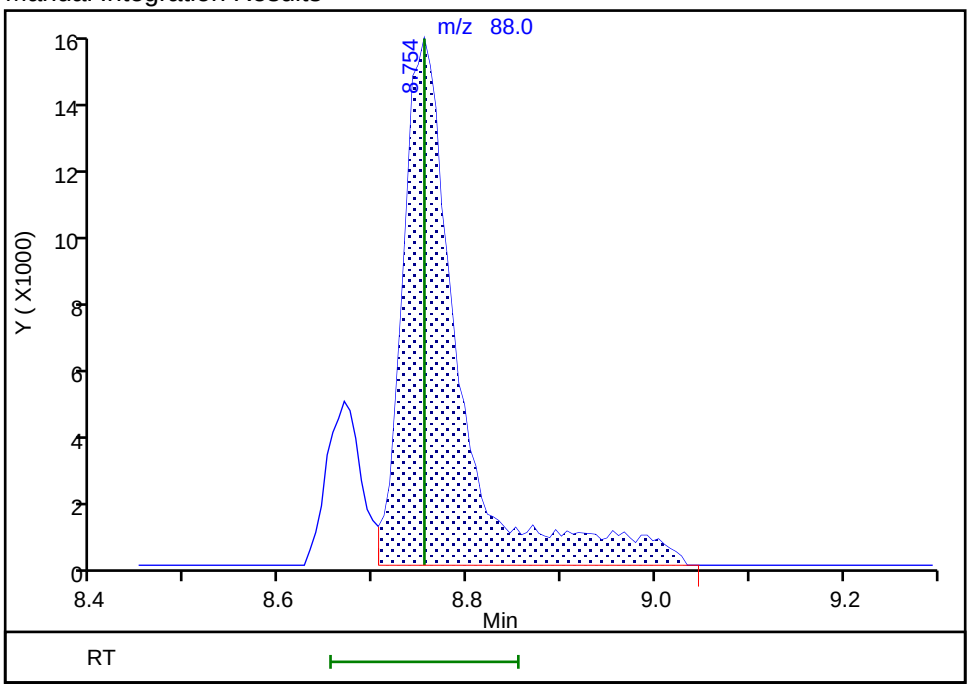
Processing Integration Results

RT: 8.75
Area: 60943
Amount: 474.5052
Amount Units: ug/l



Manual Integration Results

RT: 8.75
Area: 64109
Amount: 499.1558
Amount Units: ug/l



Reviewer: campbellme, 21-Sep-2020 17:41:23
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1

SDG No.:

Lab Sample ID: CCVIS 410-51457/3 Calibration Date: 10/06/2020 18:39

Instrument ID: 9355 Calib Start Date: 09/21/2020 14:04

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 09/21/2020 16:16

Lab File ID: YC06C01.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	0.3392	0.3085	0.1000	45.5	50.0	-9.1	20.0
Chloromethane	Ave	0.3519	0.3224	0.1000	45.8	50.0	-8.4	20.0
1,3-Butadiene	Ave	0.2475	0.3213		64.9	50.0	29.8*	20.0
Vinyl chloride	Ave	0.3269	0.2929	0.1000	44.8	50.0	-10.4	20.0
Bromomethane	Ave	0.2283	0.2123	0.1000	46.5	50.0	-7.0	20.0
Chloroethane	Ave	0.2021	0.1991	0.1000	49.3	50.0	-1.5	20.0
Trichlorofluoromethane	Ave	0.4056	0.4048	0.1000	49.9	50.0	-0.2	20.0
n-Pentane	Ave	0.3994	0.4275		53.5	50.0	7.1	20.0
Ethyl ether	Ave	0.3028	0.2645		43.7	50.0	-12.6	20.0
Freon 123a	Ave	0.3309	0.3141		47.5	50.0	-5.1	20.0
Acrolein	Ave	2.046	2.026		496	501	-1.0	20.0
1,1-Dichloroethene	Ave	0.2391	0.2373	0.1000	49.6	50.0	-0.8	20.0
Acetone	Ave	1.060	1.046	0.1000	98.7	100	-1.3	20.0
Freon 113	Ave	0.2468	0.2324	0.1000	47.1	50.0	-5.8	20.0
2-Propanol	Ave	0.7615	0.8511		279	250	11.8	20.0
Methyl iodide	Ave	0.4309	0.4235		49.1	50.0	-1.7	20.0
Carbon disulfide	Ave	0.8426	0.8179	0.1000	48.5	50.0	-2.9	20.0
Methyl acetate	Ave	0.4276	0.4793	0.1000	56.0	50.0	12.1	20.0
Allyl chloride	Ave	0.4513	0.4591		50.9	50.0	1.7	20.0
Methylene Chloride	Ave	0.3034	0.2950	0.1000	48.6	50.0	-2.8	20.0
t-Butyl alcohol	Ave	1.352	1.446		267	250	6.9	20.0
Acrylonitrile	Ave	0.2326	0.2589		55.7	50.0	11.3	20.0
Methyl tertiary butyl ether	Ave	0.9292	0.9510	0.1000	51.2	50.0	2.3	20.0
trans-1,2-Dichloroethene	Ave	0.2838	0.2882	0.1000	50.8	50.0	1.5	20.0
n-Hexane	Ave	0.4476	0.4642		51.8	50.0	3.7	20.0
1,1-Dichloroethane	Ave	0.5235	0.5298	0.2000	50.6	50.0	1.2	20.0
di-Isopropyl ether	Ave	0.9769	1.006		51.5	50.0	3.0	20.0
2-Chloro-1,3-butadiene	Ave	0.4276	0.4681		54.7	50.0	9.5	20.0
Ethyl t-butyl ether	Ave	0.8995	0.9264		51.5	50.0	3.0	20.0
2-Butanone	Ave	0.3140	0.3593	0.1000	114	100	14.4	20.0
cis-1,2-Dichloroethene	Ave	0.3229	0.3261	0.1000	50.5	50.0	1.0	20.0
2,2-Dichloropropane	Ave	0.3859	0.3891		50.4	50.0	0.8	20.0
Propionitrile	Ave	1.532	1.584		259	250	3.4	20.0
Methacrylonitrile	Ave	0.2253	0.2489		138	125	10.4	20.0
Bromochloromethane	Ave	0.1611	0.1684		52.2	50.0	4.5	20.0
Tetrahydrofuran	Ave	1.404	1.401		99.8	100	-0.2	20.0
Chloroform	Ave	0.4916	0.5093	0.2000	51.8	50.0	3.6	20.0
1,1,1-Trichloroethane	Ave	0.4081	0.4074	0.1000	49.9	50.0	-0.2	20.0
Cyclohexane	Ave	0.5289	0.5076	0.1000	48.0	50.0	-4.0	20.0
1,1-Dichloropropene	Ave	0.4097	0.4213		51.4	50.0	2.8	20.0
Carbon tetrachloride	Ave	0.3383	0.3455	0.1000	51.1	50.0	2.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1

SDG No.:

Lab Sample ID: CCVIS 410-51457/3 Calibration Date: 10/06/2020 18:39

Instrument ID: 9355 Calib Start Date: 09/21/2020 14:04

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 09/21/2020 16:16

Lab File ID: YC06C01.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
Isobutyl alcohol	Ave	0.4484	0.5081		708	625	13.3	20.0
Benzene	Ave	1.269	1.278	0.5000	50.3	50.0	0.7	20.0
1,2-Dichloroethane	Ave	0.4150	0.4436	0.1000	53.5	50.0	6.9	20.0
t-Amyl methyl ether	Ave	0.8838	0.9197		52.0	50.0	4.1	20.0
n-Heptane	Ave	0.5134	0.5283		51.5	50.0	2.9	20.0
n-Butanol	Ave	0.3971	0.4567		1440	1250	15.0	20.0
Trichloroethene	Ave	0.3108	0.3152	0.2000	50.7	50.0	1.4	20.0
Methylcyclohexane	Ave	0.5437	0.5318	0.1000	48.9	50.0	-2.2	20.0
1,2-Dichloropropane	Ave	0.3282	0.3390	0.1000	51.6	50.0	3.3	20.0
t-Amyl ethyl ether	Ave	0.4418	0.4726		53.5	50.0	7.0	20.0
Methyl methacrylate	Ave	0.3312	0.3798		57.3	50.0	14.6	20.0
1,4-Dioxane	Ave	0.0856	0.1128	0.0050	824	625	31.8*	20.0
Dibromomethane	Ave	0.2015	0.2126		52.8	50.0	5.5	20.0
Bromodichloromethane	Ave	0.3630	0.3930	0.2000	54.1	50.0	8.3	20.0
2-Nitropropane	Ave	2.189	2.539		116	100	16.0	20.0
2-Chloroethyl vinyl ether	Ave	0.2551	0.2937		57.6	50.0	15.1	20.0
cis-1,3-Dichloropropene	Ave	0.5025	0.5498	0.2000	54.7	50.0	9.4	20.0
4-Methyl-2-pentanone	Ave	0.5767	0.6711	0.1000	116	100	16.4	20.0
Toluene	Ave	1.086	1.075	0.4000	49.5	50.0	-1.0	20.0
trans-1,3-Dichloropropene	Ave	0.6339	0.6940	0.1000	54.7	50.0	9.5	20.0
Ethyl methacrylate	Ave	0.7038	0.7974		56.7	50.0	13.3	20.0
1,1,2-Trichloroethane	Ave	0.4171	0.4296	0.1000	51.5	50.0	3.0	20.0
Tetrachloroethene	Ave	0.5158	0.4666	0.2000	45.2	50.0	-9.5	20.0
1,3-Dichloropropane	Ave	0.7334	0.7607		51.9	50.0	3.7	20.0
2-Hexanone	Ave	0.6281	0.7496	0.1000	119	100	19.3	20.0
Dibromochloromethane	Ave	0.4084	0.4387		53.7	50.0	7.4	20.0
1,2-Dibromoethane	Ave	0.4486	0.4762	0.1000	53.1	50.0	6.1	20.0
1-Chlorohexane	Ave	0.5859	0.5795		49.5	50.0	-1.1	20.0
Chlorobenzene	Ave	1.211	1.211	0.5000	50.0	50.0	0.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3862	0.3852		49.9	50.0	-0.3	20.0
Ethylbenzene	Ave	2.023	2.057	0.1000	50.8	50.0	1.6	20.0
m&p-Xylene	Ave	0.7921	0.8050	0.1000	102	100	1.6	20.0
o-Xylene	Ave	0.7667	0.7720	0.3000	50.3	50.0	0.7	20.0
Styrene	Ave	1.256	1.363	0.3000	54.3	50.0	8.5	20.0
Bromoform	Ave	0.3061	0.3375	0.1000	55.1	50.0	10.3	20.0
Isopropylbenzene	Ave	1.958	1.967	0.1000	50.2	50.0	0.5	20.0
Cyclohexanone	Ave	0.3944	0.3988		632	625	1.1	20.0
1,1,2,2-Tetrachloroethane	Ave	1.325	1.406	0.3000	53.0	50.0	6.1	20.0
trans-1,4-Dichloro-2-butene	Ave	0.4511	0.4301		119	125	-4.7	20.0
Bromobenzene	Ave	0.9479	0.9892		52.2	50.0	4.4	20.0
1,2,3-Trichloropropane	Ave	0.4123	0.4413		53.5	50.0	7.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1

SDG No.:

Lab Sample ID: CCVIS 410-51457/3 Calibration Date: 10/06/2020 18:39

Instrument ID: 9355 Calib Start Date: 09/21/2020 14:04

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 09/21/2020 16:16

Lab File ID: YC06C01.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
N-Propylbenzene	Ave	4.402	4.540		51.6	50.0	3.1	20.0
2-Chlorotoluene	Ave	0.9123	0.9087		49.8	50.0	-0.4	20.0
1,3,5-Trimethylbenzene	Ave	3.167	3.238		51.1	50.0	2.2	20.0
4-Chlorotoluene	Ave	0.9469	0.9809		51.8	50.0	3.6	20.0
tert-Butylbenzene	Ave	0.6620	0.6808		51.4	50.0	2.8	20.0
Pentachloroethane	Ave	0.4224	0.5054		59.8	50.0	19.7	20.0
1,2,4-Trimethylbenzene	Ave	3.255	3.383		52.0	50.0	3.9	20.0
sec-Butylbenzene	Ave	4.040	4.137		51.2	50.0	2.4	20.0
1,3-Dichlorobenzene	Ave	1.835	1.879	0.6000	51.2	50.0	2.4	20.0
p-Isopropyltoluene	Ave	3.427	3.556		51.9	50.0	3.8	20.0
1,4-Dichlorobenzene	Ave	1.895	1.929	0.5000	50.9	50.0	1.8	20.0
1,2,3-Trimethylbenzene	Ave	3.247	3.334		51.3	50.0	2.7	20.0
Benzyl chloride	Ave	2.605	2.985		57.3	50.0	14.6	20.0
1,3-Diethylbenzene	Ave	2.063	2.154		52.2	50.0	4.4	20.0
1,4-Diethylbenzene	Ave	2.166	2.279		52.6	50.0	5.2	20.0
n-Butylbenzene	Ave	1.830	1.863		50.9	50.0	1.8	20.0
1,2-Dichlorobenzene	Ave	1.801	1.799	0.4000	49.9	50.0	-0.1	20.0
1,2-Diethylbenzene	Ave	1.729	1.779		51.4	50.0	2.9	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.3263	0.3670	0.0500	56.2	50.0	12.5	20.0
1,3,5-Trichlorobenzene	Ave	1.416	1.352		47.7	50.0	-4.5	20.0
1,2,4-Trichlorobenzene	Ave	1.320	1.228	0.2000	46.5	50.0	-7.0	20.0
Hexachlorobutadiene	Ave	0.6100	0.5690		46.6	50.0	-6.7	20.0
Naphthalene	Ave	4.431	4.505		50.8	50.0	1.7	20.0
1,2,3-Trichlorobenzene	Ave	1.286	1.208		47.0	50.0	-6.1	20.0
2-Methylnaphthalene	Ave	2.499	2.726		54.5	50.0	9.1	20.0
Dibromofluoromethane (Surr)	Ave	0.2248	0.2243		49.9	50.0	-0.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0618	0.0615		49.8	50.0	-0.5	20.0
Toluene-d8 (Surr)	Ave	1.355	1.310		48.3	50.0	-3.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5083	0.4957		48.8	50.0	-2.5	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06C01.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 06-Oct-2020 18:39:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0012206-003
Misc. Info.: CCVIS
Operator ID: ljg30941 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub10

Method: \\chromfs\Lancaster\ChromData\9355\20201006-12206.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 07-Oct-2020 01:12:02 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1010

First Level Reviewer: greenl Date: 06-Oct-2020 19:37:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.044	2.044	0.000	99	416613	50.0	45.5	
4 Chloromethane	50	2.250	2.250	0.000	99	435321	50.0	45.8	
5 Butadiene	39	2.372	2.372	0.000	91	433936	50.0	64.9	
6 Vinyl chloride	62	2.372	2.372	0.000	94	395536	50.0	44.8	
8 Bromomethane	94	2.707	2.707	0.000	90	286698	50.0	46.5	
9 Chloroethane	64	2.798	2.798	0.000	100	268889	50.0	49.3	
11 Trichlorofluoromethane	101	3.114	3.114	0.000	99	546663	50.0	49.9	
12 Pentane	43	3.145	3.145	0.000	96	577328	50.0	53.5	
14 Ethyl ether	59	3.364	3.364	0.000	92	357185	50.0	43.7	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.443	3.443	0.000	93	424200	50.0	47.5	
16 Acrolein	56	3.528	3.528	0.000	99	1887183	500.9	496.1	a
17 1,1-Dichloroethene	96	3.686	3.686	0.000	97	320419	50.0	49.6	
18 Acetone	58	3.698	3.698	0.000	100	194454	100.0	98.7	
19 112TCTFE	101	3.723	3.723	0.000	94	313838	50.0	47.1	
20 Isopropyl alcohol	45	3.869	3.869	0.000	99	395686	250.0	279.4	
21 Iodomethane	142	3.899	3.899	0.000	97	571902	50.0	49.1	
22 Carbon disulfide	76	4.015	4.015	0.000	99	1104485	50.0	48.5	
24 Methyl acetate	43	4.136	4.136	0.000	98	647216	50.0	56.0	
25 3-Chloro-1-propene	41	4.173	4.173	0.000	93	619977	50.0	50.9	
* 26 t-Butyl alcohol-d10 (IS)	65	4.361	4.361	0.000	96	464903	250.0	250.0	
27 Methylene Chloride	84	4.361	4.361	0.000	93	398333	50.0	48.6	
28 2-Methyl-2-propanol	59	4.483	4.483	0.000	98	672081	250.0	267.3	
30 Acrylonitrile	53	4.678	4.678	0.000	99	349632	50.0	55.7	
31 Methyl tert-butyl ether	73	4.781	4.781	0.000	96	1284272	50.0	51.2	
32 trans-1,2-Dichloroethene	96	4.799	4.799	0.000	98	389179	50.0	50.8	
33 Hexane	57	5.219	5.219	0.000	93	626800	50.0	51.8	
36 1,1-Dichloroethane	63	5.444	5.444	0.000	96	715417	50.0	50.6	
37 Isopropyl ether	45	5.499	5.499	0.000	94	1359031	50.0	51.5	
38 2-Chloro-1,3-butadiene	53	5.554	5.554	0.000	91	632100	50.0	54.7	
39 Tert-butyl ethyl ether	59	6.034	6.034	0.000	97	1251001	50.0	51.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43	6.223	6.223	0.000	100	970424	100.0	114.4	
42 cis-1,2-Dichloroethene	96	6.266	6.266	0.000	83	440393	50.0	50.5	
44 2,2-Dichloropropane	77	6.284	6.284	0.000	89	525411	50.0	50.4	
45 Propionitrile	54	6.296	6.296	0.000	99	736512	250.0	258.5	
46 Methacrylonitrile	67	6.521	6.521	0.000	92	840231	125.0	138.1	
47 Chlorobromomethane	128	6.606	6.606	0.000	96	227360	50.0	52.2	
48 Tetrahydrofuran	71	6.618	6.618	0.000	91	260545	100.0	99.8	
49 Chloroform	83	6.746	6.746	0.000	93	687816	50.0	51.8	
$ 50 Dibromofluoromethane (Surr)	113	6.959	6.959	0.000	94	302839	50.0	49.9	
51 1,1,1-Trichloroethane	97	6.983	6.983	0.000	99	550121	50.0	49.9	
52 Cyclohexane	56	7.099	7.099	0.000	91	685500	50.0	48.0	
53 1,1-Dichloropropene	75	7.196	7.196	0.000	97	568910	50.0	51.4	
54 Carbon tetrachloride	117	7.202	7.202	0.000	97	466538	50.0	51.1	
55 Isobutyl alcohol	41	7.306	7.306	0.000	96	590593	625.0	708.2	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.422	7.422	0.000	98	83063	50.0	49.8	
57 Benzene	78	7.458	7.458	0.000	97	1725393	50.0	50.3	
59 1,2-Dichloroethane	62	7.525	7.525	0.000	97	599048	50.0	53.5	
60 Tert-amyl methyl ether	73	7.647	7.647	0.000	98	1241929	50.0	52.0	
* 62 Fluorobenzene (IS)	96	7.860	7.860	0.000	99	1350415	50.0	50.0	
63 n-Heptane	43	7.872	7.872	0.000	93	713482	50.0	51.5	
64 n-Butanol	56	8.182	8.182	0.000	89	1061593	1250.0	1437.5	
65 Trichloroethene	95	8.340	8.340	0.000	99	425700	50.0	50.7	
66 Methylcyclohexane	83	8.663	8.663	0.000	94	718210	50.0	48.9	
67 1,2-Dichloropropane	63	8.669	8.669	0.000	72	457751	50.0	51.6	
34 2-ethoxy-2-methyl butane	87	8.675	8.675	0.000	94	638209	50.0	53.5	
68 Methyl methacrylate	69	8.736	8.736	0.000	92	512822	50.0	57.3	
69 1,4-Dioxane	88	8.754	8.754	0.000	92	131152	625.0	823.9	M
70 Dibromomethane	93	8.784	8.784	0.000	97	287131	50.0	52.8	
72 Dichlorobromomethane	83	9.009	9.009	0.000	100	530759	50.0	54.1	
73 2-Nitropropane	41	9.253	9.253	0.000	98	472129	100.0	116.0	
74 2-Chloroethyl vinyl ether	63	9.356	9.356	0.000	92	396676	50.0	57.6	
75 cis-1,3-Dichloropropene	75	9.545	9.545	0.000	96	742433	50.0	54.7	
76 4-Methyl-2-pentanone (MIBK)	43	9.697	9.697	0.000	97	1812474	100.0	116.4	
$ 77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	93	1328416	50.0	48.3	
78 Toluene	92	9.928	9.928	0.000	98	1090422	50.0	49.5	
80 trans-1,3-Dichloropropene	75	10.171	10.171	0.000	93	703867	50.0	54.7	
81 Ethyl methacrylate	69	10.226	10.226	0.000	90	808771	50.0	56.7	
82 1,1,2-Trichloroethane	97	10.378	10.378	0.000	90	435729	50.0	51.5	
83 Tetrachloroethene	166	10.475	10.475	0.000	97	473181	50.0	45.2	
84 1,3-Dichloropropane	76	10.536	10.536	0.000	91	771524	50.0	51.9	
86 2-Hexanone	43	10.573	10.573	0.000	97	1520432	100.0	119.3	
88 Chlorodibromomethane	129	10.755	10.755	0.000	90	444972	50.0	53.7	
89 Ethylene Dibromide	107	10.871	10.871	0.000	98	482960	50.0	53.1	
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	87	1014201	50.0	50.0	
92 1-Chlorohexane	91	11.297	11.297	0.000	97	587732	50.0	49.5	
93 Chlorobenzene	112	11.321	11.321	0.000	94	1228676	50.0	50.0	
94 1,1,1,2-Tetrachloroethane	131	11.400	11.400	0.000	95	390649	50.0	49.9	
95 Ethylbenzene	91	11.406	11.406	0.000	98	2085724	50.0	50.8	
96 m-Xylene & p-Xylene	106	11.522	11.522	0.000	100	1632942	100.0	101.6	
97 o-Xylene	106	11.844	11.844	0.000	97	782977	50.0	50.3	
98 Styrene	104	11.863	11.863	0.000	94	1382731	50.0	54.3	
99 Bromoform	173	12.027	12.027	0.000	97	342341	50.0	55.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 Isopropylbenzene	105	12.142	12.142	0.000	96	1994996	50.0	50.2	
102 Cyclohexanone	55	12.215	12.215	0.000	92	463493	625.0	631.9	
$ 103 4-Bromofluorobenzene (Surr)	95	12.288	12.288	0.000	88	502753	50.0	48.8	
104 1,1,2,2-Tetrachloroethane	83	12.380	12.380	0.000	93	761645	50.0	53.0	
106 trans-1,4-Dichloro-2-butene	53	12.404	12.404	0.000	85	582632	125.0	119.2	
105 Bromobenzene	156	12.410	12.410	0.000	97	536016	50.0	52.2	
107 1,2,3-Trichloropropane	110	12.428	12.428	0.000	82	239099	50.0	53.5	
108 N-Propylbenzene	91	12.471	12.471	0.000	99	2460179	50.0	51.6	
109 2-Chlorotoluene	126	12.550	12.550	0.000	96	492417	50.0	49.8	
110 1,3,5-Trimethylbenzene	105	12.605	12.605	0.000	94	1754599	50.0	51.1	
111 4-Chlorotoluene	126	12.641	12.641	0.000	98	531513	50.0	51.8	
113 tert-Butylbenzene	134	12.848	12.848	0.000	93	368896	50.0	51.4	
114 Pentachloroethane	167	12.885	12.885	0.000	90	273870	50.0	59.8	
115 1,2,4-Trimethylbenzene	105	12.891	12.891	0.000	97	1832957	50.0	52.0	
116 sec-Butylbenzene	105	13.012	13.012	0.000	94	2241742	50.0	51.2	
117 1,3-Dichlorobenzene	146	13.116	13.116	0.000	97	1018335	50.0	51.2	
118 4-Isopropyltoluene	119	13.122	13.122	0.000	97	1926929	50.0	51.9	
* 119 1,4-Dichlorobenzene-d4	152	13.170	13.170	0.000	95	541863	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.189	13.189	0.000	94	1044997	50.0	50.9	
120 1,2,3-Trimethylbenzene	105	13.195	13.195	0.000	98	1806330	50.0	51.3	
122 Benzyl chloride	91	13.262	13.262	0.000	99	1617710	50.0	57.3	
123 1,3-Diethylbenzene	119	13.323	13.323	0.000	95	1167285	50.0	52.2	
124 p-Diethylbenzene	119	13.396	13.396	0.000	95	1234872	50.0	52.6	
125 n-Butylbenzene	92	13.414	13.414	0.000	96	1009449	50.0	50.9	
126 1,2-Dichlorobenzene	146	13.450	13.450	0.000	98	974632	50.0	49.9	
127 o-diethylbenzene	119	13.462	13.462	0.000	96	963788	50.0	51.4	
129 1,2-Dibromo-3-Chloropropane	75	13.986	13.986	0.000	85	198871	50.0	56.2	
130 1,3,5-Trichlorobenzene	180	14.120	14.120	0.000	98	732405	50.0	47.7	
131 1,2,4-Trichlorobenzene	180	14.539	14.539	0.000	94	665284	50.0	46.5	
132 Hexachlorobutadiene	225	14.624	14.624	0.000	97	308306	50.0	46.6	
133 Naphthalene	128	14.722	14.722	0.000	97	2441113	50.0	50.8	
134 1,2,3-Trichlorobenzene	180	14.868	14.868	0.000	96	654473	50.0	47.0	
135 2-Methylnaphthalene	142	15.513	15.513	0.000	92	1477107	50.0	54.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_V_VOA1_00098	Amount Added:	5.00	Units: uL	
MSV_V_VOA3_00049	Amount Added:	2.00	Units: uL	
MSV_V_VOA6_00055	Amount Added:	5.00	Units: uL	
MSV_V_EE_00003	Amount Added:	5.00	Units: uL	
MSV_VCYC_00005	Amount Added:	10.00	Units: uL	
MSV_V_2CEVE_00110	Amount Added:	5.00	Units: uL	
MSV_V_Gas_00153	Amount Added:	2.50	Units: uL	
MSV_HP20_ISSS_00026	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 07-Oct-2020 01:12:03 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06C01.D

Injection Date: 06-Oct-2020 18:39:30 Instrument ID: 9355 Operator ID: ljg30941

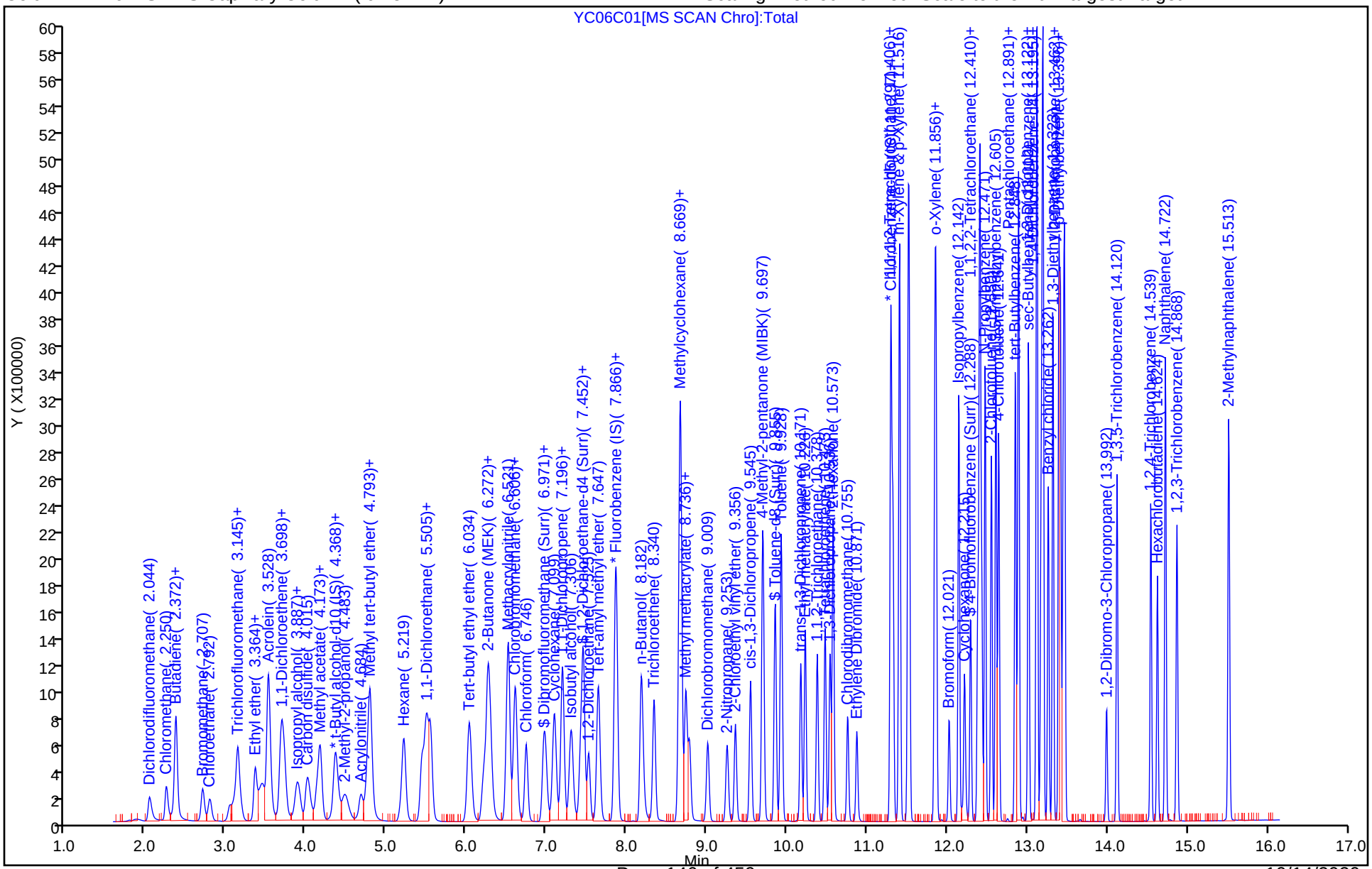
Lims ID: CCVIS Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: MSVoa_9355 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

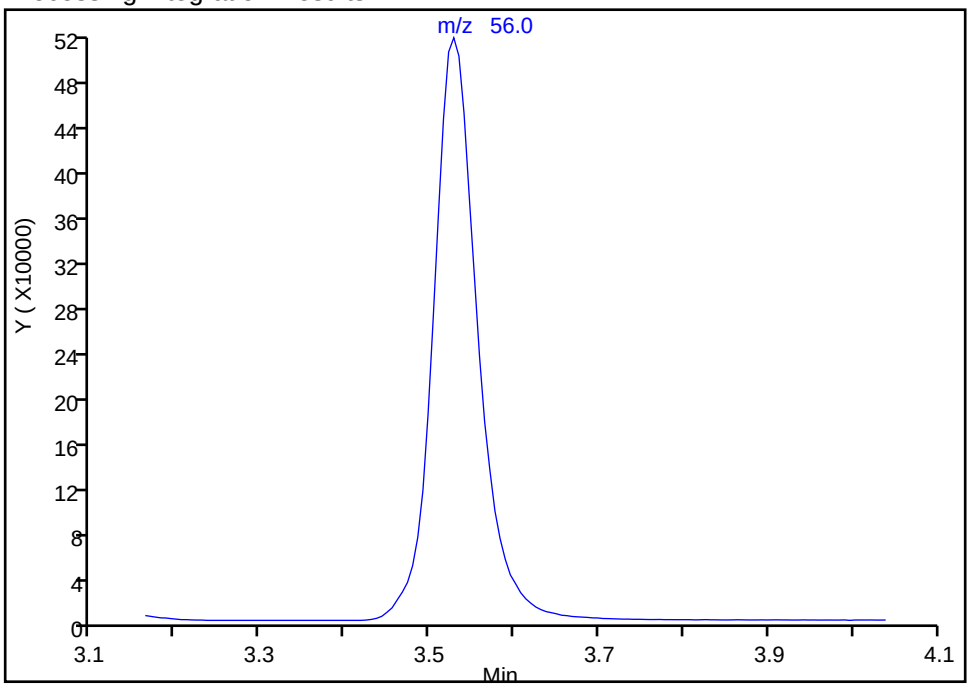
Data File: \\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06C01.D
Injection Date: 06-Oct-2020 18:39:30 Instrument ID: 9355
Lims ID: CCVIS
Client ID:
Operator ID: ljg30941 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

16 Acrolein, CAS: 107-02-8

Signal: 1

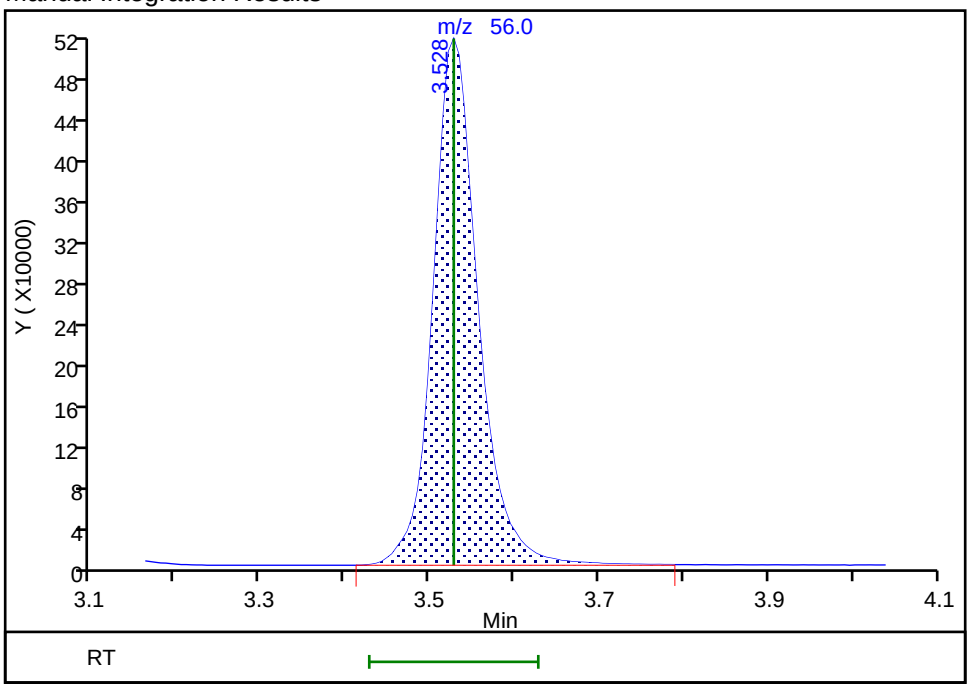
Not Detected
Expected RT: 3.53

Processing Integration Results



Manual Integration Results

RT: 3.53
Area: 1887183
Amount: 496.1132
Amount Units: ug/l



Reviewer: greenl, 06-Oct-2020 19:35:50
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

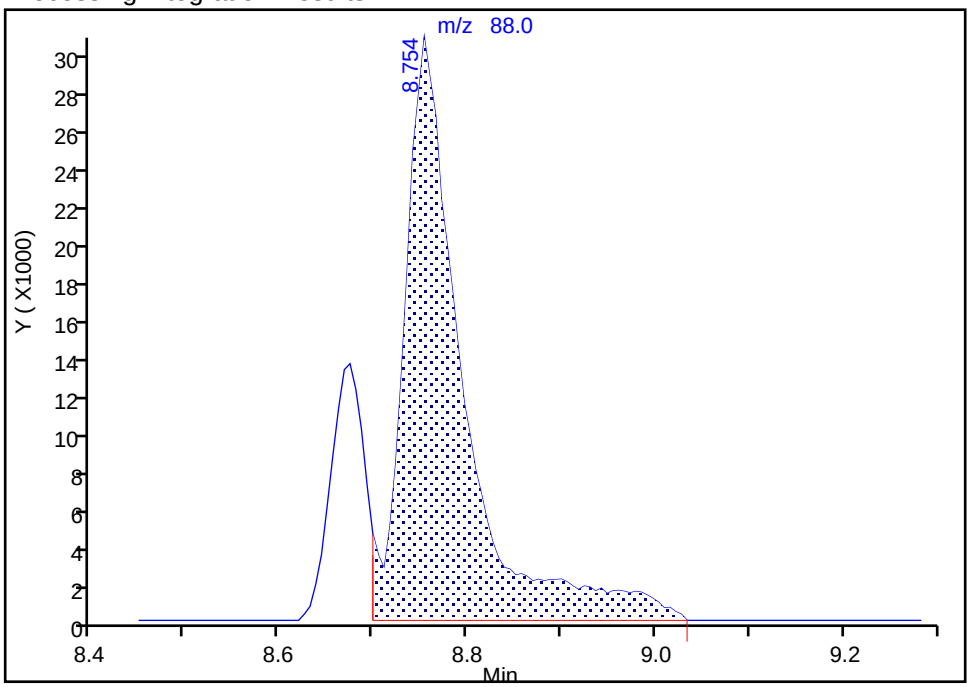
Data File: \\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06C01.D
Injection Date: 06-Oct-2020 18:39:30 Instrument ID: 9355
Lims ID: CCVIS
Client ID:
Operator ID: ljg30941 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

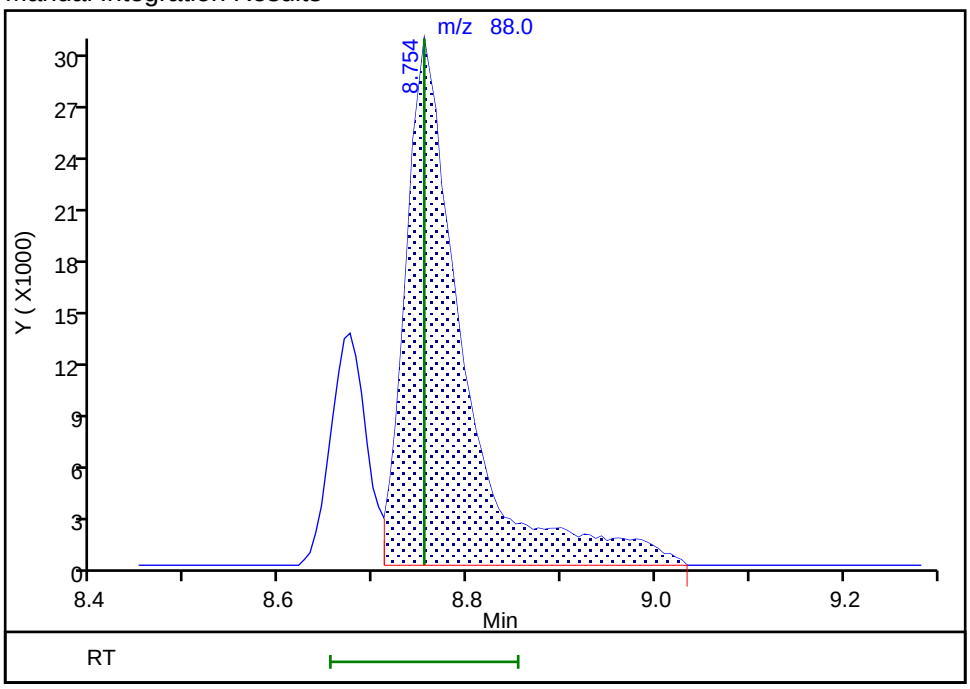
Processing Integration Results

RT: 8.75
Area: 134039
Amount: 842.0720
Amount Units: ug/l



Manual Integration Results

RT: 8.75
Area: 131152
Amount: 823.9351
Amount Units: ug/l



Reviewer: greenl, 06-Oct-2020 19:36:17
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21T01.D				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	21-Sep-2020 13:28:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0010935-001				
Misc. Info.:	BFB				
Operator ID:	kas02648	Instrument ID:	9355		
Method:	\\chromfs\Lancaster\ChromData\9355\20200921-10935.b\MSVoa_9355.m				
Limit Group:	MSV - 8260C_D				
Last Update:	21-Sep-2020 18:09:37	Calib Date:	21-Sep-2020 16:16:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1029				
First Level Reviewer: campbellme		Date:	21-Sep-2020 16:15:49		

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

$ 29 BFB

QC Flag Legend

Processing Flags

Reagents:

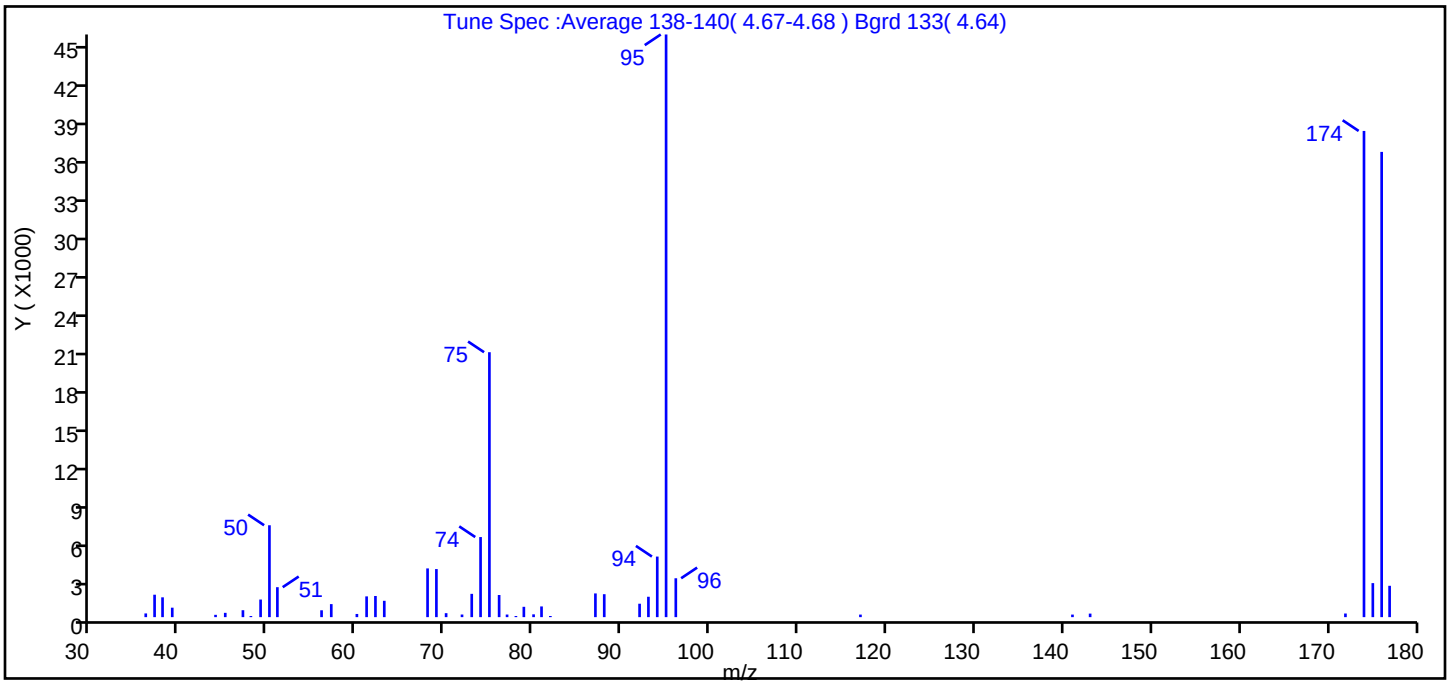
MSV_V_BFB_00003 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21T01.D
Injection Date: 21-Sep-2020 13:28:30 Instrument ID: 9355
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_9355 Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260D

$ 29 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	50 to 200% of m/z 174	100.0 (119.8)
96	5 to 9% of m/z 95	6.7
173	<2% of m/z 174	0.0 (0.0)
174	50 to 200% of m/z 95	83.4
175	5 to 9% of m/z 174	5.8 (7.0)
176	95 to 105% of m/z 174	79.8 (95.7)
177	5 to 10% of m/z 176	5.4 (6.7)

Data File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21T01.D\MSVoa_9355.rslt\spectra.d
Injection Date: 21-Sep-2020 13:28:30
Spectrum: Tune Spec :Average 138-140(4.67-4.68) Bgrd 133(4.64)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 46

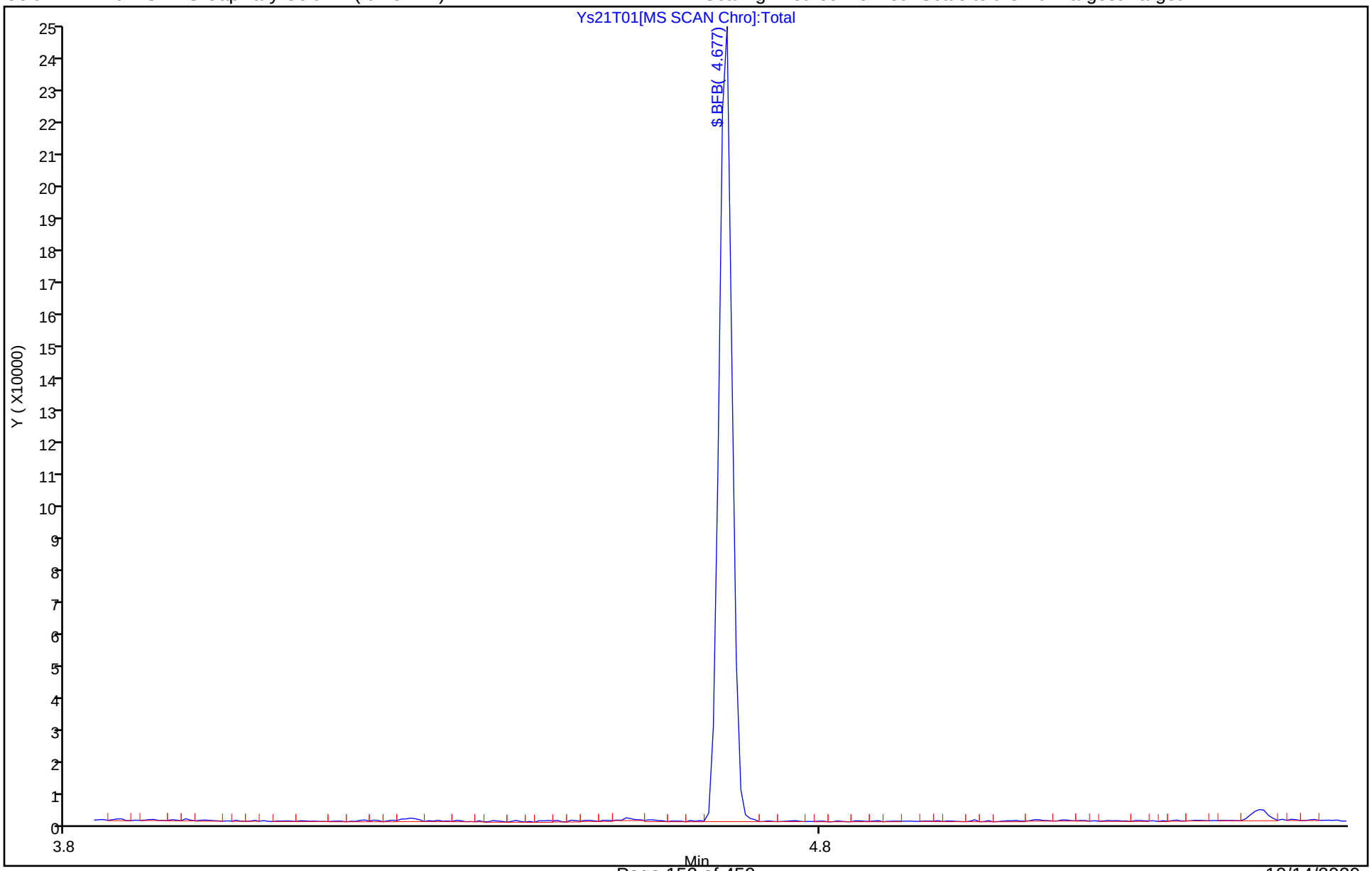
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	289	57.00	1015	76.00	1723	95.00	45376
37.00	1747	60.00	248	77.00	203	96.00	3028
38.00	1543	61.00	1617	78.00	89	117.00	199
39.00	737	62.00	1647	79.00	805	141.00	200
44.00	181	63.00	1273	80.00	219	143.00	276
45.00	335	68.00	3795	81.00	834	172.00	283
47.00	540	69.00	3744	82.00	89	174.00	37864
48.00	87	70.00	310	87.00	1847	175.00	2650
49.00	1372	72.00	205	88.00	1787	176.00	36232
50.00	7156	73.00	1814	92.00	1045	177.00	2441
51.00	2333	74.00	6237	93.00	1588		
56.00	535	75.00	20632	94.00	4717		

Report Date: 21-Sep-2020 18:09:37 Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21T01.D				
Injection Date:	21-Sep-2020 13:28:30	Instrument ID:	9355	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_9355	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\9355\20201006-12206.b\YC06T01.D				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	06-Oct-2020 17:54:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0012206-001				
Misc. Info.:	BFB				
Operator ID:	ljg30941	Instrument ID:	9355		
Method:	\\chromfs\Lancaster\ChromData\9355\20201006-12206.b\MSVoa_9355.m				
Limit Group:	MSV - 8260C_D				
Last Update:	07-Oct-2020 01:12:00	Calib Date:	21-Sep-2020 16:16:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1010				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 29 BFB	95	4.671	4.671	0.000	0	85519	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

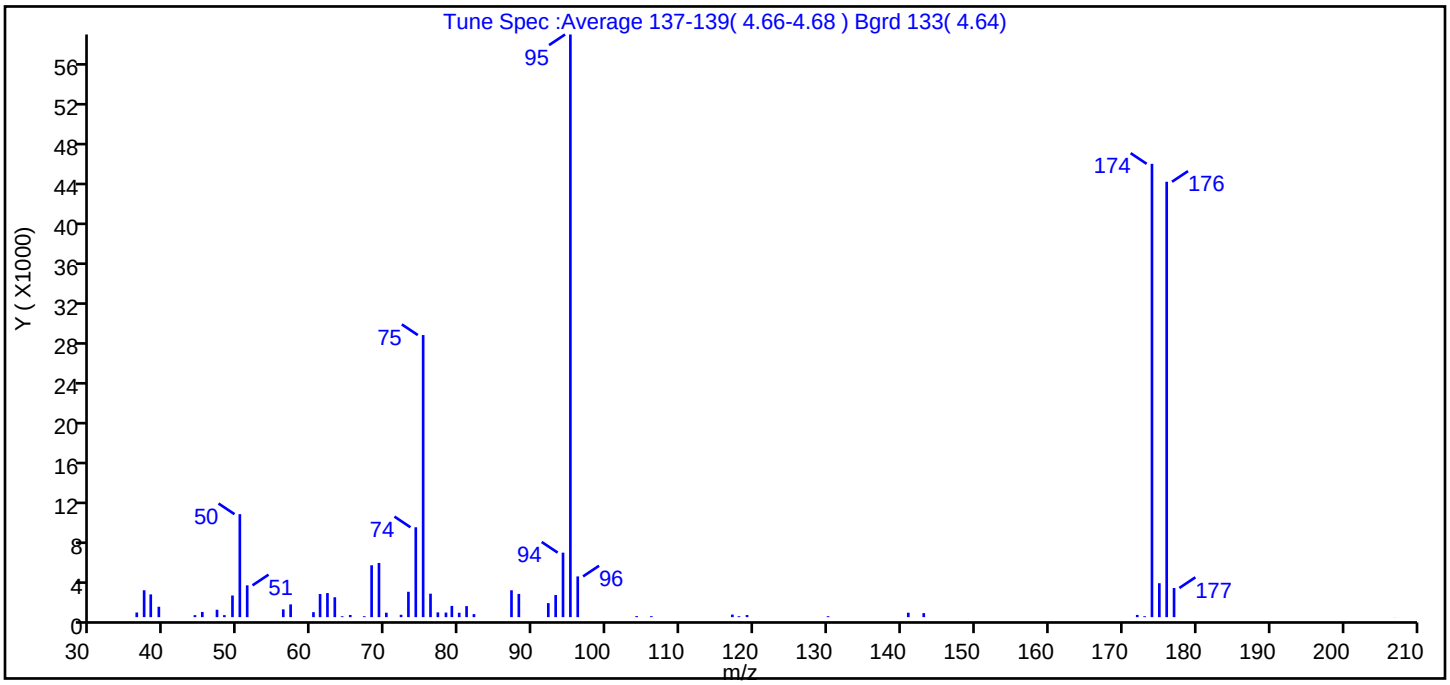
MSV_V_BFB_00003 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06T01.D
Injection Date: 06-Oct-2020 17:54:30 Instrument ID: 9355
Lims ID: bfb
Client ID:
Operator ID: ljg30941 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 29 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.7
75	30 to 60% of m/z 95	48.4
96	5 to 9% of m/z 95	7.0
173	Less than 2% of m/z 174	0.2 (0.2)
174	50 to 120% of m/z 95	77.8
175	5 to 9% of m/z 174	5.8 (7.5)
176	Greater than 95% but less than 101% of m/z 174	74.7 (96.0)
177	5 to 9% of m/z 176	5.0 (6.7)

Data File: \\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06T01.D\MSVoa_9355.rslt\spectra.d
Injection Date: 06-Oct-2020 17:54:30
Spectrum: Tune Spec :Average 137-139(4.66-4.68) Bgrd 133(4.64)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 56

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	471	61.00	2341	77.00	483	106.00	95
37.00	2722	62.00	2437	78.00	464	117.00	259
38.00	2304	63.00	2012	79.00	1138	118.00	93
39.00	1051	64.00	90	80.00	446	119.00	213
44.00	203	65.00	219	81.00	1117	130.00	94
45.00	525	67.00	93	82.00	306	141.00	448
47.00	749	68.00	5252	87.00	2721	143.00	407
48.00	204	69.00	5486	88.00	2353	172.00	225
49.00	2192	70.00	449	92.00	1423	173.00	94
50.00	10426	72.00	241	93.00	2238	174.00	45896
51.00	3220	73.00	2568	94.00	6531	175.00	3435
56.00	787	74.00	9100	95.00	58992	176.00	44080
57.00	1291	75.00	28560	96.00	4124	177.00	2952
60.00	503	76.00	2374	104.00	105	207.00	8

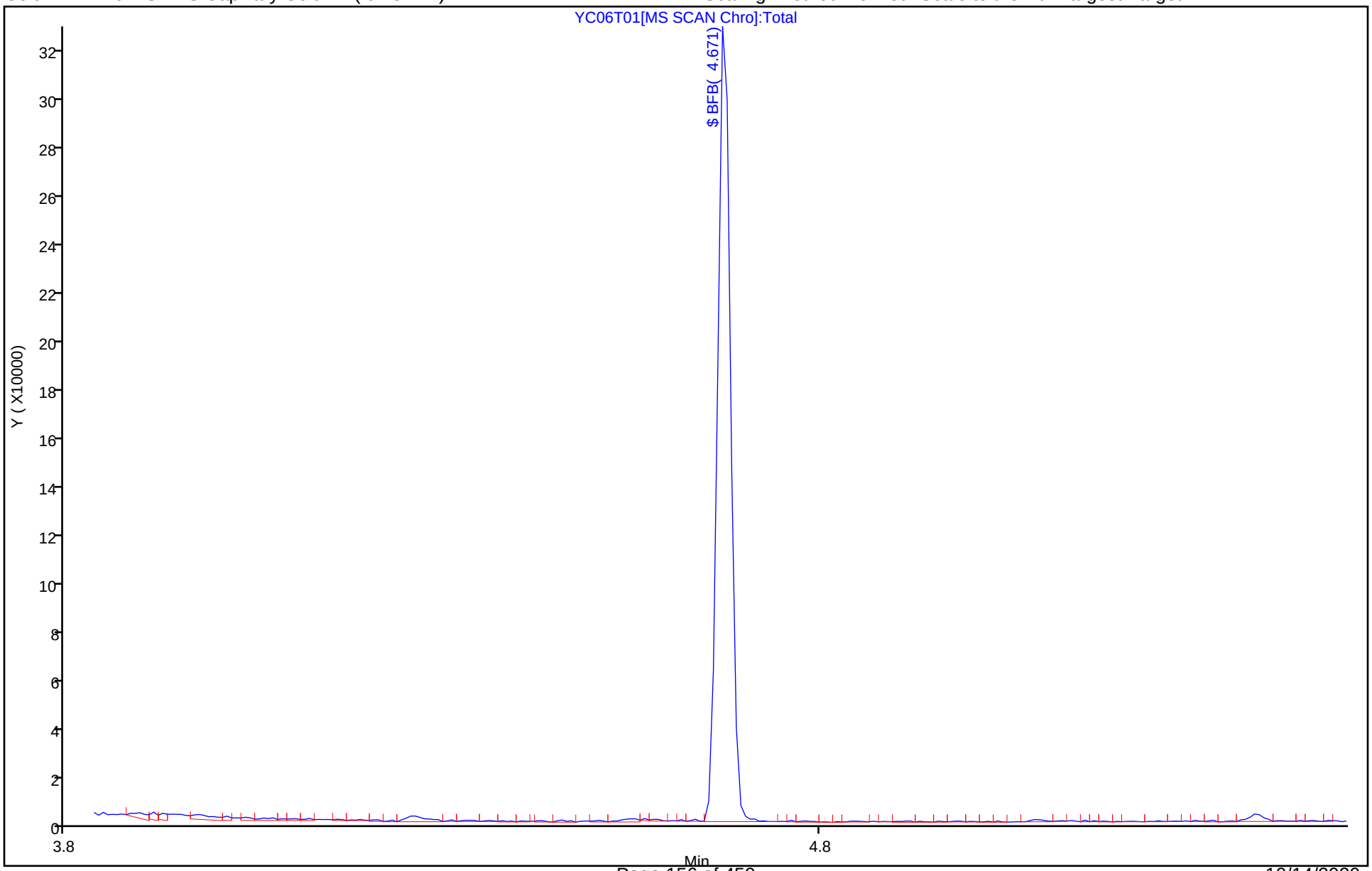
Report Date: 07-Oct-2020 01:12:00 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06T01.D

Injection Date:	06-Oct-2020 17:54:30	Instrument ID:	9355	Operator ID:	ljg30941
Lims ID:	bfb			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVoa_9355	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.: 410-15639-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-51457/7

Matrix: Water Lab File ID: YC06B01.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 10/06/2020 20:08

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.: 51457 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		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\9355\20201006-12206.b\YC06B01.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 06-Oct-2020 20:08:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0012206-007
Misc. Info.: MB
Operator ID: ljg30941 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20201006-12206.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 07-Oct-2020 01:12:02 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1010

First Level Reviewer: greenl Date: 06-Oct-2020 20:34:09

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1	Chlorotrifluoroethene	116		2.001					ND	
2	Dichlorodifluoromethane	85		2.044					ND	
3	Chlorodifluoromethane	51		2.062					ND	
4	Chloromethane	50		2.250					ND	
5	Butadiene	39		2.372					ND	
6	Vinyl chloride	62		2.372					ND	
7	2-Chloro-1,1,1-Trifluoroethane	118		2.439					ND	
8	Bromomethane	94		2.707					ND	
9	Chloroethane	64		2.798					ND	
10	Dichlorofluoromethane	67		3.023					ND	
11	Trichlorofluoromethane	101		3.114					ND	
12	Pentane	43		3.145					ND	
13	Ethanol	45		3.205					ND	
14	Ethyl ether	59		3.364					ND	
15	1,2-Dichloro-1,1,2-trifluoroetha	67		3.443					ND	
16	Acrolein	56		3.528					ND	
17	1,1-Dichloroethene	96		3.686					ND	
18	Acetone	58		3.698					ND	
19	112TCTFE	101		3.723					ND	
20	Isopropyl alcohol	45		3.869					ND	7
21	Iodomethane	142		3.899					ND	
22	Carbon disulfide	76		4.015					ND	
23	Acetonitrile	41		4.063					ND	
24	Methyl acetate	43		4.136					ND	
25	3-Chloro-1-propene	41		4.173					ND	
* 26	t-Butyl alcohol-d10 (IS)	65	4.368	4.361	0.007	29	476065	250.0	250.0	
27	Methylene Chloride	84		4.361					ND	
28	2-Methyl-2-propanol	59		4.483					ND	
30	Acrylonitrile	53		4.678					ND	
31	Methyl tert-butyl ether	73		4.781					ND	
32	trans-1,2-Dichloroethene	96		4.799					ND	

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
	33 Hexane	57		5.219					ND	
	35 Vinyl acetate	43		5.432					ND	
	36 1,1-Dichloroethane	63		5.444					ND	
	37 Isopropyl ether	45		5.499					ND	
	38 2-Chloro-1,3-butadiene	53		5.554					ND	
	39 Tert-butyl ethyl ether	59		6.034					ND	
S	40 1,2-Dichloroethene, Total	100		6.155					ND	7
	41 2-Butanone (MEK)	43		6.223					ND	
	42 cis-1,2-Dichloroethene	96		6.266					ND	
	44 2,2-Dichloropropane	77		6.284					ND	
	43 Ethyl acetate	43		6.290					ND	
	45 Propionitrile	54		6.296					ND	
	46 Methacrylonitrile	67		6.521					ND	
	47 Chlorobromomethane	128		6.606					ND	
	48 Tetrahydrofuran	71		6.618					ND	
	49 Chloroform	83		6.746					ND	
$	50 Dibromofluoromethane (Surr)	113	6.965	6.959	0.006	93	303711	50.0	49.2	
	51 1,1,1-Trichloroethane	97		6.983					ND	
	52 Cyclohexane	56		7.099					ND	
	53 1,1-Dichloropropene	75		7.196					ND	
	54 Carbon tetrachloride	117		7.202					ND	
	55 Isobutyl alcohol	41		7.306					ND	
$	56 1,2-Dichloroethane-d4 (Surr)	102	7.428	7.422	0.006	98	84655	50.0	49.9	
	57 Benzene	78		7.458					ND	
	58 Isopropyl acetate	43		7.519					ND	
	59 1,2-Dichloroethane	62		7.525					ND	7
	60 Tert-amyl methyl ether	73		7.647					ND	
	61 t-Amyl alcohol	73	7.860	7.842	0.018	34	16541		NC	
*	62 Fluorobenzene (IS)	96	7.860	7.860	0.000	99	1373206	50.0	50.0	
	63 n-Heptane	43		7.872					ND	
	64 n-Butanol	56		8.182					ND	
	65 Trichloroethene	95		8.340					ND	
	66 Methylcyclohexane	83		8.663					ND	
	67 1,2-Dichloropropane	63		8.669					ND	
	34 2-ethoxy-2-methyl butane	87		8.675					ND	
	68 Methyl methacrylate	69		8.736					ND	
	69 1,4-Dioxane	88		8.754					ND	
	70 Dibromomethane	93		8.784					ND	
	71 n-Propyl acetate	61		8.815					ND	
	72 Dichlorobromomethane	83		9.009					ND	
	73 2-Nitropropane	41		9.253					ND	
	74 2-Chloroethyl vinyl ether	63		9.356					ND	
	75 cis-1,3-Dichloropropene	75		9.545					ND	
	76 4-Methyl-2-pentanone (MIBK)	43		9.697					ND	
$	77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	94	1315533	50.0	48.4	
	78 Toluene	92		9.928					ND	
S	79 1,3-Dichloropropene, Total	100		10.060					ND	7
	80 trans-1,3-Dichloropropene	75		10.171					ND	
	81 Ethyl methacrylate	69		10.226					ND	
	82 1,1,2-Trichloroethane	97		10.378					ND	
	83 Tetrachloroethene	166		10.475					ND	
	84 1,3-Dichloropropane	76		10.536					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
86 2-Hexanone	43		10.573				ND		
85 3,4-Dichloro-1-butene	75		10.579				ND		
87 n-Butyl acetate	43		10.700				ND		
88 Chlorodibromomethane	129		10.755				ND		
89 Ethylene Dibromide	107		10.871				ND		
S 90 Xylenes, Total	106		11.245				ND		7
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	86	1003639	50.0	50.0	
92 1-Chlorohexane	91		11.297				ND		U
93 Chlorobenzene	112		11.321				ND		
94 1,1,1,2-Tetrachloroethane	131		11.400				ND		
95 Ethylbenzene	91		11.406				ND		
96 m-Xylene & p-Xylene	106		11.522				ND		
97 o-Xylene	106		11.844				ND		
98 Styrene	104		11.863				ND		
99 Bromoform	173		12.027				ND		
100 Isopropylbenzene	105		12.142				ND		
101 cis-1,4-Dichloro-2-butene	88		12.185				ND		
102 Cyclohexanone	55		12.215				ND		
$ 103 4-Bromofluorobenzene (Surr)	95	12.294	12.288	0.006	90	474338	50.0	46.5	
104 1,1,2,2-Tetrachloroethane	83		12.380				ND		
106 trans-1,4-Dichloro-2-butene	53		12.404				ND		
105 Bromobenzene	156		12.410				ND		
107 1,2,3-Trichloropropane	110		12.428				ND		
108 N-Propylbenzene	91		12.471				ND		
109 2-Chlorotoluene	126		12.550				ND		
110 1,3,5-Trimethylbenzene	105		12.605				ND		
111 4-Chlorotoluene	126		12.641				ND		
112 2,3,4-Trichlorobutene	109		12.659				ND		
113 tert-Butylbenzene	134		12.848				ND		
114 Pentachloroethane	167		12.885				ND		
115 1,2,4-Trimethylbenzene	105		12.891				ND		
116 sec-Butylbenzene	105		13.012				ND		
117 1,3-Dichlorobenzene	146		13.116				ND		
118 4-Isopropyltoluene	119		13.122				ND		
* 119 1,4-Dichlorobenzene-d4	152	13.171	13.170	0.000	95	519636	50.0	50.0	
121 1,4-Dichlorobenzene	146		13.189				ND		
120 1,2,3-Trimethylbenzene	105		13.195				ND		
122 Benzyl chloride	91		13.262				ND		7
123 1,3-Diethylbenzene	119		13.323				ND		
124 p-Diethylbenzene	119		13.396				ND		
125 n-Butylbenzene	92		13.414				ND		
126 1,2-Dichlorobenzene	146		13.450				ND		
127 o-diethylbenzene	119		13.462				ND		
128 Hexachloroethane	201		13.560				ND		
129 1,2-Dibromo-3-Chloropropane	75		13.986				ND		
130 1,3,5-Trichlorobenzene	180		14.120				ND		7
131 1,2,4-Trichlorobenzene	180		14.539				ND		
132 Hexachlorobutadiene	225		14.624				ND		
133 Naphthalene	128		14.722				ND		7
134 1,2,3-Trichlorobenzene	180		14.868				ND		
135 2-Methylnaphthalene	142		15.513				ND		7
136 C4-C10	1		0.000				ND		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
175 Vinyl bromide TIC	1		0.000					ND	
176 Epichlorohydrin TIC	1		0.000					ND	
177 2-Bromo-3-chloropropene TIC	1		0.000					ND	
178 Ethylene oxide TIC	1		0.000					ND	
179 2,3-Dibromopropene TIC	1		0.000					ND	
180 3-Chloro-1,2-propanediol TIC	1		0.000					ND	
181 1-Bromo-2-chloroethane TIC	1		0.000					ND	
182 1,2,3,4-Diepoxybutane (TIC)	1		0.000					ND	
183 N-Nitrosodi-n-butylamine TIC	1		0.000					ND	
184 1,3-Dichloro-2-propanol TIC	1		0.000					ND	
185 n-Propylamine (TIC)	1		0.000					ND	
186 beta-Propiolactone TIC	1		0.000					ND	
187 Propargyl alcohol TIC	1		0.000					ND	
188 Propanol TIC	1		0.000					ND	
204 Ethanol TIC	1		0.000					ND	
173 Epibromohydrin TIC	1		0.000					ND	
191 2-Pentanone (TIC)	1		0.000					ND	
192 Malononitrile (TIC)	1		0.000					ND	
193 2-Picoline (TIC)	1		0.000					ND	
194 Vinyl acetate (TIC)	1		0.000					ND	
195 Allyl Alcohol TIC	1		0.000					ND	
196 1-Bromopropane TIC	1		0.000					ND	
197 Pentafluorobenzene TIC	1		0.000					ND	
198 Bis(2-chloroethyl)sulfide (TIC)	1		0.000					ND	
199 Paraldehyde TIC	1		0.000					ND	
200 Bromoacetone (TIC)	1		0.000					ND	
201 Methanol TIC	1		0.000					ND	
202 Chloral hydrate (TIC)	1		0.000					ND	
203 Pentachloroethane TIC	1		0.000					ND	
174 Chloroacetaldehyde TIC	1		0.000					ND	
189 Hexachloroethane TIC	1		0.000					ND	
190 Nitrobenzene TIC	1		0.000					ND	
171 Monochloroacetic acid TIC	1		0.000					ND	
143 Methyl acrylate	1		0.000					ND	
158 Propene oxide	1		0.000					ND	
157 C4-C12	1		0.000					ND	
156 1-Chlorobutane	1		0.000					ND	
155 1,4-Divinylbenzene	1		0.000					ND	
154 trans-1,2,3-Trichlorobutene-2	1		0.000					ND	
153 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
152 cis-1,2,3-Trichlorobutene-2	1		0.000					ND	
151 2,3-Dichloro-1,3-butadiene	1		0.000					ND	
150 Diethoxymethane	1		0.000					ND	
149 C5-C12	1		0.000					ND	
148 1-Bromo-2-chloroethane	1		0.000					ND	
147 C6-C12	1		0.000					ND	
S 146 Total Diethylbenzene	1		0.000					ND	7
145 3-chloro-1-Butene	1		0.000					ND	
206 1,1,2,2-Tetrachloro-1,2-difluoro	1		0.000					ND	
159 1,3-Dichlorobutene-2(total)	1		0.000					ND	
142 tert-Butyl Formate	1		0.000					ND	
141 1,3-Divinylbenzene	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
140 Ethyl bromide	1		0.000					ND	
139 Chloroacetonitrile	1		0.000					ND	
S 138 divinyl benzene	1		0.000					ND	7
137 Methylal	1		0.000					ND	
160 n-Decane	57		0.000					ND	
161 Dodecane	57		0.000					ND	
167 Butane	1		0.000					ND	
168 2,3-Dibromo-1-propanol TIC	1		0.000					ND	
169 1-Methyl-2-pyrrilidinone TIC	1		0.000					ND	
170 2-Bromoethanol TIC	1		0.000					ND	
172 2-Chloroethanol TIC	1		0.000					ND	
205 o-toluidine TIC	1		0.000					ND	
144 C6-C10	1		0.000					ND	
207 Ethyl acrylate	55		0.000					ND	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected

Reagents:

MSV_HP20_ISSS_00026 Amount Added: 1.00 Units: uL Run Reagent

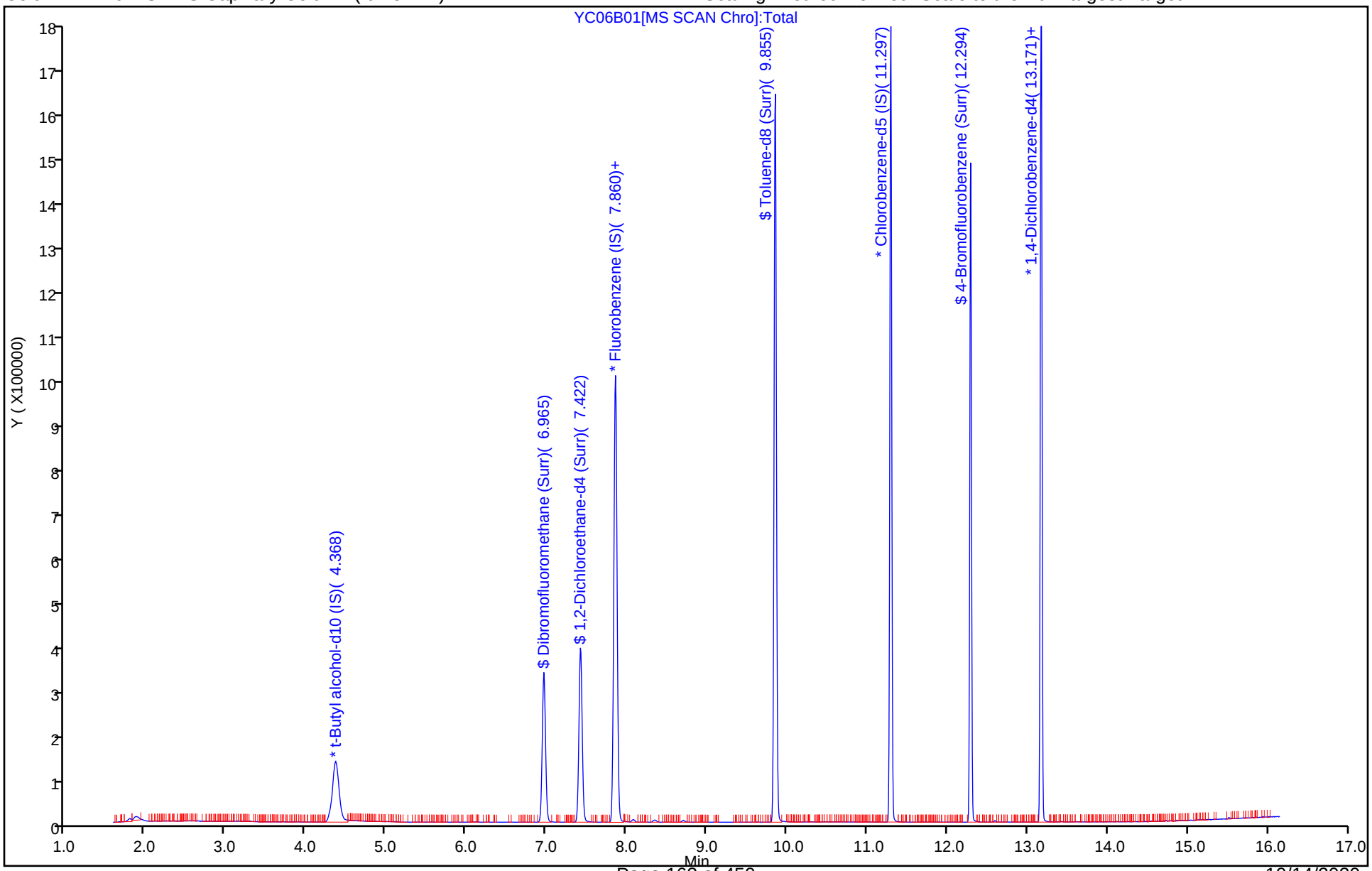
Report Date: 07-Oct-2020 01:12:30 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06B01.D

Injection Date:	06-Oct-2020 20:08:30	Instrument ID:	9355	Operator ID:	ljg30941
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSVoa_9355	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.: 410-15639-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-51457/4

Matrix: Water Lab File ID: YC06L01.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 10/06/2020 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.: 51457 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	19.6		1.0	0.20
100-41-4	Ethylbenzene	19.9		1.0	0.40
108-88-3	Toluene	19.6		1.0	0.20
1330-20-7	Xylenes, Total	59.7		6.0	1.4
1634-04-4	Methyl tertiary butyl ether	19.4		1.0	0.20

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

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06L01.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 06-Oct-2020 19:01:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0012206-004
Misc. Info.: LCS
Operator ID: ljg30941 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20201006-12206.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 07-Oct-2020 01:12:02 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1010

First Level Reviewer: greenl Date: 06-Oct-2020 19:39:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.056	2.044	0.012	99	131026	20.0	14.0	
4 Chloromethane	50	2.263	2.250	0.013	99	167341	20.0	17.2	
5 Butadiene	39	2.378	2.372	0.006	91	239165	20.0	34.9	
6 Vinyl chloride	62	2.378	2.372	0.006	80	157881	20.0	17.4	
8 Bromomethane	94	2.707	2.707	0.000	91	85396	20.0	13.5	
9 Chloroethane	64	2.798	2.798	0.000	100	79798	20.0	14.3	
11 Trichlorofluoromethane	101	3.114	3.114	0.000	99	192919	20.0	17.2	
12 Pentane	43	3.151	3.145	0.006	96	197262	20.0	17.8	
14 Ethyl ether	59	3.370	3.364	0.006	92	162830	20.0	19.4	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.449	3.443	0.006	93	171344	20.0	18.7	
16 Acrolein	56	3.534	3.528	0.006	99	491828	149.7	122.8	
17 1,1-Dichloroethene	96	3.692	3.686	0.006	97	133185	20.0	20.1	
18 Acetone	58	3.704	3.698	0.006	100	277912	150.0	133.9	
19 112TCTFE	101	3.729	3.723	0.006	94	114747	20.0	16.8	
20 Isopropyl alcohol	45	3.881	3.869	0.012	98	214582	150.0	143.9	
21 Iodomethane	142	3.911	3.899	0.012	98	219253	20.0	18.4	
22 Carbon disulfide	76	4.027	4.015	0.012	99	435907	20.0	18.7	
24 Methyl acetate	43	4.142	4.136	0.006	98	242002	20.0	20.4	
25 3-Chloro-1-propene	41	4.179	4.173	0.006	92	244426	20.0	19.6	
* 26 t-Butyl alcohol-d10 (IS)	65	4.368	4.361	0.007	92	489588	250.0	250.0	
27 Methylene Chloride	84	4.374	4.361	0.013	94	163524	20.0	19.5	
28 2-Methyl-2-propanol	59	4.489	4.483	0.006	98	524214	200.0	198.0	
30 Acrylonitrile	53	4.690	4.678	0.012	99	670325	100.0	104.1	
31 Methyl tert-butyl ether	73	4.787	4.781	0.006	95	498364	20.0	19.4	
32 trans-1,2-Dichloroethene	96	4.806	4.799	0.007	98	156509	20.0	19.9	
33 Hexane	57	5.225	5.219	0.006	93	241880	20.0	19.5	
36 1,1-Dichloroethane	63	5.450	5.444	0.006	96	290165	20.0	20.0	
37 Isopropyl ether	45	5.505	5.499	0.006	94	532074	20.0	19.7	
38 2-Chloro-1,3-butadiene	53	5.560	5.554	0.006	91	240666	20.0	20.3	
39 Tert-butyl ethyl ether	59	6.041	6.034	0.006	97	491039	20.0	19.7	
41 2-Butanone (MEK)	43	6.223	6.223	0.000	100	1464103	150.0	168.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 cis-1,2-Dichloroethene	96	6.272	6.266	0.006	84	187305	20.0	21.0	
44 2,2-Dichloropropane	77	6.296	6.284	0.012	85	213064	20.0	19.9	
45 Propionitrile	54	6.302	6.296	0.006	99	451920	150.0	150.6	
46 Methacrylonitrile	67	6.521	6.521	0.000	92	1009662	150.0	161.9	
47 Chlorobromomethane	128	6.606	6.606	0.000	95	85176	20.0	19.1	
48 Tetrahydrofuran	71	6.618	6.618	0.000	92	262540	100.0	95.5	
49 Chloroform	83	6.752	6.746	0.006	94	275337	20.0	20.2	
$ 50 Dibromofluoromethane (Surr)	113	6.965	6.959	0.006	94	306278	50.0	49.2	
51 1,1,1-Trichloroethane	97	6.990	6.983	0.007	99	215178	20.0	19.0	
52 Cyclohexane	56	7.099	7.099	0.000	91	265164	20.0	18.1	
53 1,1-Dichloropropene	75	7.196	7.196	0.000	97	225487	20.0	19.9	
54 Carbon tetrachloride	117	7.202	7.202	0.000	98	180137	20.0	19.2	
55 Isobutyl alcohol	41	7.306	7.306	0.000	95	451119	500.0	513.7	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.421	7.422	-0.001	99	84105	50.0	49.2	
57 Benzene	78	7.458	7.458	0.000	96	689114	20.0	19.6	
59 1,2-Dichloroethane	62	7.531	7.525	0.006	98	241011	20.0	21.0	
60 Tert-amyl methyl ether	73	7.647	7.647	0.000	98	488192	20.0	20.0	
* 62 Fluorobenzene (IS)	96	7.859	7.860	-0.001	99	1383961	50.0	50.0	
63 n-Heptane	43	7.872	7.872	0.000	94	268216	20.0	18.9	
64 n-Butanol	56	8.188	8.182	0.006	89	798672	1000.0	1027.0	
65 Trichloroethene	95	8.340	8.340	0.000	99	169833	20.0	19.7	
66 Methylcyclohexane	83	8.663	8.663	0.000	97	276289	20.0	18.4	
67 1,2-Dichloropropane	63	8.669	8.669	0.000	93	185132	20.0	20.4	
34 2-ethoxy-2-methyl butane	87	8.675	8.675	0.000	92	248019	20.0	20.3	
68 Methyl methacrylate	69	8.742	8.736	0.006	92	194888	20.0	21.3	
69 1,4-Dioxane	88	8.754	8.754	0.000	93	112706	500.0	672.4	M
70 Dibromomethane	93	8.784	8.784	0.000	97	112436	20.0	20.2	
72 Dichlorobromomethane	83	9.009	9.009	0.000	99	202067	20.0	20.1	
73 2-Nitropropane	41	9.253	9.253	0.000	99	81197	20.0	18.9	
74 2-Chloroethyl vinyl ether	63	9.356	9.356	0.000	92	148738	20.0	21.1	
75 cis-1,3-Dichloropropene	75	9.545	9.545	0.000	95	286421	20.0	20.6	
76 4-Methyl-2-pentanone (MIBK)	43	9.697	9.697	0.000	97	1742231	100.0	109.1	
$ 77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	94	1355966	50.0	48.9	
78 Toluene	92	9.928	9.928	0.000	98	434970	20.0	19.6	
80 trans-1,3-Dichloropropene	75	10.171	10.171	0.000	93	263348	20.0	20.3	
81 Ethyl methacrylate	69	10.232	10.226	0.006	90	297606	20.0	20.7	
82 1,1,2-Trichloroethane	97	10.378	10.378	0.000	91	176201	20.0	20.7	
83 Tetrachloroethene	166	10.475	10.475	0.000	97	177365	20.0	16.8	
84 1,3-Dichloropropane	76	10.536	10.536	0.000	91	298224	20.0	19.9	
86 2-Hexanone	43	10.579	10.573	0.006	97	1470386	100.0	114.5	
88 Chlorodibromomethane	129	10.755	10.755	0.000	90	164969	20.0	19.8	
89 Ethylene Dibromide	107	10.871	10.871	0.000	98	185366	20.0	20.2	
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	87	1022007	50.0	50.0	
92 1-Chlorohexane	91	11.297	11.297	0.000	97	224381	20.0	18.7	
93 Chlorobenzene	112	11.321	11.321	0.000	94	485474	20.0	19.6	
94 1,1,1,2-Tetrachloroethane	131	11.406	11.400	0.006	94	148311	20.0	18.8	
95 Ethylbenzene	91	11.406	11.406	0.000	98	821104	20.0	19.9	
96 m-Xylene & p-Xylene	106	11.522	11.522	0.000	100	650290	40.0	40.2	
97 o-Xylene	106	11.844	11.844	0.000	97	305791	20.0	19.5	
98 Styrene	104	11.862	11.863	0.000	94	523109	20.0	20.4	
99 Bromoform	173	12.027	12.027	0.000	97	118095	20.0	18.9	
100 Isopropylbenzene	105	12.142	12.142	0.000	96	782358	20.0	19.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 Cyclohexanone	55	12.215	12.215	0.000	92	383873	500.0	496.9	
$ 103 4-Bromofluorobenzene (Surr)	95	12.294	12.288	0.006	89	504417	50.0	48.6	
104 1,1,2,2-Tetrachloroethane	83	12.380	12.380	0.000	93	290221	20.0	20.4	
106 trans-1,4-Dichloro-2-butene	53	12.404	12.404	0.000	89	425051	100.0	87.8	
105 Bromobenzene	156	12.410	12.410	0.000	84	209274	20.0	20.6	
107 1,2,3-Trichloropropane	110	12.428	12.428	0.000	82	91019	20.0	20.6	
108 N-Propylbenzene	91	12.471	12.471	0.000	99	983149	20.0	20.8	
109 2-Chlorotoluene	126	12.550	12.550	0.000	96	191084	20.0	19.5	
110 1,3,5-Trimethylbenzene	105	12.605	12.605	0.000	94	687453	20.0	20.2	
111 4-Chlorotoluene	126	12.641	12.641	0.000	98	206065	20.0	20.3	
113 tert-Butylbenzene	134	12.848	12.848	0.000	93	144850	20.0	20.4	
114 Pentachloroethane	167	12.885	12.885	0.000	88	110989	20.0	24.5	
115 1,2,4-Trimethylbenzene	105	12.891	12.891	0.000	97	703886	20.0	20.2	
116 sec-Butylbenzene	105	13.012	13.012	0.000	94	874194	20.0	20.2	
117 1,3-Dichlorobenzene	146	13.116	13.116	0.000	97	395688	20.0	20.1	
118 4-Isopropyltoluene	119	13.122	13.122	0.000	97	753506	20.0	20.5	
* 119 1,4-Dichlorobenzene-d4	152	13.170	13.170	0.000	95	536524	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.189	13.189	0.000	93	410970	20.0	20.2	
120 1,2,3-Trimethylbenzene	105	13.195	13.195	0.000	98	742867	20.0	21.3	
122 Benzyl chloride	91	13.262	13.262	0.000	99	586453	20.0	21.0	
123 1,3-Diethylbenzene	119	13.323	13.323	0.000	95	456608	20.0	20.6	
124 p-Diethylbenzene	119	13.396	13.396	0.000	94	487176	20.0	21.0	
125 n-Butylbenzene	92	13.414	13.414	0.000	97	392765	20.0	20.0	
126 1,2-Dichlorobenzene	146	13.450	13.450	0.000	98	375516	20.0	19.4	
127 o-diethylbenzene	119	13.462	13.462	0.000	95	383612	20.0	20.7	
129 1,2-Dibromo-3-Chloropropane	75	13.986	13.986	0.000	83	71913	20.0	20.5	
130 1,3,5-Trichlorobenzene	180	14.119	14.120	-0.001	98	278791	20.0	18.3	
131 1,2,4-Trichlorobenzene	180	14.539	14.539	0.000	94	254680	20.0	18.0	
132 Hexachlorobutadiene	225	14.624	14.624	0.000	97	121940	20.0	18.6	
133 Naphthalene	128	14.722	14.722	0.000	97	900256	20.0	18.9	
134 1,2,3-Trichlorobenzene	180	14.868	14.868	0.000	95	249756	20.0	18.1	
135 2-Methylnaphthalene	142	15.513	15.513	0.000	93	542497	20.0	20.2	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_Q_QVOA1_00049	Amount Added: 50.00	Units: uL	
MSV_Q_QARC_00048	Amount Added: 50.00	Units: uL	
MSV_Q_QVOA6_00046	Amount Added: 50.00	Units: uL	
MSV_Q_EE_00002	Amount Added: 50.00	Units: uL	
MSV_QCYC_00004	Amount Added: 50.00	Units: uL	
MSV_Q_QGases_00091	Amount Added: 50.00	Units: uL	
MSV_HP20_ISSS_00026	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 07-Oct-2020 01:12:13 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06L01.D

Injection Date: 06-Oct-2020 19:01:30 Instrument ID: 9355 Operator ID: ljg30941

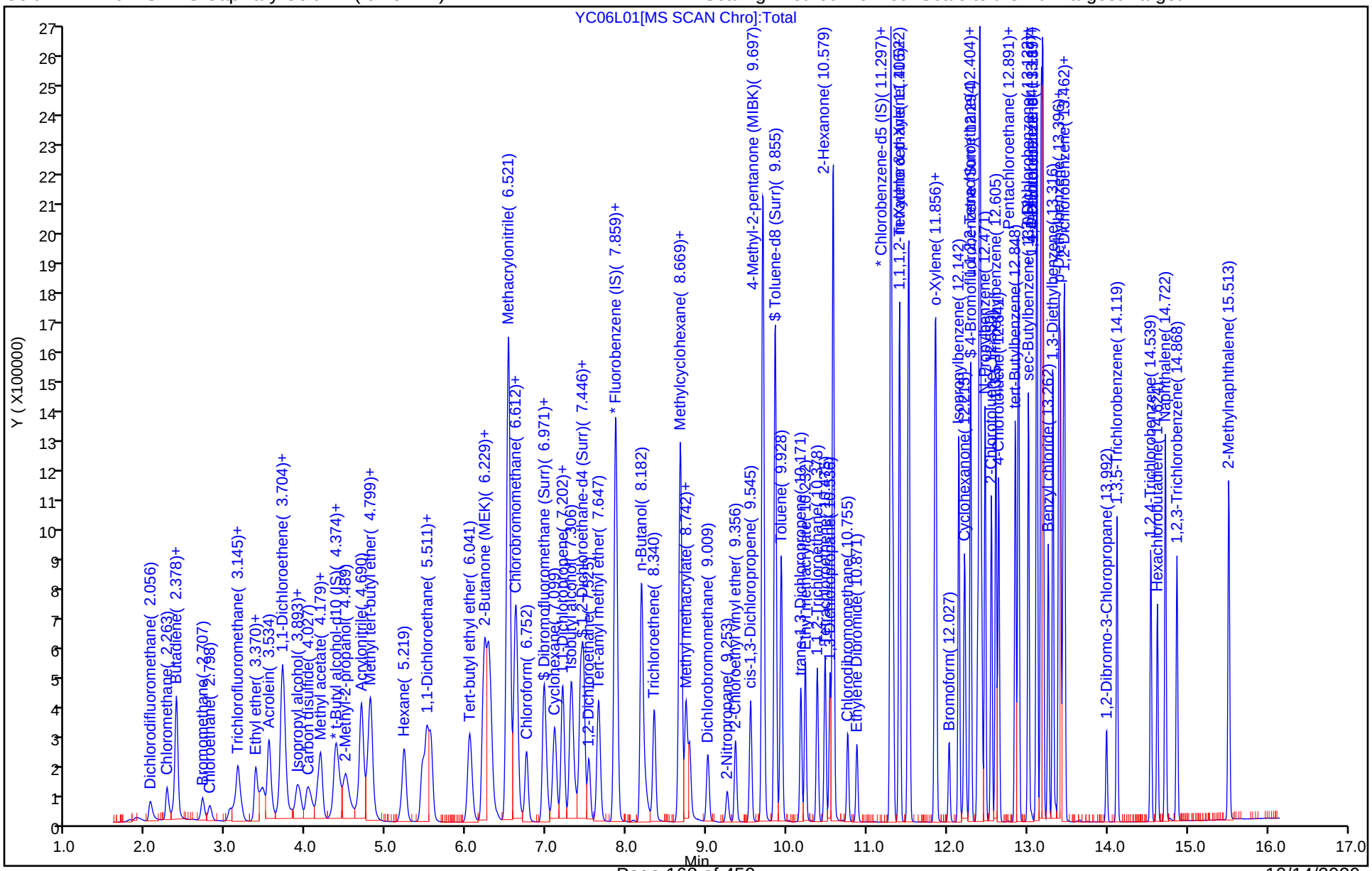
Lims ID: LCS Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: MSVoa_9355 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.: 410-15639-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-51457/5

Matrix: Water Lab File ID: YC06L02.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 10/06/2020 19:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 51457 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	20.0		1.0	0.20
100-41-4	Ethylbenzene	20.0		1.0	0.40
108-88-3	Toluene	19.8		1.0	0.20
1330-20-7	Xylenes, Total	60.1		6.0	1.4
1634-04-4	Methyl tertiary butyl ether	19.9		1.0	0.20

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

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06L02.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 06-Oct-2020 19:23:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0012206-005
Misc. Info.: LCSD
Operator ID: ljg30941 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20201006-12206.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 07-Oct-2020 01:12:02 Calib Date: 21-Sep-2020 16:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20200921-10935.b\Ys21I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1010

First Level Reviewer: greenl Date: 06-Oct-2020 19:55:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.056	2.044	0.012	99	134407	20.0	14.4	
4 Chloromethane	50	2.257	2.250	0.007	99	166976	20.0	17.2	
5 Butadiene	39	2.378	2.372	0.006	91	228649	20.0	33.6	
6 Vinyl chloride	62	2.378	2.372	0.006	84	159404	20.0	17.7	
8 Bromomethane	94	2.707	2.707	0.000	91	102540	20.0	16.3	
9 Chloroethane	64	2.804	2.798	0.006	100	90210	20.0	16.2	
11 Trichlorofluoromethane	101	3.120	3.114	0.006	98	194171	20.0	17.4	
12 Pentane	43	3.151	3.145	0.006	96	200212	20.0	18.2	
14 Ethyl ether	59	3.370	3.364	0.006	91	158605	20.0	19.0	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.449	3.443	0.006	94	173182	20.0	19.0	
16 Acrolein	56	3.534	3.528	0.006	99	500597	149.7	125.6	
17 1,1-Dichloroethene	96	3.686	3.686	0.000	96	135162	20.0	20.5	
18 Acetone	58	3.704	3.698	0.006	100	272600	150.0	132.0	
19 112TCTFE	101	3.729	3.723	0.006	93	116169	20.0	17.1	
20 Isopropyl alcohol	45	3.875	3.869	0.006	99	186420	150.0	125.6	
21 Iodomethane	142	3.905	3.899	0.006	98	222565	20.0	18.8	
22 Carbon disulfide	76	4.021	4.015	0.006	99	446979	20.0	19.3	
24 Methyl acetate	43	4.142	4.136	0.006	98	266881	20.0	22.7	
25 3-Chloro-1-propene	41	4.179	4.173	0.006	93	246397	20.0	19.8	
* 26 t-Butyl alcohol-d10 (IS)	65	4.361	4.361	0.000	90	487095	250.0	250.0	
27 Methylene Chloride	84	4.374	4.361	0.013	93	166533	20.0	19.9	
28 2-Methyl-2-propanol	59	4.489	4.483	0.006	98	491659	200.0	186.6	
30 Acrylonitrile	53	4.690	4.678	0.012	99	669322	100.0	104.5	
31 Methyl tert-butyl ether	73	4.787	4.781	0.006	96	508637	20.0	19.9	
32 trans-1,2-Dichloroethene	96	4.799	4.799	0.000	98	159486	20.0	20.4	
33 Hexane	57	5.219	5.219	0.000	93	245278	20.0	19.9	
36 1,1-Dichloroethane	63	5.450	5.444	0.006	96	295947	20.0	20.5	
37 Isopropyl ether	45	5.505	5.499	0.006	94	541381	20.0	20.1	
38 2-Chloro-1,3-butadiene	53	5.560	5.554	0.006	91	243925	20.0	20.7	
39 Tert-butyl ethyl ether	59	6.041	6.034	0.007	97	500527	20.0	20.2	
41 2-Butanone (MEK)	43	6.223	6.223	0.000	100	1477300	150.0	170.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 cis-1,2-Dichloroethene	96	6.272	6.266	0.006	82	187838	20.0	21.1	
44 2,2-Dichloropropane	77	6.290	6.284	0.006	93	215172	20.0	20.3	
45 Propionitrile	54	6.302	6.296	0.006	99	450288	150.0	150.9	
46 Methacrylonitrile	67	6.527	6.521	0.006	92	1021297	150.0	164.6	
47 Chlorobromomethane	128	6.606	6.606	0.000	60	86141	20.0	19.4	
48 Tetrahydrofuran	71	6.618	6.618	0.000	92	267276	100.0	97.7	
49 Chloroform	83	6.746	6.746	0.000	93	277076	20.0	20.5	
$ 50 Dibromofluoromethane (Surr)	113	6.965	6.959	0.006	94	303182	50.0	49.0	
51 1,1,1-Trichloroethane	97	6.990	6.983	0.007	99	217162	20.0	19.3	
52 Cyclohexane	56	7.099	7.099	0.000	92	272563	20.0	18.7	
53 1,1-Dichloropropene	75	7.196	7.196	0.000	97	226773	20.0	20.1	
54 Carbon tetrachloride	117	7.209	7.202	0.007	97	183363	20.0	19.7	
55 Isobutyl alcohol	41	7.312	7.306	0.006	95	418400	500.0	478.9	
$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.421	7.422	-0.001	98	84453	50.0	49.6	
57 Benzene	78	7.458	7.458	0.000	96	700144	20.0	20.0	
59 1,2-Dichloroethane	62	7.525	7.525	0.000	98	243353	20.0	21.3	
60 Tert-amyl methyl ether	73	7.647	7.647	0.000	97	496927	20.0	20.4	
* 62 Fluorobenzene (IS)	96	7.860	7.860	0.000	99	1376588	50.0	50.0	
63 n-Heptane	43	7.872	7.872	0.000	93	270199	20.0	19.1	
64 n-Butanol	56	8.182	8.182	0.000	89	789744	1000.0	1020.7	
65 Trichloroethene	95	8.340	8.340	0.000	99	171190	20.0	20.0	
66 Methylcyclohexane	83	8.663	8.663	0.000	92	278172	20.0	18.6	
67 1,2-Dichloropropane	63	8.669	8.669	0.000	82	187754	20.0	20.8	
34 2-ethoxy-2-methyl butane	87	8.675	8.675	0.000	90	252719	20.0	20.8	
68 Methyl methacrylate	69	8.736	8.736	0.000	92	197650	20.0	21.7	
69 1,4-Dioxane	88	8.754	8.754	0.000	93	98992	500.0	593.6	M
70 Dibromomethane	93	8.784	8.784	0.000	97	113679	20.0	20.5	
72 Dichlorobromomethane	83	9.009	9.009	0.000	99	203452	20.0	20.4	
73 2-Nitropropane	41	9.253	9.253	0.000	99	82367	20.0	19.3	
74 2-Chloroethyl vinyl ether	63	9.356	9.356	0.000	92	151614	20.0	21.6	
75 cis-1,3-Dichloropropene	75	9.545	9.545	0.000	96	285228	20.0	20.6	
76 4-Methyl-2-pentanone (MIBK)	43	9.697	9.697	0.000	97	1776826	100.0	111.9	
$ 77 Toluene-d8 (Surr)	98	9.855	9.855	0.000	94	1356782	50.0	49.2	
78 Toluene	92	9.928	9.928	0.000	98	437142	20.0	19.8	
80 trans-1,3-Dichloropropene	75	10.171	10.171	0.000	93	266897	20.0	20.7	
81 Ethyl methacrylate	69	10.226	10.226	0.000	90	303389	20.0	21.2	
82 1,1,2-Trichloroethane	97	10.378	10.378	0.000	91	177384	20.0	20.9	
83 Tetrachloroethene	166	10.475	10.475	0.000	97	178916	20.0	17.1	
84 1,3-Dichloropropane	76	10.536	10.536	0.000	91	301785	20.0	20.2	
86 2-Hexanone	43	10.579	10.573	0.006	97	1488246	100.0	116.6	
88 Chlorodibromomethane	129	10.755	10.755	0.000	90	165609	20.0	19.9	
89 Ethylene Dibromide	107	10.871	10.871	0.000	98	186082	20.0	20.4	
* 91 Chlorobenzene-d5 (IS)	117	11.297	11.297	0.000	88	1016347	50.0	50.0	
92 1-Chlorohexane	91	11.297	11.297	0.000	98	227679	20.0	19.1	
93 Chlorobenzene	112	11.321	11.321	0.000	96	487534	20.0	19.8	
94 1,1,1,2-Tetrachloroethane	131	11.406	11.400	0.006	96	147619	20.0	18.8	
95 Ethylbenzene	91	11.406	11.406	0.000	98	823850	20.0	20.0	
96 m-Xylene & p-Xylene	106	11.522	11.522	0.000	100	650537	40.0	40.4	
97 o-Xylene	106	11.844	11.844	0.000	97	307759	20.0	19.7	
98 Styrene	104	11.863	11.863	0.000	94	524167	20.0	20.5	
99 Bromoform	173	12.027	12.027	0.000	97	117645	20.0	18.9	
100 Isopropylbenzene	105	12.142	12.142	0.000	96	789933	20.0	19.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 Cyclohexanone	55	12.215	12.215	0.000	93	354429	500.0	461.2	
$ 103 4-Bromofluorobenzene (Surr)	95	12.294	12.288	0.006	89	504201	50.0	48.8	
104 1,1,2,2-Tetrachloroethane	83	12.380	12.380	0.000	93	291554	20.0	20.8	
106 trans-1,4-Dichloro-2-butene	53	12.404	12.404	0.000	90	456742	100.0	95.5	
105 Bromobenzene	156	12.410	12.410	0.000	76	206499	20.0	20.6	
107 1,2,3-Trichloropropane	110	12.428	12.428	0.000	82	92179	20.0	21.1	
108 N-Propylbenzene	91	12.471	12.471	0.000	99	977504	20.0	20.9	
109 2-Chlorotoluene	126	12.550	12.550	0.000	96	190992	20.0	19.8	
110 1,3,5-Trimethylbenzene	105	12.605	12.605	0.000	94	685666	20.0	20.4	
111 4-Chlorotoluene	126	12.641	12.641	0.000	98	205635	20.0	20.5	
113 tert-Butylbenzene	134	12.848	12.848	0.000	93	143291	20.0	20.4	
114 Pentachloroethane	167	12.885	12.885	0.000	89	111262	20.0	24.9	
115 1,2,4-Trimethylbenzene	105	12.891	12.891	0.000	97	707869	20.0	20.5	
116 sec-Butylbenzene	105	13.012	13.012	0.000	94	874285	20.0	20.4	
117 1,3-Dichlorobenzene	146	13.116	13.116	0.000	97	395329	20.0	20.3	
118 4-Isopropyltoluene	119	13.122	13.122	0.000	97	754890	20.0	20.8	
* 119 1,4-Dichlorobenzene-d4	152	13.170	13.170	0.000	96	530004	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.189	13.189	0.000	94	410330	20.0	20.4	
120 1,2,3-Trimethylbenzene	105	13.195	13.195	0.000	98	746693	20.0	21.7	
122 Benzyl chloride	91	13.262	13.262	0.000	99	592798	20.0	21.5	
123 1,3-Diethylbenzene	119	13.323	13.323	0.000	96	457511	20.0	20.9	
124 p-Diethylbenzene	119	13.396	13.396	0.000	96	486631	20.0	21.2	
125 n-Butylbenzene	92	13.414	13.414	0.000	97	392159	20.0	20.2	
126 1,2-Dichlorobenzene	146	13.450	13.450	0.000	98	378264	20.0	19.8	
127 o-diethylbenzene	119	13.462	13.462	0.000	96	381032	20.0	20.8	
129 1,2-Dibromo-3-Chloropropane	75	13.986	13.986	0.000	83	70783	20.0	20.5	
130 1,3,5-Trichlorobenzene	180	14.120	14.120	0.000	97	275656	20.0	18.4	
131 1,2,4-Trichlorobenzene	180	14.539	14.539	0.000	94	248825	20.0	17.8	
132 Hexachlorobutadiene	225	14.624	14.624	0.000	97	118605	20.0	18.3	
133 Naphthalene	128	14.722	14.722	0.000	97	892029	20.0	19.0	
134 1,2,3-Trichlorobenzene	180	14.868	14.868	0.000	96	241117	20.0	17.7	
135 2-Methylnaphthalene	142	15.513	15.513	0.000	92	511660	20.0	19.3	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_Q_QVOA1_00049	Amount Added: 50.00	Units: uL	
MSV_Q_QARC_00048	Amount Added: 50.00	Units: uL	
MSV_Q_QVOA6_00046	Amount Added: 50.00	Units: uL	
MSV_Q_EE_00002	Amount Added: 50.00	Units: uL	
MSV_QCYC_00004	Amount Added: 50.00	Units: uL	
MSV_Q_QGases_00091	Amount Added: 50.00	Units: uL	
MSV_HP20_ISSS_00026	Amount Added: 1.00	Units: uL	Run Reagent

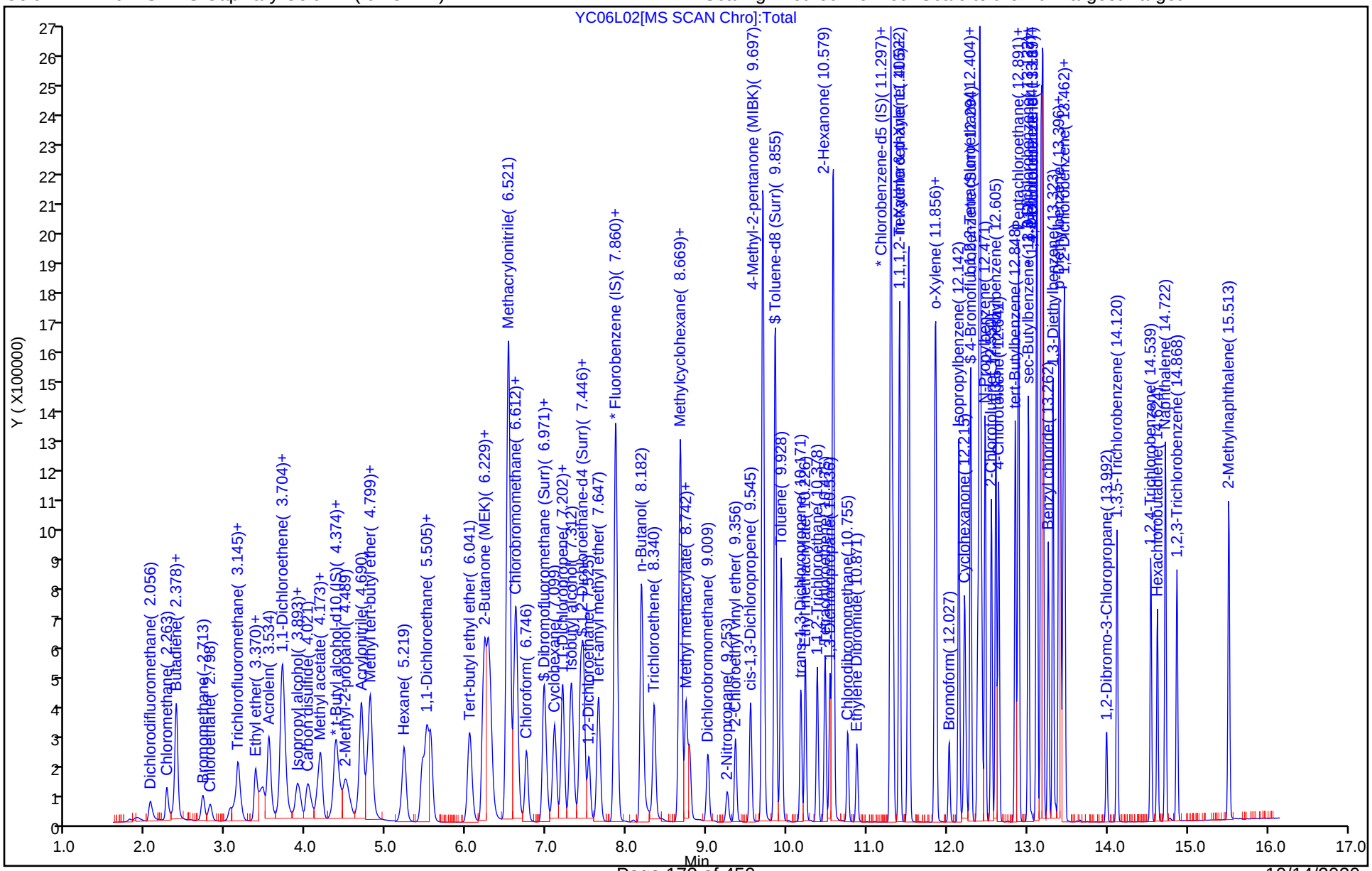
Report Date: 07-Oct-2020 01:12:22 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20201006-12206.b\YC06L02.D

Injection Date:	06-Oct-2020 19:23:30	Instrument ID:	9355	Operator ID:	ljg30941
Lims ID:	LCSD			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSVoa_9355	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.: 410-15639-1

SDG No.:

Instrument ID: 9355 Start Date: 09/21/2020 13:28

Analysis Batch Number: 46013 End Date: 09/21/2020 17:00

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-46013/1		09/21/2020 13:28	1	Ys21T01.D	R-624SilMS 30m 0.25(mm)
IC 410-46013/3		09/21/2020 14:04	1	Ys21I01.D	R-624SilMS 30m 0.25(mm)
IC 410-46013/4		09/21/2020 14:26	1	Ys21I02.D	R-624SilMS 30m 0.25(mm)
ICIS 410-46013/5		09/21/2020 14:48	1	Ys21I03.D	R-624SilMS 30m 0.25(mm)
IC 410-46013/6		09/21/2020 15:10	1	Ys21I04.D	R-624SilMS 30m 0.25(mm)
IC 410-46013/7		09/21/2020 15:32	1	Ys21I05.D	R-624SilMS 30m 0.25(mm)
IC 410-46013/8		09/21/2020 15:53	1	Ys21I06.D	R-624SilMS 30m 0.25(mm)
IC 410-46013/9		09/21/2020 16:16	1	Ys21I07.D	R-624SilMS 30m 0.25(mm)
ICV 410-46013/11		09/21/2020 17:00	1	Ys21v01.D	R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1

SDG No.:

Instrument ID: 9355 Start Date: 10/06/2020 17:54

Analysis Batch Number: 51457 End Date: 10/07/2020 04:57

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-51457/1		10/06/2020 17:54	1	YC06T01.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-51457/3		10/06/2020 18:39	1	YC06C01.D	R-624SilMS 30m 0.25(mm)
LCS 410-51457/4		10/06/2020 19:01	1	YC06L01.D	R-624SilMS 30m 0.25(mm)
LCSD 410-51457/5		10/06/2020 19:23	1	YC06L02.D	R-624SilMS 30m 0.25(mm)
MB 410-51457/7		10/06/2020 20:08	1	YC06B01.D	R-624SilMS 30m 0.25(mm)
410-15639-5	TB-20200930	10/06/2020 20:52	1	YC06S01.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		10/06/2020 21:14	1		R-624SilMS 30m 0.25(mm)
410-15639-1	MW-11D-20200930	10/06/2020 21:36	1	YC06S03.D	R-624SilMS 30m 0.25(mm)
410-15639-4	MW-13D-20200930	10/06/2020 21:58	1	YC06S04.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		10/06/2020 22:20	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/07/2020 00:09	10		R-624SilMS 30m 0.25(mm)
410-15639-2	MW-3-20200930	10/07/2020 01:59	1	YC06S15.D	R-624SilMS 30m 0.25(mm)
410-15639-3	MW-13S-20200930	10/07/2020 02:44	1	YC06S17.D	R-624SilMS 30m 0.25(mm)
410-15639-6	DUP-20200930	10/07/2020 03:28	1	YC06S19.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		10/07/2020 04:12	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/07/2020 04:57	2		R-624SilMS 30m 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-15639-1

SDG No.:

Batch Number: 46013 Batch Start Date: 09/21/20 13:28 Batch Analyst: Campbell, Miranda E

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MSV_4ppbEE 00085	MSV_DCFM 00022	MSV_HP20_ISSS 00025	MSV_Q_EE 00002
BFB 410-46013/1		8260C		1 uL	1 uL				
IC 410-46013/3		8260C		5 mL	5 mL		7.5 uL	1 uL	
IC 410-46013/4		8260C		5 mL	5 mL		2.5 uL	1 uL	
ICIS 410-46013/5		8260C		5 mL	5 mL		2.5 uL	1 uL	
IC 410-46013/6		8260C		5 mL	5 mL		2 uL	1 uL	
IC 410-46013/7		8260C		5 mL	5 mL		1 uL	1 uL	
IC 410-46013/8		8260C		5 mL	5 mL		2 uL	1 uL	
IC 410-46013/9		8260C		5 mL	5 mL	12.5 mL		1 uL	
ICV 410-46013/11		8260C		5 mL	5 mL			1 uL	50 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_Q_QARC 00046	MSV_Q_QDCFM 00004	MSV_Q_QGases 00088	MSV_Q_QVOA1 00047	MSV_Q_QVOA6 00044	MSV_QCYC 00004
BFB 410-46013/1		8260C							
IC 410-46013/3		8260C							
IC 410-46013/4		8260C							
ICIS 410-46013/5		8260C							
IC 410-46013/6		8260C							
IC 410-46013/7		8260C							
IC 410-46013/8		8260C							
IC 410-46013/9		8260C							
ICV 410-46013/11		8260C		50 uL	50 uL	50 uL	50 uL	50 uL	50 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_2CEVE 00106	MSV_V_BFB 00003	MSV_V_EE 00003	MSV_V_Gas 00146	MSV_V_VOA1 00094	MSV_V_VOA2 00050
BFB 410-46013/1		8260C			1 uL				
IC 410-46013/3		8260C		15 uL		15 uL	7.5 uL	15 uL	
IC 410-46013/4		8260C		5 uL		5 uL	2.5 uL	5 uL	
ICIS 410-46013/5		8260C		5 uL		5 uL	2.5 uL	5 uL	

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

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-15639-1

SDG No.:

Batch Number: 46013 Batch Start Date: 09/21/20 13:28 Batch Analyst: Campbell, Miranda E

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_2CEVE 00106	MSV_V_BFB 00003	MSV_V_EE 00003	MSV_V_Gas 00146	MSV_V_VOA1 00094	MSV_V_VOA2 00050
IC 410-46013/6		8260C		4 uL		4 uL	2 uL	4 uL	4 uL
IC 410-46013/7		8260C		2 uL		2 uL	1 uL	2 uL	2 uL
IC 410-46013/8		8260C		4 uL		4 uL	2 uL	4 uL	12 uL
IC 410-46013/9		8260C							
ICV 410-46013/11		8260C							

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_VOA3 00047	MSV_V_VOA6 00053	MSV_VCYC 00005			
BFB 410-46013/1		8260C							
IC 410-46013/3		8260C		6 uL	15 uL	30 uL			
IC 410-46013/4		8260C		2 uL	5 uL	10 uL			
ICIS 410-46013/5		8260C		2 uL	5 uL	10 uL			
IC 410-46013/6		8260C		1.6 uL	4 uL	16 uL			
IC 410-46013/7		8260C		0.8 uL	2 uL	8 uL			
IC 410-46013/8		8260C		1.6 uL	4 uL	32 uL			
IC 410-46013/9		8260C							
ICV 410-46013/11		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.: 410-15639-1

SDG No.:

Batch Number: 51457 Batch Start Date: 10/06/20 17:54 Batch Analyst: Mellinger, Corie M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	MSV_HP20_ISSS 00026
BFB 410-51457/1		8260C		1 uL	1 uL				
CCVIS 410-51457/3		8260C		5 mL	5 mL				1 uL
LCS 410-51457/4		8260C		5 mL	5 mL				1 uL
LCSD 410-51457/5		8260C		5 mL	5 mL				1 uL
MB 410-51457/7		8260C		5 mL	5 mL				1 uL
410-15639-A-5	TB-20200930	8260C	T	5 mL	5 mL	<2 SU	N	N	1 uL
410-15639-A-1	MW-11D-20200930	8260C	T	5 mL	5 mL	<2 SU	N	N	1 uL
410-15639-A-4	MW-13D-20200930	8260C	T	5 mL	5 mL	<2 SU	N	N	1 uL
410-15639-A-2	MW-3-20200930	8260C	T	5 mL	5 mL	<2 SU	N	N	1 uL
410-15639-A-3	MW-13S-20200930	8260C	T	5 mL	5 mL	<2 SU	N	N	1 uL
410-15639-A-6	DUP-20200930	8260C	T	5 mL	5 mL	<2 SU	N	N	1 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_Q_EE 00002	MSV_Q_QARC 00048	MSV_Q_QGases 00091	MSV_Q_QVOA1 00049	MSV_Q_QVOA6 00046	MSV_QCYC 00004
BFB 410-51457/1		8260C							
CCVIS 410-51457/3		8260C							
LCS 410-51457/4		8260C		50 uL	50 uL	50 uL	50 uL	50 uL	50 uL
LCSD 410-51457/5		8260C		50 uL	50 uL	50 uL	50 uL	50 uL	50 uL
MB 410-51457/7		8260C							
410-15639-A-5	TB-20200930	8260C	T						
410-15639-A-1	MW-11D-20200930	8260C	T						
410-15639-A-4	MW-13D-20200930	8260C	T						
410-15639-A-2	MW-3-20200930	8260C	T						
410-15639-A-3	MW-13S-20200930	8260C	T						
410-15639-A-6	DUP-20200930	8260C	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_2CEVE 00110	MSV_V_BFB 00003	MSV_V_EE 00003	MSV_V_Gas 00153	MSV_V_VOA1 00098	MSV_V_VOA3 00049
BFB 410-51457/1		8260C			1 uL				

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

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-15639-1

SDG No.:

Batch Number: 51457 Batch Start Date: 10/06/20 17:54 Batch Analyst: Mellinger, Corie M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_2CEVE 00110	MSV_V_BFB 00003	MSV_V_EE 00003	MSV_V_Gas 00153	MSV_V_VOA1 00098	MSV_V_VOA3 00049
CCVIS 410-51457/3		8260C		5 uL		5 uL	2.5 uL	5 uL	2 uL
LCS 410-51457/4		8260C							
LCSD 410-51457/5		8260C							
MB 410-51457/7		8260C							
410-15639-A-5	TB-20200930	8260C	T						
410-15639-A-1	MW-11D-20200930	8260C	T						
410-15639-A-4	MW-13D-20200930	8260C	T						
410-15639-A-2	MW-3-20200930	8260C	T						
410-15639-A-3	MW-13S-20200930	8260C	T						
410-15639-A-6	DUP-20200930	8260C	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_VOA6 00055	MSV_VCYC 00005				
BFB 410-51457/1		8260C							
CCVIS 410-51457/3		8260C		5 uL	10 uL				
LCS 410-51457/4		8260C							
LCSD 410-51457/5		8260C							
MB 410-51457/7		8260C							
410-15639-A-5	TB-20200930	8260C	T						
410-15639-A-1	MW-11D-20200930	8260C	T						
410-15639-A-4	MW-13D-20200930	8260C	T						
410-15639-A-2	MW-3-20200930	8260C	T						
410-15639-A-3	MW-13S-20200930	8260C	T						
410-15639-A-6	DUP-20200930	8260C	T						

Batch Notes	

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.: 410-15639-1

SDG No.:

Batch Number: 51457 Batch Start Date: 10/06/20 17:54 Batch Analyst: Mellinger, Corie M

Batch Method: 8260C Batch End Date:

Basis	Basis Description
T	Total/NA

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

Method 8270D

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

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-15639-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-5MS 20m ID: 0.18(mm)

Client Sample ID	Lab Sample ID	NBZ #	FBP #	TPHd14 #
MW-11D-20200930	410-15639-1	87	75	56
MW-3-20200930	410-15639-2	85	73	77
MW-3-20200930 DL	410-15639-2 DL	83	70	69
MW-13S-20200930	410-15639-3	85	74	68
MW-13S-20200930 DL	410-15639-3 DL	77	74	69
MW-13D-20200930	410-15639-4	81	71	62
DUP-20200930	410-15639-6	90	76	72
DUP-20200930 DL	410-15639-6 DL	85	75	66
	MB 410-51208/1-A	88	73	74
	LCS 410-51208/2-A	95	83	81
	LCSD 410-51208/3-A	95	83	82

	QC LIMITS
NBZ = Nitrobenzene-d5 (Surr)	38-113
FBP = 2-Fluorobiphenyl (Surr)	44-102
TPHd14 = p-Terphenyl-d14 (Surr)	34-128

Column to be used to flag recovery values

FORM II 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-15639-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LJ0153.D

Lab ID: LCS 410-51208/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	50.1	43.8	87	52-114	
Acenaphthylene	50.2	45.1	90	56-127	
Anthracene	50.1	46.0	92	67-116	
Benzo[a]anthracene	50.0	48.2	96	68-123	
Benzo[a]pyrene	50.2	44.4	88	71-117	
Benzo[b]fluoranthene	50.1	44.5	89	69-121	
Benzo[g,h,i]perylene	50.1	48.9	98	60-119	
Benzo[k]fluoranthene	50.1	45.2	90	69-122	
Chrysene	50.0	44.3	89	65-121	
Dibenz(a,h)anthracene	50.2	49.7	99	63-128	
Fluoranthene	50.1	47.1	94	63-122	
Fluorene	50.1	44.5	89	56-115	
Indeno[1,2,3-cd]pyrene	50.2	47.5	95	59-123	
Naphthalene	50.4	40.1	80	51-102	
Phenanthrene	50.2	47.9	95	65-113	
Pyrene	50.4	45.8	91	65-115	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-15639-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LJ0154.D

Lab ID: LCSD 410-51208/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	50.1	41.4	83	6	30	52-114	
Acenaphthylene	50.2	42.4	85	6	30	56-127	
Anthracene	50.1	43.8	87	5	30	67-116	
Benzo[a]anthracene	50.0	46.0	92	5	30	68-123	
Benzo[a]pyrene	50.2	42.8	85	4	30	71-117	
Benzo[b]fluoranthene	50.1	42.8	85	4	30	69-121	
Benzo[g,h,i]perylene	50.1	47.1	94	4	30	60-119	
Benzo[k]fluoranthene	50.1	43.4	87	4	30	69-122	
Chrysene	50.0	43.3	87	2	30	65-121	
Dibenz(a,h)anthracene	50.2	48.4	96	3	30	63-128	
Fluoranthene	50.1	45.0	90	5	30	63-122	
Fluorene	50.1	41.6	83	7	30	56-115	
Indeno[1,2,3-cd]pyrene	50.2	45.8	91	4	30	59-123	
Naphthalene	50.4	37.8	75	6	30	51-102	
Phenanthrene	50.2	45.1	90	6	30	65-113	
Pyrene	50.4	42.8	85	7	30	65-115	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-15639-1

SDG No.:

Lab File ID: LJ0152.D Lab Sample ID: MB 410-51208/1-A

Matrix: Water Date Extracted: 10/06/2020 09:00

Instrument ID: HP20296 Date Analyzed: 10/06/2020 19:02

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-51208/2-A	LJ0153.D	10/06/2020 19:31
	LCSD 410-51208/3-A	LJ0154.D	10/06/2020 20:00
MW-11D-20200930	410-15639-1	LJ0170.D	10/07/2020 03:47
MW-3-20200930	410-15639-2	LJ0171.D	10/07/2020 04:16
MW-13S-20200930	410-15639-3	LJ0172.D	10/07/2020 04:45
MW-13D-20200930	410-15639-4	LJ0173.D	10/07/2020 05:14
DUP-20200930	410-15639-6	LJ0174.D	10/07/2020 05:43
MW-3-20200930 DL	410-15639-2 DL	LJ0193.D	10/07/2020 15:09
MW-13S-20200930 DL	410-15639-3 DL	LJ0194.D	10/07/2020 15:38
DUP-20200930 DL	410-15639-6 DL	LJ0205.D	10/07/2020 19:06

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15639-1

SDG No.:

Lab File ID: LG0650z.D DFTPP Injection Date: 07/15/2020

Instrument ID: HP20296 DFTPP Injection Time: 12:42

Analysis Batch No.: 22758

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	46.1	
68	Less than 2% of mass 69	0.7	(1.2) 1
69	Mass 69 Relative abundance	59.4	
70	Less than 2% of mass 69	0.3	(0.5) 1
127	10-80% of Base Peak	59.8	
197	Less than 2% of mass 198	0.3	
198	Base peak	100.0	
199	5-9% of mass 198	7.1	
275	10-60% of Base Peak	22.6	
365	Greater than 1% of mass 198	3.3	
441	present but less than 24% of mass 442	13.3	(16.4) 2
442	Greater than 50% of mass 198	81.3	
443	15-24% of mass 442	15.7	(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
	ICIS 410-22758/2	LG0651.D	07/15/2020	13:18
	IC 410-22758/3	LG0652.D	07/15/2020	13:56
	IC 410-22758/4	LG0653.D	07/15/2020	14:26
	IC 410-22758/5	LG0654.D	07/15/2020	14:55
	IC 410-22758/6	LG0655.D	07/15/2020	15:24
	IC 410-22758/7	LG0656.D	07/15/2020	15:53
	IC 410-22758/8	LG0657.D	07/15/2020	16:22
	IC 410-22758/9	LG0658.D	07/15/2020	16:51
	ICV 410-22758/12	LG0661.D	07/15/2020	18:18
	ICV 410-22758/13	LG0662.D	07/15/2020	18:47
	ICV 410-22758/14	LG0663.D	07/15/2020	19:16
	ICV 410-22758/15	LG0664.D	07/15/2020	19:45

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15639-1

SDG No.:

Lab File ID: LJ0150.D DFTPP Injection Date: 10/06/2020

Instrument ID: HP20296 DFTPP Injection Time: 17:57

Analysis Batch No.: 51485

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	73.6	
68	Less than 2% of mass 69	1.2	(1.5) 1
69	Mass 69 Relative abundance	79.6	
70	Less than 2% of mass 69	0.6	(0.7) 1
127	10-80% of Base Peak	64.6	
197	Less than 2% of mass 198	0.9	
198	Base peak	100.0	
199	5-9% of mass 198	5.8	
275	10-60% of Base Peak	21.7	
365	Greater than 1% of mass 198	3.5	
441	present but less than 24% of mass 442	13.7	(17.7) 2
442	Greater than 50% of mass 198	77.4	
443	15-24% of mass 442	15.0	(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 410-51485/2	LJ0151.D	10/06/2020	18:15
	MB 410-51208/1-A	LJ0152.D	10/06/2020	19:02
	LCS 410-51208/2-A	LJ0153.D	10/06/2020	19:31
	LCSD 410-51208/3-A	LJ0154.D	10/06/2020	20:00
MW-11D-20200930	410-15639-1	LJ0170.D	10/07/2020	3:47
MW-3-20200930	410-15639-2	LJ0171.D	10/07/2020	4:16
MW-13S-20200930	410-15639-3	LJ0172.D	10/07/2020	4:45
MW-13D-20200930	410-15639-4	LJ0173.D	10/07/2020	5:14
DUP-20200930	410-15639-6	LJ0174.D	10/07/2020	5:43

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15639-1

SDG No.:

Lab File ID: LJ0180.D DFTPP Injection Date: 10/07/2020

Instrument ID: HP20296 DFTPP Injection Time: 08:05

Analysis Batch No.: 51653

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	76.3	
68	Less than 2% of mass 69	0.9	(1.1) 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	69.8	
197	Less than 2% of mass 198	1.7	
198	Base peak	100.0	
199	5-9% of mass 198	6.5	
275	10-60% of Base Peak	22.4	
365	Greater than 1% of mass 198	3.8	
441	present but less than 24% of mass 442	14.7	(16.9) 2
442	Greater than 50% of mass 198	86.9	
443	15-24% of mass 442	16.0	(18.4) 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 410-51653/2	LJ0181.D	10/07/2020	8:26
MW-3-20200930 DL	410-15639-2 DL	LJ0193.D	10/07/2020	15:09
MW-13S-20200930 DL	410-15639-3 DL	LJ0194.D	10/07/2020	15:38

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15639-1

SDG No.:

Lab File ID: LJ0200.D DFTPP Injection Date: 10/07/2020

Instrument ID: HP20296 DFTPP Injection Time: 16:35

Analysis Batch No.: 51967

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	73.4	
68	Less than 2% of mass 69	1.1	(1.4) 1
69	Mass 69 Relative abundance	76.1	
70	Less than 2% of mass 69	0.4	(0.5) 1
127	10-80% of Base Peak	64.9	
197	Less than 2% of mass 198	1.8	
198	Base peak	100.0	
199	5-9% of mass 198	5.9	
275	10-60% of Base Peak	24.2	
365	Greater than 1% of mass 198	3.0	
441	present but less than 24% of mass 442	13.7	(14.9) 2
442	Greater than 50% of mass 198	91.7	
443	15-24% of mass 442	16.7	(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
	CCVIS 410-51967/2	LJ0201.D	10/07/2020	16:54
DUP-20200930 DL	410-15639-6 DL	LJ0205.D	10/07/2020	19:06

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15639-1

SDG No.:

Sample No.: ICIS 410-22758/2 Date Analyzed: 07/15/2020 13:18

Instrument ID: HP20296 GC Column: DB-5MS 20m 0.18 ID: 0.18(mm)

Lab File ID (Standard): LG0651.D Heated Purge: (Y/N) N

Calibration ID: 6917

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		192572	7.21	771902	9.20	358590	12.00
UPPER LIMIT		385144	7.71	1543804	9.70	717180	12.50
LOWER LIMIT		96286	6.71	385951	8.70	179295	11.50
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-22758/12		193397	7.22	836487	9.20	387619	12.00
ICV 410-22758/13		295463	7.22	1122270	9.20	551375	11.99
ICV 410-22758/14		195391	7.21	758466	9.19	357336	11.99
ICV 410-22758/15		183389	7.22	737925	9.20	340157	11.99
CCVIS 410-51485/2		140063	6.73	573269	8.71	251388	11.56
CCVIS 410-51653/2		138998	6.74	546305	8.71	232761	11.56
CCVIS 410-51967/2		140507	6.75	547887	8.73	225435	11.57

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

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

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15639-1

SDG No.:

Sample No.: ICIS 410-22758/2 Date Analyzed: 07/15/2020 13:18

Instrument ID: HP20296 GC Column: DB-5MS 20m 0.18 ID: 0.18(mm)

Lab File ID (Standard): LG0651.D Heated Purge: (Y/N) N

Calibration ID: 6917

		PHN		PYR10		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		664208	13.94	636876	16.02	612010	20.65
UPPER LIMIT		1328416	14.44	1273752	16.52	1224020	21.15
LOWER LIMIT		332104	13.44	318438	15.52	306005	20.15
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-22758/12		750735	13.94	722807	16.03	660190	20.65
ICV 410-22758/13		1035888	13.93	993477	16.02	942846	20.64
ICV 410-22758/14		638086	13.93	619595	16.02	591777	20.64
ICV 410-22758/15		632740	13.93	607127	16.02	562630	20.64
CCVIS 410-51485/2		421376	13.49	392333	15.49*3	388123	20.04*3
CCVIS 410-51653/2		397690	13.49	390228	15.50*3	402334	20.05*3
CCVIS 410-51967/2		392722	13.49	367544	15.50*3	399443	20.05*3

PHN = Phenanthrene-d10
PYR10 = Pyrene-d10 (IS)
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15639-1

SDG No.:

Sample No.: CCVIS 410-51485/2 Date Analyzed: 10/06/2020 18:15

Instrument ID: HP20296 GC Column: DB-5MS 20m 0.18 ID: 0.18(mm)

Lab File ID (Standard): LJ0151.D Heated Purge: (Y/N) N

Calibration ID: 11282

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		140063	6.73	573269	8.71	251388	11.56
UPPER LIMIT		280126	7.23	1146538	9.21	502776	12.06
LOWER LIMIT		70032	6.23	286635	8.21	125694	11.06
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-51208/1-A		126691	6.73	521919	8.71	217291	11.56
LCS 410-51208/2-A		139195	6.74	528675	8.71	225229	11.56
LCSD 410-51208/3-A		138310	6.74	532407	8.71	228536	11.56
410-15639-1	MW-11D-20200930	123234	6.74	507096	8.72	214822	11.56
410-15639-2	MW-3-20200930	123235	6.74	497066	8.71	212319	11.56
410-15639-3	MW-13S-20200930	126729	6.74	514665	8.71	221657	11.56
410-15639-4	MW-13D-20200930	131981	6.74	539152	8.71	225521	11.56
410-15639-6	DUP-20200930	129720	6.74	514021	8.72	212989	11.56

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

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

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15639-1

SDG No.:

Sample No.: CCVIS 410-51485/2 Date Analyzed: 10/06/2020 18:15

Instrument ID: HP20296 GC Column: DB-5MS 20m 0.18 ID: 0.18(mm)

Lab File ID (Standard): LJ0151.D Heated Purge: (Y/N) N

Calibration ID: 11282

		PHN		PYR10		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		421376	13.49	392333	15.49	388123	20.04
UPPER LIMIT		842752	13.99	784666	15.99	776246	20.54
LOWER LIMIT		210688	12.99	196167	14.99	194062	19.54
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-51208/1-A		373731	13.48	344639	15.49	335410	20.04
LCS 410-51208/2-A		383617	13.48	373104	15.49	377535	20.04
LCSD 410-51208/3-A		388149	13.48	374684	15.49	370912	20.04
410-15639-1	MW-11D-20200930	369824	13.49	351027	15.49	348953	20.04
410-15639-2	MW-3-20200930	365046	13.48	314520	15.49	359074	20.05
410-15639-3	MW-13S-20200930	394303	13.49	343262	15.49	368511	20.04
410-15639-4	MW-13D-20200930	402074	13.49	364251	15.49	366593	20.04
410-15639-6	DUP-20200930	379279	13.48	327309	15.49	387300	20.04

PHN = Phenanthrene-d10
PYR10 = Pyrene-d10 (IS)
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15639-1

SDG No.:

Sample No.: CCVIS 410-51653/2 Date Analyzed: 10/07/2020 08:26

Instrument ID: HP20296 GC Column: DB-5MS 20m 0.18 ID: 0.18(mm)

Lab File ID (Standard): LJ0181.D Heated Purge: (Y/N) N

Calibration ID: 11282

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		138998	6.74	546305	8.71	232761	11.56
UPPER LIMIT		277996	7.24	1092610	9.21	465522	12.06
LOWER LIMIT		69499	6.24	273153	8.21	116381	11.06
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-15639-2 DL	MW-3-20200930 DL	136109	6.75	531724	8.73	223589	11.56
410-15639-3 DL	MW-13S-20200930 DL	130706	6.75	539559	8.73	233597	11.57

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

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

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15639-1

SDG No.:

Sample No.: CCVIS 410-51653/2 Date Analyzed: 10/07/2020 08:26

Instrument ID: HP20296 GC Column: DB-5MS 20m 0.18 ID: 0.18(mm)

Lab File ID (Standard): LJ0181.D Heated Purge: (Y/N) N

Calibration ID: 11282

		PHN		PYR10		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		397690	13.49	390228	15.50	402334	20.05
UPPER LIMIT		795380	13.99	780456	16.00	804668	20.55
LOWER LIMIT		198845	12.99	195114	15.00	201167	19.55
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-15639-2 DL	MW-3-20200930 DL	377153	13.49	363243	15.50	398745	20.05
410-15639-3 DL	MW-13S-20200930 DL	390450	13.49	363834	15.50	399681	20.05

PHN = Phenanthrene-d10
PYR10 = Pyrene-d10 (IS)
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15639-1

SDG No.:

Sample No.: CCVIS 410-51967/2 Date Analyzed: 10/07/2020 16:54

Instrument ID: HP20296 GC Column: DB-5MS 20m 0.18 ID: 0.18(mm)

Lab File ID (Standard): LJ0201.D Heated Purge: (Y/N) N

Calibration ID: 11282

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		140507	6.75	547887	8.73	225435	11.57
UPPER LIMIT		281014	7.25	1095774	9.23	450870	12.07
LOWER LIMIT		70254	6.25	273944	8.23	112718	11.07
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-15639-6 DL	DUP-20200930 DL	133109	6.74	543971	8.72	227400	11.56

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

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

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15639-1

SDG No.:

Sample No.: CCVIS 410-51967/2 Date Analyzed: 10/07/2020 16:54

Instrument ID: HP20296 GC Column: DB-5MS 20m 0.18 ID: 0.18(mm)

Lab File ID (Standard): LJ0201.D Heated Purge: (Y/N) N

Calibration ID: 11282

		PHN		PYR10		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		392722	13.49	367544	15.50	399443	20.05
UPPER LIMIT		785444	13.99	735088	16.00	798886	20.55
LOWER LIMIT		196361	12.99	183772	15.00	199722	19.55
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-15639-6 DL	DUP-20200930 DL	385531	13.49	374667	15.50	383860	20.05

PHN = Phenanthrene-d10
PYR10 = Pyrene-d10 (IS)
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270D

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15639-1

SDG No.:

Client Sample ID: MW-11D-20200930 Lab Sample ID: 410-15639-1

Matrix: Ground Water Lab File ID: LJ0170.D

Analysis Method: 8270D Date Collected: 09/30/2020 08:25

Extract. Method: 3510C Date Extracted: 10/06/2020 09:00

Sample wt/vol: 243(mL) Date Analyzed: 10/07/2020 03:47

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.: 51485 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.51	0.10
208-96-8	Acenaphthylene	ND		0.51	0.10
120-12-7	Anthracene	ND		0.51	0.10
56-55-3	Benzo[a]anthracene	ND		0.51	0.10
50-32-8	Benzo[a]pyrene	ND		0.51	0.10
205-99-2	Benzo[b]fluoranthene	ND		0.51	0.10
191-24-2	Benzo[g,h,i]perylene	ND		0.51	0.10
207-08-9	Benzo[k]fluoranthene	ND		0.51	0.10
218-01-9	Chrysene	ND		0.51	0.10
53-70-3	Dibenz(a,h)anthracene	ND		0.51	0.10
206-44-0	Fluoranthene	ND		0.51	0.10
86-73-7	Fluorene	ND		0.51	0.10
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.51	0.10
91-20-3	Naphthalene	ND		0.51	0.10
85-01-8	Phenanthrene	ND		0.51	0.10
129-00-0	Pyrene	ND		0.51	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	75		44-102
4165-60-0	Nitrobenzene-d5 (Surr)	87		38-113
1718-51-0	p-Terphenyl-d14 (Surr)	56		34-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0170.D
Lims ID: 410-15639-D-1-A
Client ID: MW-11D-20200930
Sample Type: Client
Inject. Date: 07-Oct-2020 03:47:12 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-15639-D-1-A
Misc. Info.: 410-0012211-022
Operator ID: kel10217 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Oct-2020 14:36:36 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1017

First Level Reviewer: beckk Date: 07-Oct-2020 14:33:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 24 1,4-Dichlorobenzene-d4	152	6.736	6.730	0.006	95	123234	5.00	
$ 41 Nitrobenzene-d5	82	7.591	7.596	0.000	90	1116305	21.7	
* 55 Naphthalene-d8	136	8.715	8.709	0.006	98	507096	5.00	
56 Naphthalene	128		8.746				ND	7
$ 76 2-Fluorobiphenyl (Surr)	172	10.496	10.496	0.001	98	1272024	18.9	
90 Acenaphthylene	152		11.325				ND	
* 92 Acenaphthene-d10	164	11.555	11.555	0.001	96	214822	5.00	
93 Acenaphthene	153		11.603				ND	7
105 Fluorene	166		12.319				ND	
* 127 Phenanthrene-d10	188	13.486	13.485	0.001	96	369824	5.00	
129 Phenanthrene	178		13.512				ND	7
130 Anthracene	178		13.582				ND	7
138 Fluoranthene	202		15.176				ND	7
* 140 Pyrene-d10 (IS)	212	15.491	15.491	0.000	99	351027	5.00	
141 Pyrene	202		15.518				ND	7
$ 142 p-Terphenyl-d14	244	15.807	15.807	0.000	96	886582	14.0	
149 Benzo[a]anthracene	228		17.545				ND	7
151 Chrysene	228		17.609				ND	7
155 Benzo[b]fluoranthene	252		19.422				ND	7
157 Benzo[k]fluoranthene	252		19.465				ND	U
158 Benzo[a]pyrene	252		19.952				ND	U
* 159 Perylene-d12	264	20.043	20.043	0.000	96	348953	5.00	
163 Indeno[1,2,3-cd]pyrene	276		21.669				ND	7
164 Dibenz(a,h)anthracene	278		21.706				ND	7
165 Benzo[g,h,i]perylene	276		22.059				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
U - Marked Undetected

Reagents:

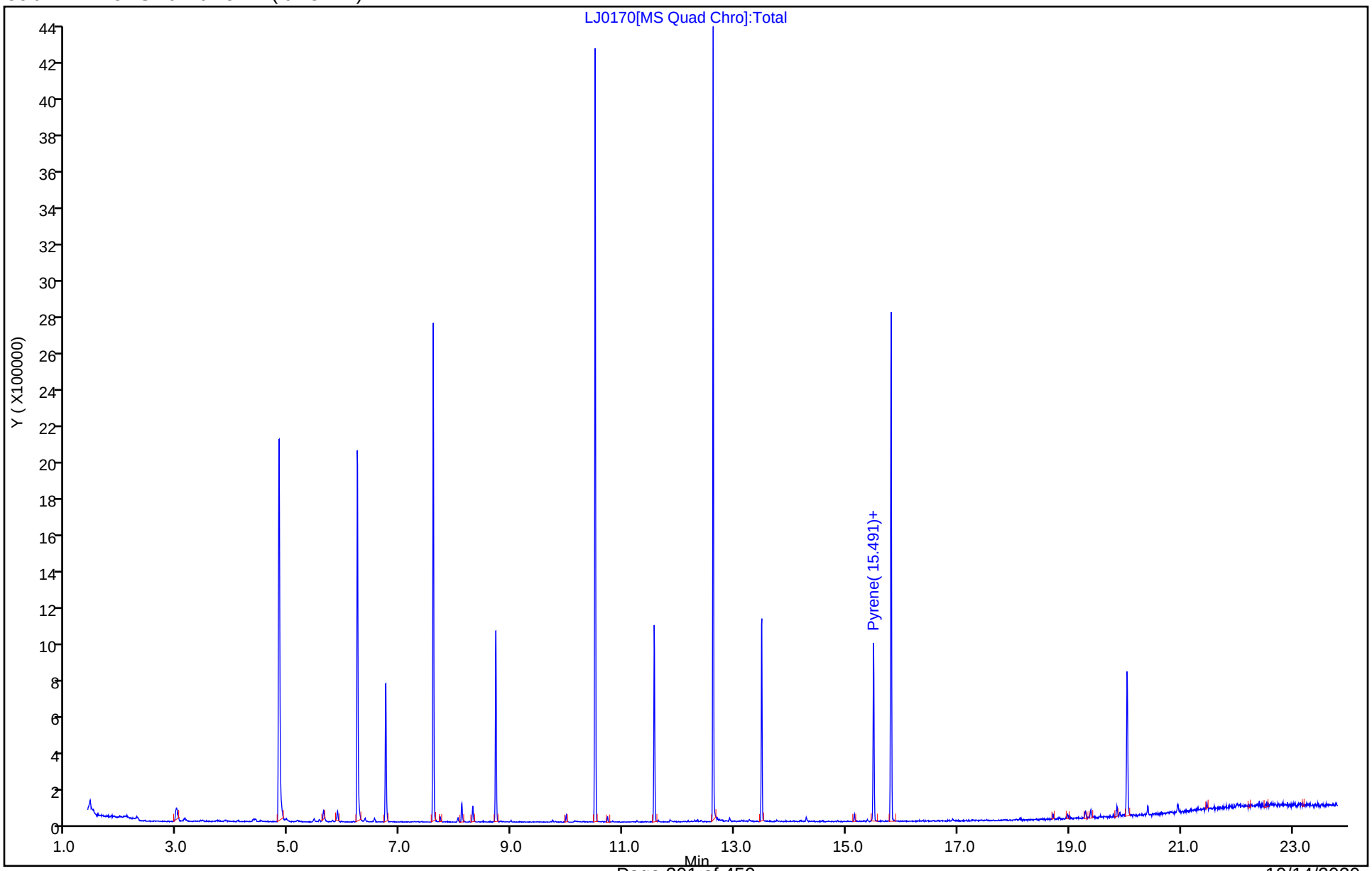
MSS_RV8270_IS_00013 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 07-Oct-2020 14:41:16 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0170.D				
Injection Date:	07-Oct-2020 03:47:12	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	410-15639-D-1-A	Lab Sample ID:	410-15639-1	Worklist Smp#:	22
Client ID:	MW-11D-20200930				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



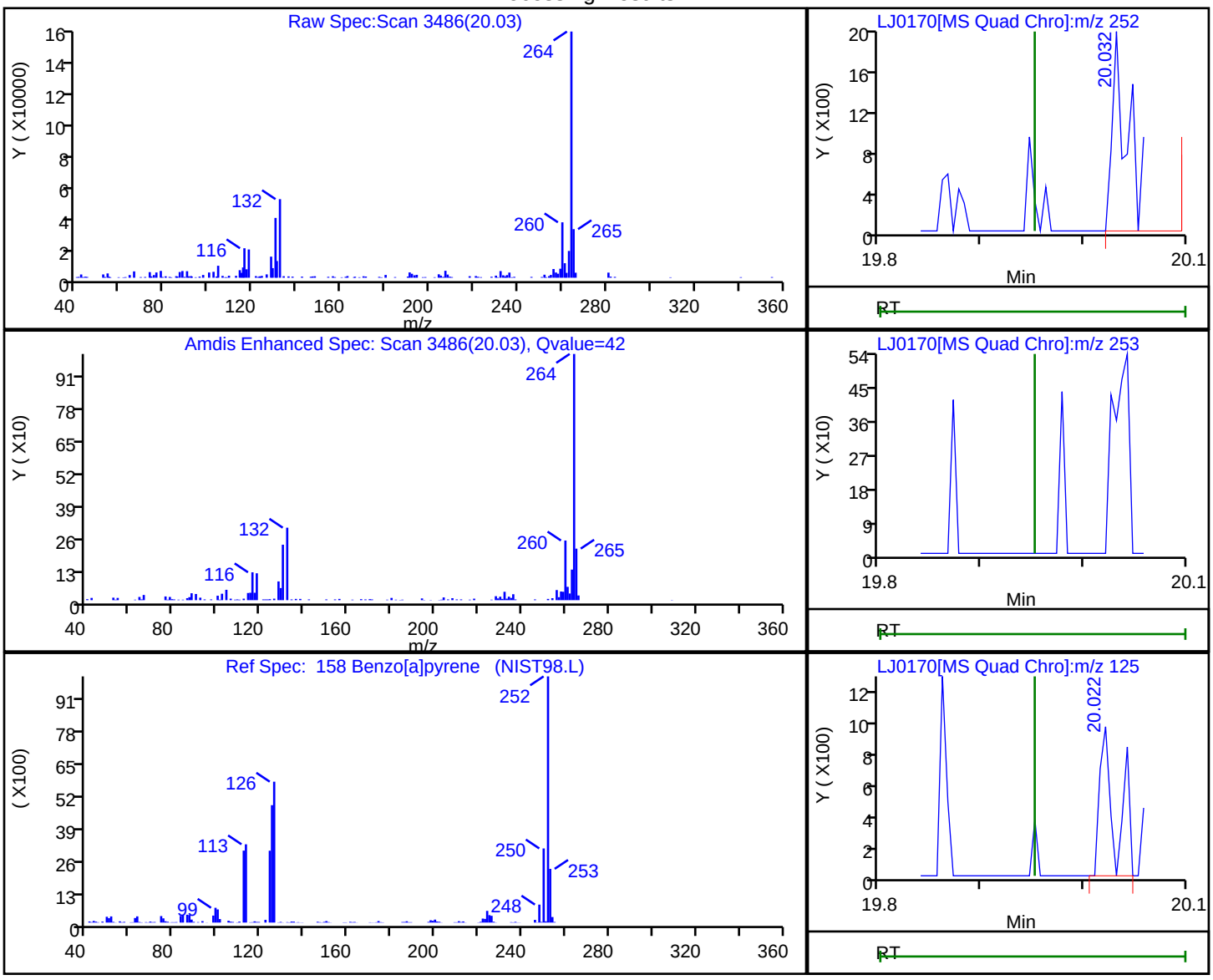
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0170.D				
Injection Date:	07-Oct-2020 03:47:12	Instrument ID:	HP20296		
Lims ID:	410-15639-D-1-A	Lab Sample ID:	410-15639-1		
Client ID:	MW-11D-20200930				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

158 Benzo[a]pyrene, CAS: 50-32-8

Processing Results



RT	Mass	Response	Amount
20.03	252.00	2255	0.027110
20.04	253.00	691	
20.02	125.00	1040	

Reviewer: beckk, 07-Oct-2020 14:33:04

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

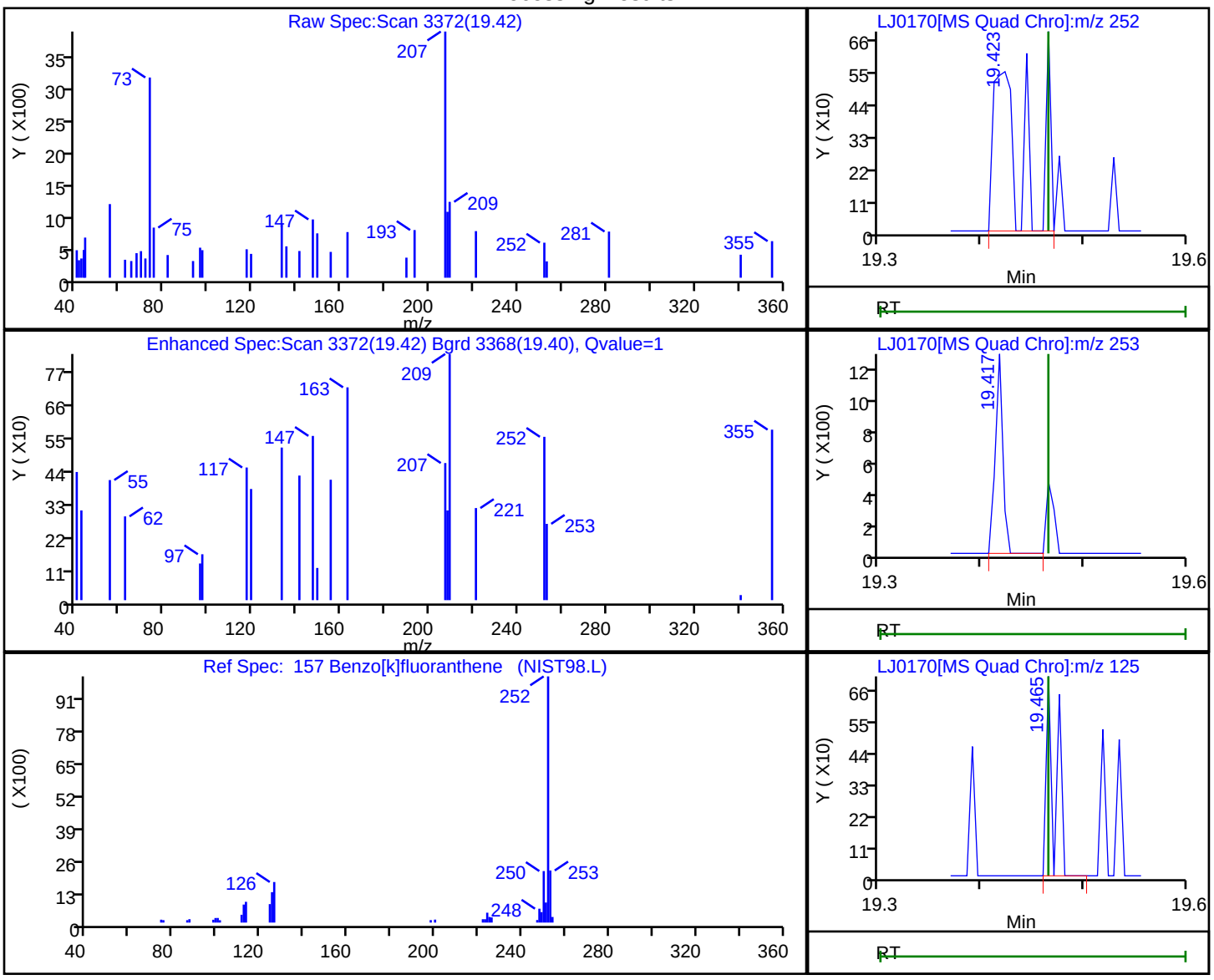
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0170.D				
Injection Date:	07-Oct-2020 03:47:12	Instrument ID:	HP20296		
Lims ID:	410-15639-D-1-A	Lab Sample ID:	410-15639-1		
Client ID:	MW-11D-20200930				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

157 Benzo[k]fluoranthene, CAS: 207-08-9

Processing Results



RT	Mass	Response	Amount
19.42	252.00	1084	0.012636
19.42	253.00	615	
19.47	125.00	432	

Reviewer: beckk, 07-Oct-2020 14:33:01

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.: 410-15639-1

SDG No.:

Client Sample ID: MW-3-20200930 Lab Sample ID: 410-15639-2

Matrix: Ground Water Lab File ID: LJ0171.D

Analysis Method: 8270D Date Collected: 09/30/2020 09:16

Extract. Method: 3510C Date Extracted: 10/06/2020 09:00

Sample wt/vol: 246(mL) Date Analyzed: 10/07/2020 04:16

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 51485 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	46		0.51	0.10
208-96-8	Acenaphthylene	7.7		0.51	0.10
120-12-7	Anthracene	1.7		0.51	0.10
56-55-3	Benzo[a]anthracene	4.8		0.51	0.10
50-32-8	Benzo[a]pyrene	ND		0.51	0.10
205-99-2	Benzo[b]fluoranthene	ND		0.51	0.10
191-24-2	Benzo[g,h,i]perylene	ND		0.51	0.10
207-08-9	Benzo[k]fluoranthene	ND		0.51	0.10
218-01-9	Chrysene	3.1		0.51	0.10
53-70-3	Dibenz(a,h)anthracene	ND		0.51	0.10
206-44-0	Fluoranthene	23		0.51	0.10
86-73-7	Fluorene	9.7		0.51	0.10
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.51	0.10
85-01-8	Phenanthrene	5.4		0.51	0.10
129-00-0	Pyrene	35		0.51	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	73		44-102
4165-60-0	Nitrobenzene-d5 (Surr)	85		38-113
1718-51-0	p-Terphenyl-d14 (Surr)	77		34-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0171.D
Lims ID: 410-15639-D-2-A
Client ID: MW-3-20200930
Sample Type: Client
Inject. Date: 07-Oct-2020 04:16:12 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-15639-D-2-A
Misc. Info.: 410-0012211-023
Operator ID: kel10217 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Oct-2020 14:36:36 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1017

First Level Reviewer: beckk Date: 07-Oct-2020 09:23:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 24 1,4-Dichlorobenzene-d4	152	6.735	6.730	0.005	94	123235	5.00	
$ 41 Nitrobenzene-d5	82	7.591	7.596	0.000	91	1065893	21.2	
* 55 Naphthalene-d8	136	8.714	8.709	0.005	99	497066	5.00	
56 Naphthalene	128	8.752	8.747	0.006	99	5680029	50.5	E
$ 76 2-Fluorobiphenyl (Surr)	172	10.496	10.496	0.001	99	1216855	18.3	
90 Acenaphthylene	152	11.325	11.325	0.000	98	164107	1.89	M
* 92 Acenaphthene-d10	164	11.555	11.555	0.001	95	212319	5.00	
93 Acenaphthene	153	11.603	11.603	0.000	99	720549	11.2	
105 Fluorene	166	12.319	12.320	0.000	92	160248	2.39	
* 127 Phenanthrene-d10	188	13.480	13.485	-0.005	96	365046	5.00	
129 Phenanthrene	178	13.512	13.512	0.000	98	118375	1.33	
130 Anthracene	178	13.582	13.582	0.000	94	37056	0.4116	
138 Fluoranthene	202	15.176	15.176	0.000	99	514263	5.63	
* 140 Pyrene-d10 (IS)	212	15.491	15.491	0.000	97	314520	5.00	
141 Pyrene	202	15.523	15.518	0.005	96	756114	8.65	
$ 142 p-Terphenyl-d14	244	15.807	15.807	0.000	96	1095198	19.3	
149 Benzo[a]anthracene	228	17.545	17.545	0.000	98	85624	1.18	
151 Chrysene	228	17.604	17.609	-0.005	95	56346	0.7728	
155 Benzo[b]fluoranthene	252		19.422				ND	7
157 Benzo[k]fluoranthene	252		19.465				ND	7
158 Benzo[a]pyrene	252		19.952				ND	U
* 159 Perylene-d12	264	20.048	20.043	0.005	96	359074	5.00	
163 Indeno[1,2,3-cd]pyrene	276		21.669				ND	
164 Dibenz(a,h)anthracene	278		21.706				ND	7
165 Benzo[g,h,i]perylene	276		22.059				ND	7

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

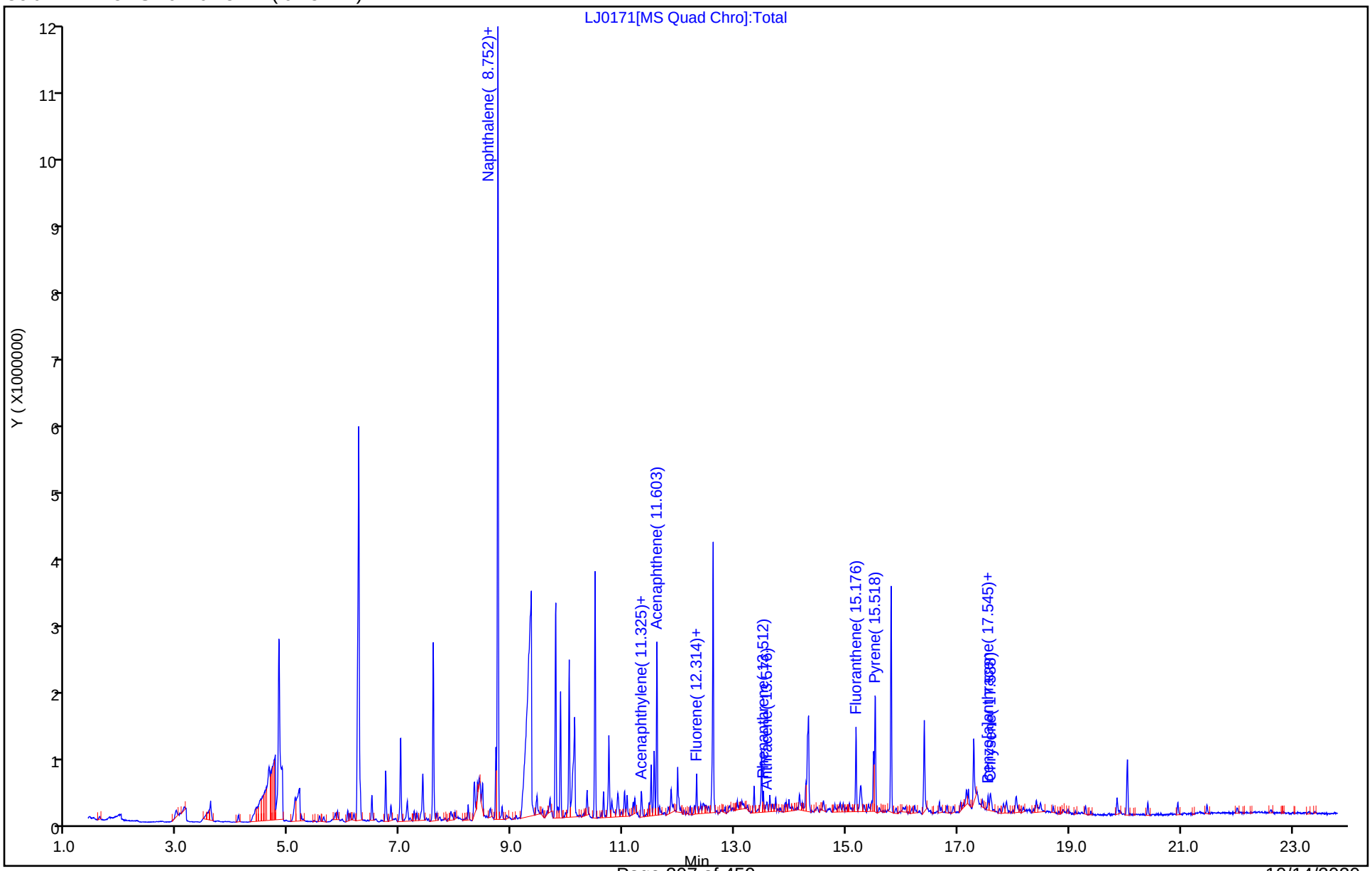
MSS_RV8270_IS_00013 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 07-Oct-2020 14:41:21 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0171.D				
Injection Date:	07-Oct-2020 04:16:12	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	410-15639-D-2-A	Lab Sample ID:	410-15639-2	Worklist Smp#:	23
Client ID:	MW-3-20200930				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



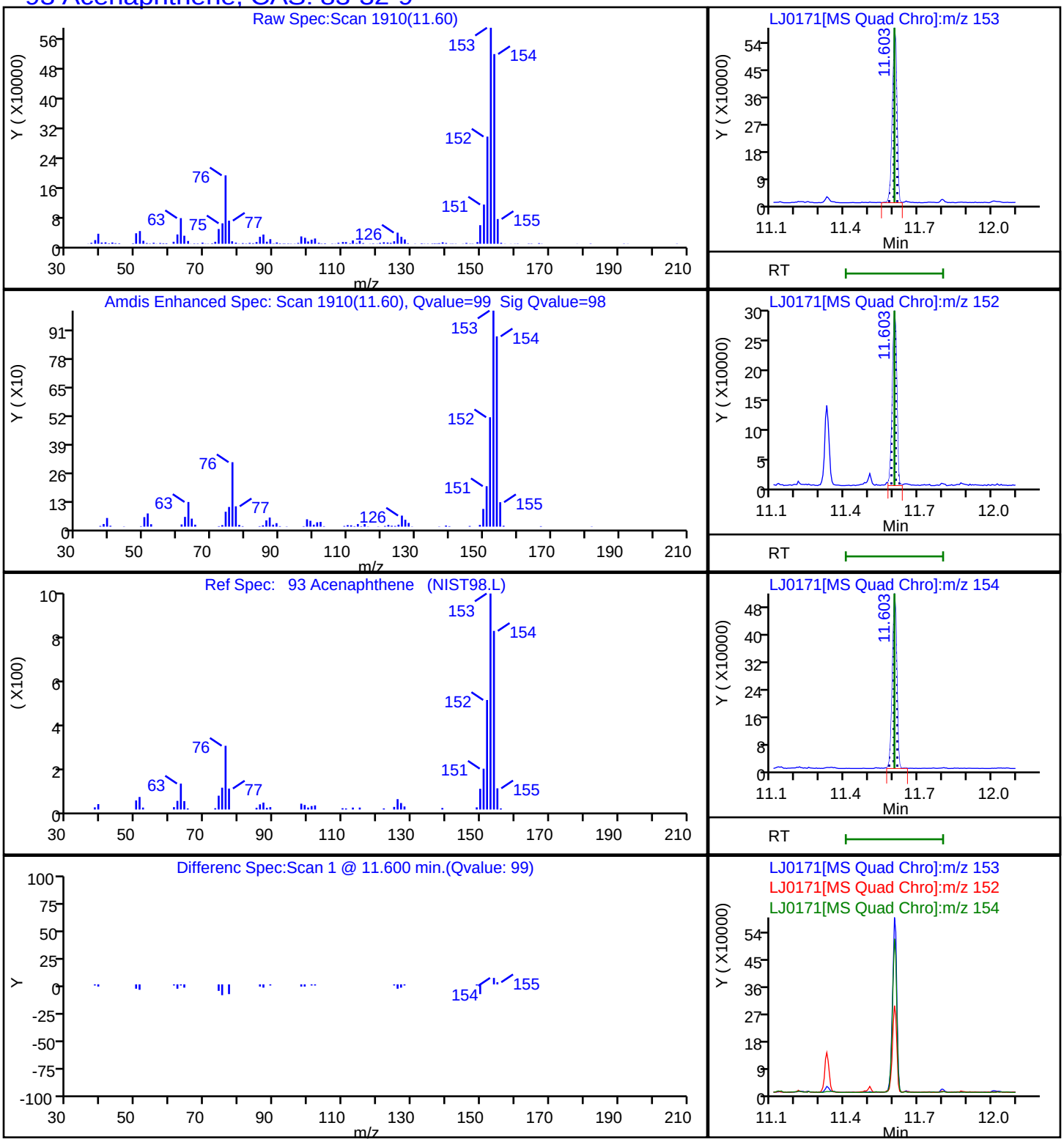
Report Date: 07-Oct-2020 14:41:21 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0171.D

Injection Date:	07-Oct-2020 04:16:12	Instrument ID:	HP20296		
Lims ID:	410-15639-D-2-A	Lab Sample ID:	410-15639-2		
Client ID:	MW-3-20200930				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

93 Acenaphthene, CAS: 83-32-9



Report Date: 07-Oct-2020 14:41:21 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0171.D

Injection Date: 07-Oct-2020 04:16:12 Instrument ID: HP20296

Lims ID: 410-15639-D-2-A Lab Sample ID: 410-15639-2

Client ID: MW-3-20200930

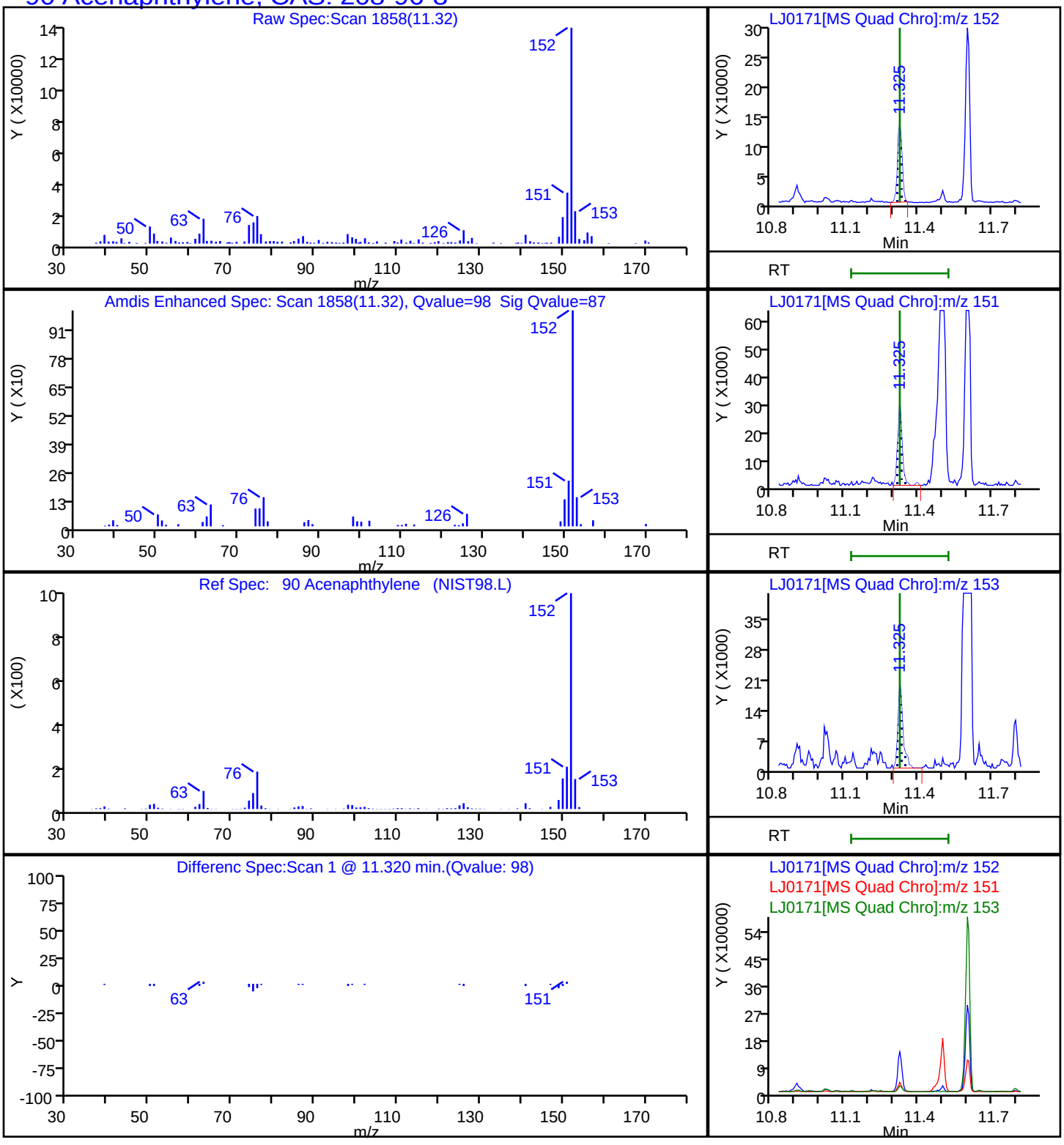
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 23

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

90 Acenaphthylene, CAS: 208-96-8

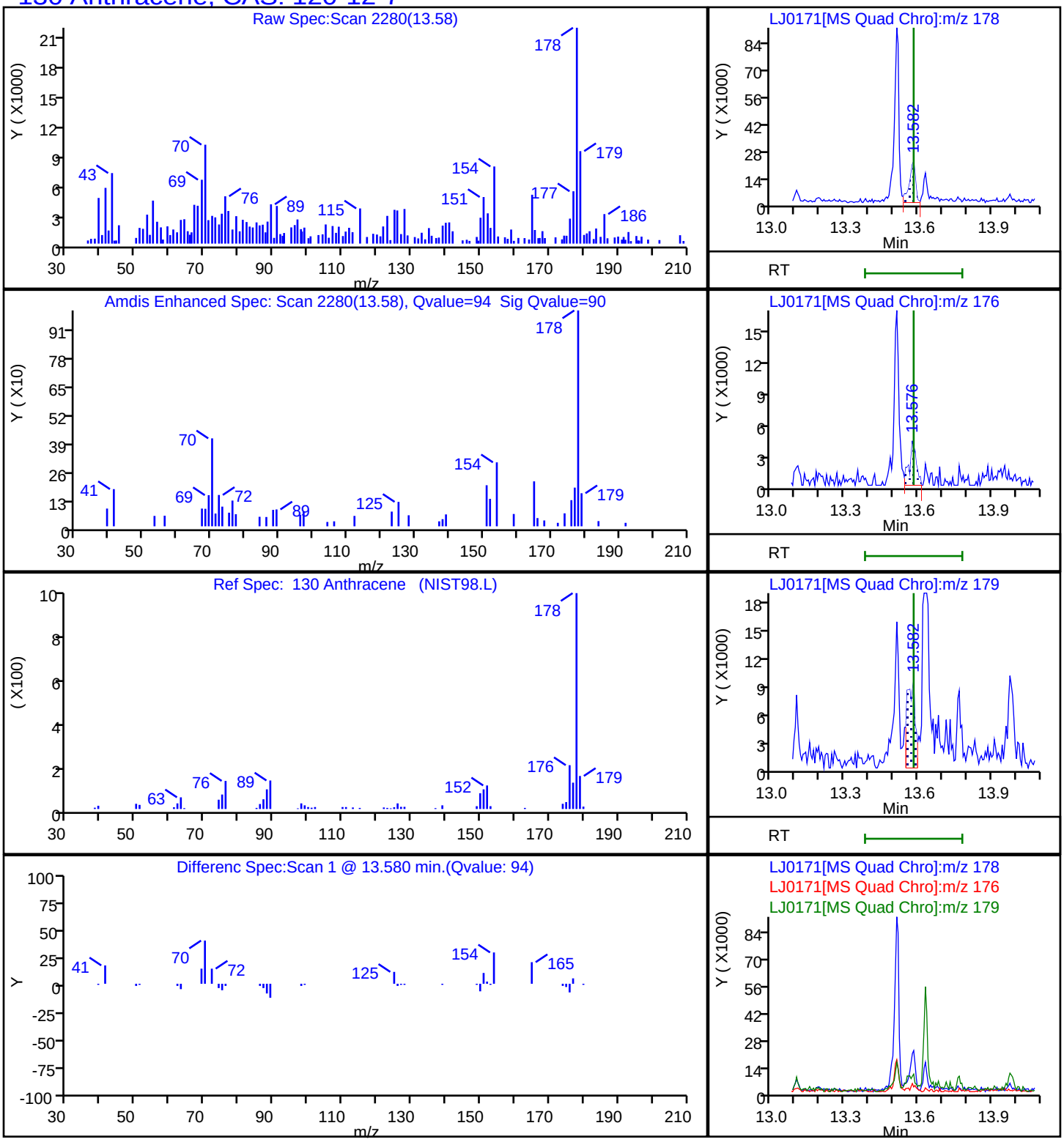


Report Date: 07-Oct-2020 14:41:22 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0171.D				
Injection Date:	07-Oct-2020 04:16:12	Instrument ID:	HP20296		
Lims ID:	410-15639-D-2-A	Lab Sample ID:	410-15639-2		
Client ID:	MW-3-20200930				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

130 Anthracene, CAS: 120-12-7



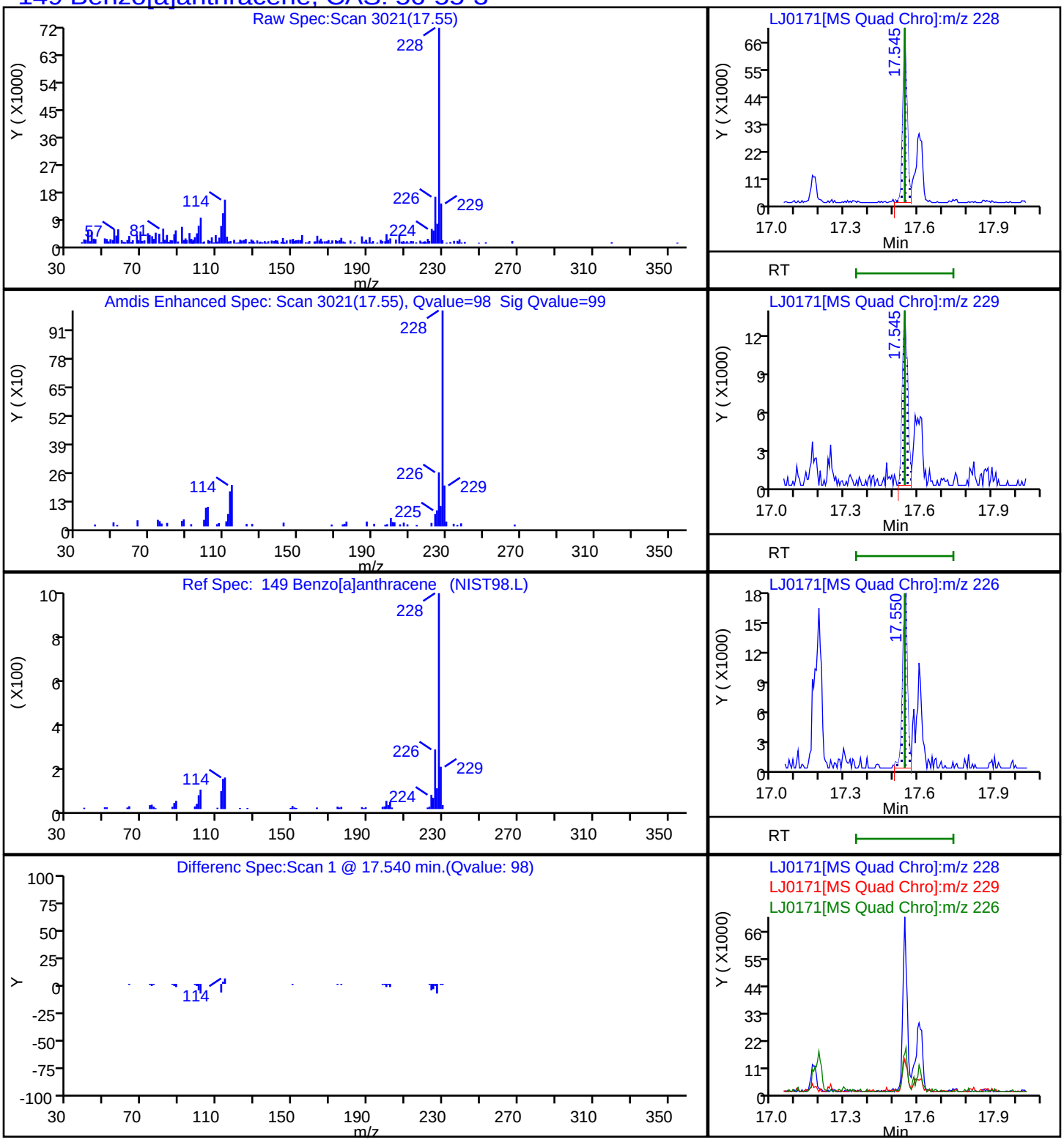
Report Date: 07-Oct-2020 14:41:22 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0171.D

Injection Date:	07-Oct-2020 04:16:12	Instrument ID:	HP20296		
Lims ID:	410-15639-D-2-A	Lab Sample ID:	410-15639-2		
Client ID:	MW-3-20200930				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

149 Benzo[a]anthracene, CAS: 56-55-3



Report Date: 07-Oct-2020 14:41:22 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0171.D

Injection Date: 07-Oct-2020 04:16:12 Instrument ID: HP20296

Lims ID: 410-15639-D-2-A Lab Sample ID: 410-15639-2

Client ID: MW-3-20200930

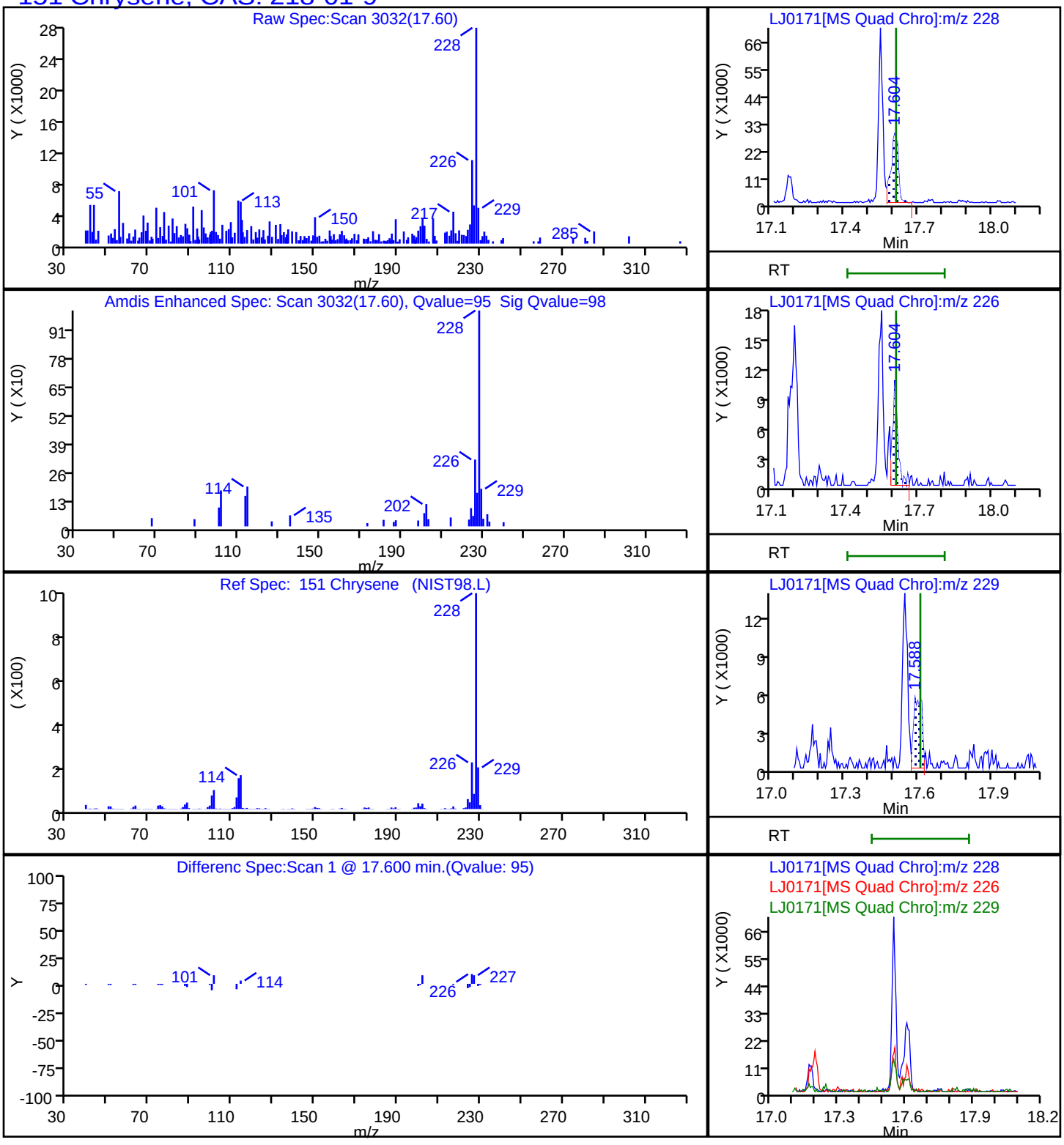
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 23

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

151 Chrysene, CAS: 218-01-9



Report Date: 07-Oct-2020 14:41:22 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0171.D

Injection Date: 07-Oct-2020 04:16:12 Instrument ID: HP20296

Lims ID: 410-15639-D-2-A Lab Sample ID: 410-15639-2

Client ID: MW-3-20200930

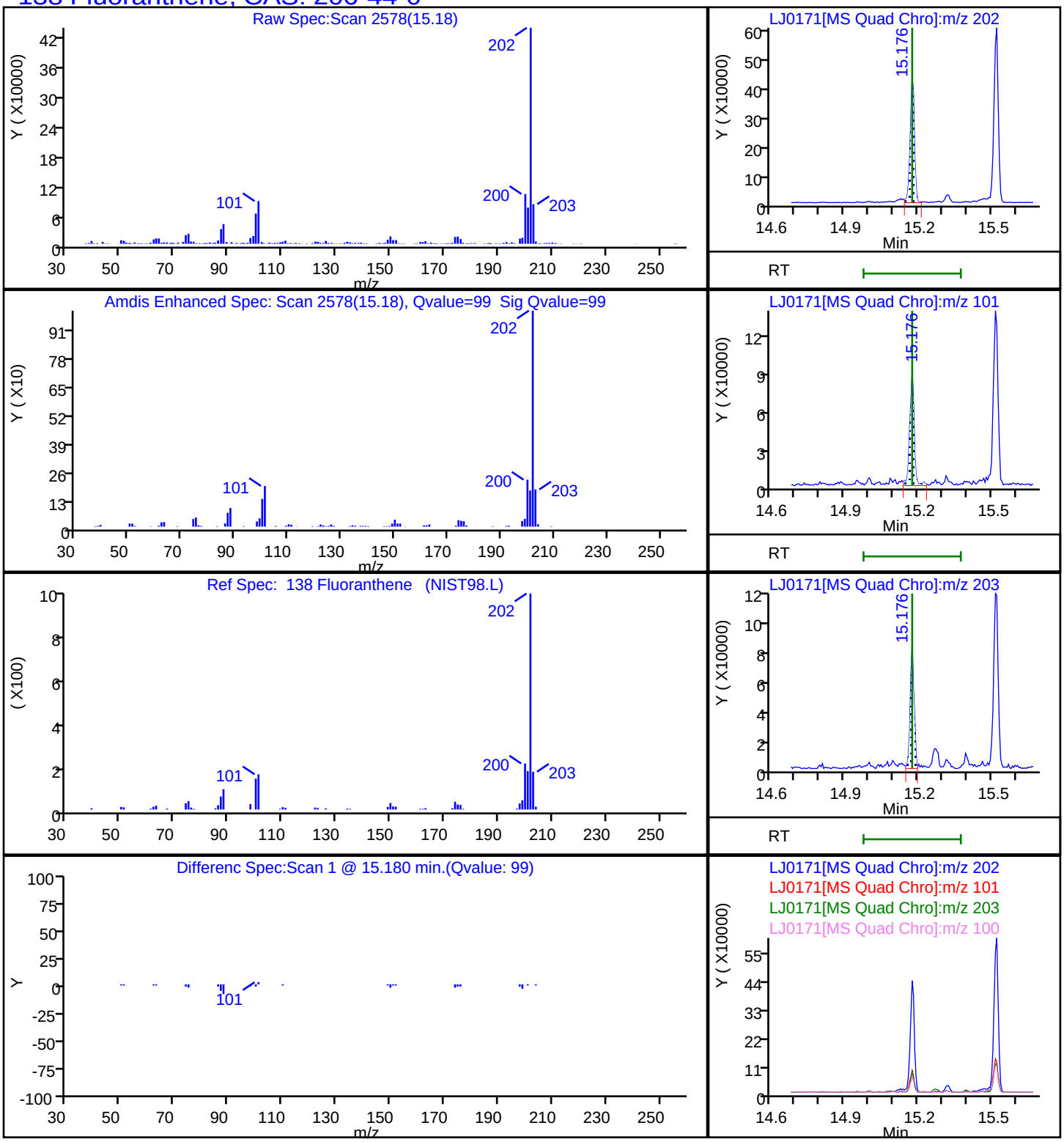
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 23

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

138 Fluoranthene, CAS: 206-44-0

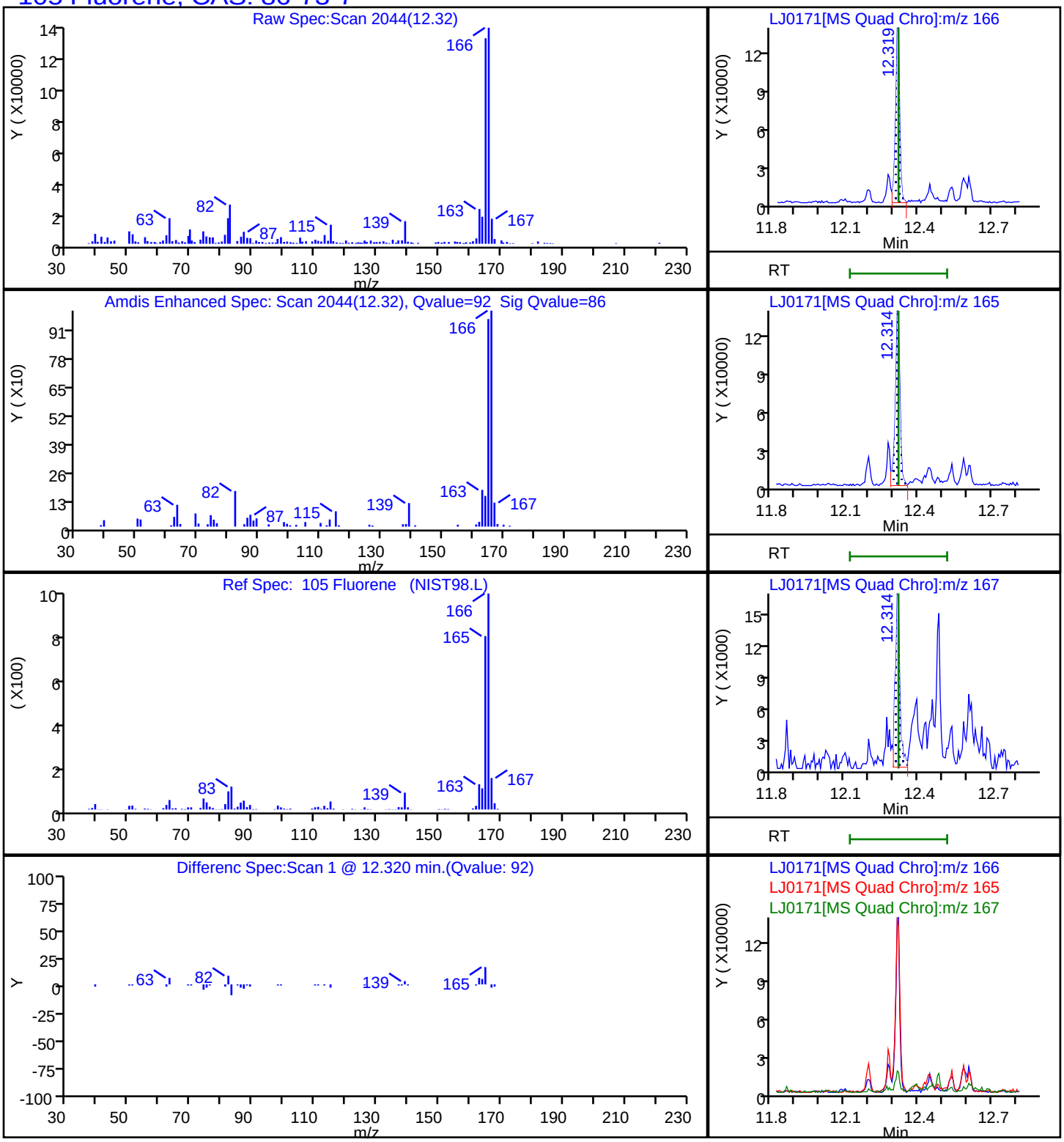


Report Date: 07-Oct-2020 14:41:21 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0171.D				
Injection Date:	07-Oct-2020 04:16:12	Instrument ID:	HP20296		
Lims ID:	410-15639-D-2-A	Lab Sample ID:	410-15639-2		
Client ID:	MW-3-20200930				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

105 Fluorene, CAS: 86-73-7



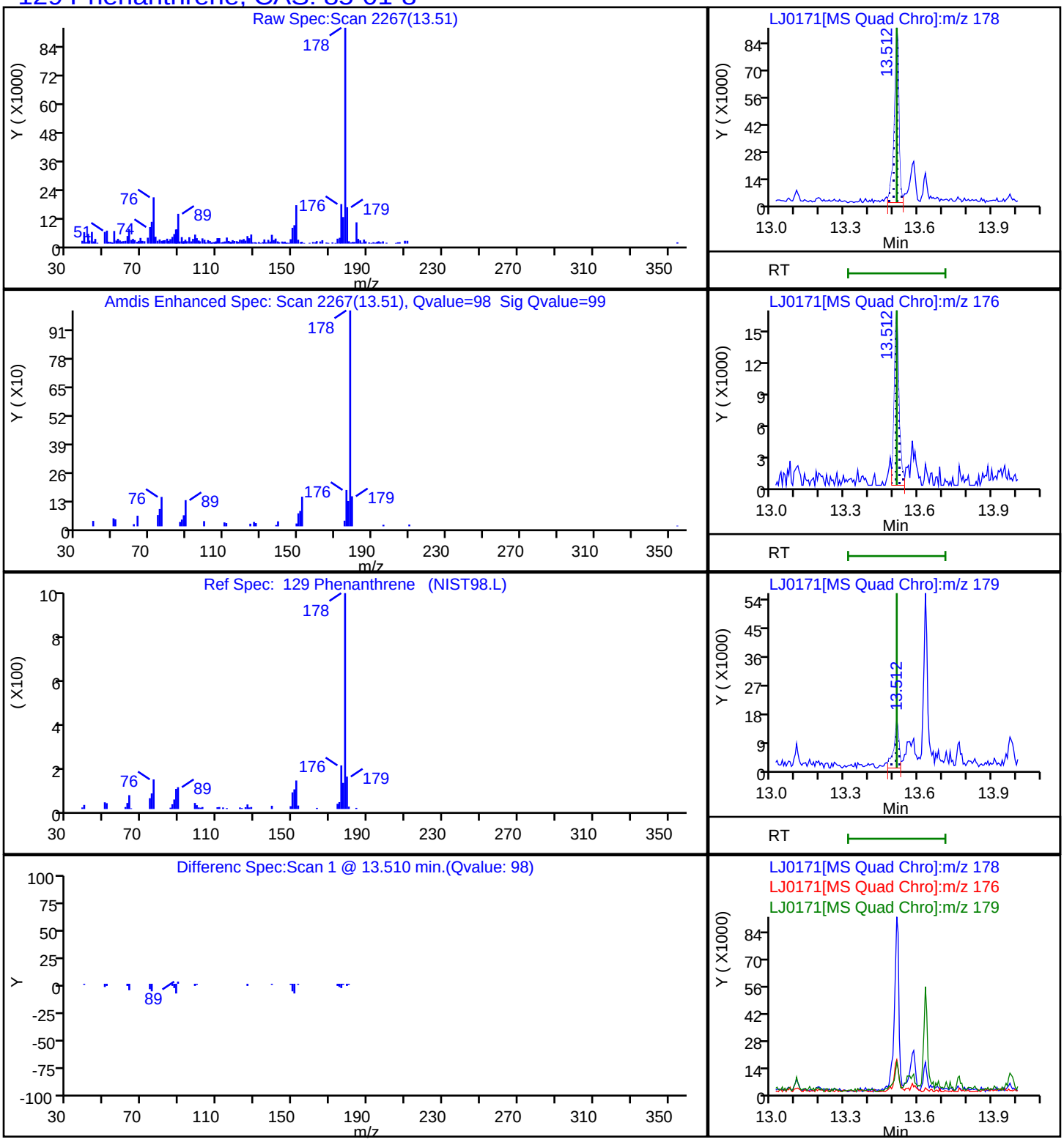
Report Date: 07-Oct-2020 14:41:22 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0171.D

Injection Date:	07-Oct-2020 04:16:12	Instrument ID:	HP20296		
Lims ID:	410-15639-D-2-A	Lab Sample ID:	410-15639-2		
Client ID:	MW-3-20200930				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

129 Phenanthrene, CAS: 85-01-8



Report Date: 07-Oct-2020 14:41:22 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0171.D

Injection Date: 07-Oct-2020 04:16:12 Instrument ID: HP20296

Lims ID: 410-15639-D-2-A Lab Sample ID: 410-15639-2

Client ID: MW-3-20200930

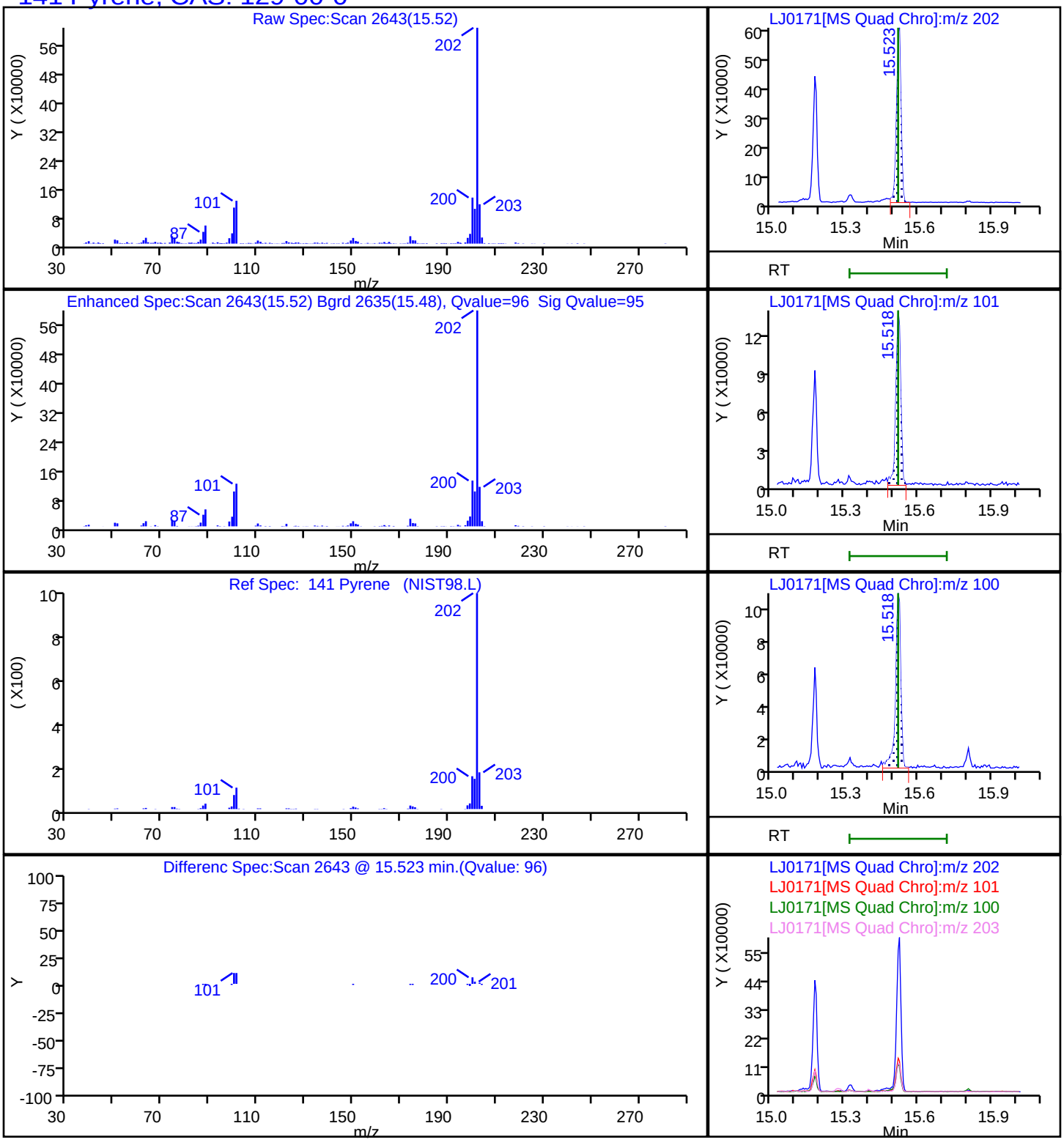
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 23

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

141 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

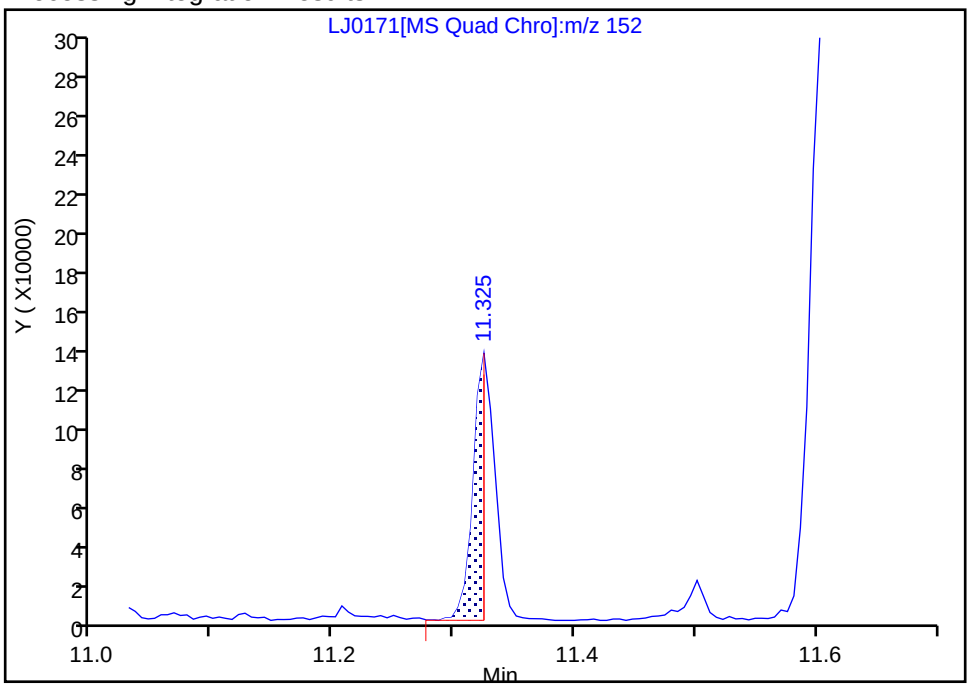
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0171.D				
Injection Date:	07-Oct-2020 04:16:12	Instrument ID:	HP20296		
Lims ID:	410-15639-D-2-A	Lab Sample ID:	410-15639-2		
Client ID:	MW-3-20200930				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

90 Acenaphthylene, CAS: 208-96-8

Signal: 1

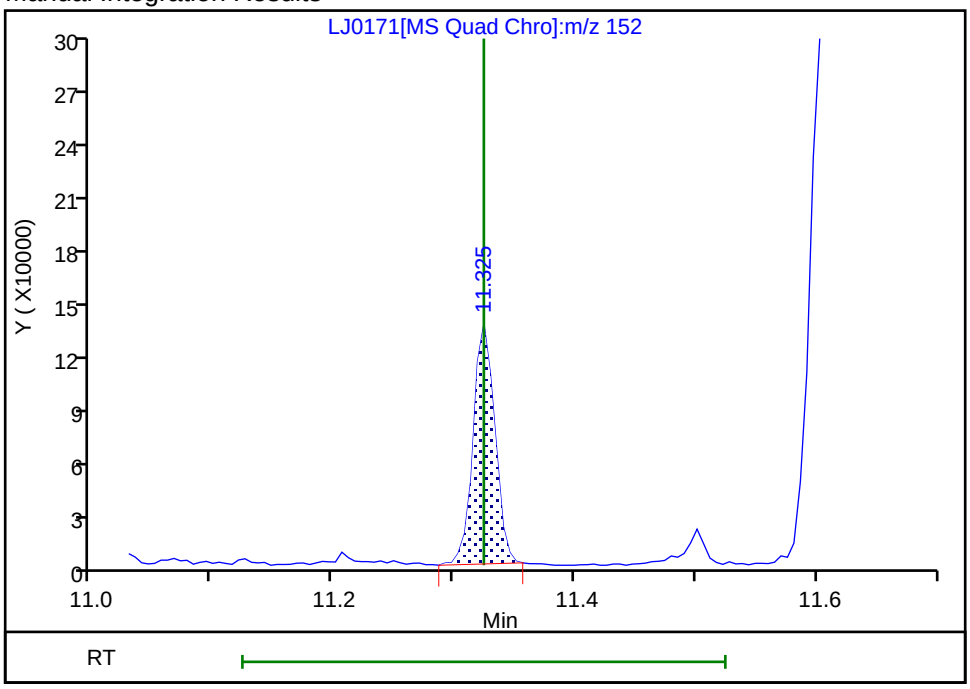
Processing Integration Results

RT: 11.32
Area: 81501
Amount: 0.936958
Amount Units: ug/ml



Manual Integration Results

RT: 11.32
Area: 164107
Amount: 1.886620
Amount Units: ug/ml



Reviewer: beckk, 07-Oct-2020 14:33:55

Audit Action: Manually Integrated Audit Reason: Assign Peak

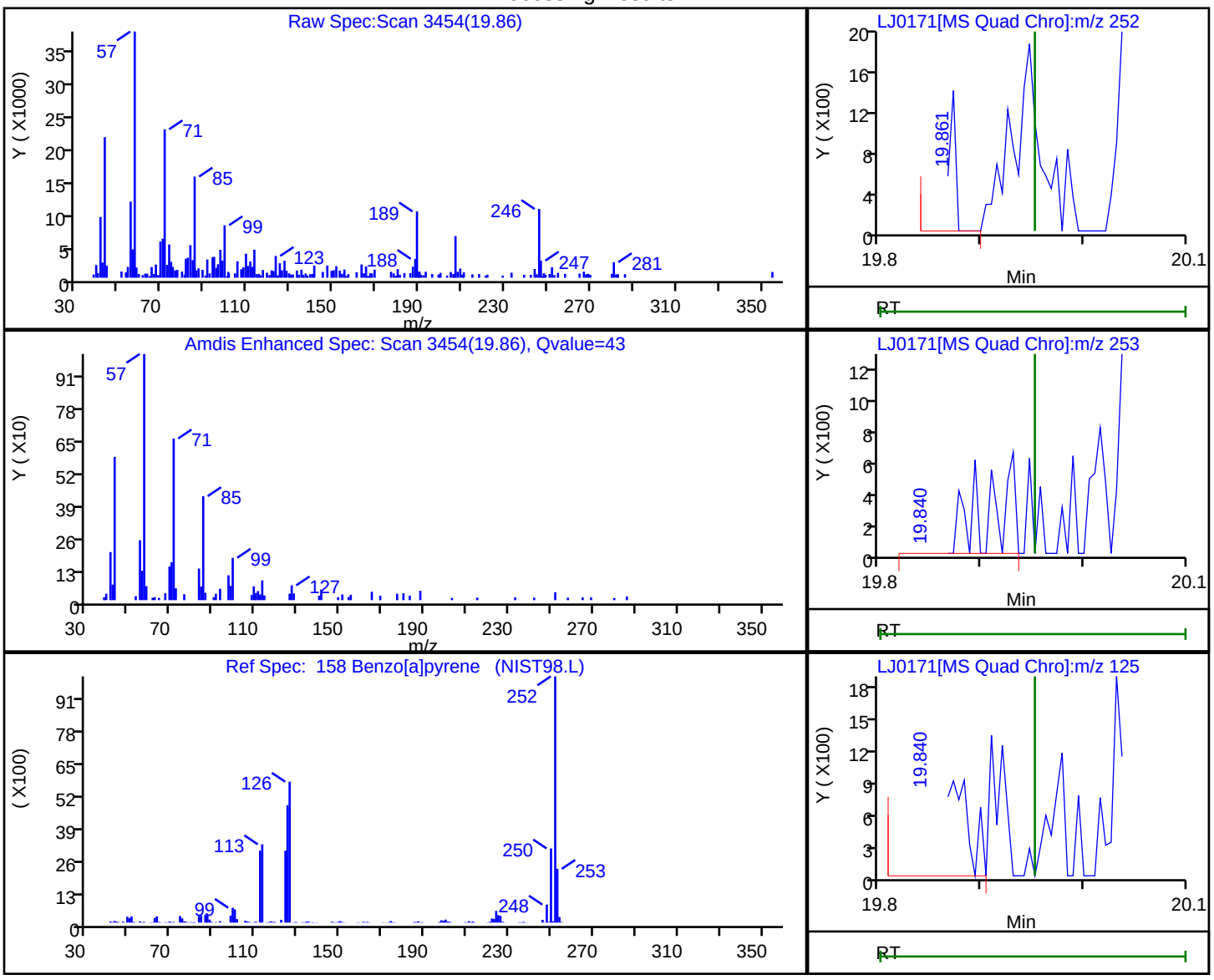
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0171.D				
Injection Date:	07-Oct-2020 04:16:12	Instrument ID:	HP20296		
Lims ID:	410-15639-D-2-A	Lab Sample ID:	410-15639-2		
Client ID:	MW-3-20200930				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

158 Benzo[a]pyrene, CAS: 50-32-8

Processing Results



RT	Mass	Response	Amount
19.86	252.00	1641	0.019172
19.84	253.00	2501	
19.84	125.00	3612	

Reviewer: beckk, 07-Oct-2020 14:34:07

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.: 410-15639-1

SDG No.:

Client Sample ID: MW-3-20200930 DL Lab Sample ID: 410-15639-2 DL

Matrix: Ground Water Lab File ID: LJ0193.D

Analysis Method: 8270D Date Collected: 09/30/2020 09:16

Extract. Method: 3510C Date Extracted: 10/06/2020 09:00

Sample wt/vol: 246(mL) Date Analyzed: 10/07/2020 15:09

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.: 51653 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-20-3	Naphthalene	200		5.1	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	70		44-102
4165-60-0	Nitrobenzene-d5 (Surr)	83		38-113
1718-51-0	p-Terphenyl-d14 (Surr)	69		34-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201007-12251.b\LJ0193.D
Lims ID: 410-15639-D-2-A DL
Client ID: MW-3-20200930
Sample Type: Client
Inject. Date: 07-Oct-2020 15:09:45 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 410-15639-D-2-A
Misc. Info.: 410-0012251-014
Operator ID: knb25316 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201007-12251.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Oct-2020 21:19:36 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1010

First Level Reviewer: luttek Date: 07-Oct-2020 21:18:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 24 1,4-Dichlorobenzene-d4	152	6.746	6.741	0.005	95	136109	5.00	
$ 41 Nitrobenzene-d5	82	7.602	7.606	0.005	91	111397	2.07	
* 55 Naphthalene-d8	136	8.725	8.714	0.011	99	531724	5.00	
56 Naphthalene	128	8.757	8.763	0.005	98	592599	4.93	
$ 76 2-Fluorobiphenyl (Surr)	172	10.506	10.506	0.005	98	123698	1.76	
90 Acenaphthylene	152	11.335	11.335	0.005	97	16887	0.1844	
* 92 Acenaphthene-d10	164	11.560	11.560	0.000	96	223589	5.00	
93 Acenaphthene	153	11.613	11.613	0.005	94	76279	1.13	
105 Fluorene	166	12.325	12.325	0.006	90	16362	0.2313	
* 127 Phenanthrene-d10	188	13.491	13.491	0.000	96	377153	5.00	
129 Phenanthrene	178	13.517	13.517	-0.001	25	13979	0.1524	
130 Anthracene	178	13.592	13.587	0.005	1	3453	0.0371	
138 Fluoranthene	202	15.186	15.181	0.005	98	54476	0.5774	
* 140 Pyrene-d10 (IS)	212	15.496	15.497	-0.001	99	363243	5.00	
141 Pyrene	202	15.529	15.529	0.006	95	83857	0.8306	
$ 142 p-Terphenyl-d14	244	15.812	15.817	0.000	96	113317	1.72	
149 Benzo[a]anthracene	228	17.556	17.556	0.006	91	10119	0.1203	
151 Chrysene	228	17.615	17.615	-0.001	1	4149	0.0493	a
155 Benzo[b]fluoranthene	252		19.428				ND	7
157 Benzo[k]fluoranthene	252		19.476				ND	7
158 Benzo[a]pyrene	252		19.957				ND	U
* 159 Perylene-d12	264	20.048	20.048	0.000	96	398745	5.00	
163 Indeno[1,2,3-cd]pyrene	276		21.680				ND	
164 Dibenz(a,h)anthracene	278		21.712				ND	7
165 Benzo[g,h,i]perylene	276		22.065				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
U - Marked Undetected
a - User Assigned ID

Reagents:

MSS_RV8270_IS_00013 Amount Added: 20.00 Units: uL Run Reagent

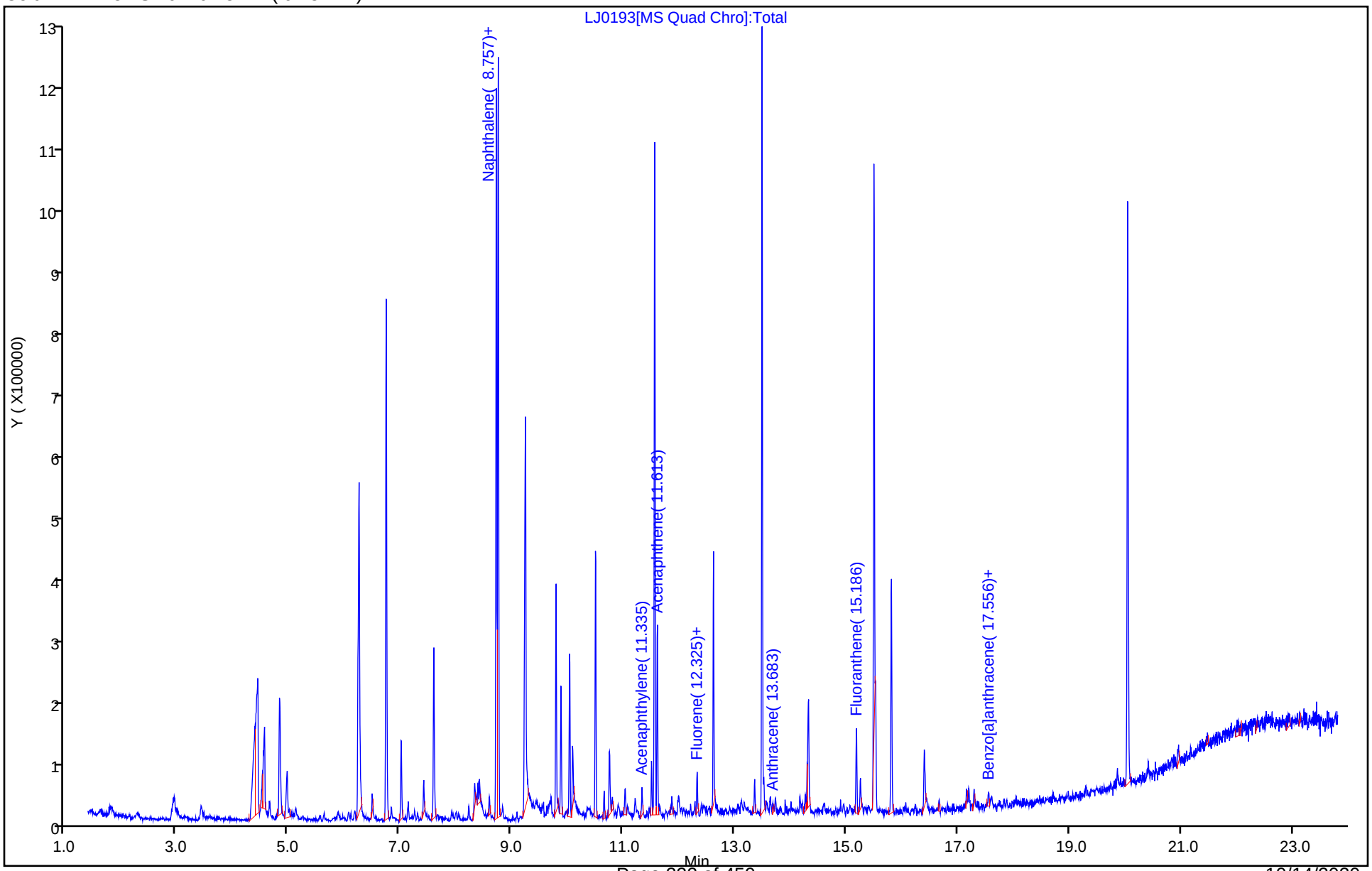
Report Date: 07-Oct-2020 21:20:34 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201007-12251.b\LJ0193.D

Injection Date:	07-Oct-2020 15:09:45	Instrument ID:	HP20296	Operator ID:	knb25316
Lims ID:	410-15639-D-2-A DL	Lab Sample ID:	410-15639-2	Worklist Smp#:	14
Client ID:	MW-3-20200930				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

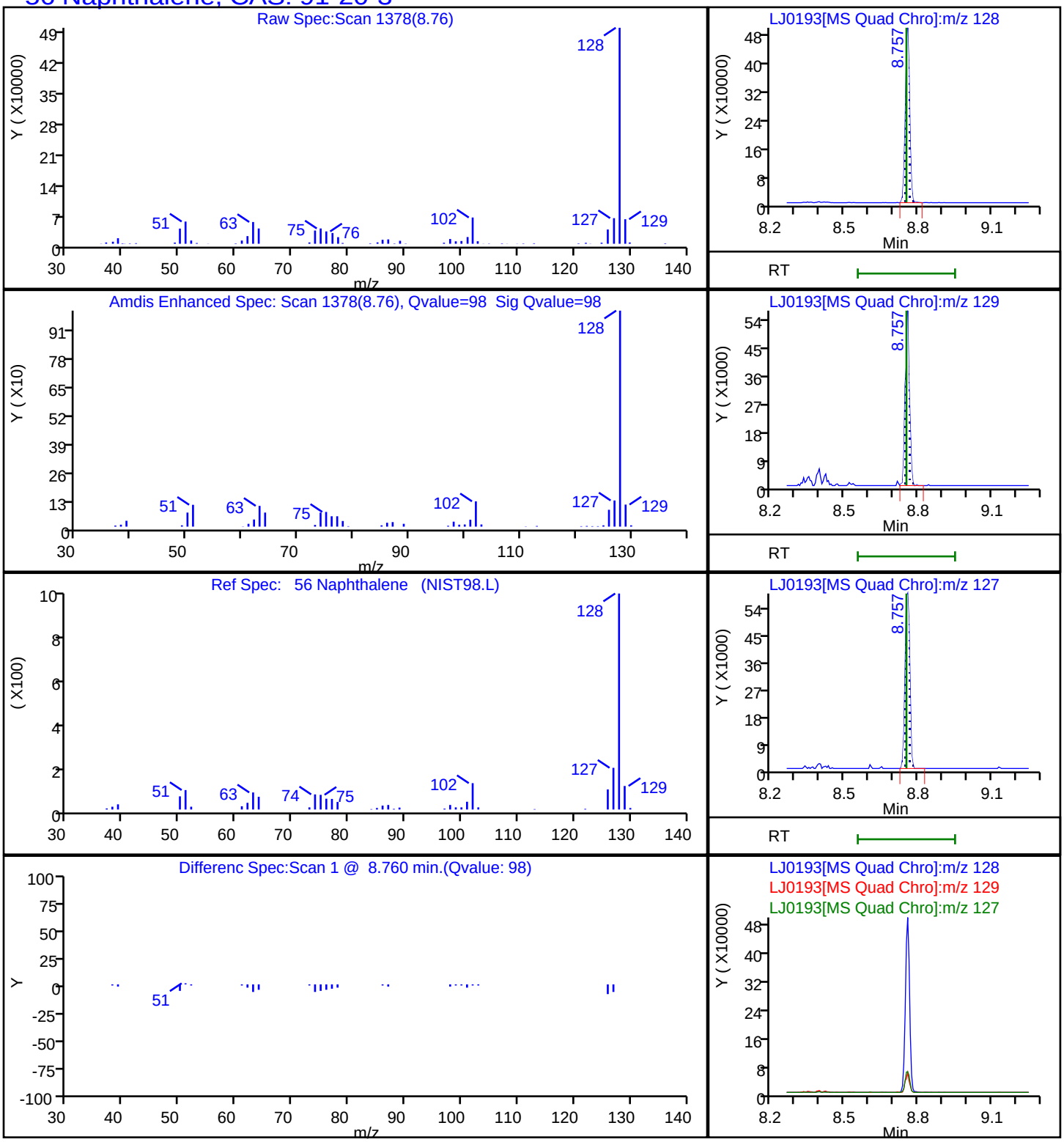
Column: DB-5MS 20m 0.18mm (0.18 mm)



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201007-12251.b\LJ0193.D				
Injection Date:	07-Oct-2020 15:09:45	Instrument ID:	HP20296		
Lims ID:	410-15639-D-2-A DL	Lab Sample ID:	410-15639-2		
Client ID:	MW-3-20200930				
Operator ID:	knb25316	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

56 Naphthalene, CAS: 91-20-3



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15639-1

SDG No.:

Client Sample ID: MW-13S-20200930 Lab Sample ID: 410-15639-3

Matrix: Ground Water Lab File ID: LJ0172.D

Analysis Method: 8270D Date Collected: 09/30/2020 10:05

Extract. Method: 3510C Date Extracted: 10/06/2020 09:00

Sample wt/vol: 244(mL) Date Analyzed: 10/07/2020 04:45

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.: 51485 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	79		0.51	0.10
208-96-8	Acenaphthylene	3.6		0.51	0.10
120-12-7	Anthracene	11		0.51	0.10
56-55-3	Benzo[a]anthracene	2.4		0.51	0.10
50-32-8	Benzo[a]pyrene	ND		0.51	0.10
205-99-2	Benzo[b]fluoranthene	ND		0.51	0.10
191-24-2	Benzo[g,h,i]perylene	ND		0.51	0.10
207-08-9	Benzo[k]fluoranthene	ND		0.51	0.10
218-01-9	Chrysene	1.3		0.51	0.10
53-70-3	Dibenz(a,h)anthracene	ND		0.51	0.10
206-44-0	Fluoranthene	11		0.51	0.10
86-73-7	Fluorene	30		0.51	0.10
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.51	0.10
85-01-8	Phenanthrene	82		0.51	0.10
129-00-0	Pyrene	17		0.51	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	74		44-102
4165-60-0	Nitrobenzene-d5 (Surr)	85		38-113
1718-51-0	p-Terphenyl-d14 (Surr)	68		34-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0172.D
Lims ID: 410-15639-D-3-A
Client ID: MW-13S-20200930
Sample Type: Client
Inject. Date: 07-Oct-2020 04:45:12 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-15639-D-3-A
Misc. Info.: 410-0012211-024
Operator ID: kel10217 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Oct-2020 14:36:36 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1017

First Level Reviewer: beckk Date: 07-Oct-2020 14:34:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 24 1,4-Dichlorobenzene-d4	152	6.735	6.730	0.005	94	126729	5.00	
$ 41 Nitrobenzene-d5	82	7.591	7.596	0.000	89	1112524	21.4	
* 55 Naphthalene-d8	136	8.714	8.709	0.005	99	514665	5.00	
56 Naphthalene	128	8.752	8.747	0.006	99	6804780	58.5	E
$ 76 2-Fluorobiphenyl (Surr)	172	10.495	10.496	0.000	98	1293388	18.6	
90 Acenaphthylene	152	11.325	11.325	0.000	99	79921	0.8801	
* 92 Acenaphthene-d10	164	11.555	11.555	0.000	97	221657	5.00	
93 Acenaphthene	153	11.608	11.603	0.005	98	1300363	19.4	
105 Fluorene	166	12.319	12.320	0.000	83	508704	7.25	
* 127 Phenanthrene-d10	188	13.485	13.485	0.000	96	394303	5.00	
129 Phenanthrene	178	13.517	13.512	0.005	99	1909711	19.9	
130 Anthracene	178	13.582	13.582	0.000	99	270591	2.78	
138 Fluoranthene	202	15.176	15.176	0.000	99	271268	2.75	
* 140 Pyrene-d10 (IS)	212	15.491	15.491	0.000	97	343262	5.00	
141 Pyrene	202	15.518	15.518	0.000	96	399943	4.19	
$ 142 p-Terphenyl-d14	244	15.807	15.807	0.000	97	1058805	17.1	
149 Benzo[a]anthracene	228	17.545	17.545	0.000	94	47464	0.5974	
151 Chrysene	228	17.609	17.609	0.000	92	24608	0.3092	
155 Benzo[b]fluoranthene	252		19.422				ND	U
157 Benzo[k]fluoranthene	252		19.465				ND	U
158 Benzo[a]pyrene	252		19.952				ND	U
* 159 Perylene-d12	264	20.043	20.043	0.000	95	368511	5.00	
163 Indeno[1,2,3-cd]pyrene	276		21.669				ND	
164 Dibenz(a,h)anthracene	278		21.706				ND	7
165 Benzo[g,h,i]perylene	276		22.059				ND	7

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

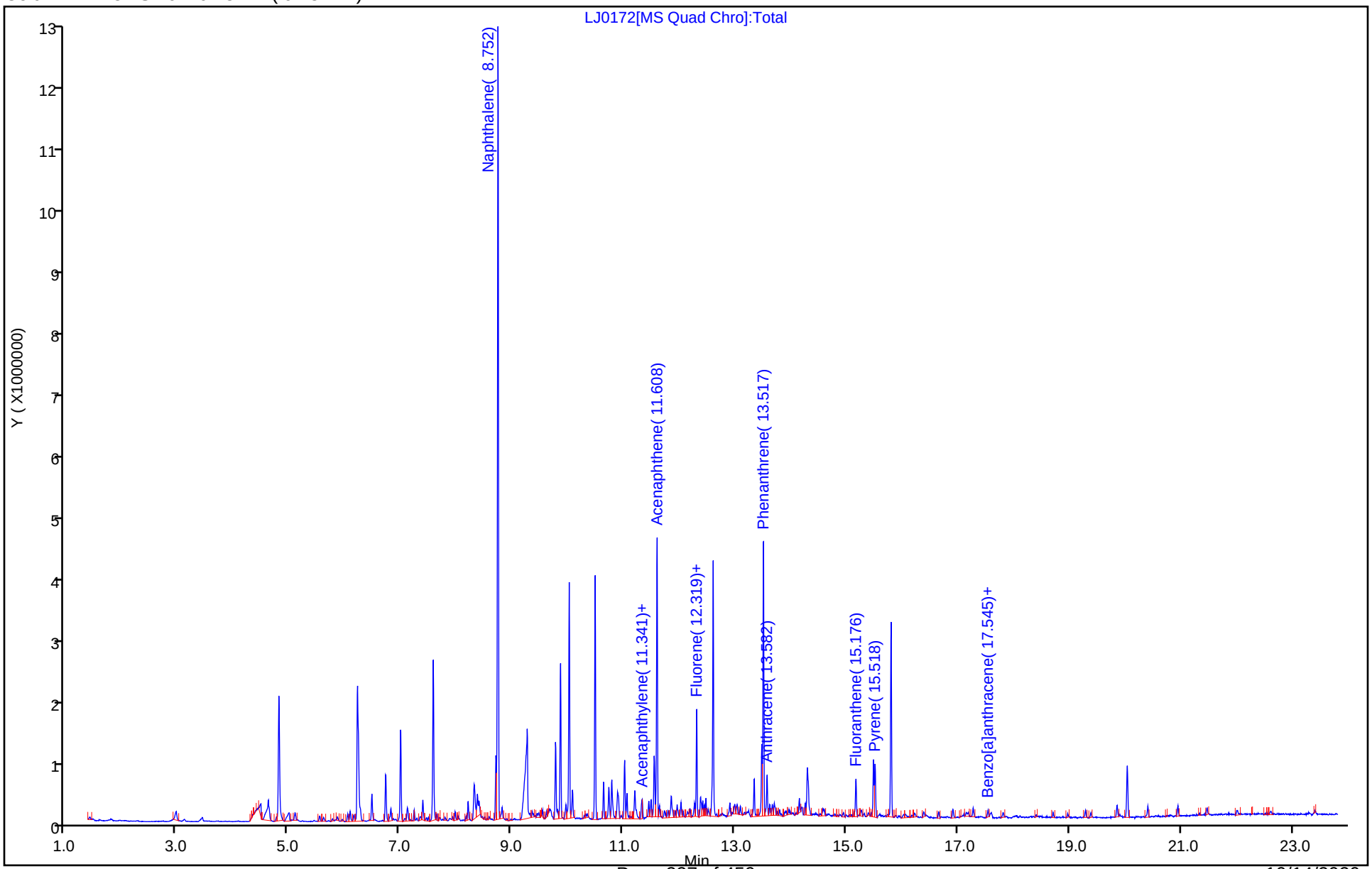
MSS_RV8270_IS_00013 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 07-Oct-2020 14:41:26 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0172.D				
Injection Date:	07-Oct-2020 04:45:12	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	410-15639-D-3-A	Lab Sample ID:	410-15639-3	Worklist Smp#:	24
Client ID:	MW-13S-20200930				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



Report Date: 07-Oct-2020 14:41:27 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0172.D

Injection Date: 07-Oct-2020 04:45:12 Instrument ID: HP20296

Lims ID: 410-15639-D-3-A Lab Sample ID: 410-15639-3

Client ID: MW-13S-20200930

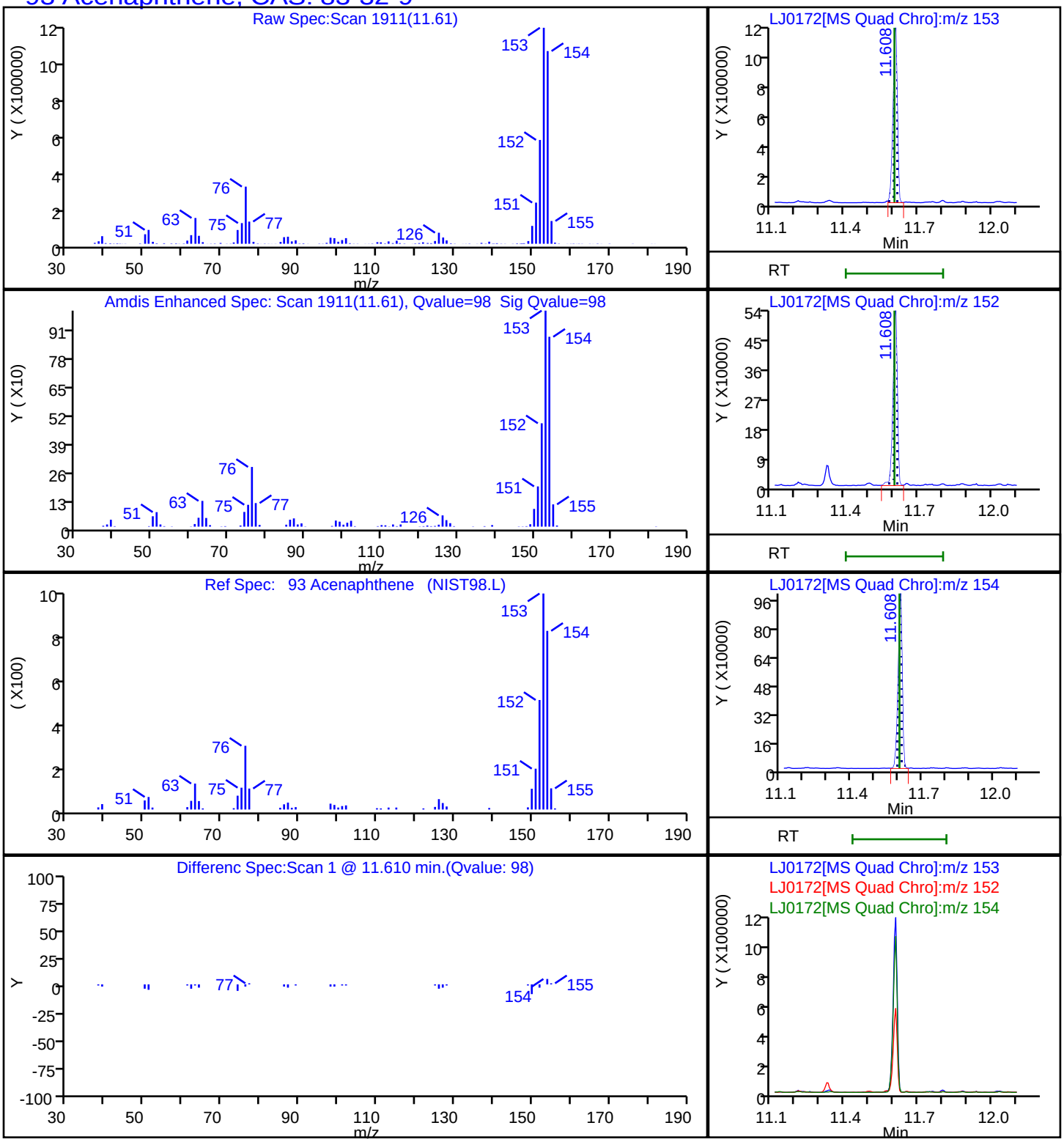
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 24

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

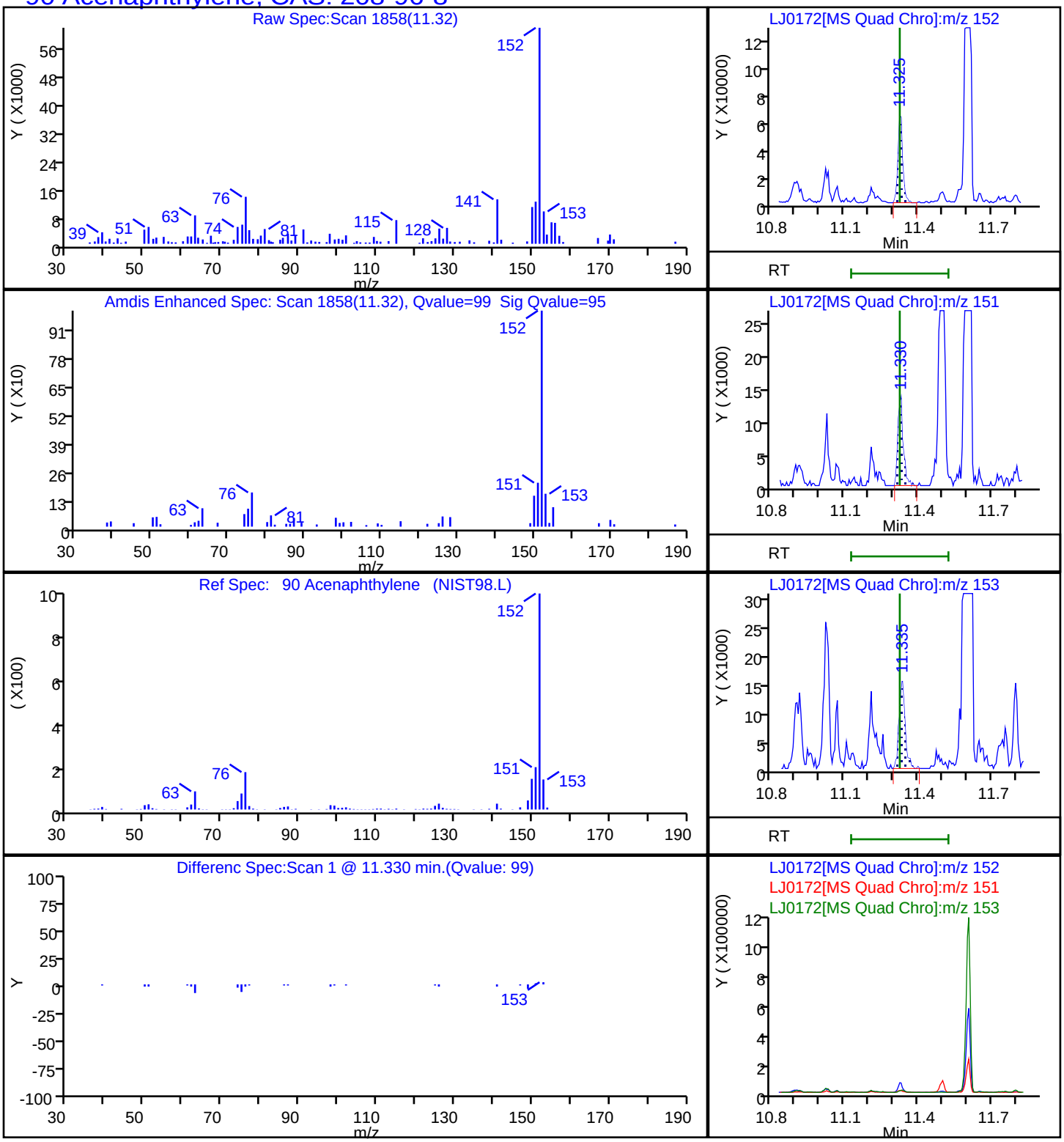
93 Acenaphthene, CAS: 83-32-9



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0172.D				
Injection Date:	07-Oct-2020 04:45:12	Instrument ID:	HP20296		
Lims ID:	410-15639-D-3-A	Lab Sample ID:	410-15639-3		
Client ID:	MW-13S-20200930				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

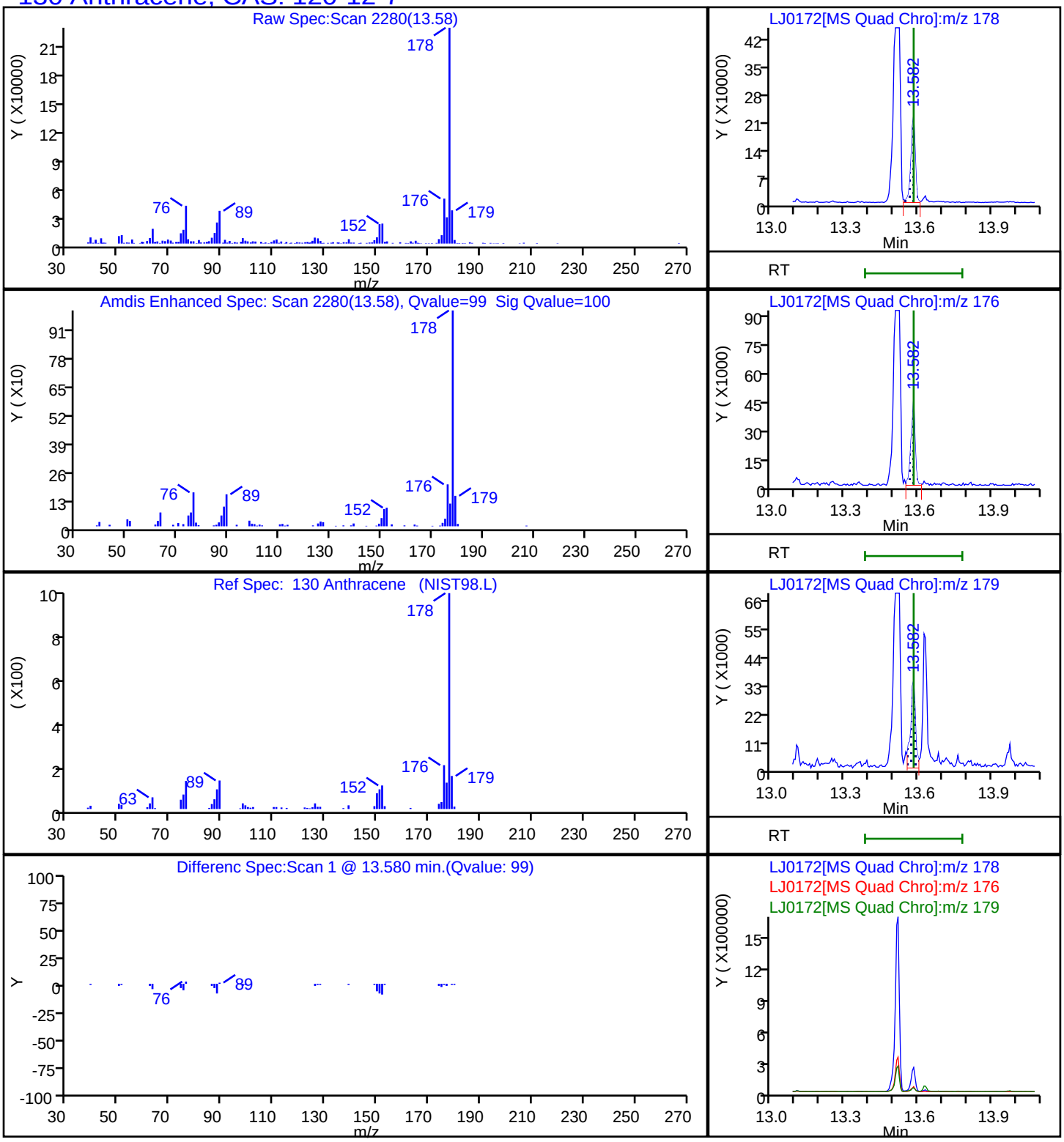
90 Acenaphthylene, CAS: 208-96-8



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0172.D				
Injection Date:	07-Oct-2020 04:45:12	Instrument ID:	HP20296		
Lims ID:	410-15639-D-3-A	Lab Sample ID:	410-15639-3		
Client ID:	MW-13S-20200930				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

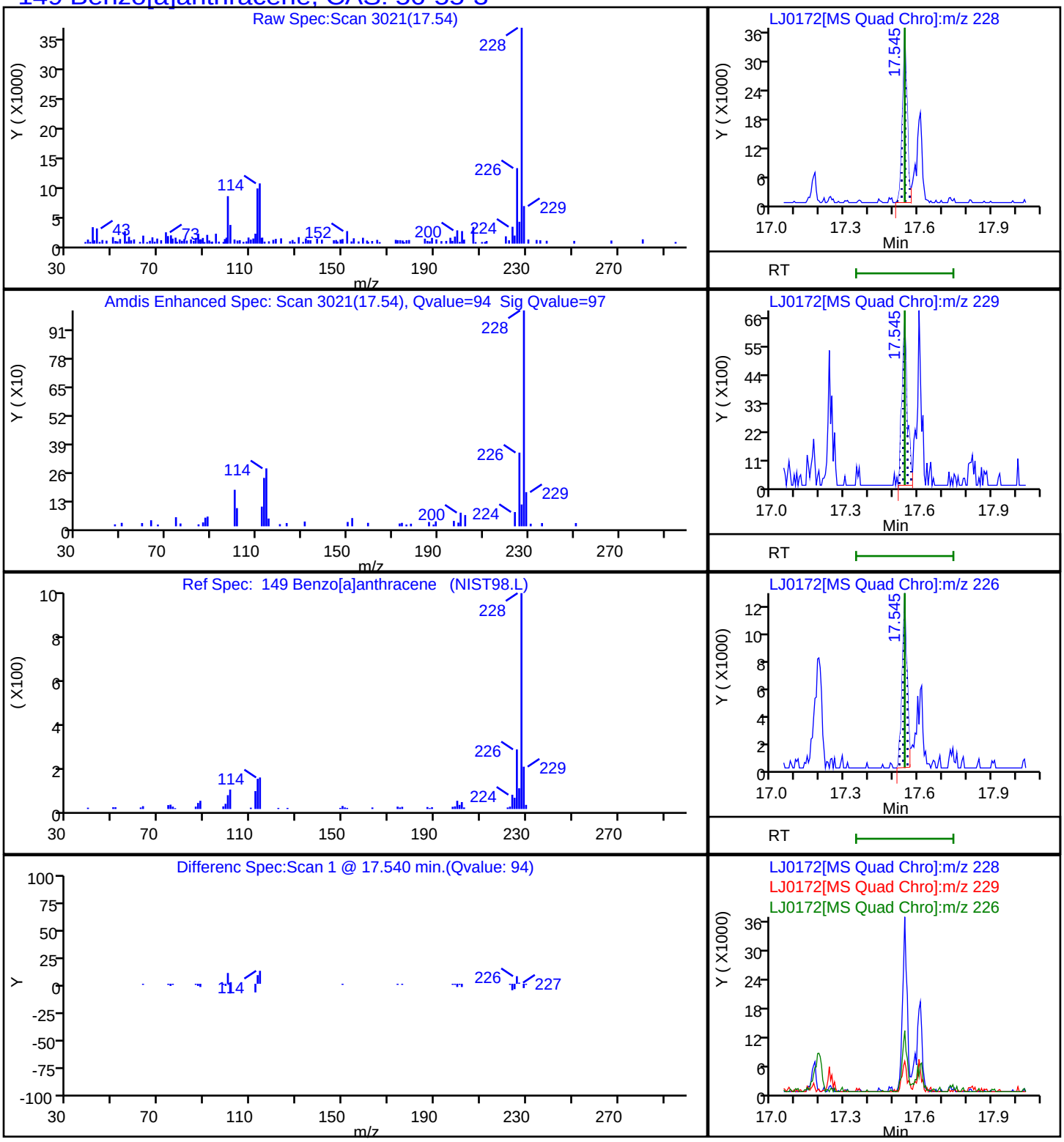
130 Anthracene, CAS: 120-12-7



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0172.D				
Injection Date:	07-Oct-2020 04:45:12	Instrument ID:	HP20296		
Lims ID:	410-15639-D-3-A	Lab Sample ID:	410-15639-3		
Client ID:	MW-13S-20200930				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

149 Benzo[a]anthracene, CAS: 56-55-3



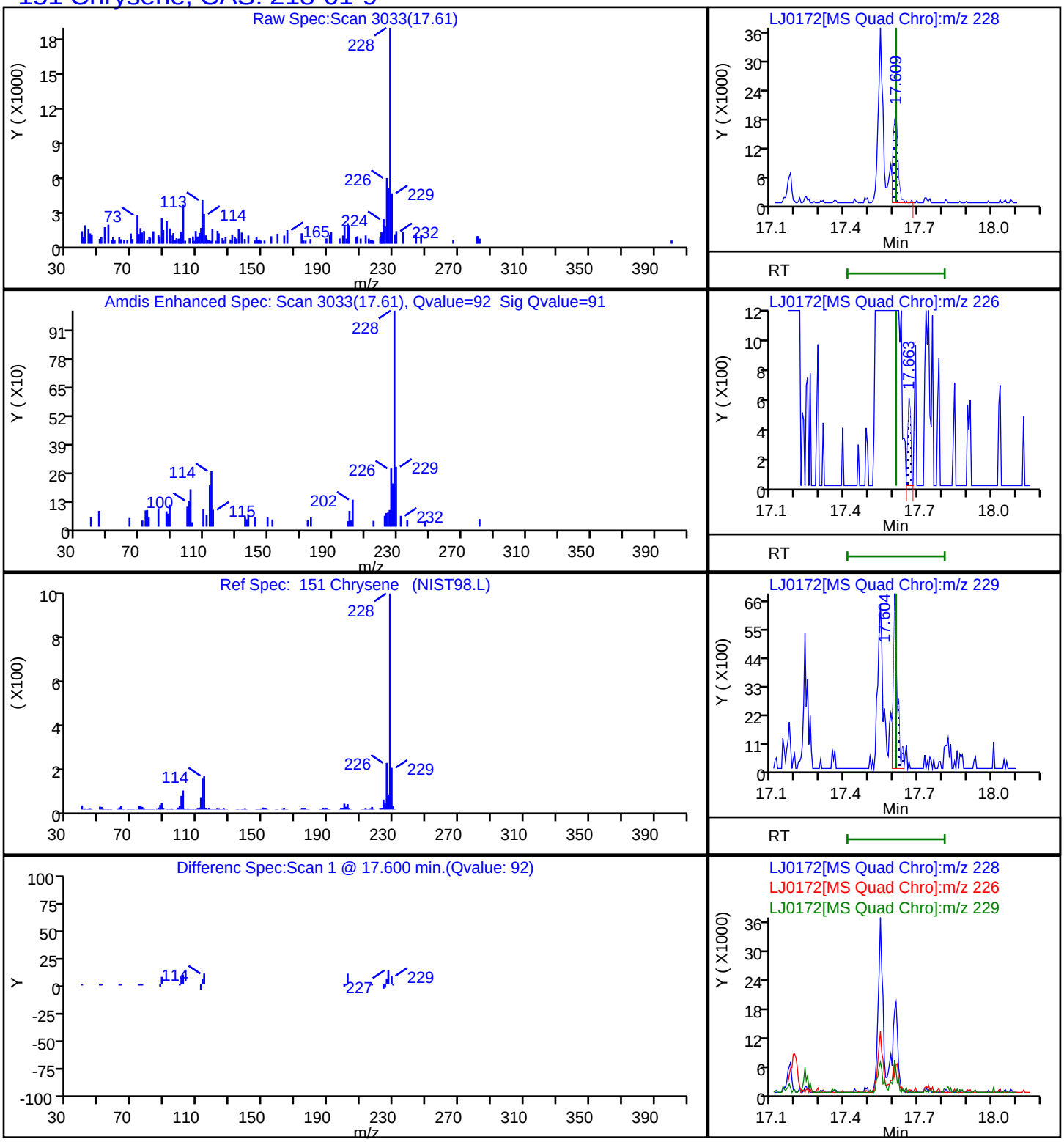
Report Date: 07-Oct-2020 14:41:27 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0172.D

Injection Date:	07-Oct-2020 04:45:12	Instrument ID:	HP20296		
Lims ID:	410-15639-D-3-A	Lab Sample ID:	410-15639-3		
Client ID:	MW-13S-20200930				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

151 Chrysene, CAS: 218-01-9



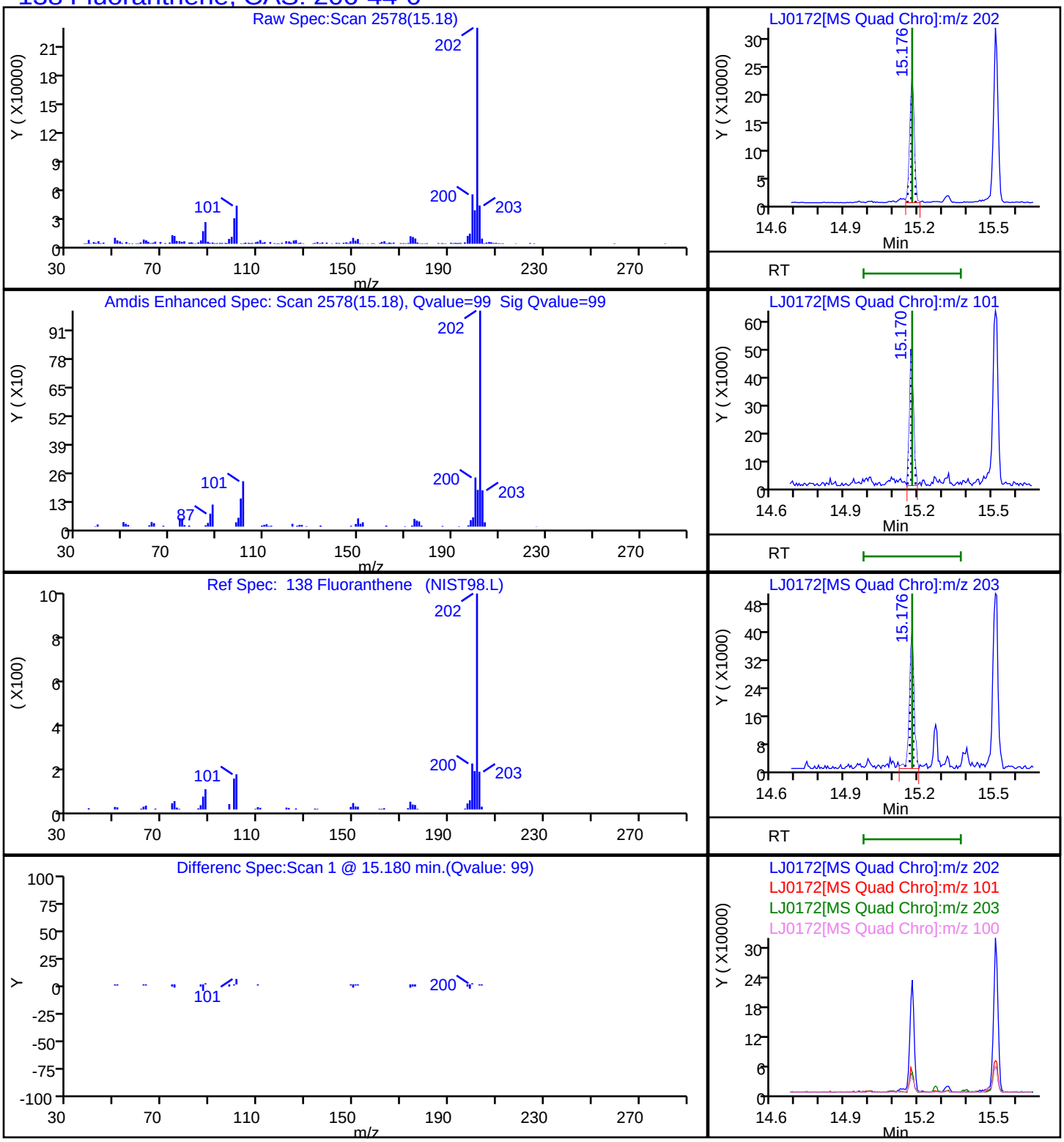
Report Date: 07-Oct-2020 14:41:27 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0172.D

Injection Date:	07-Oct-2020 04:45:12	Instrument ID:	HP20296		
Lims ID:	410-15639-D-3-A	Lab Sample ID:	410-15639-3		
Client ID:	MW-13S-20200930				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

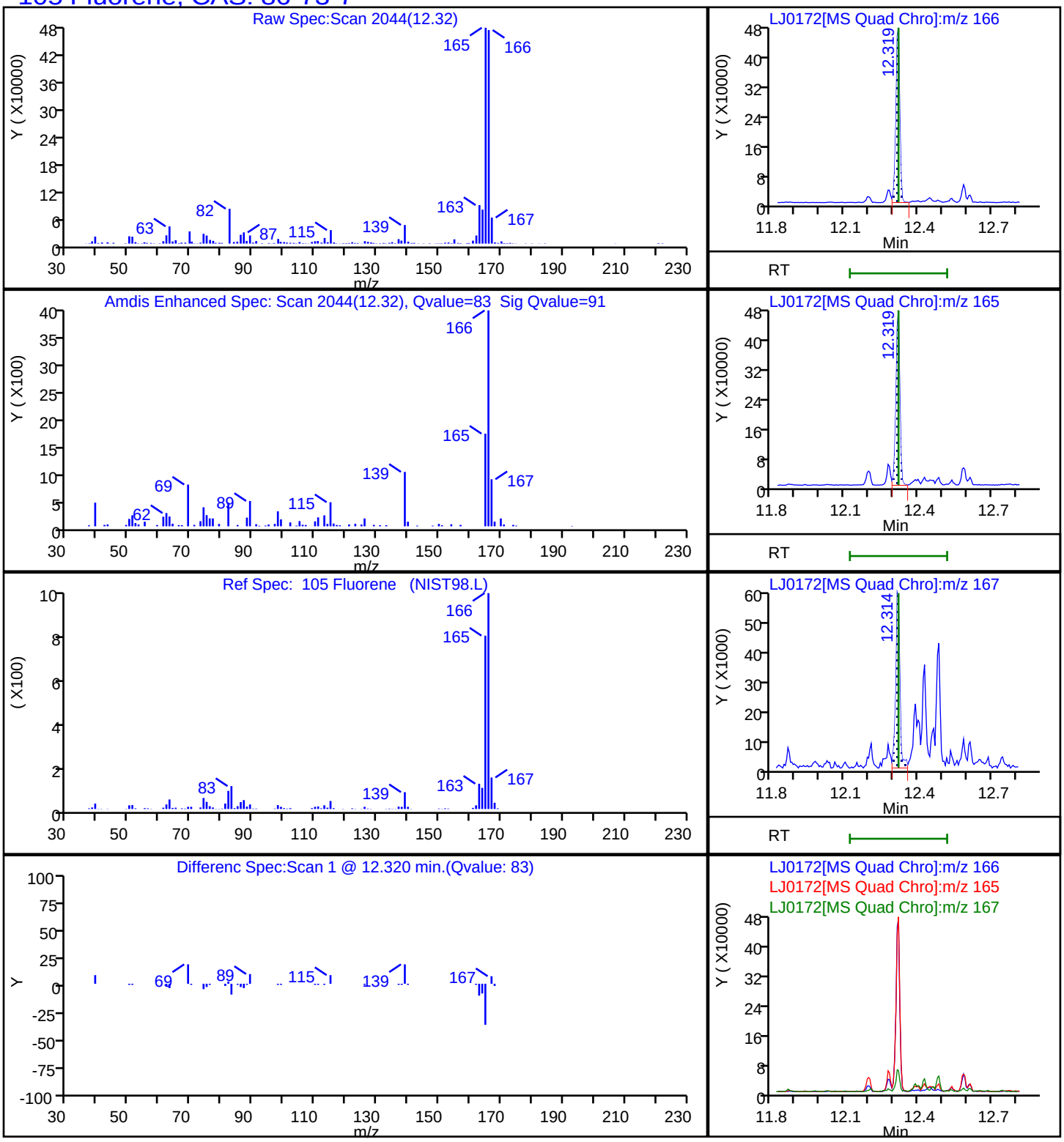
138 Fluoranthene, CAS: 206-44-0



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0172.D				
Injection Date:	07-Oct-2020 04:45:12	Instrument ID:	HP20296		
Lims ID:	410-15639-D-3-A	Lab Sample ID:	410-15639-3		
Client ID:	MW-13S-20200930				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

105 Fluorene, CAS: 86-73-7



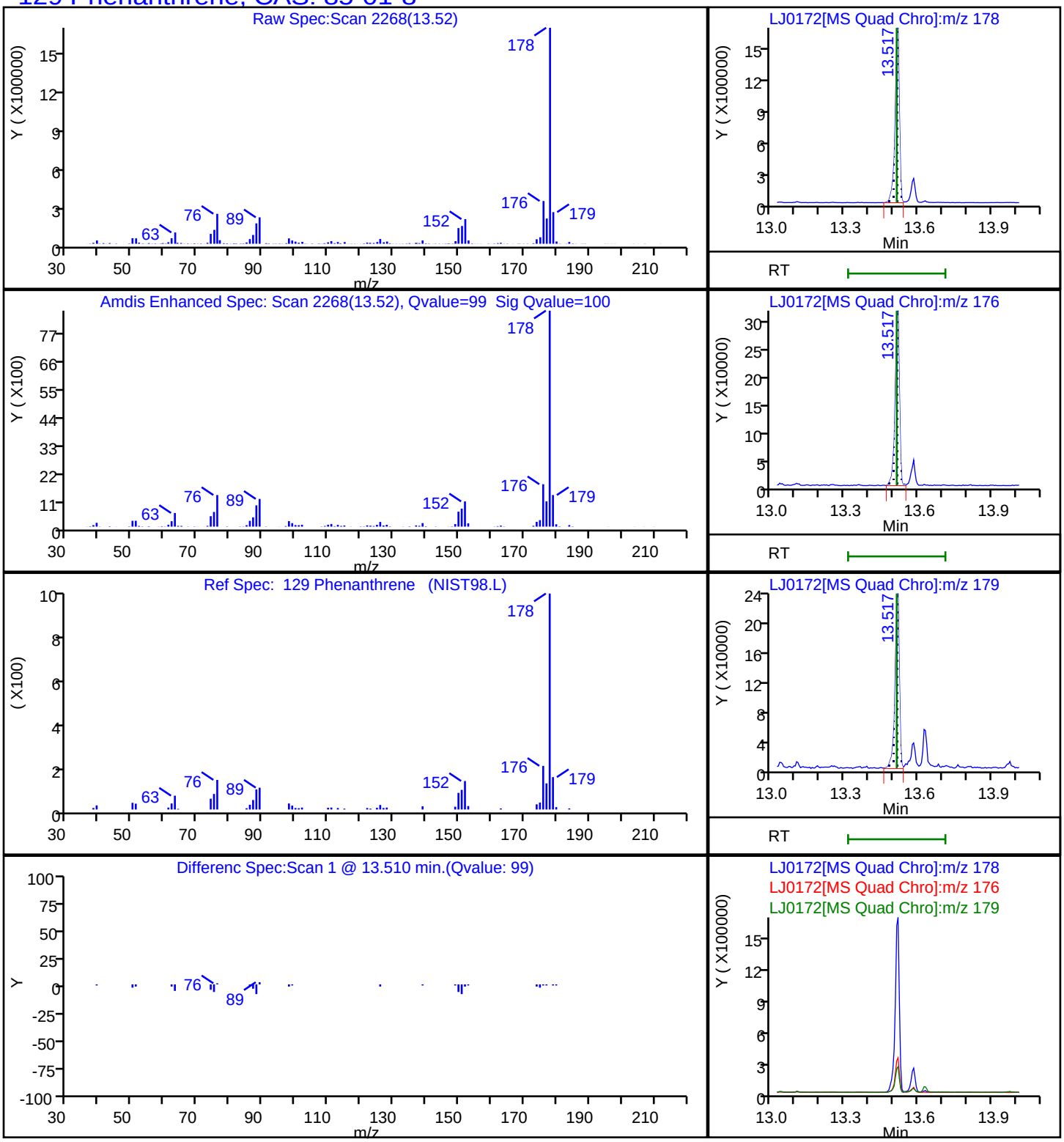
Report Date: 07-Oct-2020 14:41:27 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0172.D

Injection Date:	07-Oct-2020 04:45:12	Instrument ID:	HP20296
Lims ID:	410-15639-D-3-A	Lab Sample ID:	410-15639-3
Client ID:	MW-13S-20200930		
Operator ID:	kel10217	ALS Bottle#:	0 Worklist Smp#: 24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN

129 Phenanthrene, CAS: 85-01-8



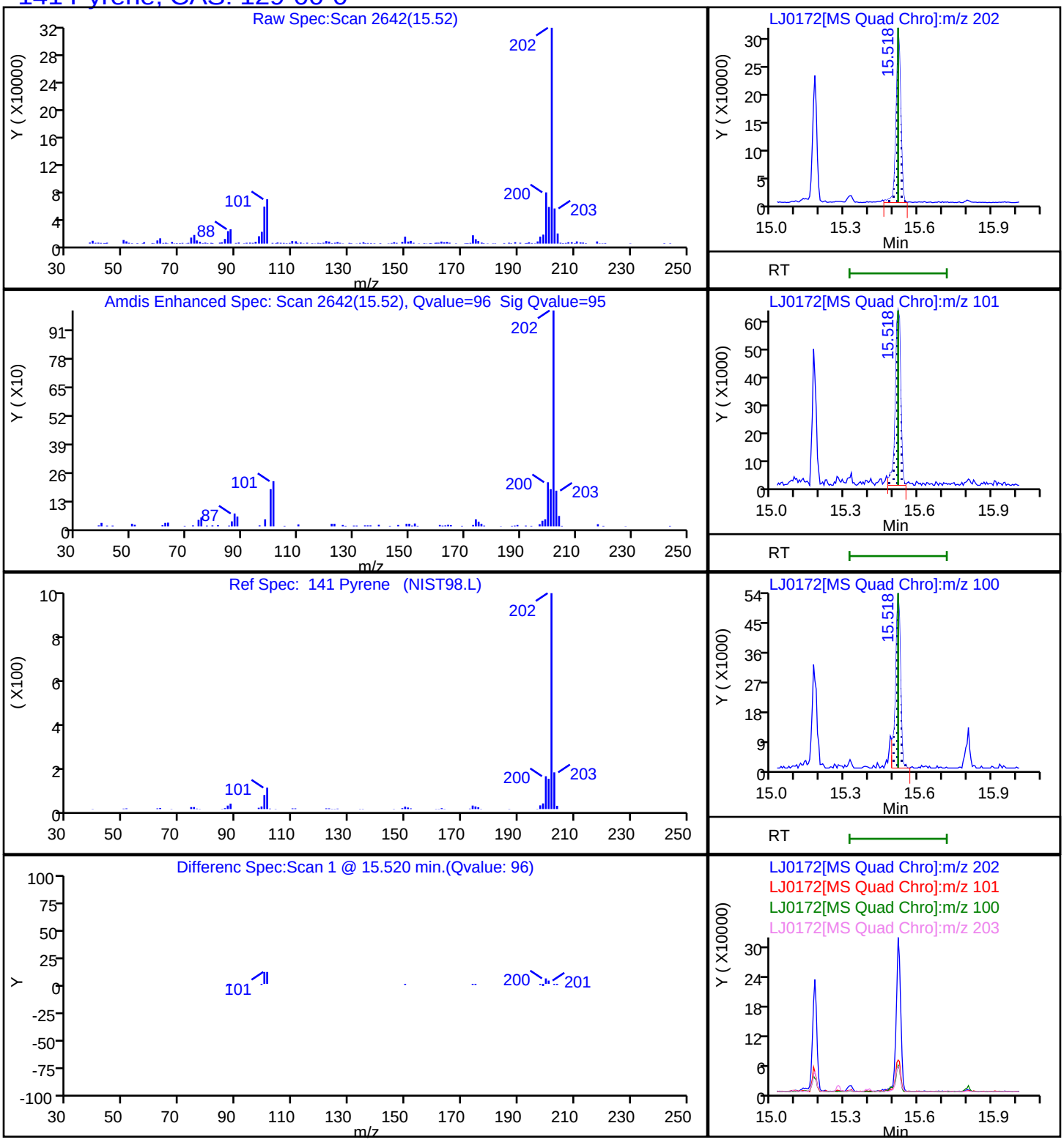
Report Date: 07-Oct-2020 14:41:27 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0172.D

Injection Date:	07-Oct-2020 04:45:12	Instrument ID:	HP20296		
Lims ID:	410-15639-D-3-A	Lab Sample ID:	410-15639-3		
Client ID:	MW-13S-20200930				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

141 Pyrene, CAS: 129-00-0



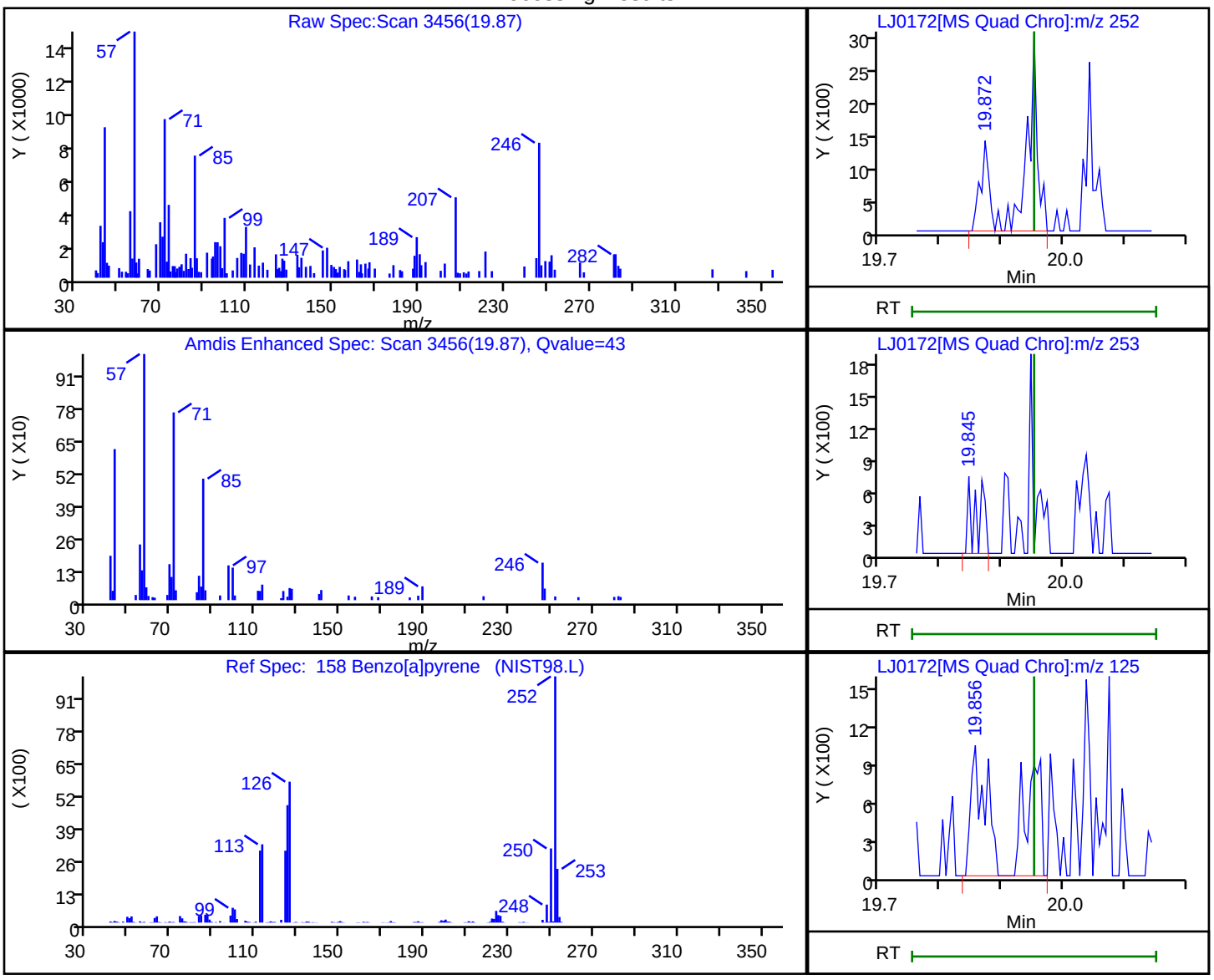
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0172.D				
Injection Date:	07-Oct-2020 04:45:12	Instrument ID:	HP20296		
Lims ID:	410-15639-D-3-A	Lab Sample ID:	410-15639-3		
Client ID:	MW-13S-20200930				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

158 Benzo[a]pyrene, CAS: 50-32-8

Processing Results



RT	Mass	Response	Amount
19.87	252.00	4738	0.053937
19.84	253.00	797	
19.86	125.00	3402	

Reviewer: beckk, 07-Oct-2020 14:34:47

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

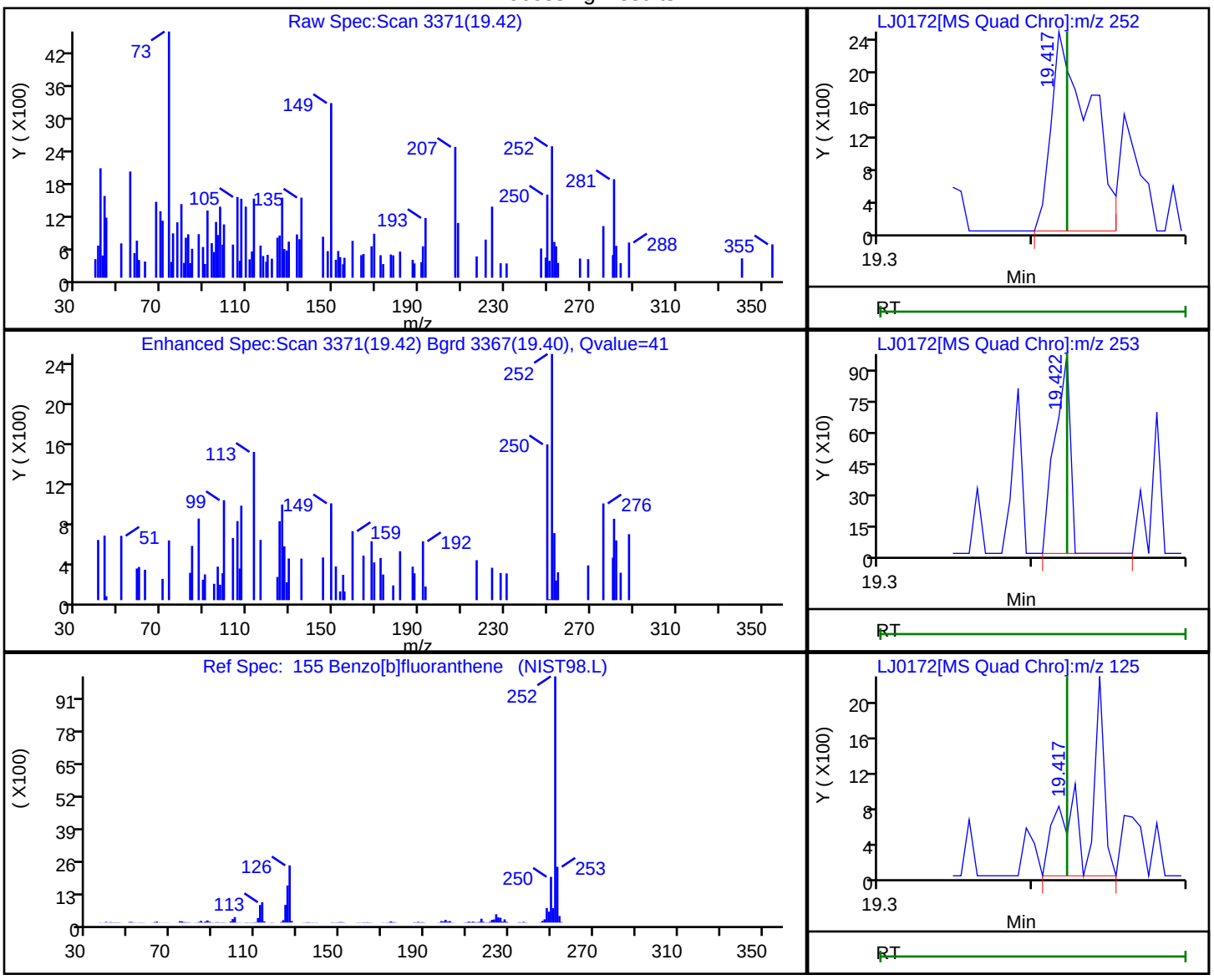
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0172.D				
Injection Date:	07-Oct-2020 04:45:12	Instrument ID:	HP20296		
Lims ID:	410-15639-D-3-A	Lab Sample ID:	410-15639-3		
Client ID:	MW-13S-20200930				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

155 Benzo[b]fluoranthene, CAS: 205-99-2

Processing Results



RT	Mass	Response	Amount
19.42	252.00	4230	0.044926
19.42	253.00	673	
19.42	125.00	1860	

Reviewer: beckk, 07-Oct-2020 14:34:40

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

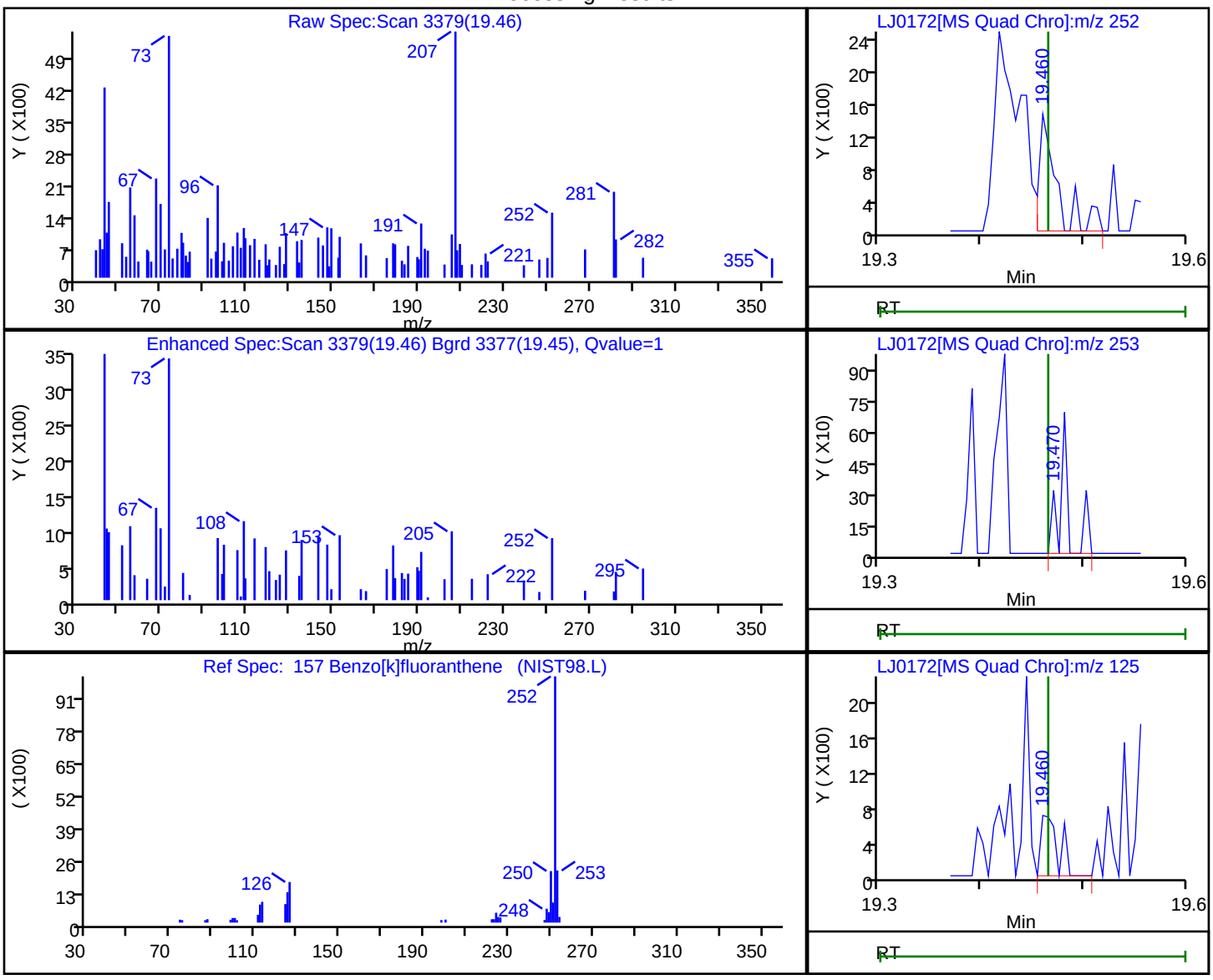
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0172.D				
Injection Date:	07-Oct-2020 04:45:12	Instrument ID:	HP20296		
Lims ID:	410-15639-D-3-A	Lab Sample ID:	410-15639-3		
Client ID:	MW-13S-20200930				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

157 Benzo[k]fluoranthene, CAS: 207-08-9

Processing Results



RT	Mass	Response	Amount
19.46	252.00	1635	0.018048
19.47	253.00	418	
19.46	125.00	797	

Reviewer: beckk, 07-Oct-2020 14:34:43

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.: 410-15639-1

SDG No.:

Client Sample ID: MW-13S-20200930 DL Lab Sample ID: 410-15639-3 DL

Matrix: Ground Water Lab File ID: LJ0194.D

Analysis Method: 8270D Date Collected: 09/30/2020 10:05

Extract. Method: 3510C Date Extracted: 10/06/2020 09:00

Sample wt/vol: 244(mL) Date Analyzed: 10/07/2020 15:38

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.: 51653 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-20-3	Naphthalene	230		5.1	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	74		44-102
4165-60-0	Nitrobenzene-d5 (Surr)	77		38-113
1718-51-0	p-Terphenyl-d14 (Surr)	69		34-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201007-12251.b\LJ0194.D
Lims ID: 410-15639-D-3-A DL
Client ID: MW-13S-20200930
Sample Type: Client
Inject. Date: 07-Oct-2020 15:38:58 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 410-15639-D-3-A
Misc. Info.: 410-0012251-015
Operator ID: knb25316 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201007-12251.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Oct-2020 21:19:36 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1010

First Level Reviewer: luttek Date: 07-Oct-2020 21:19:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 24 1,4-Dichlorobenzene-d4	152	6.746	6.741	0.005	96	130706	5.00	
$ 41 Nitrobenzene-d5	82	7.602	7.606	0.005	90	104842	1.92	
* 55 Naphthalene-d8	136	8.725	8.714	0.011	99	539559	5.00	
56 Naphthalene	128	8.757	8.763	0.005	99	677944	5.55	
$ 76 2-Fluorobiphenyl (Surr)	172	10.506	10.506	0.005	99	136125	1.86	
90 Acenaphthylene	152	11.335	11.335	0.005	65	6427	0.0672	
* 92 Acenaphthene-d10	164	11.565	11.560	0.005	96	233597	5.00	
93 Acenaphthene	153	11.613	11.613	0.005	98	132822	1.88	
105 Fluorene	166	12.325	12.325	0.006	91	47603	0.6441	
* 127 Phenanthrene-d10	188	13.491	13.491	0.000	97	390450	5.00	
129 Phenanthrene	178	13.523	13.517	0.005	99	185231	1.95	
130 Anthracene	178	13.587	13.587	0.000	94	25960	0.2696	
138 Fluoranthene	202	15.181	15.181	0.000	96	26737	0.2737	
* 140 Pyrene-d10 (IS)	212	15.502	15.497	0.005	98	363834	5.00	
141 Pyrene	202	15.529	15.529	0.006	81	40741	0.4029	
$ 142 p-Terphenyl-d14	244	15.812	15.817	0.000	96	114538	1.74	
149 Benzo[a]anthracene	228	17.550	17.556	0.000	29	4928	0.0585	
151 Chrysene	228	17.620	17.615	0.005	14	1521	0.0180	
155 Benzo[b]fluoranthene	252		19.428				ND	7
157 Benzo[k]fluoranthene	252		19.476				ND	7
158 Benzo[a]pyrene	252		19.957				ND	U
* 159 Perylene-d12	264	20.053	20.048	0.005	96	399681	5.00	
163 Indeno[1,2,3-cd]pyrene	276		21.680				ND	7
164 Dibenz(a,h)anthracene	278		21.712				ND	7
165 Benzo[g,h,i]perylene	276		22.065				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
U - Marked Undetected

Reagents:

MSS_RV8270_IS_00013 Amount Added: 20.00 Units: uL Run Reagent

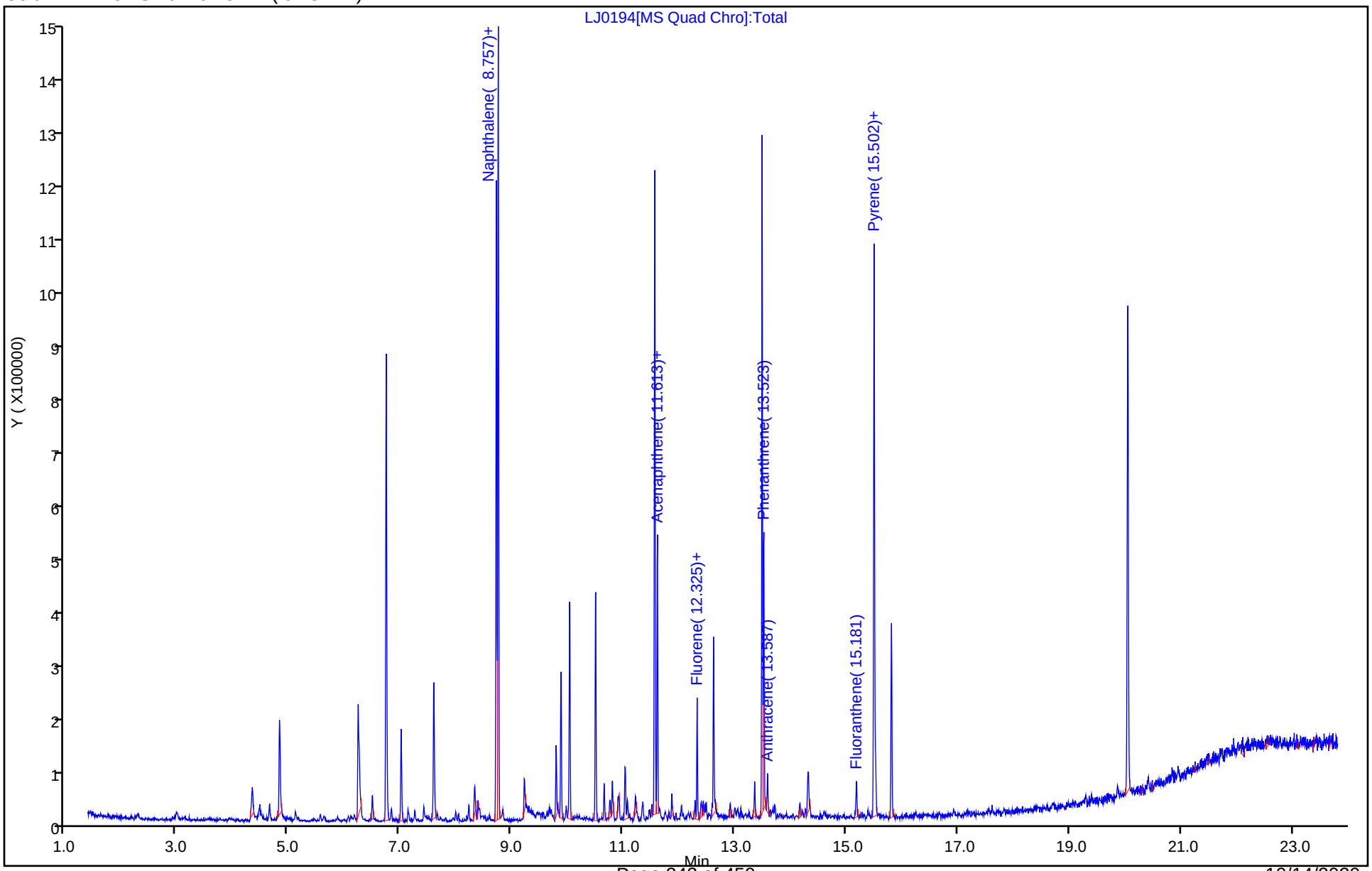
Report Date: 07-Oct-2020 21:20:37 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201007-12251.b\LJ0194.D

Injection Date:	07-Oct-2020 15:38:58	Instrument ID:	HP20296	Operator ID:	knb25316
Lims ID:	410-15639-D-3-A DL	Lab Sample ID:	410-15639-3	Worklist Smp#:	15
Client ID:	MW-13S-20200930				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



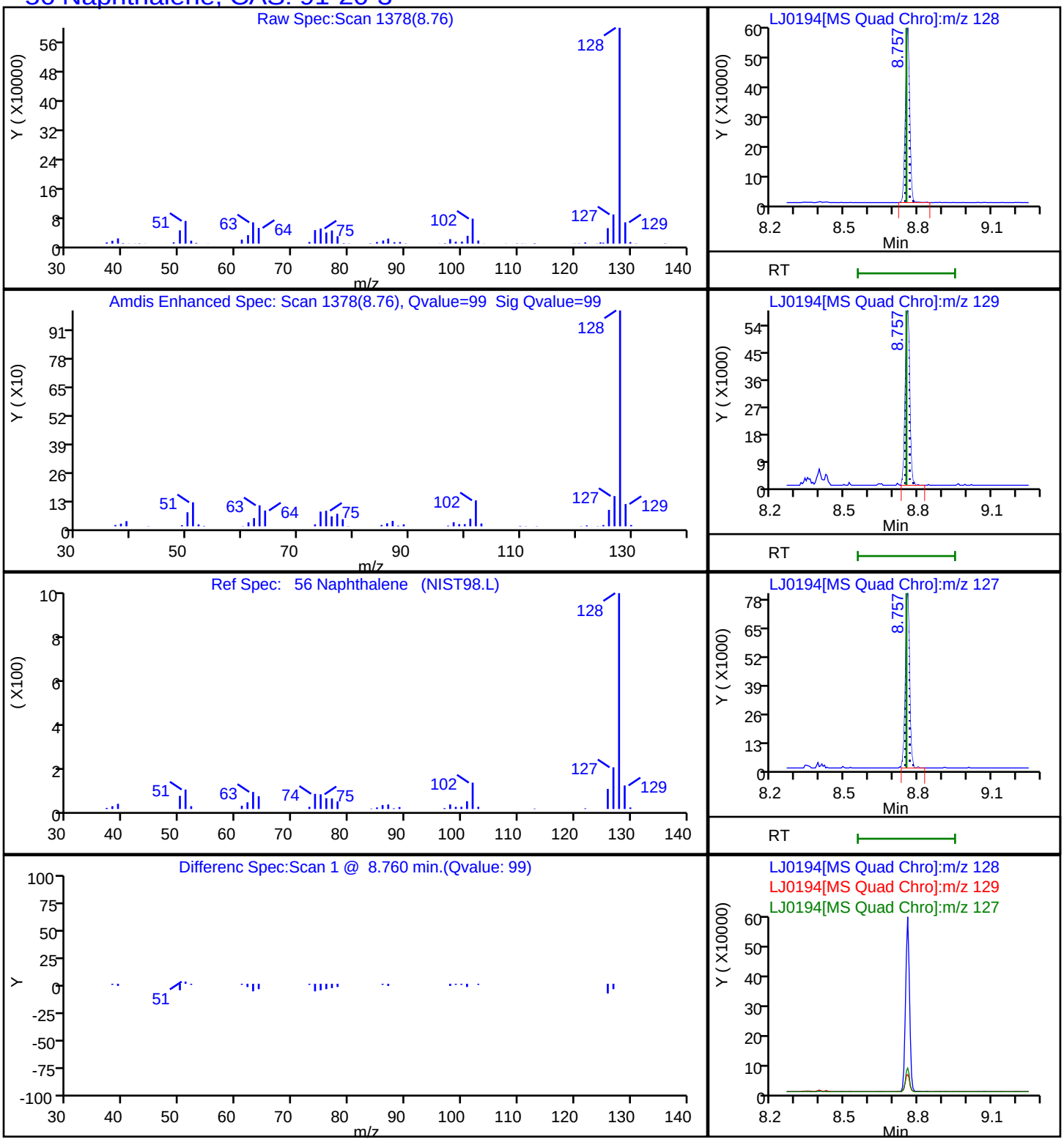
Report Date: 07-Oct-2020 21:20:37 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201007-12251.b\LJ0194.D

Injection Date:	07-Oct-2020 15:38:58	Instrument ID:	HP20296
Lims ID:	410-15639-D-3-A DL	Lab Sample ID:	410-15639-3
Client ID:	MW-13S-20200930		
Operator ID:	knb25316	ALS Bottle#:	0 Worklist Smp#: 15
Injection Vol:	1.0 ul	Dil. Factor:	10.0000
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN

56 Naphthalene, CAS: 91-20-3



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15639-1

SDG No.:

Client Sample ID: MW-13D-20200930 Lab Sample ID: 410-15639-4

Matrix: Ground Water Lab File ID: LJ0173.D

Analysis Method: 8270D Date Collected: 09/30/2020 10:47

Extract. Method: 3510C Date Extracted: 10/06/2020 09:00

Sample wt/vol: 248(mL) Date Analyzed: 10/07/2020 05:14

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.: 51485 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.50	0.10
208-96-8	Acenaphthylene	ND		0.50	0.10
120-12-7	Anthracene	ND		0.50	0.10
56-55-3	Benzo[a]anthracene	ND		0.50	0.10
50-32-8	Benzo[a]pyrene	ND		0.50	0.10
205-99-2	Benzo[b]fluoranthene	ND		0.50	0.10
191-24-2	Benzo[g,h,i]perylene	ND		0.50	0.10
207-08-9	Benzo[k]fluoranthene	ND		0.50	0.10
218-01-9	Chrysene	ND		0.50	0.10
53-70-3	Dibenz(a,h)anthracene	ND		0.50	0.10
206-44-0	Fluoranthene	ND		0.50	0.10
86-73-7	Fluorene	ND		0.50	0.10
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.50	0.10
91-20-3	Naphthalene	ND		0.50	0.10
85-01-8	Phenanthrene	ND		0.50	0.10
129-00-0	Pyrene	ND		0.50	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	71		44-102
4165-60-0	Nitrobenzene-d5 (Surr)	81		38-113
1718-51-0	p-Terphenyl-d14 (Surr)	62		34-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0173.D
Lims ID: 410-15639-D-4-A
Client ID: MW-13D-20200930
Sample Type: Client
Inject. Date: 07-Oct-2020 05:14:14 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-15639-D-4-A
Misc. Info.: 410-0012211-025
Operator ID: kel10217 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Oct-2020 14:36:36 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1017

First Level Reviewer: beckk Date: 07-Oct-2020 14:36:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 24 1,4-Dichlorobenzene-d4	152	6.735	6.730	0.005	95	131981	5.00	
$ 41 Nitrobenzene-d5	82	7.591	7.596	0.000	91	1112467	20.4	
* 55 Naphthalene-d8	136	8.714	8.709	0.005	99	539152	5.00	
56 Naphthalene	128		8.746				ND	7
$ 76 2-Fluorobiphenyl (Surr)	172	10.495	10.496	0.000	98	1266079	17.9	
90 Acenaphthylene	152		11.325				ND	
* 92 Acenaphthene-d10	164	11.555	11.555	0.000	97	225521	5.00	
93 Acenaphthene	153		11.603				ND	7
105 Fluorene	166		12.319				ND	7
* 127 Phenanthrene-d10	188	13.485	13.485	0.000	97	402074	5.00	
129 Phenanthrene	178		13.512				ND	7
130 Anthracene	178		13.582				ND	7
138 Fluoranthene	202		15.176				ND	
* 140 Pyrene-d10 (IS)	212	15.491	15.491	0.000	99	364251	5.00	
141 Pyrene	202		15.518				ND	7
$ 142 p-Terphenyl-d14	244	15.807	15.807	0.000	97	1032224	15.7	
149 Benzo[a]anthracene	228		17.545				ND	
151 Chrysene	228		17.609				ND	
155 Benzo[b]fluoranthene	252		19.422				ND	7
157 Benzo[k]fluoranthene	252		19.465				ND	7
158 Benzo[a]pyrene	252		19.952				ND	U
* 159 Perylene-d12	264	20.043	20.043	0.000	95	366593	5.00	
163 Indeno[1,2,3-cd]pyrene	276		21.669				ND	
164 Dibenz(a,h)anthracene	278		21.706				ND	7
165 Benzo[g,h,i]perylene	276		22.059				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
U - Marked Undetected

Reagents:

MSS_RV8270_IS_00013 Amount Added: 20.00 Units: uL Run Reagent

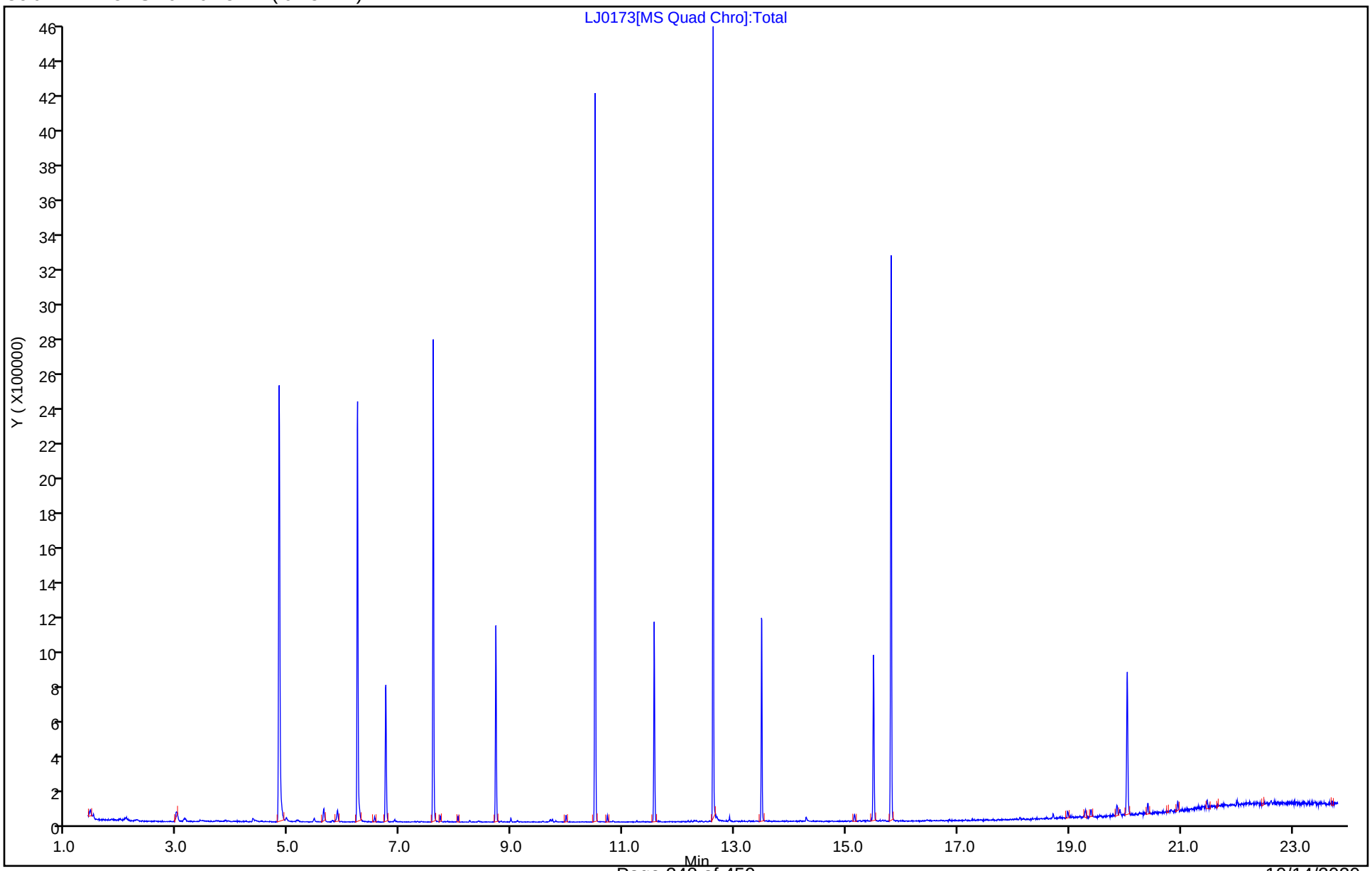
Report Date: 07-Oct-2020 14:41:32 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0173.D

Injection Date:	07-Oct-2020 05:14:14	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	410-15639-D-4-A	Lab Sample ID:	410-15639-4	Worklist Smp#:	25
Client ID:	MW-13D-20200930				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



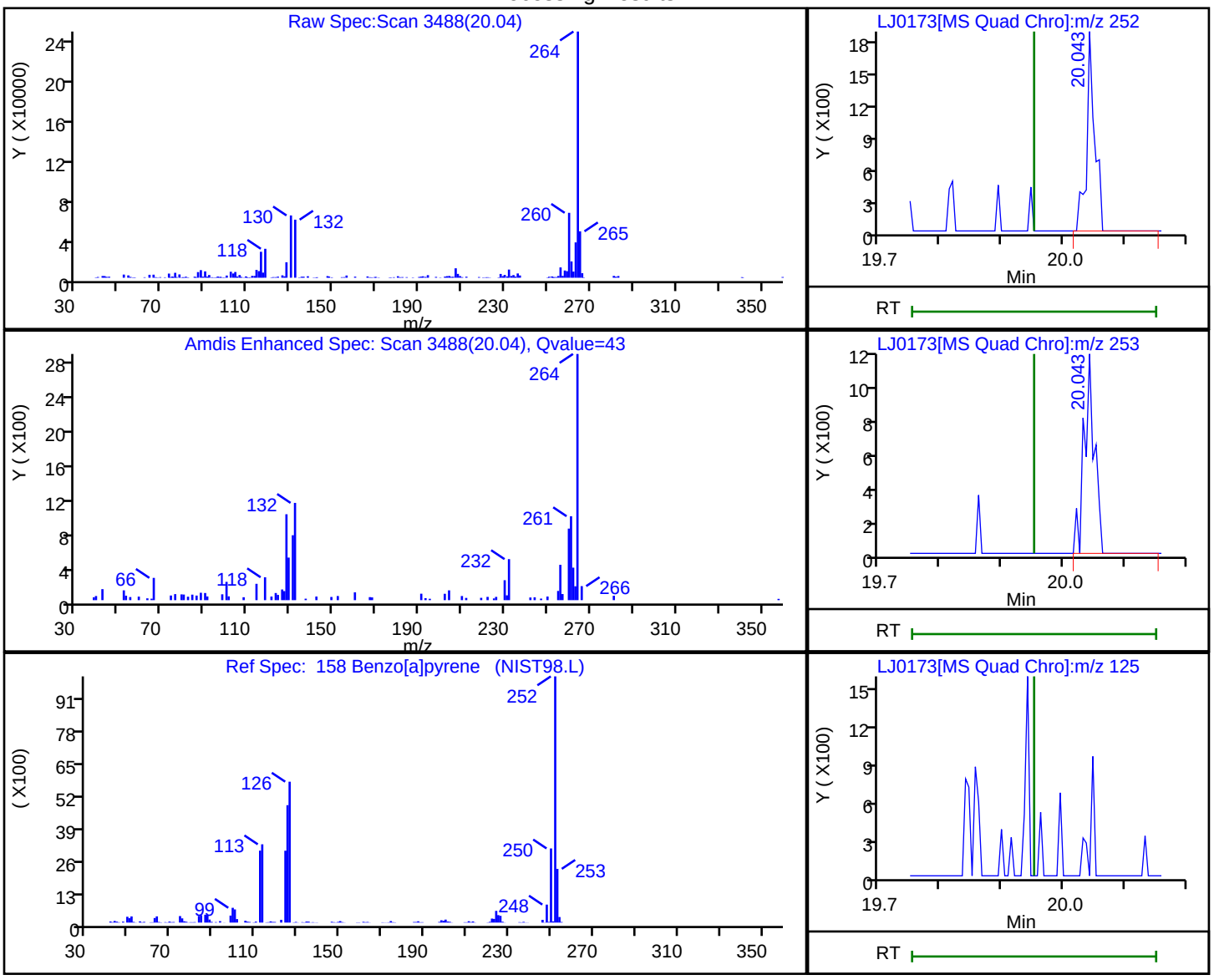
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0173.D				
Injection Date:	07-Oct-2020 05:14:14	Instrument ID:	HP20296		
Lims ID:	410-15639-D-4-A	Lab Sample ID:	410-15639-4		
Client ID:	MW-13D-20200930				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

158 Benzo[a]pyrene, CAS: 50-32-8

Processing Results



RT	Mass	Response	Amount
20.04	252.00	1680	0.019225
20.04	253.00	1355	
19.95	125.00	0	

Reviewer: beckk, 07-Oct-2020 14:36:02

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.: 410-15639-1

SDG No.:

Client Sample ID: DUP-20200930 Lab Sample ID: 410-15639-6

Matrix: Ground Water Lab File ID: LJ0174.D

Analysis Method: 8270D Date Collected: 09/30/2020 00:00

Extract. Method: 3510C Date Extracted: 10/06/2020 09:00

Sample wt/vol: 244(mL) Date Analyzed: 10/07/2020 05:43

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.: 51485 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	47		0.51	0.10
208-96-8	Acenaphthylene	7.6		0.51	0.10
120-12-7	Anthracene	1.6		0.51	0.10
56-55-3	Benzo[a]anthracene	4.8		0.51	0.10
50-32-8	Benzo[a]pyrene	ND		0.51	0.10
205-99-2	Benzo[b]fluoranthene	ND		0.51	0.10
191-24-2	Benzo[g,h,i]perylene	ND		0.51	0.10
207-08-9	Benzo[k]fluoranthene	ND		0.51	0.10
218-01-9	Chrysene	2.5		0.51	0.10
53-70-3	Dibenz(a,h)anthracene	ND		0.51	0.10
206-44-0	Fluoranthene	23		0.51	0.10
86-73-7	Fluorene	10		0.51	0.10
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.51	0.10
85-01-8	Phenanthrene	5.9		0.51	0.10
129-00-0	Pyrene	35		0.51	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	76		44-102
4165-60-0	Nitrobenzene-d5 (Surr)	90		38-113
1718-51-0	p-Terphenyl-d14 (Surr)	72		34-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0174.D
Lims ID: 410-15639-D-6-A
Client ID: DUP-20200930
Sample Type: Client
Inject. Date: 07-Oct-2020 05:43:12 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-15639-D-6-A
Misc. Info.: 410-0012211-026
Operator ID: kel10217 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Oct-2020 14:36:36 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1017

First Level Reviewer: beckk Date: 07-Oct-2020 14:36:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 24 1,4-Dichlorobenzene-d4	152	6.736	6.730	0.006	93	129720	5.00	
$ 41 Nitrobenzene-d5	82	7.591	7.596	0.000	90	1173272	22.5	
* 55 Naphthalene-d8	136	8.715	8.709	0.006	98	514021	5.00	
56 Naphthalene	128	8.752	8.747	0.006	99	5895083	50.7	E
$ 76 2-Fluorobiphenyl (Surr)	172	10.496	10.496	0.001	99	1269227	19.0	
90 Acenaphthylene	152	11.325	11.325	0.000	99	160774	1.84	
* 92 Acenaphthene-d10	164	11.555	11.555	0.001	97	212989	5.00	
93 Acenaphthene	153	11.603	11.603	0.000	98	734283	11.4	
105 Fluorene	166	12.320	12.320	0.001	93	164089	2.44	
* 127 Phenanthrene-d10	188	13.480	13.485	-0.005	96	379279	5.00	
129 Phenanthrene	178	13.512	13.512	0.000	98	132930	1.44	
130 Anthracene	178	13.577	13.582	-0.005	95	37206	0.3978	
138 Fluoranthene	202	15.176	15.176	0.000	99	522633	5.51	
* 140 Pyrene-d10 (IS)	212	15.491	15.491	0.000	98	327309	5.00	
141 Pyrene	202	15.523	15.518	0.005	94	786474	8.64	
$ 142 p-Terphenyl-d14	244	15.807	15.807	0.000	96	1066483	18.0	
149 Benzo[a]anthracene	228	17.545	17.545	0.000	98	88497	1.17	
151 Chrysene	228	17.609	17.609	0.000	96	46886	0.6179	
155 Benzo[b]fluoranthene	252		19.422				ND	7
157 Benzo[k]fluoranthene	252		19.465				ND	U
158 Benzo[a]pyrene	252		19.952				ND	U
* 159 Perylene-d12	264	20.043	20.043	0.000	97	387300	5.00	
163 Indeno[1,2,3-cd]pyrene	276		21.669				ND	7
164 Dibenz(a,h)anthracene	278		21.706				ND	7
165 Benzo[g,h,i]perylene	276		22.059				ND	7

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

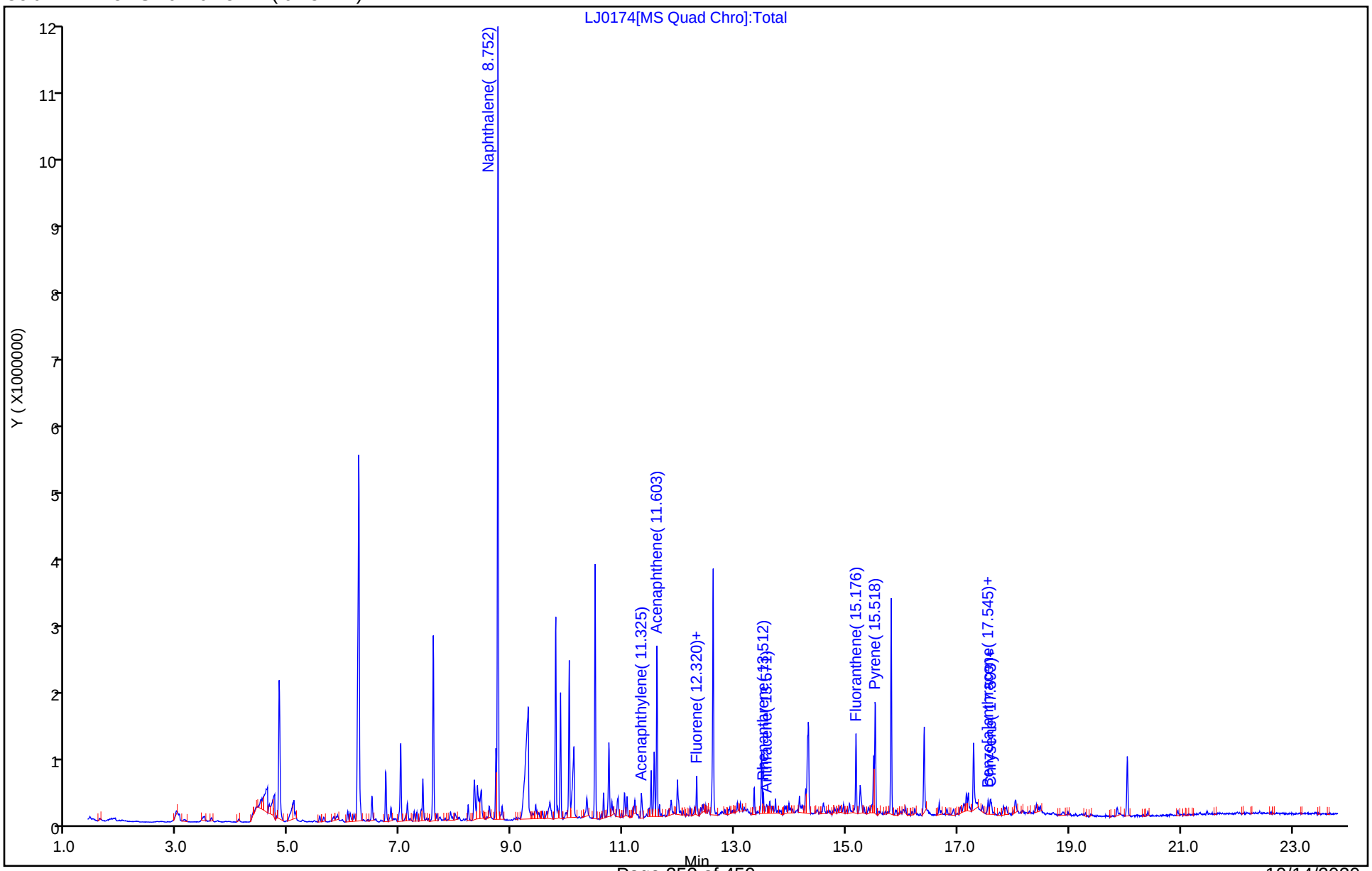
MSS_RV8270_IS_00013 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 07-Oct-2020 14:41:37 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0174.D				
Injection Date:	07-Oct-2020 05:43:12	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	410-15639-D-6-A	Lab Sample ID:	410-15639-6	Worklist Smp#:	26
Client ID:	DUP-20200930				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

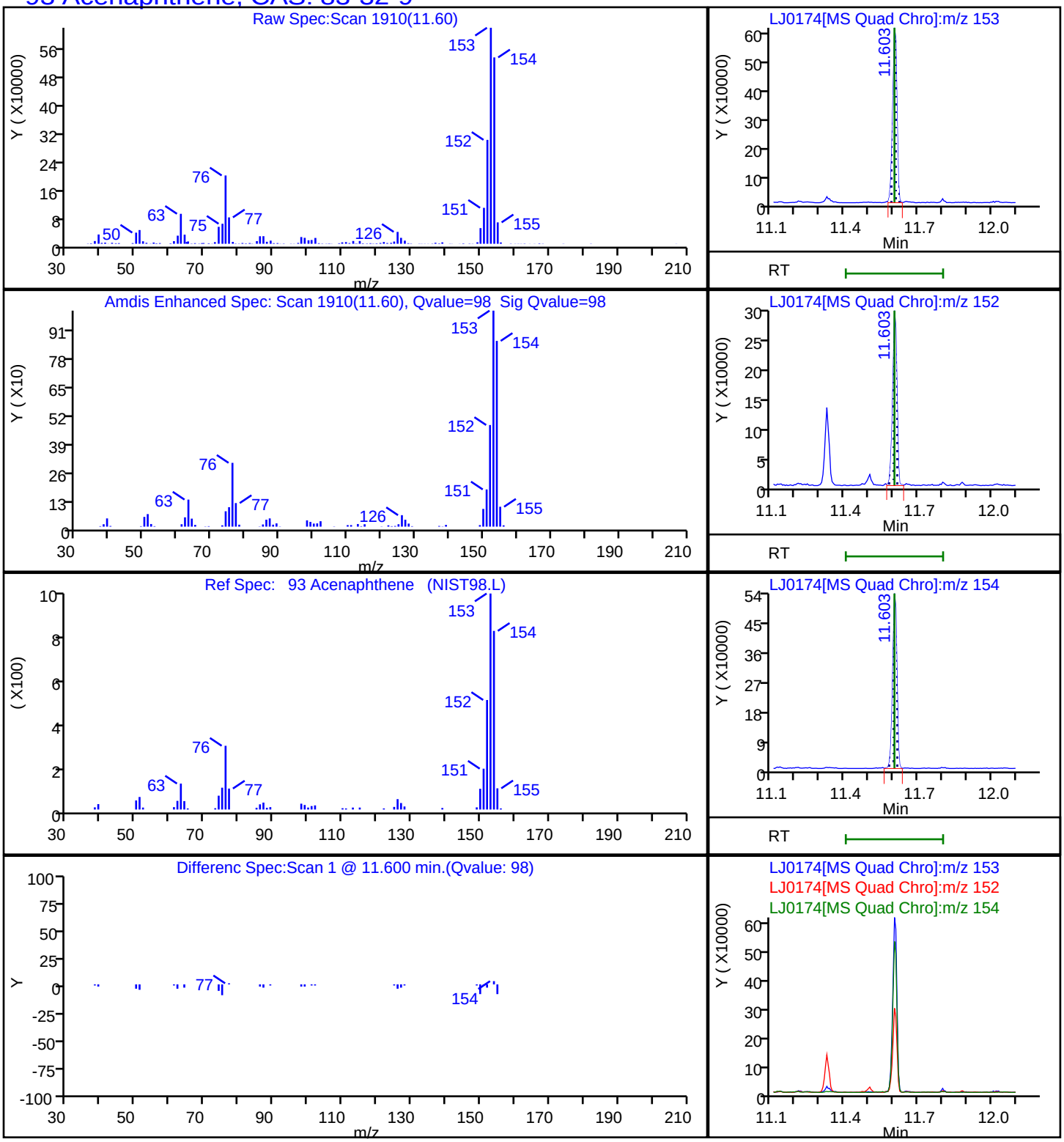
Column: DB-5MS 20m 0.18mm (0.18 mm)



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0174.D				
Injection Date:	07-Oct-2020 05:43:12	Instrument ID:	HP20296		
Lims ID:	410-15639-D-6-A	Lab Sample ID:	410-15639-6		
Client ID:	DUP-20200930				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

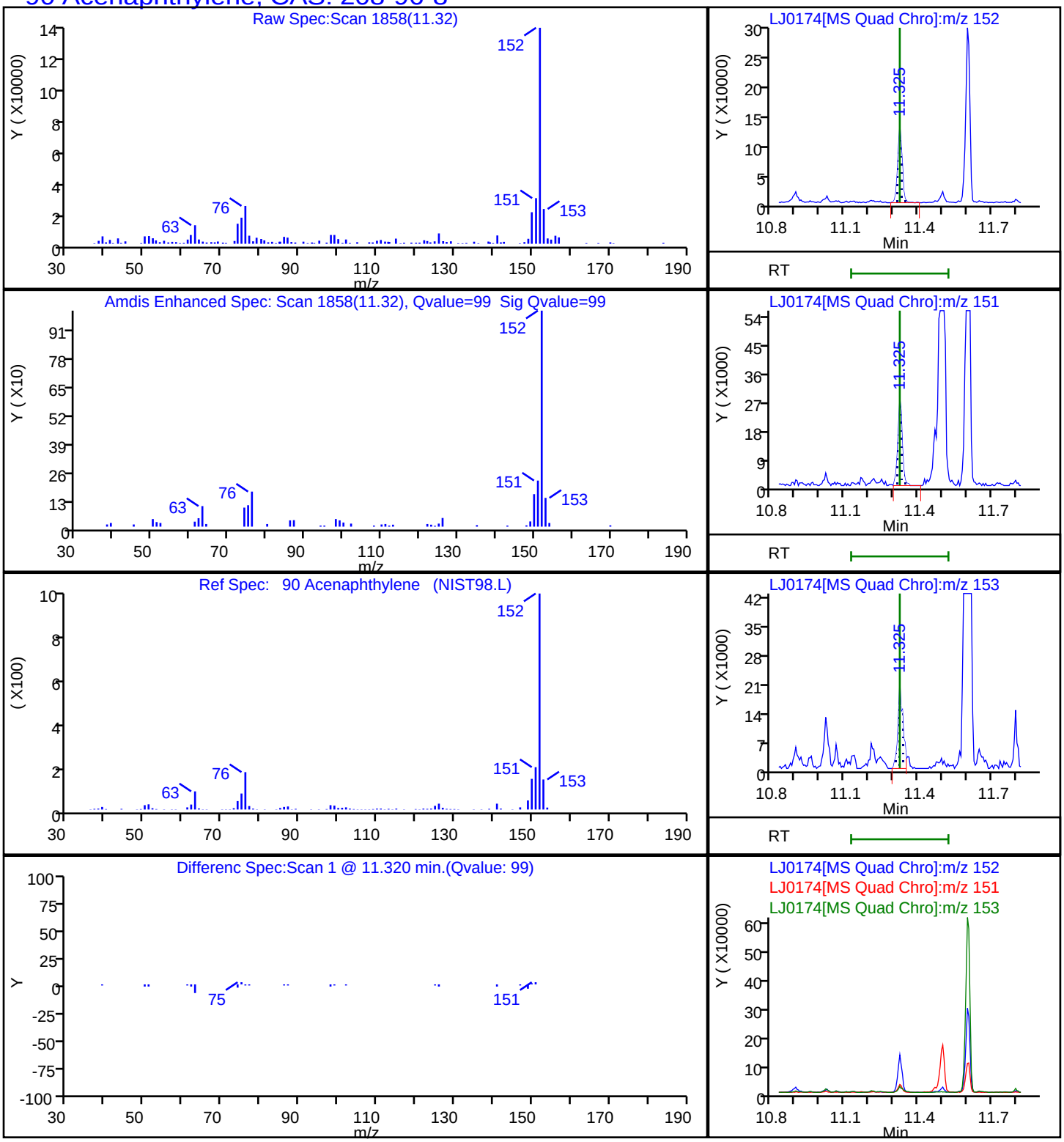
93 Acenaphthene, CAS: 83-32-9



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0174.D				
Injection Date:	07-Oct-2020 05:43:12	Instrument ID:	HP20296		
Lims ID:	410-15639-D-6-A	Lab Sample ID:	410-15639-6		
Client ID:	DUP-20200930				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

90 Acenaphthylene, CAS: 208-96-8



Report Date: 07-Oct-2020 14:41:37 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0174.D

Injection Date: 07-Oct-2020 05:43:12 Instrument ID: HP20296

Lims ID: 410-15639-D-6-A Lab Sample ID: 410-15639-6

Client ID: DUP-20200930

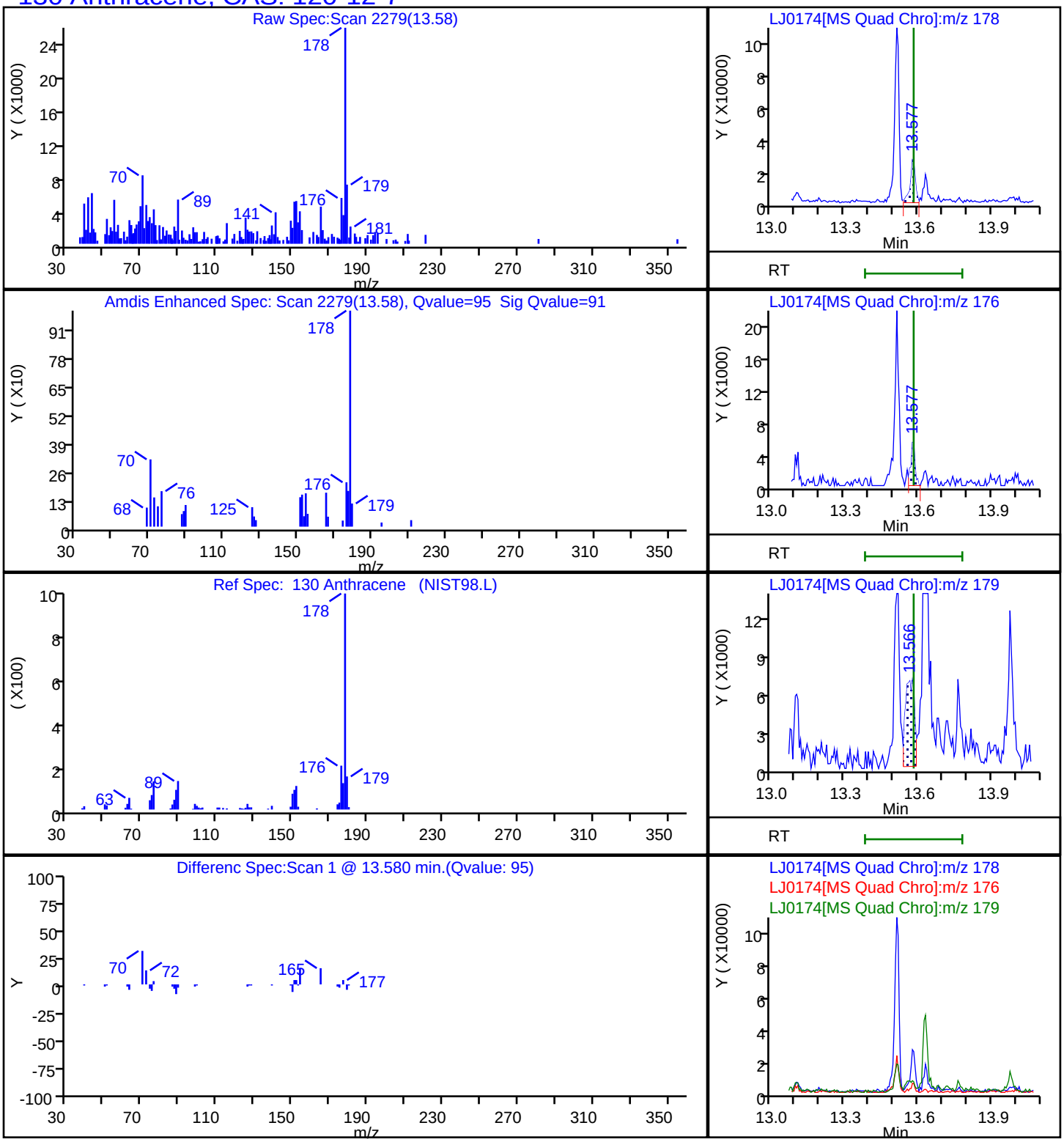
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 26

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

130 Anthracene, CAS: 120-12-7



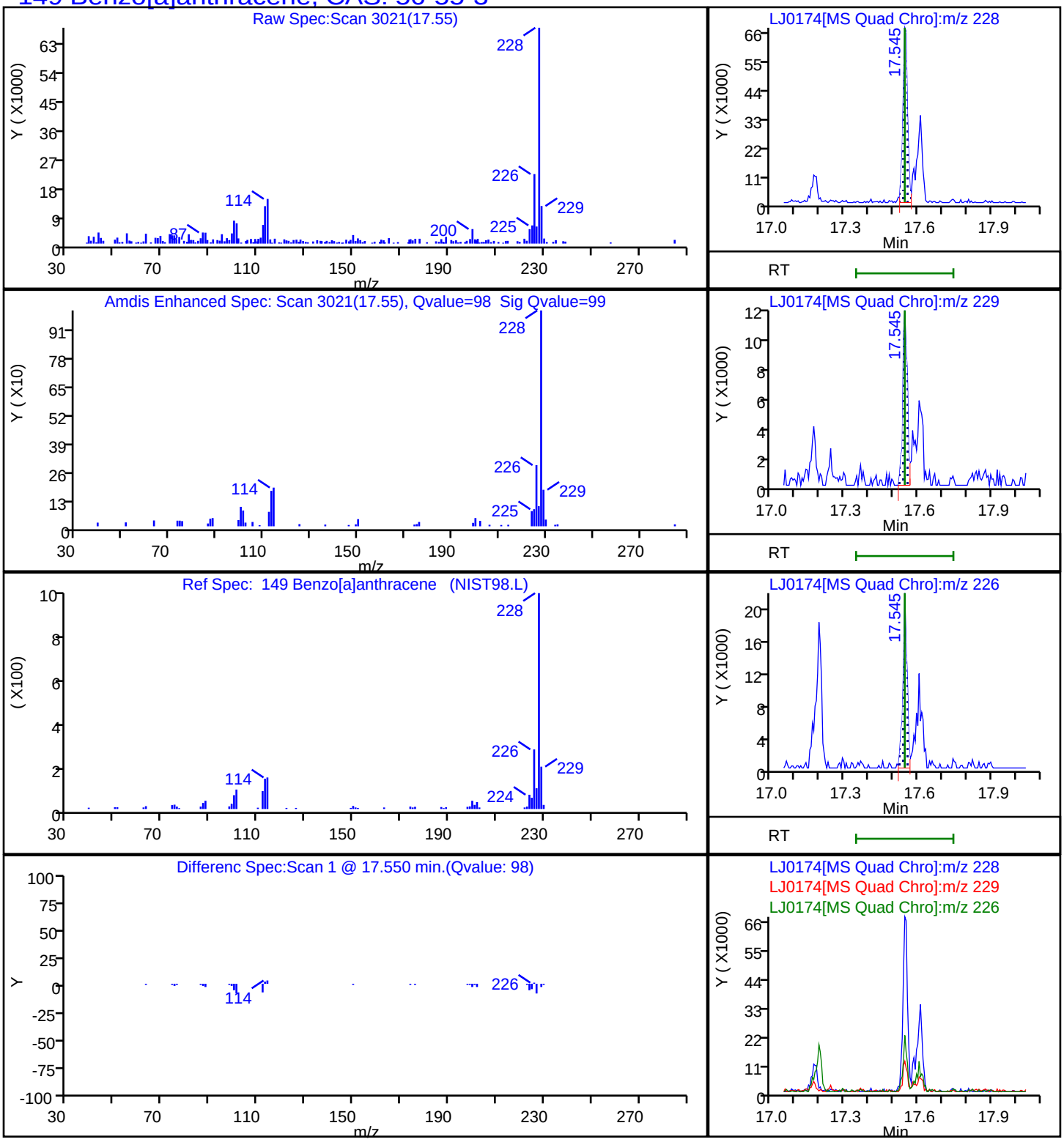
Report Date: 07-Oct-2020 14:41:38 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0174.D

Injection Date:	07-Oct-2020 05:43:12	Instrument ID:	HP20296		
Lims ID:	410-15639-D-6-A	Lab Sample ID:	410-15639-6		
Client ID:	DUP-20200930				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

149 Benzo[a]anthracene, CAS: 56-55-3



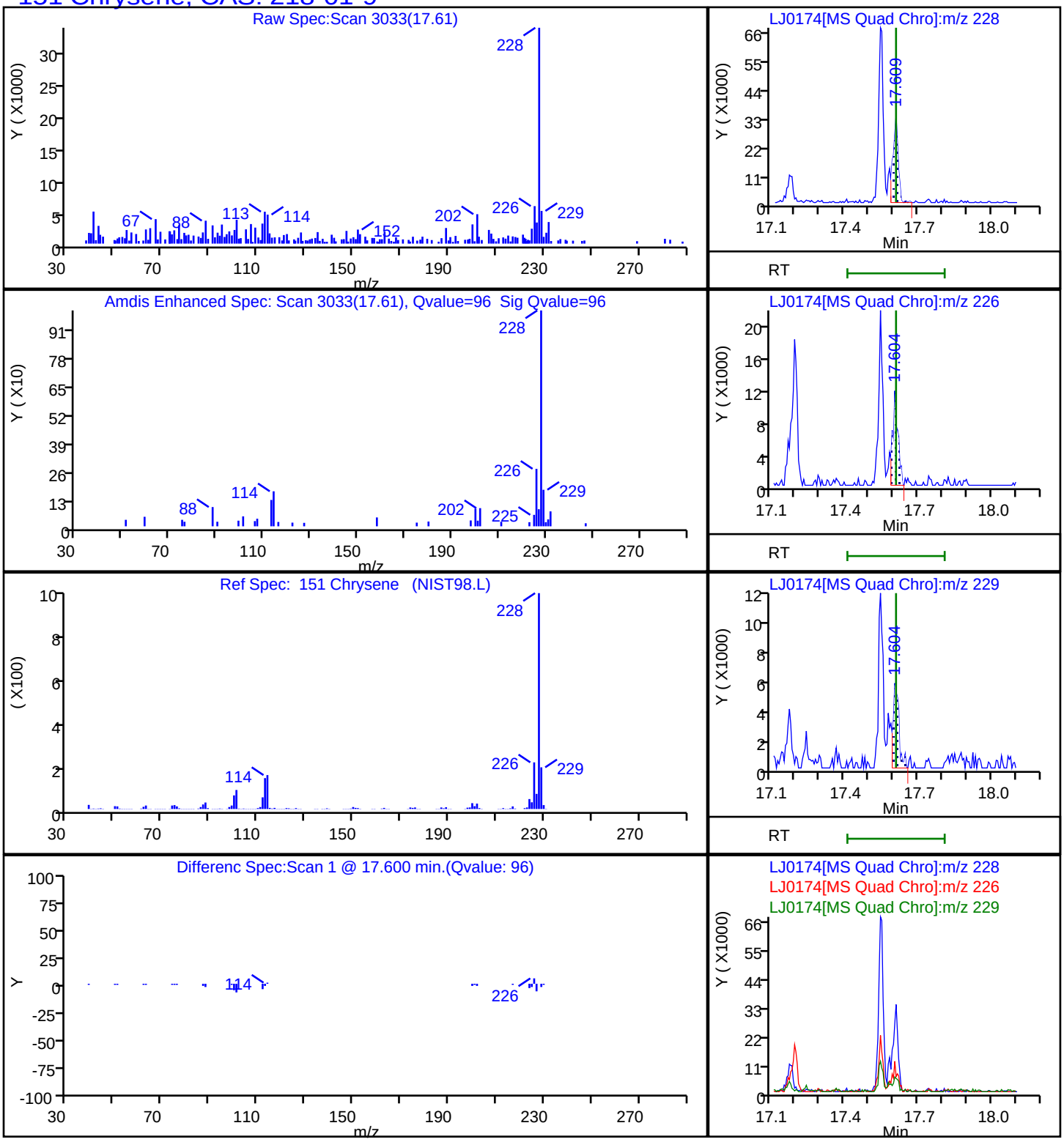
Report Date: 07-Oct-2020 14:41:38 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0174.D

Injection Date:	07-Oct-2020 05:43:12	Instrument ID:	HP20296		
Lims ID:	410-15639-D-6-A	Lab Sample ID:	410-15639-6		
Client ID:	DUP-20200930				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

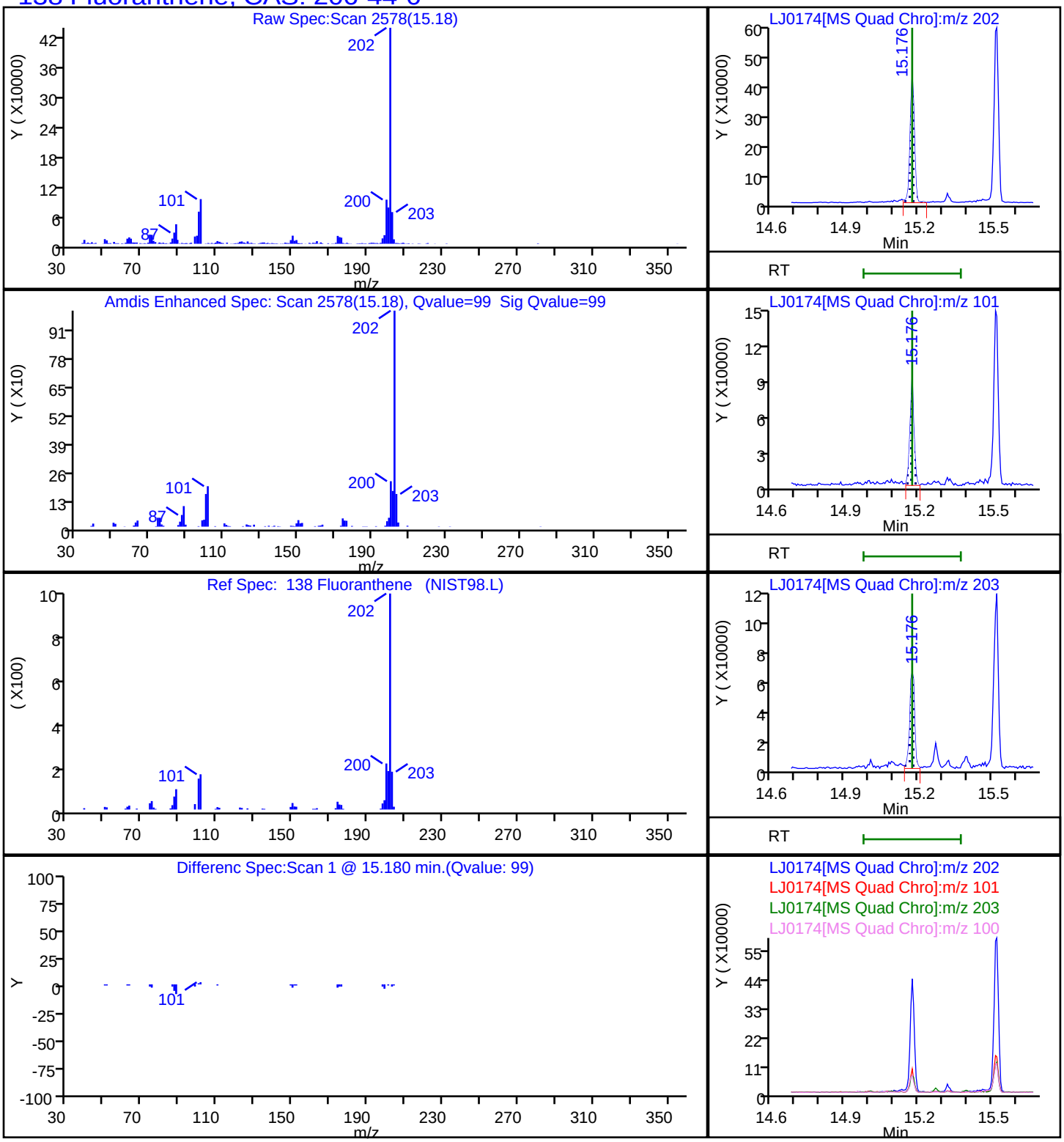
151 Chrysene, CAS: 218-01-9



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0174.D				
Injection Date:	07-Oct-2020 05:43:12	Instrument ID:	HP20296		
Lims ID:	410-15639-D-6-A	Lab Sample ID:	410-15639-6		
Client ID:	DUP-20200930				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

138 Fluoranthene, CAS: 206-44-0



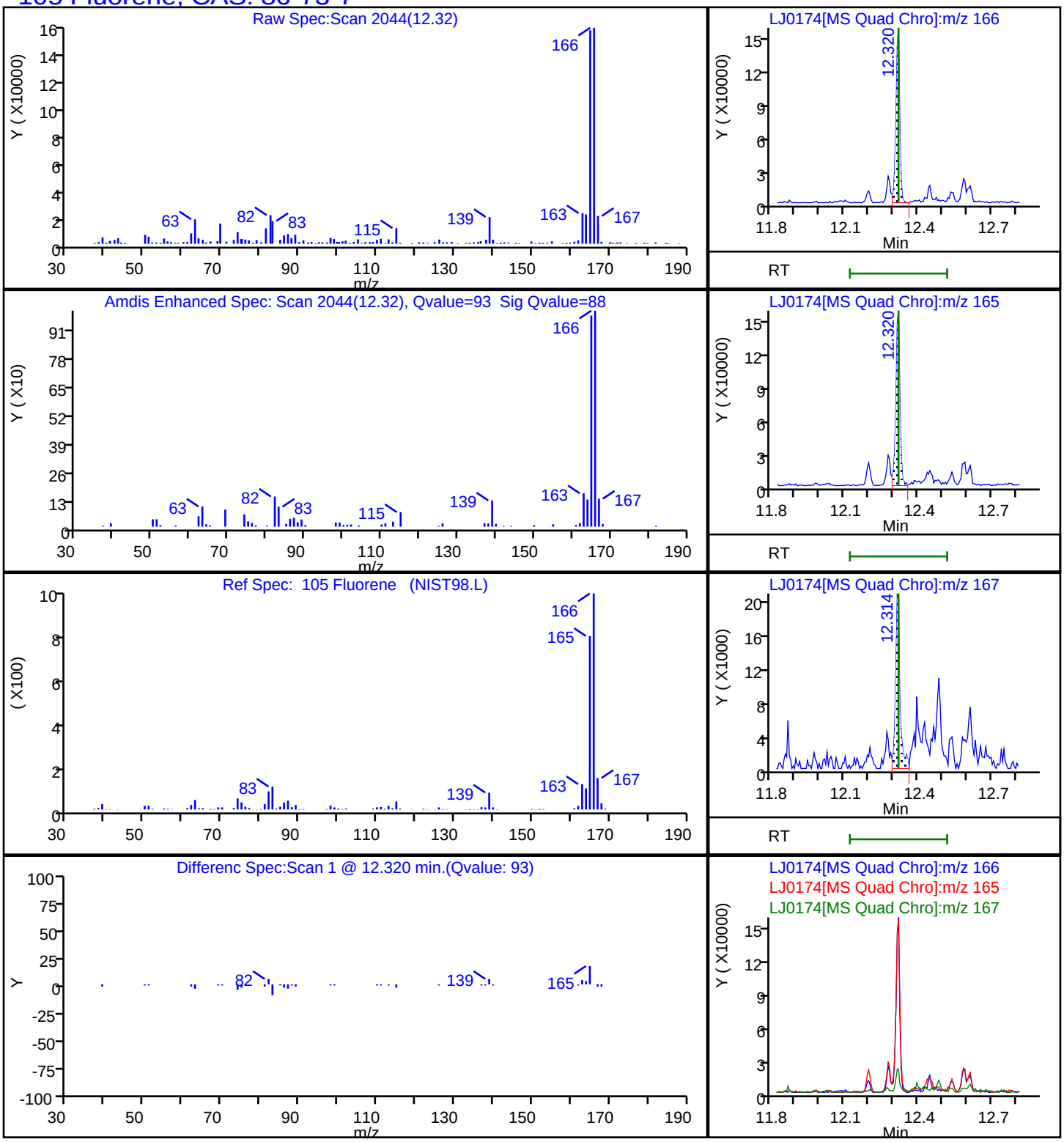
Report Date: 07-Oct-2020 14:41:37 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0174.D

Injection Date:	07-Oct-2020 05:43:12	Instrument ID:	HP20296		
Lims ID:	410-15639-D-6-A	Lab Sample ID:	410-15639-6		
Client ID:	DUP-20200930				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

105 Fluorene, CAS: 86-73-7



Report Date: 07-Oct-2020 14:41:37 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0174.D

Injection Date: 07-Oct-2020 05:43:12 Instrument ID: HP20296

Lims ID: 410-15639-D-6-A Lab Sample ID: 410-15639-6

Client ID: DUP-20200930

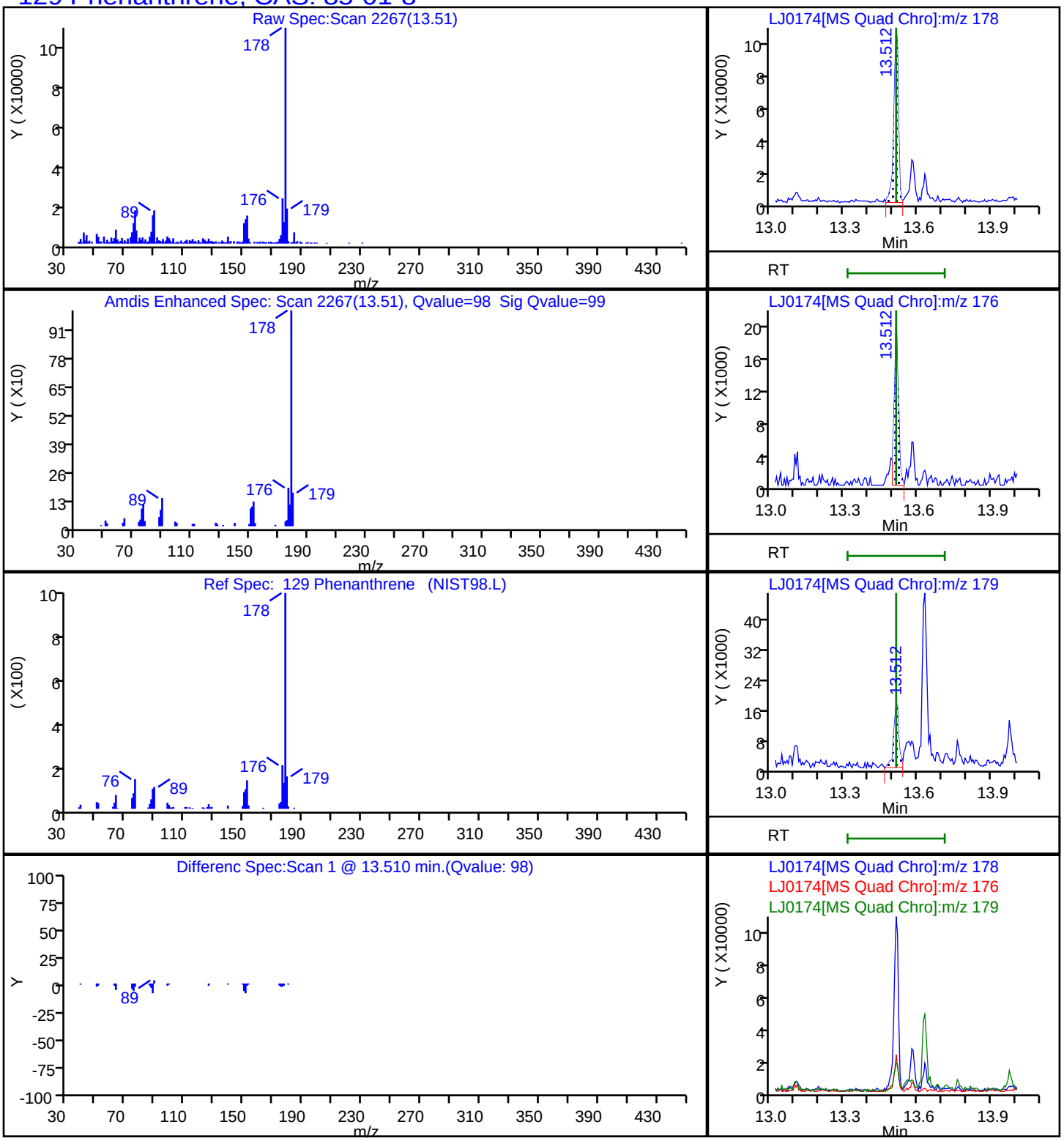
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 26

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

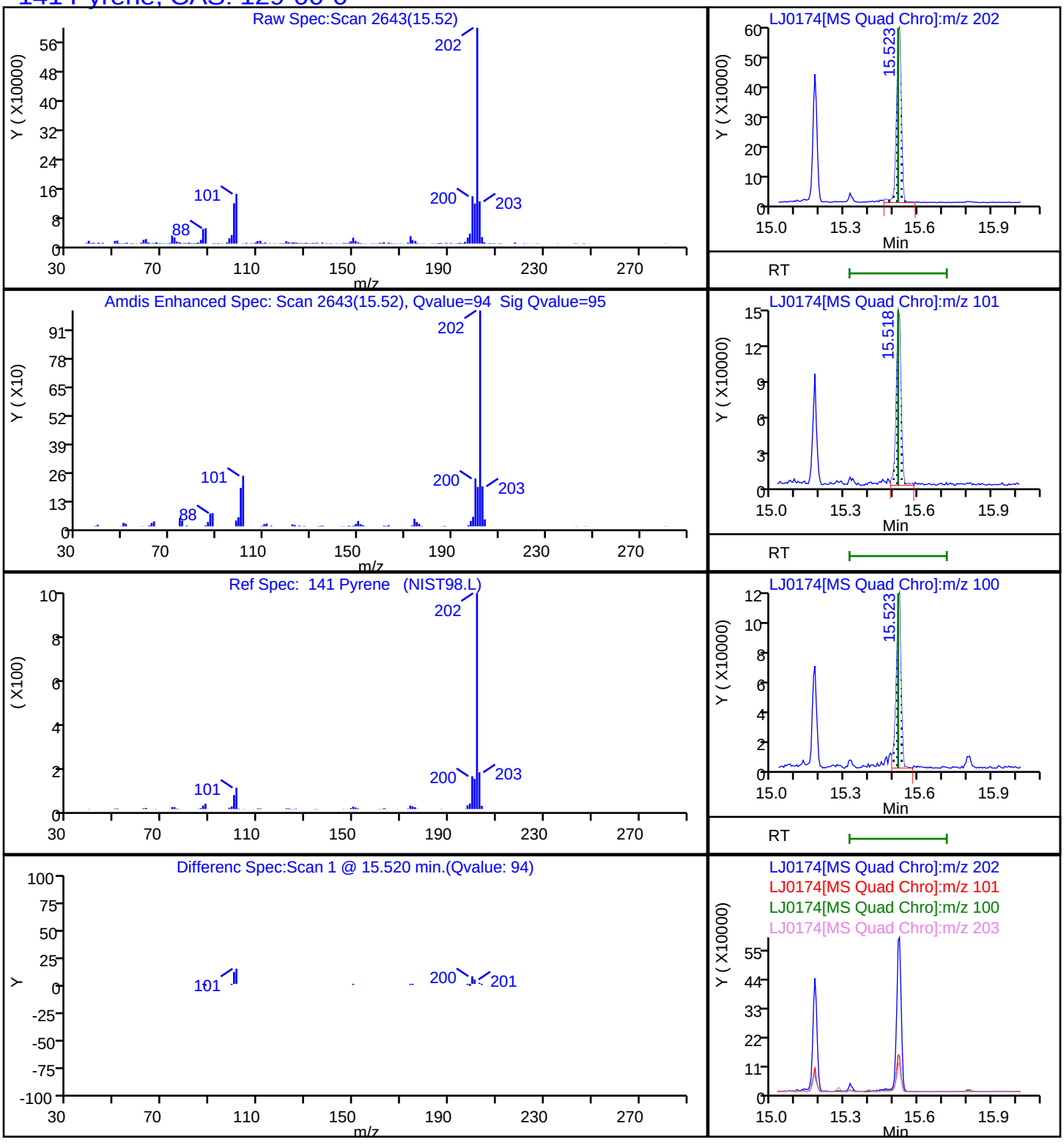
129 Phenanthrene, CAS: 85-01-8



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0174.D				
Injection Date:	07-Oct-2020 05:43:12	Instrument ID:	HP20296		
Lims ID:	410-15639-D-6-A	Lab Sample ID:	410-15639-6		
Client ID:	DUP-20200930				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

141 Pyrene, CAS: 129-00-0



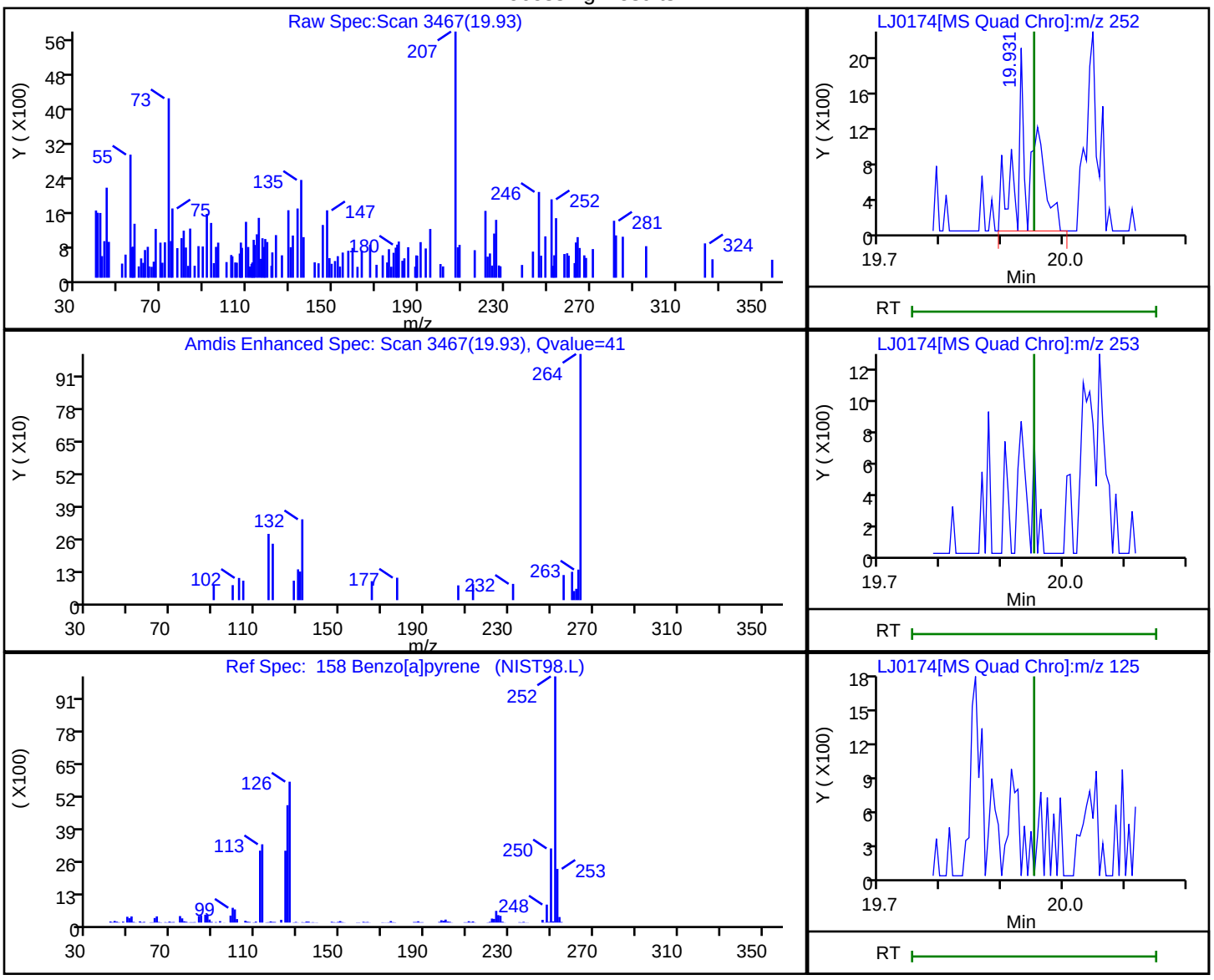
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0174.D				
Injection Date:	07-Oct-2020 05:43:12	Instrument ID:	HP20296		
Lims ID:	410-15639-D-6-A	Lab Sample ID:	410-15639-6		
Client ID:	DUP-20200930				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

158 Benzo[a]pyrene, CAS: 50-32-8

Processing Results



RT	Mass	Response	Amount
19.93	252.00	3640	0.039427
19.95	253.00	0	
19.95	125.00	0	

Reviewer: beckk, 07-Oct-2020 14:36:29

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

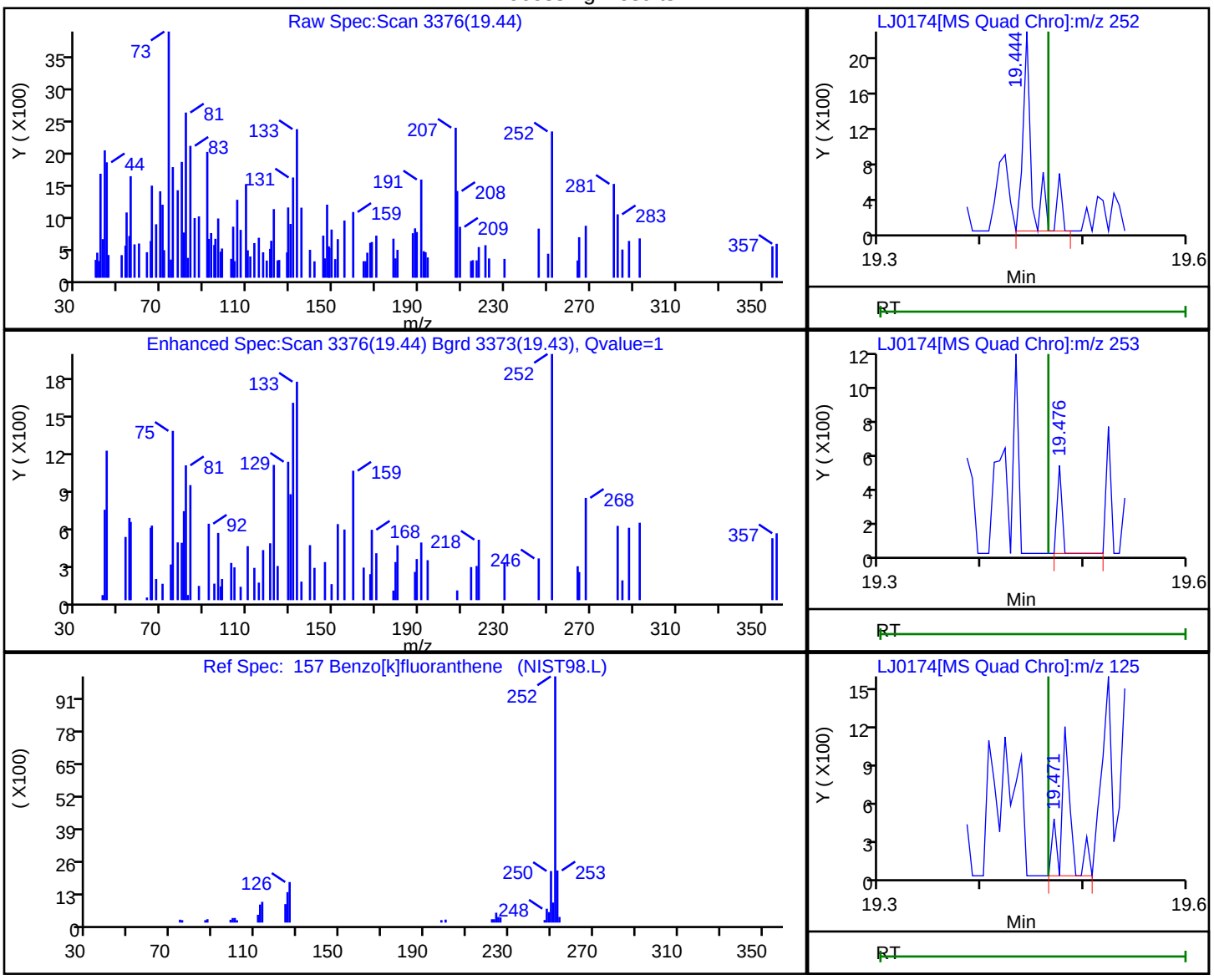
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0174.D				
Injection Date:	07-Oct-2020 05:43:12	Instrument ID:	HP20296		
Lims ID:	410-15639-D-6-A	Lab Sample ID:	410-15639-6		
Client ID:	DUP-20200930				
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

157 Benzo[k]fluoranthene, CAS: 207-08-9

Processing Results



RT	Mass	Response	Amount
19.44	252.00	1463	0.015366
19.48	253.00	161	
19.47	125.00	751	

Reviewer: beckk, 07-Oct-2020 14:36:27

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.: 410-15639-1

SDG No.:

Client Sample ID: DUP-20200930 DL Lab Sample ID: 410-15639-6 DL

Matrix: Ground Water Lab File ID: LJ0205.D

Analysis Method: 8270D Date Collected: 09/30/2020 00:00

Extract. Method: 3510C Date Extracted: 10/06/2020 09:00

Sample wt/vol: 244(mL) Date Analyzed: 10/07/2020 19:06

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.: 51967 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-20-3	Naphthalene	200		5.1	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	75		44-102
4165-60-0	Nitrobenzene-d5 (Surr)	85		38-113
1718-51-0	p-Terphenyl-d14 (Surr)	66		34-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201007-12332.b\LJ0205.D
Lims ID: 410-15639-D-6-A DL
Client ID: DUP-20200930
Sample Type: Client
Inject. Date: 07-Oct-2020 19:06:44 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 410-15639-D-6-A
Misc. Info.: 410-0012332-006
Operator ID: kel10217 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201007-12332.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Oct-2020 22:19:27 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1010

First Level Reviewer: luttek Date: 07-Oct-2020 22:13:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 24 1,4-Dichlorobenzene-d4	152	6.741	6.746	-0.005	95	133109	5.00	
$ 41 Nitrobenzene-d5	82	7.596	7.602	-0.006	90	116661	2.12	
* 55 Naphthalene-d8	136	8.720	8.725	-0.005	98	543971	5.00	
56 Naphthalene	128	8.752	8.757	-0.005	99	600470	4.88	
$ 76 2-Fluorobiphenyl (Surr)	172	10.495	10.506	-0.011	98	134462	1.88	
90 Acenaphthylene	152	11.335	11.335	0.000	95	16070	0.1725	
* 92 Acenaphthene-d10	164	11.560	11.565	-0.005	96	227400	5.00	
93 Acenaphthene	153	11.608	11.614	-0.006	98	77435	1.12	
105 Fluorene	166	12.319	12.325	-0.006	92	16322	0.2269	
* 127 Phenanthrene-d10	188	13.485	13.491	-0.006	96	385531	5.00	
129 Phenanthrene	178	13.517	13.523	-0.006	32	13304	0.1419	
130 Anthracene	178	13.587	13.593	-0.006	1	3085	0.0324	
138 Fluoranthene	202	15.181	15.186	-0.005	98	52376	0.5430	
* 140 Pyrene-d10 (IS)	212	15.496	15.502	-0.006	99	374667	5.00	
141 Pyrene	202	15.523	15.529	-0.006	95	79608	0.7644	
$ 142 p-Terphenyl-d14	244	15.807	15.818	-0.011	96	111886	1.65	
149 Benzo[a]anthracene	228	17.550	17.561	-0.011	37	8861	0.1022	
151 Chrysene	228	17.598	17.625	-0.027	1	7261	0.0836	
155 Benzo[b]fluoranthene	252		19.433				ND	7
157 Benzo[k]fluoranthene	252		19.481				ND	7
158 Benzo[a]pyrene	252		19.963				ND	U
* 159 Perylene-d12	264	20.048	20.054	-0.006	96	383860	5.00	
163 Indeno[1,2,3-cd]pyrene	276		21.680				ND	7
164 Dibenz(a,h)anthracene	278		21.717				ND	7
165 Benzo[g,h,i]perylene	276		22.076				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
U - Marked Undetected

Reagents:

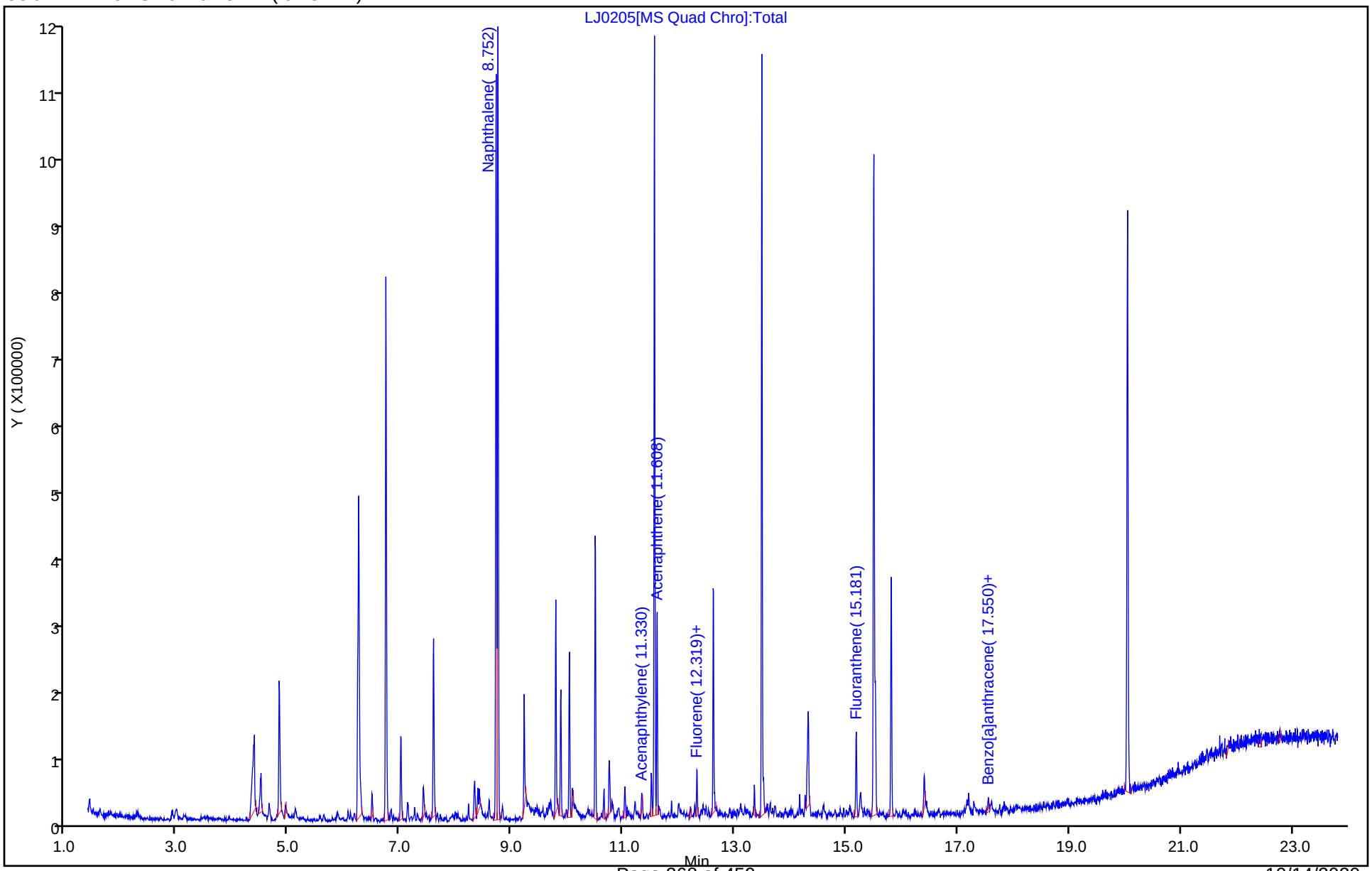
MSS_RV8270_IS_00013 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 07-Oct-2020 22:23:07 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201007-12332.b\LJ0205.D				
Injection Date:	07-Oct-2020 19:06:44	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	410-15639-D-6-A DL	Lab Sample ID:	410-15639-6	Worklist Smp#:	6
Client ID:	DUP-20200930				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)

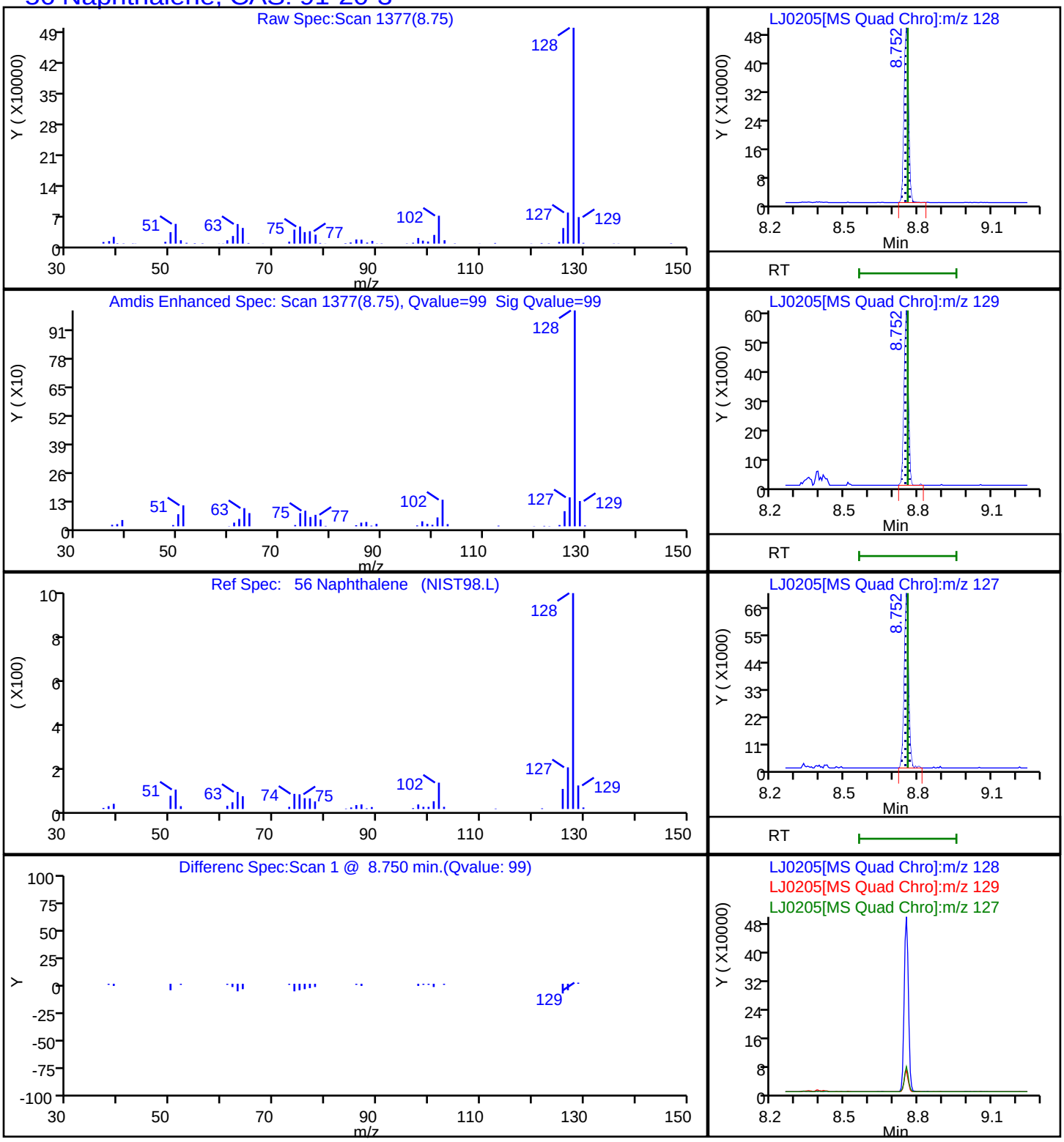


Report Date: 07-Oct-2020 22:23:07 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201007-12332.b\LJ0205.D		
Injection Date:	07-Oct-2020 19:06:44	Instrument ID:	HP20296
Lims ID:	410-15639-D-6-A DL	Lab Sample ID:	410-15639-6
Client ID:	DUP-20200930		
Operator ID:	kel10217	ALS Bottle#:	0 Worklist Smp#: 6
Injection Vol:	1.0 ul	Dil. Factor:	10.0000
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN

56 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.: 410-15639-1 Analy Batch No.: 22758

SDG No.:

Instrument ID: HP20296 GC Column: DB-5MS 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 13:18 Calibration End Date: 07/15/2020 16:51 Calibration ID: 6917

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-22758/3	LG0652.D
Level 2	IC 410-22758/9	LG0658.D
Level 3	IC 410-22758/8	LG0657.D
Level 4	IC 410-22758/7	LG0656.D
Level 5	ICIS 410-22758/2	LG0651.D
Level 6	IC 410-22758/6	LG0655.D
Level 7	IC 410-22758/5	LG0654.D
Level 8	IC 410-22758/4	LG0653.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	+++++ 0.6173	+++++ 0.6290	0.5761 0.7206	0.4837	0.6907	Ave		0.6196				13.6		20.0			
N-Nitrosodimethylamine	+++++ 1.0534	+++++ 1.1007	0.7831 1.1753	0.8003	0.8374	Ave		0.9584				17.9		20.0			
Pyridine	+++++ 1.8945	+++++ 1.9323	1.5086 1.9716	1.3899	1.4931	Ave		1.6983				15.4		20.0			
2-Picoline	+++++ 1.7612	+++++ 1.9875	2.0535 2.0591	1.9472	1.9684	Ave		1.9628				5.5		20.0			
N-Nitrosomethylethylamine	+++++ 0.7507	+++++ 0.7974	0.7989 0.8315	0.7607	0.7873	Ave		0.7877				3.7		20.0			
Methyl methanesulfonate	+++++ 0.9159	+++++ 0.8802	0.8825 0.8365	0.8567	0.8735	Ave		0.8742				3.1		20.0			
N-Nitrosodiethylamine	+++++ 0.7333	0.7151 0.7922	0.7730 0.8137	0.7254	0.7675	Ave		0.7600				4.8		20.0			
Ethyl methanesulfonate	+++++ 0.8230	0.7535 0.8739	0.8792 0.9014	0.8033	0.8688	Ave		0.8433				6.2		20.0			
Benzaldehyde	+++++ 1.6074	1.7262 1.4591	1.5022 1.4123	1.4903	1.4249	Ave		1.5175			0.0100	7.4		20.0			
Phenol	+++++ 2.3216	2.1677 2.4323	2.3847 2.4939	2.1409	2.2218	Ave		2.3090			0.8000	5.9		20.0			
Aniline	+++++ 2.8339	2.7652 2.8651	2.7124 2.9701	2.7328	2.8233	Ave		2.8147				3.1		20.0			
Bis(2-chloroethyl)ether	+++++ 1.8916	2.0048 1.8396	1.9372 1.9231	1.8063	1.8696	Ave		1.8960			0.7000	3.5		20.0			
2-Chlorophenol	+++++ 1.5800	1.5471 1.5285	1.4875 1.5883	1.4985	1.5464	Ave		1.5395			0.8000	2.5		20.0			
1,3-Dichlorobenzene	+++++ 1.6577	1.8364 1.6112	1.6206 1.6433	1.5751	1.5975	Ave		1.6488				5.3		20.0			

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1 Analy Batch No.: 22758

SDG No.:

Instrument ID: HP20296 GC Column: DB-5MS 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 13:18 Calibration End Date: 07/15/2020 16:51 Calibration ID: 6917

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,4-Dichlorobenzene	+++++ 1.6727	1.7980 1.6314	1.6724 1.6809	1.5921	1.6589	Ave		1.6724				3.8		20.0			
Benzyl alcohol	+++++ 1.1729	+++++ 1.1983	1.1430 1.2197	1.0992	1.2171	Ave		1.1750				4.0		20.0			
1,2-Dichlorobenzene	+++++ 1.5761	1.6577 1.5560	1.6299 1.6054	1.5125	1.5581	Ave		1.5851				3.1		20.0			
2-Methylphenol	+++++ 1.5405	1.5405 1.5377	1.6067 1.6058	1.5123	1.5528	Ave		1.5566			0.7000	2.3		20.0			
Indene	+++++ 2.4076	+++++ 2.4415	2.4971 2.4429	2.2217	2.4292	Ave		2.4067				4.0		20.0			
2,2'-oxybis[1-chloropropane]	+++++ 2.0480	2.3524 2.1009	2.1506 2.1676	2.0100	2.1612	Ave		2.1415			0.0100	5.2		20.0			
N-Nitrosopyrrolidine	+++++ 0.9064	0.7820 0.8970	0.8578 0.8893	0.8565	0.8710	Ave		0.8657				4.8		20.0			
Acetophenone	+++++ 2.6835	2.6633 2.4618	2.4141 2.5854	2.4656	2.4478	Ave		2.5316			0.0100	4.4		20.0			
4-Methylphenol (and/or 3-Methylphenol)	+++++ 1.6919	1.6169 1.6544	1.6433 1.6618	1.5857	1.6314	Ave		1.6408			0.6000	2.1		20.0			
N-Nitrosodi-n-propylamine	+++++ 1.4479	1.3376 1.4273	1.4432 1.4870	1.3765	1.3886	Ave		1.4154			0.5000	3.6		20.0			
N-Nitrosomorpholine	+++++ 0.9870	+++++ 0.9569	0.9673 0.9434	0.9606	0.9465	Ave		0.9603				1.6		20.0			
o-Toluidine	+++++ 2.7835	2.8293 2.7438	2.8482 2.7713	2.6346	2.7309	Ave		2.7631				2.6		20.0			
Hexachloroethane	+++++ 0.7692	+++++ 0.7380	0.7906 0.7635	0.7305	0.7587	Ave		0.7584			0.3000	2.9		20.0			
Nitrobenzene	+++++ 0.5074	0.5122 0.5116	0.5356 0.5149	0.5004	0.5143	Ave		0.5138			0.2000	2.1		20.0			
N-Nitrosopiperidine	+++++ 0.2038	0.1796 0.2029	0.1992 0.2018	0.1920	0.1999	Ave		0.1971				4.4		20.0			
Isophorone	+++++ 0.9099	0.8865 0.9205	0.9138 0.9191	0.8896	0.9164	Ave		0.9080			0.4000	1.6		20.0			
2-Nitrophenol	+++++ 0.1916	+++++ 0.1896	0.1749 0.1880	0.1785	0.1879	Ave		0.1851			0.1000	3.6		20.0			
2,4-Dimethylphenol	+++++ 0.4318	0.3961 0.4330	0.4327 0.4277	0.4251	0.4270	Ave		0.4248			0.2000	3.1		20.0			
o,o',o''-Triethylphosphorothioate	+++++ 0.1529	0.1481 0.1523	0.1505 0.1496	0.1431	0.1477	Ave		0.1492				2.2		20.0			
Benzoic acid	+++++ 0.2973	+++++ 0.3212	0.2465 0.2643	0.2613	0.3052	Ave		0.2826				10.4		20.0			

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1 Analy Batch No.: 22758

SDG No.:

Instrument ID: HP20296 GC Column: DB-5MS 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 13:18 Calibration End Date: 07/15/2020 16:51 Calibration ID: 6917

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Bis(2-chloroethoxy)methane	+++++ 0.5867	0.5999 0.5668	0.6072 0.5536	0.5694	0.5886	Ave		0.5817			0.3000	3.3		20.0			
2,4-Dichlorophenol	+++++ 0.2956	0.2525 0.2950	0.2798 0.2939	0.2874	0.3002	Ave		0.2863			0.2000	5.7		20.0			
1,2,4-Trichlorobenzene	+++++ 0.2951	0.3085 0.2935	0.2983 0.2909	0.2889	0.2955	Ave		0.2958				2.2		20.0			
Naphthalene	1.2079 1.1163	1.1494 1.1174	1.1247 1.1131	1.0926	1.1263	Ave		1.1310			0.7000	3.1		20.0			
4-Chloroaniline	+++++ 0.4539	0.4600 0.4571	0.4490 0.4545	0.4385	0.4467	Ave		0.4514			0.0100	1.6		20.0			
2,6-Dichlorophenol	+++++ 0.2885	0.2475 0.2807	0.2840 0.2782	0.2762	0.2893	Ave		0.2778				5.1		20.0			
Hexachloropropene	+++++ 0.1790	+++++ 0.1799	0.1746 0.1791	0.1697	0.1805	Ave		0.1771				2.4		20.0			
Hexachlorobutadiene	+++++ 0.1585	0.1503 0.1570	0.1601 0.1536	0.1503	0.1574	Ave		0.1553			0.0100	2.5		20.0			
Quinoline	+++++ 0.6939	+++++ 0.6939	0.7267 0.6900	0.6869	0.6890	Ave		0.6967				2.1		20.0			
Caprolactam	+++++ 0.1135	+++++ 0.1112	0.1082 0.1119	0.1078	0.1117	Ave		0.1107			0.0100	2.0		20.0			
N-Nitrosodi-n-butylamine	+++++ 0.4201	0.3184 0.4161	0.3314 0.4152	0.3072	0.3279	Ave		0.3623				14.3		20.0			
4-Chloro-3-methylphenol	+++++ 0.3716	0.3632 0.3816	0.3657 0.3733	0.3694	0.3773	Ave		0.3717			0.2000	1.7		20.0			
Safrole, Total	+++++ 0.2614	+++++ 0.2535	0.2430 0.2574	0.2434	0.2608	Ave		0.2533				3.3		20.0			
2-Methylnaphthalene	0.7224 0.7201	0.6757 0.7137	0.7566 0.7137	0.7129	0.7127	Ave		0.7160			0.4000	3.1		20.0			
1-Methylnaphthalene	0.6959 0.6865	0.6758 0.6816	0.6903 0.6742	0.6634	0.6743	Ave		0.6803				1.5		20.0			
Hexachlorocyclopentadiene	+++++ 0.3626	+++++ 0.3695	0.3612 0.3772	0.3581	0.3714	Ave		0.3667			0.0500	2.0		20.0			
1,2,4,5-Tetrachlorobenzene	+++++ 0.5517	0.5705 0.5604	0.5755 0.5711	0.5522	0.5752	Ave		0.5652			0.0100	1.8		20.0			
Isosafrole Peak 1	+++++ 0.6336	+++++ 0.6481	0.6913 0.6458	0.6022	0.6351	Ave		0.6427				4.5		20.0			
2,4,6-Trichlorophenol	+++++ 0.4102	0.3945 0.4208	0.3857 0.4300	0.3851	0.4109	Ave		0.4053			0.2000	4.3		20.0			
2,4,5-Trichlorophenol	+++++ 0.4295	0.3842 0.4380	0.4287 0.4437	0.4294	0.4487	Ave		0.4289			0.2000	4.9		20.0			

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1 Analy Batch No.: 22758

SDG No.:

Instrument ID: HP20296 GC Column: DB-5MS 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 13:18 Calibration End Date: 07/15/2020 16:51 Calibration ID: 6917

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Isosafrole Peak 2	+++++ 0.6739	0.6662 0.6839	0.6764 0.6983	0.6677	0.6859	Ave		0.6789				1.7		20.0			
1,1'-Biphenyl	+++++ 1.8438	1.8424 1.7783	1.7454 1.8551	1.8049	1.7948	Ave		1.8092			0.0100	2.2		20.0			
2-Chloronaphthalene	+++++ 1.3665	1.3747 1.4057	1.5358 1.4650	1.4113	1.4273	Ave		1.4266			0.8000	4.1		20.0			
1-Chloronaphthalene	+++++ 1.2645	1.3983 1.2307	1.2349 1.2363	1.2256	1.2895	Ave		1.2685				4.9		20.0			
Diphenyl ether	+++++ 0.8940	0.8503 0.9093	0.9256 0.9156	0.8944	0.9268	Ave		0.9023				2.9		20.0			
2-Nitroaniline	+++++ 0.4814	+++++ 0.4867	0.4862 0.5044	0.4765	0.4936	Ave		0.4881			0.0100	2.0		20.0			
1,4-Naphthoquinone	+++++ 0.5895	+++++ 0.5871	0.5452 0.5943	0.5857	0.5949	Ave		0.5828				3.2		20.0			
1,4-Dinitrobenzene	+++++ 0.2139	+++++ 0.2201	0.2108 0.2220	0.2100	0.2177	Ave		0.2158				2.3		20.0			
Dimethyl phthalate	+++++ 1.5031	+++++ 1.5368	1.6641 1.5708	1.5907	1.5994	Ave		1.5775			0.0100	3.5		20.0			
1,3-Dinitrobenzene	+++++ 0.2407	+++++ 0.2440	0.2508 0.2464	0.2409	0.2408	Ave		0.2439				1.7		20.0			
2,6-Dinitrotoluene	+++++ 0.3498	0.3201 0.3428	0.3547 0.3524	0.3546	0.3531	Ave		0.3468			0.2000	3.6		20.0			
Acenaphthylene	1.9894 2.0326	2.0919 2.0635	2.0472 2.1084	2.0138	2.0409	Ave		2.0484			0.9000	1.9		20.0			
3-Nitroaniline	+++++ 0.4080	+++++ 0.4030	0.4155 0.4223	0.4083	0.3937	Ave		0.4085			0.0100	2.4		20.0			
Acenaphthene	1.5791 1.4688	1.5352 1.5064	1.5217 1.5213	1.4736	1.5067	Ave		1.5141			0.9000	2.3		20.0			
2,4-Dinitrophenol	+++++ 0.1888	+++++ 0.1993	+++++ 0.2049	0.1677	0.1745	Ave		0.1870			0.0100	8.5		20.0			
4-Nitrophenol	+++++ 0.2901	+++++ 0.3264	+++++ 0.3267	0.2694	0.2800	Ave		0.2985			0.0100	8.9		20.0			
Pentachlorobenzene	+++++ 0.4731	0.4893 0.4760	0.5054 0.4766	0.4953	0.4966	Ave		0.4875				2.5		20.0			
2,4-Dinitrotoluene	+++++ 0.4755	+++++ 0.4807	0.4717 0.4959	0.4617	0.4727	Ave		0.4764			0.2000	2.4		20.0			
Dibenzofuran	+++++ 1.8662	1.9172 1.8692	2.0302 1.8873	1.8554	1.8999	Ave		1.9036			0.8000	3.1		20.0			
1-Naphthylamine	+++++ 1.5091	+++++ 1.5613	+++++ 1.6113	1.4821	1.5052	Ave		1.5338				3.4		20.0			

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1 Analy Batch No.: 22758

SDG No.:

Instrument ID: HP20296 GC Column: DB-5MS 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 13:18 Calibration End Date: 07/15/2020 16:51 Calibration ID: 6917

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2,3,4,6-Tetrachlorophenol	+++++ 0.3026	0.3168 0.3143	0.2965 0.3171	0.2969	0.3061	Ave		0.3072			0.0100	2.9		20.0			
2-Naphthylamine	+++++ 1.5388	+++++ 1.5620	+++++ 1.5845	1.5070	1.4840	Ave		1.5353				2.6		20.0			
Diethyl phthalate	+++++ 1.6324	+++++ 1.6755	1.7189 1.7247	1.5999	1.6375	Ave		1.6648			0.0100	3.0		20.0			
Thionazin	+++++ 0.3248	+++++ 0.3296	0.3445 0.3494	0.3425	0.3130	Ave		0.3340				4.2		20.0			
Fluorene	1.8275 1.5123	1.5998 1.5245	1.6108 1.5462	1.5164	1.5175	Ave		1.5819			0.9000	6.7		20.0			
4-Chlorophenyl-phenyl ether	+++++ 0.6286	0.6717 0.6265	0.6933 0.6455	0.6387	0.6507	Ave		0.6507			0.4000	3.7		20.0			
5-Nitro-o-toluidine	+++++ 0.4587	0.4558 0.4618	0.4817 0.4710	0.4457	0.4472	Ave		0.4603				2.8		20.0			
4-Nitroaniline	0.4388 0.4284	0.4494 0.4352	0.4695 0.4472	0.4488	0.4623	Ave		0.4475			0.0100	3.0		20.0			
4,6-Dinitro-2-methylphenol	+++++ 0.1255	+++++ 0.1265	+++++ 0.1275	0.1167	0.1246	Ave		0.1241			0.0100	3.5		20.0			
N-Nitrosodiphenylamine	+++++ 0.6738	0.7333 0.6712	0.7357 0.6767	0.6979	0.6868	Ave		0.6965			0.0100	3.9		20.0			
1,2-Diphenylhydrazine	+++++ 1.1918	1.2460 1.1700	1.2411 1.1611	1.1898	1.1795	Ave		1.1970				2.8		20.0			
Sulfotepp	+++++ 0.1994	+++++ 0.1920	0.1924 0.1987	0.2054	0.2059	Ave		0.1990				3.0		20.0			
cis-Diallate	+++++ 0.4747	+++++ 0.4783	0.5090 0.4844	0.4848	0.4861	Ave		0.4862				2.5		20.0			
Phorate	+++++ 0.7647	0.6678 0.7616	0.7814 0.7705	0.7480	0.7658	Ave		0.7514				5.1		20.0			
Phenacetin	+++++ 0.5728	0.4926 0.5610	0.5603 0.5633	0.5551	0.5687	Ave		0.5534				5.0		20.0			
4-Bromophenyl-phenylether	0.2027 0.1810	0.2317 0.1874	0.1984 0.1812	0.1899	0.1857	Ave		0.1947			0.1000	8.6		20.0			
trans-Diallate	+++++ 0.5045	+++++ 0.4927	0.5198 0.4974	0.4745	0.4896	Ave		0.4964				3.1		20.0			
Hexachlorobenzene	0.1978 0.2148	0.2230 0.2134	0.2194 0.2100	0.2156	0.2057	Ave		0.2125			0.1000	3.7		20.0			
Dimethoate	+++++ 0.5080	+++++ 0.4944	0.4733 0.5025	0.4869	0.5088	Ave		0.4957				2.8		20.0			
Atrazine	+++++ 0.2115	+++++ 0.1942	0.2269 0.1825	0.2193	0.2146	Ave		0.2082			0.0100	8.0		20.0			

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1 Analy Batch No.: 22758

SDG No.:

Instrument ID: HP20296 GC Column: DB-5MS 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 13:18 Calibration End Date: 07/15/2020 16:51 Calibration ID: 6917

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Pentachlorophenol	+++++ 0.1464	+++++ 0.1447	0.1263 0.1453	0.1345	0.1410	Ave		0.1397			0.0500	5.6		20.0			
4-Aminobiphenyl	+++++ 0.6699	0.6733 0.6542	0.6615 0.6281	0.6499	0.6795	Ave		0.6595				2.6		20.0			
Pentachloronitrobenzene	+++++ 0.1012	+++++ 0.0965	0.1029 0.0993	0.1000	0.0960	Ave		0.0993				2.7		20.0			
Pronamide	+++++ 0.4143	0.3516 0.4149	0.4084 0.4125	0.4018	0.4169	Ave		0.4029				5.8		20.0			
Dinoseb	+++++ 0.1851	+++++ 0.1892	+++++ 0.1915	0.1671	0.1772	Ave		0.1820				5.5		20.0			
Phenanthrene	1.2340 1.2214	1.3013 1.1779	1.2493 1.1842	1.1765	1.1819	Ave		1.2158			0.7000	3.7		20.0			
Anthracene	1.2675 1.2407	1.2759 1.2073	1.2256 1.2060	1.2200	1.2210	Ave		1.2330			0.7000	2.1		20.0			
Carbazole	+++++ 1.1766	1.1378 1.1570	1.1623 1.1589	1.1382	1.1613	Ave		1.1560			0.0100	1.2		20.0			
Methyl parathion	+++++ 0.4101	+++++ 0.4006	0.3594 0.4040	0.3788	0.3993	Ave		0.3920				4.9		20.0			
Di-n-butyl phthalate	+++++ 1.6563	+++++ 1.6470	1.6451 1.6523	1.6302	1.6739	Ave		1.6508			0.0100	0.9		20.0			
Parathion	+++++ 0.2522	+++++ 0.2473	0.2203 0.2446	0.2306	0.2373	Ave		0.2387				5.0		20.0			
4-Nitroquinoline-1-oxide	+++++ 0.1531	+++++ 0.1536	+++++ 0.1536	0.1277	0.1438	Ave		0.1464				7.7		20.0			
Octachlorostyrene	+++++ 0.0983	+++++ 0.0979	0.1026 0.0978	0.0979	0.1037	Ave		0.0997				2.7		20.0			
Isodrin	+++++ 0.1419	0.1755 0.1375	0.1478 0.1374	0.1381	0.1443	Ave		0.1461				9.3		20.0			
Fluoranthene	1.2677 1.2817	1.1337 1.2585	1.2819 1.2642	1.2418	1.2774	Ave		1.2509			0.6000	3.9		20.0			
Benzidine	+++++ 0.9865	+++++ 0.9305	0.9510 0.9267	0.9226	0.9389	Ave		0.9427				2.5		20.0			
Pyrene	1.5360 1.3914	1.4395 1.3307	1.3549 1.3461	1.3364	1.3832	Ave		1.3898			0.6000	5.0		20.0			
p-Dimethylamino azobenzene	+++++ 0.2274	+++++ 0.2161	0.1886 0.2252	0.2029	0.2232	Ave		0.2139				7.1		20.0			
Chlorobenzilate	+++++ 0.5461	+++++ 0.5285	0.5089 0.5395	0.5145	0.5464	Ave		0.5306				3.0		20.0			
3,3'-Dimethylbenzidine	+++++ 0.9521	+++++ 0.9043	0.8084 0.9041	0.8634	0.9115	Ave		0.8906				5.5		20.0			

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1 Analy Batch No.: 22758

SDG No.:

Instrument ID: HP20296 GC Column: DB-5MS 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 13:18 Calibration End Date: 07/15/2020 16:51 Calibration ID: 6917

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Butylbenzylphthalate	+++++ 0.8022	0.6604 0.7743	0.7287 0.7781	0.7568	0.7969	Ave		0.7568			0.0100	6.5		20.0			
2-Acetylaminofluorene	+++++ 0.6197	+++++ 0.6027	0.5091 0.6047	0.5369	0.6014	Ave		0.5791				7.7		20.0			
3,3'-Dichlorobenzidine	+++++ 0.4831	+++++ 0.4660	0.4073 0.4630	0.4468	0.4632	Ave		0.4549			0.0100	5.7		20.0			
4,4'-Methylene bis(2-chloroaniline)	+++++ 0.2488	+++++ 0.2381	0.2264 0.2381	0.2279	0.2478	Ave		0.2379				4.0		20.0			
Benzo[a]anthracene	1.1408 1.2129	1.1094 1.1517	1.1518 1.1588	1.1475	1.1859	Ave		1.1574			0.8000	2.7		20.0			
Chrysene	1.1444 1.1912	1.1646 1.1361	1.1517 1.1353	1.1669	1.1826	Ave		1.1591			0.7000	1.8		20.0			
Bis(2-ethylhexyl) phthalate	+++++ 1.1847	+++++ 1.1450	1.0608 1.1622	1.1073	1.1740	Ave		1.1390			0.0100	4.1		20.0			
6-Methylchrysene	+++++ 0.8404	+++++ 0.8035	0.7713 0.8041	0.7804	0.8284	Ave		0.8047				3.3		20.0			
Di-n-octyl phthalate	+++++ 2.1870	+++++ 2.2260	1.8676 2.2535	1.9746	2.1229	Ave		2.1053			0.0100	7.3		20.0			
Benzo[b]fluoranthene	1.2570 1.2814	1.2315 1.3046	1.2841 1.3177	1.2391	1.3046	Ave		1.2775			0.7000	2.5		20.0			
7,12-Dimethylbenz(a)anthracene	+++++ 0.5639	0.4627 0.5699	0.5185 0.5708	0.5207	0.5612	Ave		0.5383				7.5		20.0			
Benzo[k]fluoranthene	1.1876 1.2520	1.1928 1.2495	1.2281 1.2385	1.2408	1.2441	Ave		1.2292			0.7000	2.0		20.0			
Benzo[a]pyrene	1.1353 1.2135	1.1840 1.2208	1.1917 1.2287	1.1585	1.2024	Ave		1.1919			0.7000	2.7		20.0			
3-Methylcholanthrene	+++++ 0.6195	0.4884 0.6256	0.5672 0.6264	0.5715	0.6259	Ave		0.5892				8.7		20.0			
Dibenz[a,h]acridine	+++++ 0.9326	+++++ 0.9459	0.8705 0.9421	0.8869	0.9438	Ave		0.9203				3.6		20.0			
Dibenz[a,j]acridine	+++++ 0.9490	+++++ 0.9723	0.8961 0.9549	0.9191	0.9500	Ave		0.9402				2.9		20.0			
Indeno[1,2,3-cd]pyrene	1.1174 1.1188	1.0297 1.1510	1.0621 1.1656	1.1053	1.1333	Ave		1.1104			0.5000	4.1		20.0			
Dibenz(a,h)anthracene	1.0150 1.1573	1.0216 1.1635	1.1067 1.1614	1.1189	1.1605	Ave		1.1131			0.4000	5.6		20.0			
Benzo[g,h,i]perylene	1.2441 1.1294	1.0663 1.1309	1.0910 1.1181	1.1099	1.1390	Ave		1.1286			0.5000	4.6		20.0			
2-Fluorophenol (Surr)	+++++ 1.5115	+++++ 1.5766	1.6991 1.6463	1.4948	1.5934	Ave		1.5869				4.9		20.0			

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1 Analy Batch No.: 22758

SDG No.:

Instrument ID: HP20296 GC Column: DB-5MS 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 13:18 Calibration End Date: 07/15/2020 16:51 Calibration ID: 6917

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Phenol-d5 (Surr)	+++++ 2.0876	+++++ 2.0841	1.9695 2.1216	1.9524	2.0626	Ave		2.0463				3.4		20.0			
Nitrobenzene-d5 (Surr)	+++++ 0.5062	+++++ 0.5077	0.5227 0.5082	0.4837	0.5083	Ave		0.5061				2.5		20.0			
2-Fluorobiphenyl (Surr)	+++++ 1.5342	+++++ 1.5644	1.5691 1.6052	1.5531	1.5857	Ave		1.5686				1.6		20.0			
2,4,6-Tribromophenol (Surr)	+++++ 0.2014	+++++ 0.2029	0.1973 0.2087	0.1852	0.1973	Ave		0.1988				4.0		20.0			
p-Terphenyl-d14 (Surr)	+++++ 0.9212	+++++ 0.8974	0.8914 0.8993	0.8900	0.9269	Ave		0.9044				1.7		20.0			

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1 Analy Batch No.: 22758

SDG No.:

Instrument ID: HP20296 GC Column: DB-5MS 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 13:18 Calibration End Date: 07/15/2020 16:51 Calibration ID: 6917

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-22758/3	LG0652.D
Level 2	IC 410-22758/9	LG0658.D
Level 3	IC 410-22758/8	LG0657.D
Level 4	IC 410-22758/7	LG0656.D
Level 5	ICIS 410-22758/2	LG0651.D
Level 6	IC 410-22758/6	LG0655.D
Level 7	IC 410-22758/5	LG0654.D
Level 8	IC 410-22758/4	LG0653.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dioxane	DCBd 4	Ave	+++++ 271359	+++++ 468531	26188 807956	66346	199505	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
N-Nitrosodimethylamine	DCBd 4	Ave	+++++ 463048	+++++ 819891	35596 1317818	109775	241901	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Pyridine	DCBd 4	Ave	+++++ 832736	+++++ 1439356	68572 2210689	190665	431307	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
2-Picoline	DCBd 4	Ave	+++++ 774180	+++++ 1480452	93341 2308780	267107	568585	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
N-Nitrosomethylethylamine	DCBd 4	Ave	+++++ 329990	+++++ 593943	36312 932280	104350	227410	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Methyl methanesulfonate	DCBd 4	Ave	+++++ 402597	+++++ 655616	40115 937938	117524	252308	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
N-Nitrosodiethylamine	DCBd 4	Ave	+++++ 322312	6339 590124	35135 912374	99501	221707	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Ethyl methanesulfonate	DCBd 4	Ave	+++++ 361758	6679 650953	39963 1010729	110196	250965	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzaldehyde	DCBd 4	Ave	+++++ 706568	15301 1086833	68281 1583576	204433	411584	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Phenol	DCBd 4	Ave	+++++ 1020515	19215 1811756	108396 2796255	293684	641781	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Aniline	DCBd 4	Ave	+++++ 1245694	24511 2134140	123292 3330216	374869	815537	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Bis(2-chloroethyl)ether	DCBd 4	Ave	+++++ 831492	17771 1370274	88053 2156287	247777	540058	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Chlorophenol	DCBd 4	Ave	+++++ 694499	13714 1138554	67613 1780907	205555	446699	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,3-Dichlorobenzene	DCBd 4	Ave	+++++ 728650	16278 1200193	73664 1842508	216065	461438	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,4-Dichlorobenzene	DCBd 4	Ave	+++++ 735266	15938 1215216	76019 1884765	218396	479199	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1 Analy Batch No.: 22758

SDG No.:

Instrument ID: HP20296 GC Column: DB-5MS 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 13:18 Calibration End Date: 07/15/2020 16:51 Calibration ID: 6917

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Benzyl alcohol	DCBd 4	Ave	+++++ 515557	+++++ 892593	51952 1367536	150788	351566	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
1,2-Dichlorobenzene	DCBd 4	Ave	+++++ 692797	14694 1159056	74084 1800038	207472	450074	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Methylphenol	DCBd 4	Ave	+++++ 677171	13655 1145417	73031 1800514	207445	448525	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Indene	DCBd 4	Ave	+++++ 1058285	+++++ 1818605	113505 2739107	304767	701687	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
2,2'-oxybis[1-chloropropane]	DCBd 4	Ave	+++++ 900250	20852 1564952	97756 2430414	275725	624280	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
N-Nitrosopyrrolidine	DCBd 4	Ave	+++++ 398414	6932 668145	38992 997135	117488	251604	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Acetophenone	DCBd 4	Ave	+++++ 1179574	23608 1833786	109729 2898897	338219	707053	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4-Methylphenol (and/or 3-Methylphenol)	DCBd 4	Ave	+++++ 743696	14332 1232338	74693 1863285	217517	471256	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
N-Nitrosodi-n-propylamine	DCBd 4	Ave	+++++ 636432	11857 1063198	65599 1667271	188818	401114	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
N-Nitrosomorpholine	DCBd 4	Ave	+++++ 433864	+++++ 712769	43970 1057823	131772	273394	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
o-Toluidine	DCBd 4	Ave	+++++ 1223527	25079 2043837	129464 3107327	361403	788835	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Hexachloroethane	DCBd 4	Ave	+++++ 338115	+++++ 549701	35938 856077	100209	219163	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Nitrobenzene	NPT	Ave	+++++ 940453	18828 1553743	98704 2422758	276032	595515	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
N-Nitrosopiperidine	NPT	Ave	+++++ 377778	6603 616322	36715 949556	105915	231477	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Isophorone	NPT	Ave	+++++ 1686331	32590 2795391	168383 4324367	490757	1061110	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Nitrophenol	NPT	Ave	+++++ 355127	+++++ 575810	32236 884363	98464	217594	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
2,4-Dimethylphenol	NPT	Ave	+++++ 800324	14561 1315089	79728 2012207	234498	494380	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
o,o',o''-Triethylphosphorothioate	NPT	Ave	+++++ 283330	5445 462659	27735 703800	78962	171004	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzoic acid	NPT	Ave	+++++ 551094	+++++ 975337	136277 1243453	288279	471231	+++++ 12.5	+++++ 20.0	3.75 30.0	7.50	10.0
Bis(2-chloroethoxy)methane	NPT	Ave	+++++ 1087362	22055 1721300	111890 2604569	314104	681513	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,4-Dichlorophenol	NPT	Ave	+++++ 547777	9282 896022	51569 1382748	158525	347615	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1 Analy Batch No.: 22758

SDG No.:

Instrument ID: HP20296 GC Column: DB-5MS 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 13:18 Calibration End Date: 07/15/2020 16:51 Calibration ID: 6917

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2,4-Trichlorobenzene	NPT	Ave	+++++ 546907	11343 891266	54965 1368771	159360	342098	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Naphthalene	NPT	Ave	23364 2068897	42254 3393457	207248 5236874	602777	1304146	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4-Chloroaniline	NPT	Ave	+++++ 841319	16912 1388198	82747 2138555	241886	517214	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,6-Dichlorophenol	NPT	Ave	+++++ 534723	9097 852387	52329 1309133	152396	335000	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Hexachloropropene	NPT	Ave	+++++ 331832	+++++ 546293	32170 842615	93626	208993	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Hexachlorobutadiene	NPT	Ave	+++++ 293706	5527 476653	29498 722675	82935	182243	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Quinoline	NPT	Ave	+++++ 1286154	+++++ 2107221	133909 3246609	378939	797790	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Caprolactam	NPT	Ave	+++++ 210320	+++++ 337715	19946 526453	59490	129280	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
N-Nitrosodi-n-butylamine	NPT	Ave	+++++ 778629	11707 1263532	61070 1953592	169488	379644	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4-Chloro-3-methylphenol	NPT	Ave	+++++ 688728	13352 1158966	67381 1756446	203795	436900	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Safrole, Total	NPT	Ave	+++++ 484562	+++++ 769946	44787 1211194	134266	301930	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
2-Methylnaphthalene	NPT	Ave	13974 1334647	24840 2167392	139416 3358094	393299	825208	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1-Methylnaphthalene	NPT	Ave	13460 1272328	24846 2069975	127207 3172185	365995	780769	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Hexachlorocyclopentadiene	ANT	Ave	+++++ 317499	+++++ 526675	31910 810592	91620	199781	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
1,2,4,5-Tetrachlorobenzene	ANT	Ave	+++++ 483084	9603 798738	50839 1227143	141279	309390	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Isosafrole Peak 1	ANT	Ave	+++++ 88771	+++++ 147785	9771 222026	24652	54662	+++++ 2.00	+++++ 3.20	0.200 4.80	0.600	1.20
2,4,6-Trichlorophenol	ANT	Ave	+++++ 359178	6640 599703	34068 923894	98540	220994	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,4,5-Trichlorophenol	ANT	Ave	+++++ 376075	6467 624219	37870 953326	109872	241355	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Isosafrole Peak 2	ANT	Ave	+++++ 495705	9419 818794	50190 1260436	143500	309898	+++++ 10.5	0.210 16.8	1.05 25.2	3.15	6.30
1,1'-Biphenyl	ANT	Ave	+++++ 1614546	31010 2534569	154181 3986124	461803	965376	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Chloronaphthalene	ANT	Ave	+++++ 1196604	23138 2003446	135662 3147744	361107	767720	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1 Analy Batch No.: 22758

SDG No.:

Instrument ID: HP20296 GC Column: DB-5MS 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 13:18 Calibration End Date: 07/15/2020 16:51 Calibration ID: 6917

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1-Chloronaphthalene	ANT	Ave	+++++ 1107260	23535 1754050	109082 2656394	313575	693580	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Diphenyl ether	ANT	Ave	+++++ 782880	14311 1296074	81764 1967301	228840	498509	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Nitroaniline	ANT	Ave	+++++ 421502	+++++ 693623	42946 1083777	121908	265517	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
1,4-Naphthoquinone	ANT	Ave	+++++ 516187	+++++ 836851	48162 1277028	149849	319974	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
1,4-Dinitrobenzene	ANT	Ave	+++++ 187342	+++++ 313660	18621 477059	53742	117093	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Dimethyl phthalate	ANT	Ave	+++++ 1316180	+++++ 2190413	146999 3375226	407006	860319	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
1,3-Dinitrobenzene	ANT	Ave	+++++ 210739	+++++ 347782	22151 529351	61637	129548	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
2,6-Dinitrotoluene	ANT	Ave	+++++ 306276	5388 488524	31330 757250	90733	189928	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Acenaphthylene	ANT	Ave	17282 1779855	35210 2941018	180835 4530221	515254	1097747	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
3-Nitroaniline	ANT	Ave	+++++ 357232	+++++ 574335	36703 907492	104479	211750	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Acenaphthene	ANT	Ave	13718 1286194	25840 2147085	134414 3268801	377030	810421	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,4-Dinitrophenol	ANT	Ave	+++++ 165309	+++++ 284010	+++++ 440203	85817	125138	+++++ 12.5	+++++ 20.0	+++++ 30.0	7.50	10.0
4-Nitrophenol	ANT	Ave	+++++ 253994	+++++ 465172	+++++ 702056	68935	150590	+++++ 12.5	+++++ 20.0	+++++ 30.0	3.75	7.50
Pentachlorobenzene	ANT	Ave	+++++ 414297	8235 678395	44647 1024013	126721	267099	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,4-Dinitrotoluene	ANT	Ave	+++++ 416394	+++++ 685188	41671 1065642	118120	254248	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Dibenzofuran	ANT	Ave	+++++ 1634200	32270 2664080	179339 4055191	474710	1021923	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1-Naphthylamine	ANT	Ave	+++++ 1321443	+++++ 2225246	+++++ 3462168	379219	809614	+++++ 12.5	+++++ 20.0	+++++ 30.0	3.75	7.50
2,3,4,6-Tetrachlorophenol	ANT	Ave	+++++ 265006	5333 448025	26191 681250	75959	164638	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Naphthylamine	ANT	Ave	+++++ 1347425	+++++ 2226254	+++++ 3404644	385585	798226	+++++ 12.5	+++++ 20.0	+++++ 30.0	3.75	7.50
Diethyl phthalate	ANT	Ave	+++++ 1429396	+++++ 2388048	151833 3705882	409349	880805	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Thionazin	ANT	Ave	+++++ 284414	+++++ 469789	30429 750739	87623	168351	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1 Analy Batch No.: 22758

SDG No.:

Instrument ID: HP20296 GC Column: DB-5MS 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 13:18 Calibration End Date: 07/15/2020 16:51 Calibration ID: 6917

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Fluorene	ANT	Ave	15876 1324233	26927 2172891	142287 3322383	387980	816219	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4-Chlorophenyl-phenyl ether	ANT	Ave	+++++ 550453	11305 892903	61245 1386899	163422	349982	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
5-Nitro-o-toluidine	ANT	Ave	+++++ 401693	7671 658199	42553 1012000	114043	240521	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4-Nitroaniline	ANT	Ave	3812 375176	7564 620236	41473 960858	114837	248650	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4,6-Dinitro-2-methylphenol	PHN	Ave	+++++ 202226	+++++ 342142	+++++ 535722	54870	124123	+++++ 12.5	+++++ 20.0	+++++ 30.0	3.75	7.50
N-Nitrosodiphenylamine	PHN	Ave	+++++ 1085698	22938 1815711	118882 2844194	328240	684265	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,2-Diphenylhydrazine	PHN	Ave	+++++ 1920240	38979 3164914	200556 4879948	559570	1175157	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Sulfotepp	PHN	Ave	+++++ 321362	+++++ 519333	31085 834942	96581	205164	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
cis-Diallate	PHN	Ave	+++++ 566024	+++++ 957398	60861 1506574	168735	358393	+++++ 9.25	+++++ 14.8	0.925 22.2	2.78	5.55
Phorate	PHN	Ave	+++++ 1232164	20889 2060108	126277 3238121	351823	762996	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Phenacetin	PHN	Ave	+++++ 922940	15410 1517577	90537 2367591	261088	566555	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4-Bromophenyl-phenylether	PHN	Ave	3285 291586	7247 506861	32054 761661	89322	185015	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
trans-Diallate	PHN	Ave	+++++ 211344	+++++ 346518	21841 543469	58029	126816	+++++ 3.25	+++++ 5.20	0.325 7.80	0.975	1.95
Hexachlorobenzene	PHN	Ave	3206 346112	6977 577381	35452 882485	101397	204917	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dimethoate	PHN	Ave	+++++ 818558	+++++ 1337389	76490 2112024	229019	506912	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Atrazine	PHN	Ave	+++++ 340754	+++++ 525273	36667 766953	103133	213837	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Pentachlorophenol	PHN	Ave	+++++ 235890	+++++ 391430	20405 610463	63253	140510	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
4-Aminobiphenyl	PHN	Ave	+++++ 1079455	21064 1769719	106902 2639869	305675	676964	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Pentachloronitrobenzene	PHN	Ave	+++++ 163002	+++++ 260978	16624 417420	47017	95693	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Pronamide	PHN	Ave	+++++ 667520	11000 1122332	65997 1733642	188981	415371	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dinoseb	PHN	Ave	+++++ 298173	+++++ 511724	+++++ 804667	78577	176588	+++++ 12.5	+++++ 20.0	+++++ 30.0	3.75	7.50

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1 Analy Batch No.: 22758

SDG No.:

Instrument ID: HP20296 GC Column: DB-5MS 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 13:18 Calibration End Date: 07/15/2020 16:51 Calibration ID: 6917

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Phenanthrene	PHN	Ave	19996 1968020	40709 3186160	201884 4977020	553314	1177502	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Anthracene	PHN	Ave	20539 1999127	39913 3265869	198056 5068601	573815	1216522	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Carbazole	PHN	Ave	+++++ 1895833	35593 3129759	187822 4870556	535303	1157014	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Methyl parathion	PHN	Ave	+++++ 660773	+++++ 1083606	58074 1698059	178175	397851	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Di-n-butyl phthalate	PHN	Ave	+++++ 2668706	+++++ 4455242	265844 6944101	766703	1667708	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Parathion	PHN	Ave	+++++ 406425	+++++ 669006	35594 1027973	108476	236405	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
4-Nitroquinoline-1-oxide	PHN	Ave	+++++ 246613	+++++ 415520	+++++ 645333	60063	143306	+++++ 12.5	+++++ 20.0	+++++ 30.0	3.75	7.50
Octachlorostyrene	PHN	Ave	+++++ 158376	+++++ 264721	16585 410900	46022	103328	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Isodrin	PHN	Ave	+++++ 228562	5489 371924	23883 577260	64961	143806	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Fluoranthene	PHN	Ave	20542 2065223	35464 3404241	207142 5313202	584063	1272700	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzidine	PYR10	Ave	+++++ 4486151	+++++ 7228171	463646 11097442	1275964	2690879	+++++ 37.5	+++++ 60.0	3.75 90.0	11.3	22.5
Pyrene	PYR10	Ave	24277 2109273	43335 3445643	220205 5373359	616057	1321427	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
p-Dimethylamino azobenzene	PYR10	Ave	+++++ 344769	+++++ 559572	30658 899006	93541	213226	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Chlorobenzilate	PYR10	Ave	+++++ 827786	+++++ 1368509	82701 2153619	237166	522001	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
3,3'-Dimethylbenzidine	PYR10	Ave	+++++ 1443237	+++++ 2341591	131385 3608935	398000	870754	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Butylbenzylphthalate	PYR10	Ave	+++++ 1216038	19881 2005079	118433 3105918	348886	761298	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Acetylaminofluorene	PYR10	Ave	+++++ 939422	+++++ 1560589	82739 2414008	247519	574568	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
3,3'-Dichlorobenzidine	PYR10	Ave	+++++ 732366	+++++ 1206736	66194 1848023	205959	442477	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
4,4'-Methylene bis(2-chloroaniline)	PYR10	Ave	+++++ 377093	+++++ 616642	36800 950345	105076	236757	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Benzo[a]anthracene	PYR10	Ave	18032 1838626	33397 2982290	187198 4625732	528962	1132892	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Chrysene	PYR10	Ave	18088 1805825	35060 2941853	187176 4531782	537914	1129766	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1 Analy Batch No.: 22758

SDG No.:

Instrument ID: HP20296 GC Column: DB-5MS 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/15/2020 13:18 Calibration End Date: 07/15/2020 16:51 Calibration ID: 6917

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Bis(2-ethylhexyl) phthalate	PYR10	Ave	+++++ 1795922	+++++ 2964810	172406 4639182	510465	1121526	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
6-Methylchrysene	PYR10	Ave	+++++ 1273967	+++++ 2080525	125350 3209964	359739	791425	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Di-n-octyl phthalate	PRY	Ave	+++++ 3166207	+++++ 5251670	278142 8233994	870053	1948821	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Benzo[b]fluoranthene	PRY	Ave	18584 1855115	34904 3077802	191247 4814737	545993	1197598	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
7,12-Dimethylbenz(a)anthracene	PRY	Ave	+++++ 816467	13114 1344551	77223 2085638	229435	515160	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzo[k]fluoranthene	PRY	Ave	17557 1812579	33805 2947772	182905 4525455	546740	1142095	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzo[a]pyrene	PRY	Ave	16784 1756860	33556 2880188	177483 4489432	510456	1103845	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
3-Methylcholanthrene	PRY	Ave	+++++ 896946	13842 1475865	84471 2288807	251819	574631	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dibenz[a,h]acridine	PRY	Ave	+++++ 1350247	+++++ 2231697	129646 3442414	390814	866400	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Dibenz[a,j]acridine	PRY	Ave	+++++ 1373915	+++++ 2293981	133449 3488965	404988	872120	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Indeno[1,2,3-cd]pyrene	PRY	Ave	16520 1619765	29184 2715563	158181 4258795	487033	1040344	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dibenz(a,h)anthracene	PRY	Ave	15006 1675474	28955 2745026	164819 4243568	493007	1065370	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzo[g,h,i]perylene	PRY	Ave	18392 1635041	30221 2668026	162489 4085581	489056	1045647	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Fluorophenol (Surr)	DCBd4	Ave	+++++ 1328823	+++++ 2348795	154459 3691801	410102	920512	+++++ 25.0	+++++ 40.0	2.50 60.0	7.50	15.0
Phenol-d5 (Surr)	DCBd4	Ave	+++++ 1835233	+++++ 3104755	179048 4757697	535644	1191604	+++++ 25.0	+++++ 40.0	2.50 60.0	7.50	15.0
Nitrobenzene-d5 (Surr)	NPT	Ave	+++++ 1876351	+++++ 3083794	192648 4781897	533744	1177035	+++++ 25.0	+++++ 40.0	2.50 60.0	7.50	15.0
2-Fluorobiphenyl (Surr)	ANT	Ave	+++++ 2686936	+++++ 4459531	277209 6898149	794751	1705834	+++++ 25.0	+++++ 40.0	2.50 60.0	7.50	15.0
2,4,6-Tribromophenol (Surr)	ANT	Ave	+++++ 352754	+++++ 578365	34858 896961	94761	212254	+++++ 25.0	+++++ 40.0	2.50 60.0	7.50	15.0
p-Terphenyl-d14 (Surr)	PYR10	Ave	+++++ 2792843	+++++ 4647281	289744 7179903	820601	1770889	+++++ 25.0	+++++ 40.0	2.50 60.0	7.50	15.0

Curve Type Legend:
Ave = Average ISTD

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0651.D
Lims ID: ICIS L5
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 15-Jul-2020 13:18:15 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS L5
Misc. Info.: 410-0005639-002
Operator ID: lmh00956 Instrument ID: HP20296
Sublist: chrom-MSSemi_HP20296*sub6

Method: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 15-Jul-2020 19:25:24 Calib Date: 15-Jul-2020 16:51:20
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0658.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1062

First Level Reviewer: transuea Date: 15-Jul-2020 19:25:24

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	2.740	2.740	0.000	93	199505	7.50	8.36	
2 N-Nitrosodimethylamine	74	3.248	3.248	0.000	91	241901	7.50	6.55	
3 Pyridine	79	3.286	3.286	0.000	98	431307	7.50	6.59	
5 2-Picoline	93	4.425	4.425	0.000	93	568585	7.50	7.52	
6 N-Nitrosomethylethylamine	88	4.607	4.607	0.000	87	227410	7.50	7.50	
9 Methyl methanesulfonate	80	5.051	5.051	0.000	82	252308	7.50	7.49	
$ 10 2-Fluorophenol	112	5.291	5.291	0.000	94	920512	15.0	15.1	
11 N-Nitrosodiethylamine	102	5.628	5.628	0.000	94	221707	7.50	7.57	
13 Ethyl methanesulfonate	109	6.078	6.078	0.000	97	250965	7.50	7.73	
15 Benzaldehyde	77	6.559	6.559	0.000	95	411584	7.50	7.04	
$ 16 Phenol-d5	99	6.661	6.661	0.000	99	1191604	15.0	15.1	
17 Phenol	94	6.677	6.677	0.000	98	641781	7.50	7.22	
18 Aniline	93	6.719	6.719	0.000	98	815537	7.50	7.52	
19 Bis(2-chloroethyl)ether	93	6.832	6.832	0.000	95	540058	7.50	7.40	
20 2-Chlorophenol	128	6.885	6.885	0.000	96	446699	7.50	7.53	
22 1,3-Dichlorobenzene	146	7.121	7.121	0.000	94	461438	7.50	7.27	
* 24 1,4-Dichlorobenzene-d4	152	7.212	7.212	0.000	97	192572	5.00	5.00	
25 1,4-Dichlorobenzene	146	7.238	7.238	0.000	90	479199	7.50	7.44	
27 Benzyl alcohol	108	7.420	7.420	0.000	92	351566	7.50	7.77	
29 1,2-Dichlorobenzene	146	7.463	7.463	0.000	93	450074	7.50	7.37	
30 Indene	115	7.602	7.602	0.000	88	701687	7.50	7.57	
31 2-Methylphenol	108	7.602	7.602	0.000	71	448525	7.50	7.48	
32 2,2'-oxybis[1-chloropropane]	45	7.650	7.650	0.000	95	624280	7.50	7.57	
34 N-Nitrosopyrrolidine	100	7.789	7.789	0.000	95	251604	7.50	7.55	
35 Acetophenone	105	7.832	7.832	0.000	90	707053	7.50	7.25	
36 4-Methylphenol	108	7.837	7.837	0.000	93	471256	7.50	7.46	
37 N-Nitrosodi-n-propylamine	70	7.848	7.848	0.000	80	401114	7.50	7.36	
38 N-Nitrosomorpholine	56	7.859	7.859	0.000	88	273394	7.50	7.39	
39 2-Toluidine	106	7.885	7.885	0.000	94	788835	7.50	7.41	
40 Hexachloroethane	117	7.987	7.987	0.000	94	219163	7.50	7.50	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	8.062	8.062	0.000	86	1177035	15.0	15.1	
42 Nitrobenzene	77	8.089	8.089	0.000	84	595515	7.50	7.51	
44 N-Nitrosopiperidine	114	8.324	8.324	0.000	89	231477	7.50	7.61	
46 Isophorone	82	8.474	8.474	0.000	98	1061110	7.50	7.57	
47 2-Nitrophenol	139	8.592	8.592	0.000	97	217594	7.50	7.62	
48 2,4-Dimethylphenol	107	8.677	8.677	0.000	97	494380	7.50	7.54	
49 o,o',o''-Triethylphosphorothioat	198	8.805	8.805	0.000	91	171004	7.50	7.43	
50 Benzoic acid	105	8.816	8.816	0.000	88	471231	10.0	10.8	M
51 Bis(2-chloroethoxy)methane	93	8.843	8.843	0.000	99	681513	7.50	7.59	
S 53 Dinitrotoluene	165				0		15.0	15.1	
52 2,4-Dichlorophenol	162	8.971	8.971	0.000	97	347615	7.50	7.86	
54 1,2,4-Trichlorobenzene	180	9.110	9.110	0.000	93	342098	7.50	7.49	
* 55 Naphthalene-d8	136	9.196	9.196	0.000	100	771902	5.00	5.00	
56 Naphthalene	128	9.228	9.228	0.000	98	1304146	7.50	7.47	
57 4-Chloroaniline	127	9.324	9.324	0.000	93	517214	7.50	7.42	
58 2,6-Dichlorophenol	162	9.335	9.335	0.000	94	335000	7.50	7.81	
59 Hexachloropropene	213	9.383	9.383	0.000	93	208993	7.50	7.64	
60 Hexachlorobutadiene	225	9.447	9.447	0.000	96	182243	7.50	7.60	
S 63 Diallate	86				0		7.50	7.47	
62 Quinoline	129	9.763	9.763	0.000	95	797790	7.50	7.42	
64 Caprolactam	113	9.859	9.859	0.000	83	129280	7.50	7.56	
65 N-Nitrosodi-n-butylamine	84	9.902	9.902	0.000	90	379644	7.50	6.79	
66 4-Chloro-3-methylphenol	107	10.127	10.127	0.000	92	436900	7.50	7.61	
67 Safrole, Total	162	10.234	10.234	0.000	85	301930	7.50	7.72	
69 2-Methylnaphthalene	142	10.357	10.357	0.000	90	825208	7.50	7.47	
70 1-Methylnaphthalene	142	10.517	10.517	0.000	92	780769	7.50	7.43	
71 Hexachlorocyclopentadiene	237	10.624	10.624	0.000	96	199781	7.50	7.60	
72 1,2,4,5-Tetrachlorobenzene	216	10.629	10.629	0.000	97	309390	7.50	7.63	
73 Isosafrole Peak 1	162	10.715	10.715	0.000	82	54662	1.20	1.19	
74 2,4,6-Trichlorophenol	196	10.822	10.822	0.000	93	220994	7.50	7.60	
75 2,4,5-Trichlorophenol	196	10.870	10.870	0.000	90	241355	7.50	7.85	
$ 76 2-Fluorobiphenyl (Surr)	172	10.977	10.977	0.000	99	1705834	15.0	15.2	
77 Isosafrole Peak 2	162	11.084	11.084	0.000	88	309898	6.30	6.36	
79 1,1'-Biphenyl	154	11.132	11.132	0.000	96	965376	7.50	7.44	
80 2-Chloronaphthalene	162	11.148	11.148	0.000	99	767720	7.50	7.50	
81 1-Chloronaphthalene	162	11.180	11.180	0.000	95	693580	7.50	7.62	
82 Phenyl ether	170	11.314	11.314	0.000	88	498509	7.50	7.70	
83 2-Nitroaniline	138	11.319	11.319	0.000	76	265517	7.50	7.58	
84 1,4-Naphthoquinone	158	11.437	11.437	0.000	79	319974	7.50	7.66	
85 1,4-Dinitrobenzene	168	11.549	11.549	0.000	83	117093	7.50	7.57	
86 Dimethyl phthalate	163	11.640	11.640	0.000	97	860319	7.50	7.60	
87 1,3-Dinitrobenzene	168	11.656	11.656	0.000	82	129548	7.50	7.41	
88 2,6-Dinitrotoluene	165	11.715	11.715	0.000	87	189928	7.50	7.64	
90 Acenaphthylene	152	11.795	11.795	0.000	99	1097747	7.50	7.47	
91 3-Nitroaniline	138	11.940	11.940	0.000	91	211750	7.50	7.23	
* 92 Acenaphthene-d10	164	11.999	11.999	0.000	98	358590	5.00	5.00	
93 Acenaphthene	153	12.041	12.041	0.000	98	810421	7.50	7.46	
94 2,4-Dinitrophenol	184	12.090	12.090	0.000	76	125138	10.0	9.33	
96 4-Nitrophenol	109	12.180	12.180	0.000	92	150590	7.50	7.03	
98 Pentachlorobenzene	250	12.223	12.223	0.000	96	267099	7.50	7.64	
99 2,4-Dinitrotoluene	165	12.271	12.271	0.000	85	254248	7.50	7.44	
100 Dibenzofuran	168	12.277	12.277	0.000	95	1021923	7.50	7.49	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 1-Naphthylamine	143	12.378	12.378	0.000	98	809614	7.50	7.36	
102 2,3,4,6-Tetrachlorophenol	232	12.437	12.437	0.000	83	164638	7.50	7.47	
103 2-Naphthylamine	143	12.480	12.480	0.000	94	798226	7.50	7.25	
104 Diethyl phthalate	149	12.608	12.608	0.000	97	880805	7.50	7.38	
106 Thionazin	107	12.705	12.705	0.000	79	168351	7.50	7.03	
105 Fluorene	166	12.715	12.715	0.000	91	816219	7.50	7.19	
107 N-Nitro-o-toluidine	152	12.731	12.731	0.000	72	240521	7.50	7.29	
108 4-Chlorophenyl phenyl ether	204	12.737	12.737	0.000	89	349982	7.50	7.50	
109 4-Nitroaniline	138	12.737	12.737	0.000	84	248650	7.50	7.75	
110 4,6-Dinitro-2-methylphenol	198	12.785	12.785	0.000	73	124123	7.50	7.53	
111 N-Nitrosodiphenylamine	169	12.881	12.881	0.000	65	684265	7.50	7.40	
112 1,2-Diphenylhydrazine	77	12.929	12.929	0.000	42	1175157	7.50	7.39	
$ 113 2,4,6-Tribromophenol	330	13.020	13.020	0.000	88	212254	15.0	14.9	
114 Sulfotepp	97	13.111	13.111	0.000	78	205164	7.50	7.76	
115 cis-Diallate	86	13.266	13.266	0.000	97	358393	5.55	5.55	
116 Phorate	75	13.272	13.272	0.000	95	762996	7.50	7.64	
117 Phenacetin	108	13.282	13.282	0.000	86	566555	7.50	7.71	
118 4-Bromophenyl phenyl ether	248	13.357	13.357	0.000	75	185015	7.50	7.15	
119 trans-Diallate	86	13.379	13.379	0.000	97	126816	1.95	1.92	
120 Hexachlorobenzene	284	13.416	13.416	0.000	89	204917	7.50	7.26	
121 Dimethoate	87	13.480	13.480	0.000	97	506912	7.50	7.70	
122 Atrazine	200	13.582	13.582	0.000	86	213837	7.50	7.73	
123 Pentachlorophenol	266	13.678	13.678	0.000	86	140510	7.50	7.57	
124 4-Aminobiphenyl	169	13.689	13.689	0.000	91	676964	7.50	7.73	
125 Pentachloronitrobenzene	237	13.699	13.699	0.000	82	95693	7.50	7.25	
126 Pronamide	173	13.785	13.785	0.000	90	415371	7.50	7.76	
* 127 Phenanthrene-d10	188	13.935	13.935	0.000	96	664208	5.00	5.00	
128 Dinoseb	211	13.940	13.940	0.000	90	176588	7.50	7.30	
129 Phenanthrene	178	13.967	13.967	0.000	99	1177502	7.50	7.29	
130 Anthracene	178	14.036	14.036	0.000	99	1216522	7.50	7.43	
131 Carbazole	167	14.256	14.256	0.000	97	1157014	7.50	7.53	
132 Methyl parathion	109	14.459	14.459	0.000	89	397851	7.50	7.64	
133 Di-n-butyl phthalate	149	14.775	14.775	0.000	100	1667708	7.50	7.60	
134 Ethyl Parathion	109	15.031	15.031	0.000	82	236405	7.50	7.45	
135 4-Nitroquinoline-1-oxide	190	15.053	15.053	0.000	88	143306	7.50	7.37	
136 Octachlorostyrene	308	15.406	15.406	0.000	92	103328	7.50	7.80	
137 Isodrin	193	15.465	15.465	0.000	86	143806	7.50	7.41	
138 Fluoranthene	202	15.694	15.694	0.000	99	1272700	7.50	7.66	
139 Benzidine	184	15.919	15.919	0.000	99	2690879	22.5	22.4	
* 140 Pyrene-d10 (IS)	212	16.021	16.021	0.000	98	636876	5.00	5.00	
141 Pyrene	202	16.053	16.053	0.000	95	1321427	7.50	7.46	
$ 142 p-Terphenyl-d14	244	16.331	16.331	0.000	97	1770889	15.0	15.4	
143 p-Dimethylamino azobenzene	225	16.566	16.566	0.000	90	213226	7.50	7.83	
144 Chlorobenzilate	139	16.657	16.657	0.000	80	522001	7.50	7.72	
145 3,3'-Dimethylbenzidine	212	17.144	17.144	0.000	98	870754	7.50	7.68	
146 Butyl benzyl phthalate	149	17.197	17.197	0.000	93	761298	7.50	7.90	
147 2-Acetylaminofluorene	181	17.577	17.577	0.000	93	574568	7.50	7.79	
148 3,3'-Dichlorobenzidine	252	18.101	18.101	0.000	81	442477	7.50	7.64	
150 4,4'-Methylene bis(2-chloroanil	231	18.117	18.117	0.000	92	236757	7.50	7.81	
149 Benzo[a]anthracene	228	18.123	18.123	0.000	98	1132892	7.50	7.68	
151 Chrysene	228	18.187	18.187	0.000	97	1129766	7.50	7.65	
152 Bis(2-ethylhexyl) phthalate	149	18.283	18.283	0.000	97	1121526	7.50	7.73	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
153 6-Methylchrysene	242	19.005	19.005	0.000	98	791425	7.50	7.72	
154 Di-n-octyl phthalate	149	19.465	19.465	0.000	99	1948821	7.50	7.56	
155 Benzo[b]fluoranthene	252	20.016	20.016	0.000	96	1197598	7.50	7.66	
156 7,12-Dimethylbenz(a)anthracene	256	20.016	20.016	0.000	83	515160	7.50	7.82	
157 Benzo[k]fluoranthene	252	20.070	20.070	0.000	98	1142095	7.50	7.59	
158 Benzo[a]pyrene	252	20.556	20.556	0.000	82	1103845	7.50	7.57	
* 159 Perylene-d12	264	20.647	20.647	0.000	95	612010	5.00	5.00	
160 3-Methylcholanthrene	268	21.134	21.134	0.000	94	574631	7.50	7.97	
161 Dibenz[a,h]acridine	279	21.974	21.974	0.000	92	866400	7.50	7.69	
162 Dibenz[a,j]acridine	279	22.054	22.054	0.000	95	872120	7.50	7.58	
163 Indeno[1,2,3-cd]pyrene	276	22.343	22.343	0.000	96	1040344	7.50	7.65	
164 Dibenz(a,h)anthracene	278	22.386	22.386	0.000	97	1065370	7.50	7.82	
165 Benzo[g,h,i]perylene	276	22.792	22.792	0.000	93	1045647	7.50	7.57	
S 166 Isosafrole	162				0		7.50	7.55	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_5_00006 Amount Added: 1.00 Units: mL

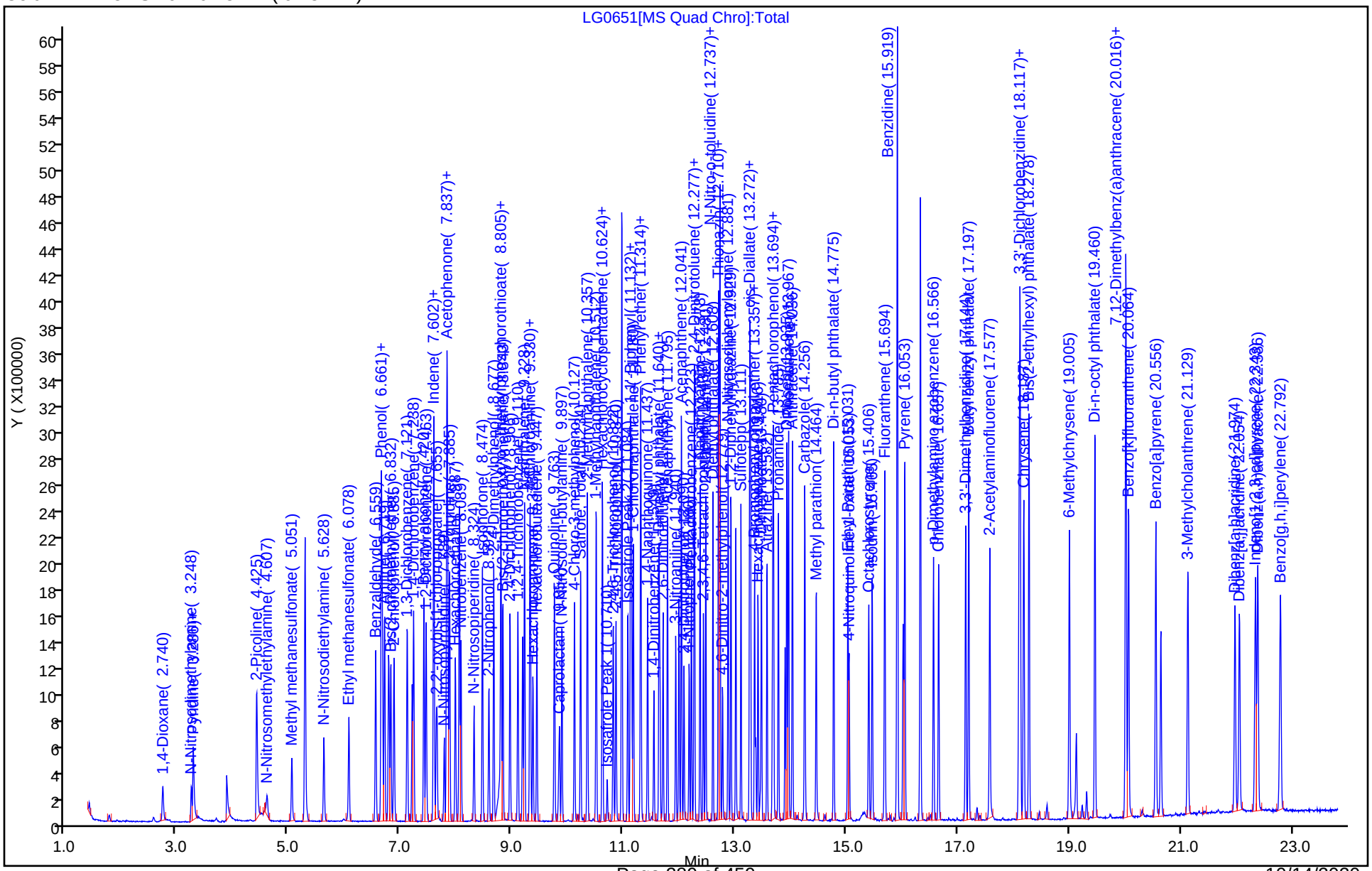
Report Date: 15-Jul-2020 19:25:28 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0651.D

Injection Date:	15-Jul-2020 13:18:15	Instrument ID:	HP20296	Operator ID:	lmh00956
Lims ID:	ICIS L5			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

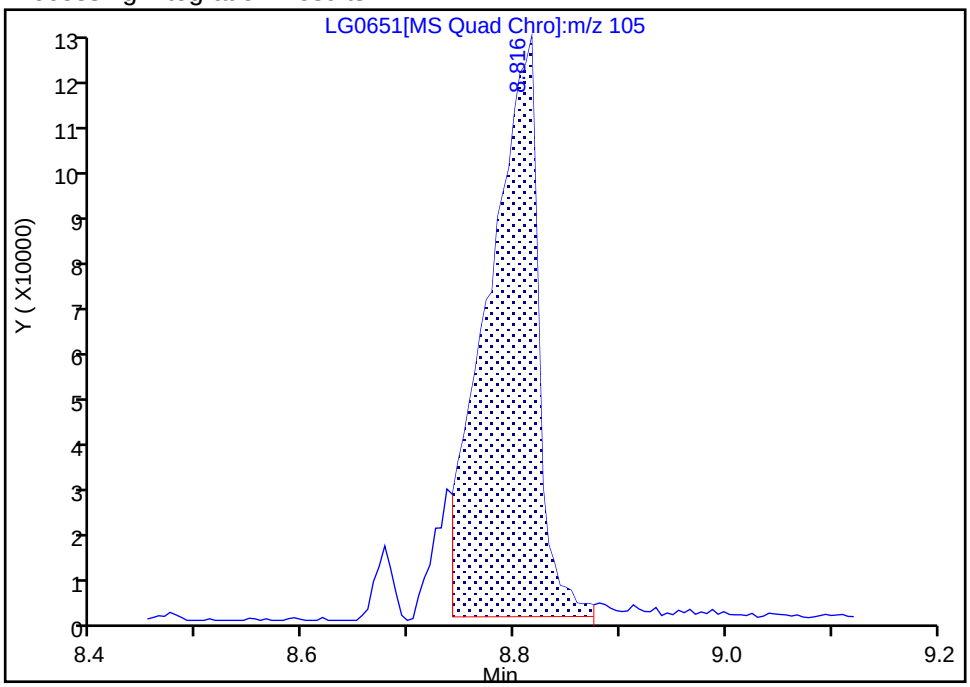
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0651.D				
Injection Date:	15-Jul-2020 13:18:15	Instrument ID:	HP20296		
Lims ID:	ICIS L5				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

50 Benzoic acid, CAS: 65-85-0

Signal: 1

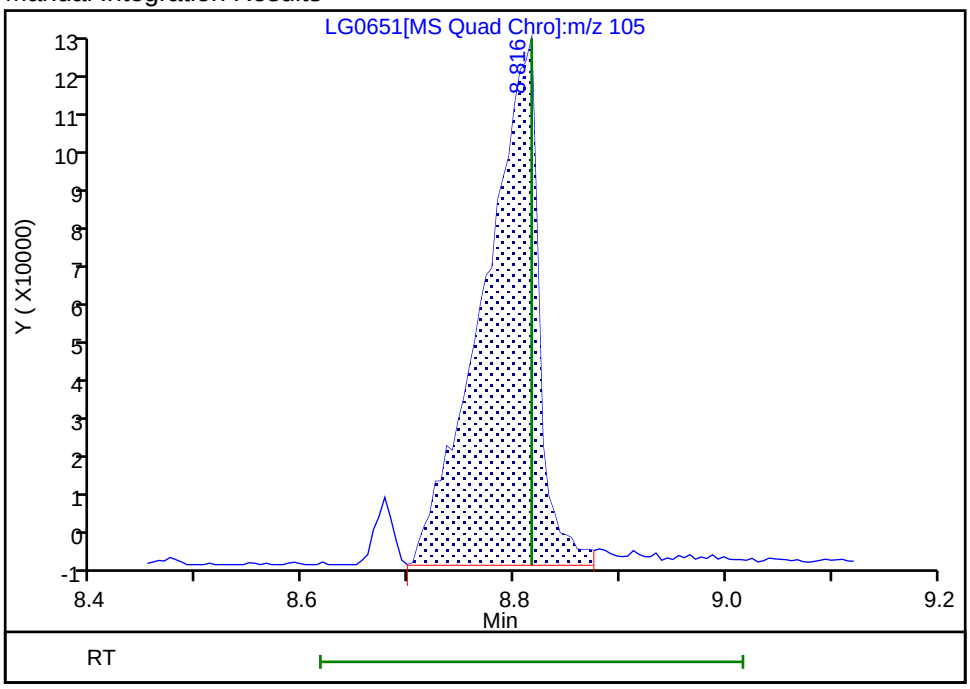
Processing Integration Results

RT: 8.82
Area: 427115
Amount: 14.813935
Amount Units: ug/ml



Manual Integration Results

RT: 8.82
Area: 471231
Amount: 10.799776
Amount Units: ug/ml



Reviewer: hartenstinel, 15-Jul-2020 15:56:29

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0652.D
Lims ID: IC L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 15-Jul-2020 13:56:59 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L1
Misc. Info.: 410-0005639-003
Operator ID: lmh00956 Instrument ID: HP20296
Sublist: chrom-MSSemi_HP20296*sub6

Method: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 15-Jul-2020 19:25:35 Calib Date: 15-Jul-2020 16:51:20
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0658.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1062

First Level Reviewer: hartenstinel Date: 15-Jul-2020 15:53:04

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	2.751	2.740	0.011	29	2583	0.1250	0.1079	
2 N-Nitrosodimethylamine	74	3.280	3.248	0.032	53	5519	0.1250	0.1491	
3 Pyridine	79	3.323	3.286	0.037	95	11175	0.1250	0.1703	
5 2-Picoline	93	4.446	4.425	0.021	91	9303	0.1250	0.1227	
6 N-Nitrosomethylethylamine	88	4.575	4.607	-0.032	4	3126	0.1250	0.1027	
9 Methyl methanesulfonate	80	5.056	5.051	0.005	80	4415	0.1250	0.1307	
$ 10 2-Fluorophenol	112	5.291	5.291	0.000	92	15823	0.2500	0.2581	
11 N-Nitrosodiethylamine	102	5.623	5.628	-0.005	90	3826	0.1250	0.1303	
13 Ethyl methanesulfonate	109	6.072	6.078	-0.006	96	4723	0.1250	0.1450	
15 Benzaldehyde	77	6.554	6.559	-0.005	94	9247	0.1250	0.1578	
$ 16 Phenol-d5	99	6.650	6.661	-0.011	95	20046	0.2500	0.2536	M
17 Phenol	94	6.671	6.677	-0.006	92	13740	0.1250	0.1541	
18 Aniline	93	6.714	6.719	-0.005	97	15947	0.1250	0.1467	
19 Bis(2-chloroethyl)ether	93	6.826	6.832	-0.006	96	10656	0.1250	0.1455	
20 2-Chlorophenol	128	6.885	6.885	0.000	94	7404	0.1250	0.1245	
22 1,3-Dichlorobenzene	146	7.126	7.121	0.005	93	8198	0.1250	0.1287	
* 24 1,4-Dichlorobenzene-d4	152	7.212	7.212	0.000	97	193135	5.00	5.00	
25 1,4-Dichlorobenzene	146	7.238	7.238	0.000	86	7738	0.1250	0.1198	
27 Benzyl alcohol	108	7.420	7.420	0.000	89	5419	0.1250	0.1194	
29 1,2-Dichlorobenzene	146	7.463	7.463	0.000	93	7804	0.1250	0.1275	
30 Indene	115	7.602	7.602	0.000	82	10587	0.1250	0.1139	
31 2-Methylphenol	108	7.591	7.602	-0.011	81	7540	0.1250	0.1254	
32 2,2'-oxybis[1-chloropropane]	45	7.656	7.650	0.006	95	10635	0.1250	0.1286	
34 N-Nitrosopyrrolidine	100	7.784	7.789	-0.005	85	3679	0.1250	0.1100	
35 Acetophenone	105	7.827	7.832	-0.005	84	13098	0.1250	0.1339	
36 4-Methylphenol	108	7.837	7.837	0.000	88	8625	0.1250	0.1361	
37 N-Nitrosodi-n-propylamine	70	7.837	7.848	-0.011	78	7735	0.1250	0.1415	
38 N-Nitrosomorpholine	56	7.843	7.859	-0.016	38	4894	0.1250	0.1319	
39 2-Toluidine	106	7.875	7.885	-0.010	95	13765	0.1250	0.1290	
40 Hexachloroethane	117	7.987	7.987	0.000	89	4224	0.1250	0.1442	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	8.057	8.062	-0.005	85	20031	0.2500	0.2558	
42 Nitrobenzene	77	8.078	8.089	-0.011	81	11830	0.1250	0.1488	
44 N-Nitrosopiperidine	114	8.319	8.324	-0.005	88	4304	0.1250	0.1412	
46 Isophorone	82	8.469	8.474	-0.006	97	19111	0.1250	0.1360	
47 2-Nitrophenol	139	8.586	8.592	-0.006	94	3066	0.1250	0.1070	
48 2,4-Dimethylphenol	107	8.677	8.677	0.000	96	8456	0.1250	0.1287	
49 o,o',o''-Triethylphosphorothioat	198	8.805	8.805	0.000	87	2892	0.1250	0.1253	
50 Benzoic acid	105	8.731	8.816	-0.085	86	38728	1.25	0.8855	M
51 Bis(2-chloroethoxy)methane	93	8.838	8.843	-0.005	96	12589	0.1250	0.1398	
S 53 Dinitrotoluene	165				0		0.2500	0.2532	
52 2,4-Dichlorophenol	162	8.961	8.971	-0.010	89	6466	0.1250	0.1459	
54 1,2,4-Trichlorobenzene	180	9.110	9.110	0.000	90	5705	0.1250	0.1246	
* 55 Naphthalene-d8	136	9.196	9.196	0.000	100	773714	5.00	5.00	
56 Naphthalene	128	9.228	9.228	0.000	96	23364	0.1250	0.1335	
57 4-Chloroaniline	127	9.319	9.324	-0.005	90	9928	0.1250	0.1421	
58 2,6-Dichlorophenol	162	9.330	9.335	-0.005	74	5523	0.1250	0.1285	
59 Hexachloropropene	213	9.372	9.383	-0.011	89	2739	0.1250	0.0999	
60 Hexachlorobutadiene	225	9.447	9.447	0.000	89	2992	0.1250	0.1245	
S 63 Diallate	86				0		0.1250	0.1446	
62 Quinoline	129	9.763	9.763	0.000	93	15596	0.1250	0.1447	
64 Caprolactam	113	9.822	9.859	-0.037	83	2848	0.1250	0.1662	
65 N-Nitrosodi-n-butylamine	84	9.891	9.902	-0.011	87	5980	0.1250	0.1067	
66 4-Chloro-3-methylphenol	107	10.116	10.127	-0.011	93	8811	0.1250	0.1532	
67 Safrole, Total	162	10.228	10.234	-0.006	79	4637	0.1250	0.1183	
69 2-Methylnaphthalene	142	10.357	10.357	0.000	91	13974	0.1250	0.1261	
70 1-Methylnaphthalene	142	10.512	10.517	-0.005	88	13460	0.1250	0.1279	
71 Hexachlorocyclopentadiene	237	10.619	10.624	-0.005	72	3002	0.1250	0.1178	
72 1,2,4,5-Tetrachlorobenzene	216	10.629	10.629	0.000	91	5554	0.1250	0.1414	
73 Isosafrole Peak 1	162	10.715	10.715	0.000	1	490	0.0200	0.0110	M
74 2,4,6-Trichlorophenol	196	10.817	10.822	-0.005	84	3739	0.1250	0.1327	
75 2,4,5-Trichlorophenol	196	10.859	10.870	-0.011	86	3608	0.1250	0.1210	
$ 76 2-Fluorobiphenyl (Surr)	172	10.972	10.977	-0.005	98	27284	0.2500	0.2503	
77 Isosafrole Peak 2	162	11.079	11.084	-0.005	91	5940	0.1050	0.1259	
79 1,1'-Biphenyl	154	11.132	11.132	0.000	95	16483	0.1250	0.1311	
80 2-Chloronaphthalene	162	11.148	11.148	0.000	95	12731	0.1250	0.1284	
81 1-Chloronaphthalene	162	11.175	11.180	-0.005	91	10451	0.1250	0.1185	
82 Phenyl ether	170	11.309	11.314	-0.005	83	7729	0.1250	0.1233	
83 2-Nitroaniline	138	11.309	11.319	-0.010	67	3518	0.1250	0.1037	
84 1,4-Naphthoquinone	158	11.432	11.437	-0.005	85	4371	0.1250	0.1079	
85 1,4-Dinitrobenzene	168	11.544	11.549	-0.005	82	1702	0.1250	0.1135	
86 Dimethyl phthalate	163	11.635	11.640	-0.005	95	14283	0.1250	0.1303	
87 1,3-Dinitrobenzene	168	11.656	11.656	0.000	80	2541	0.1250	0.1499	
88 2,6-Dinitrotoluene	165	11.710	11.715	-0.005	83	3001	0.1250	0.1245	
90 Acenaphthylene	152	11.790	11.795	-0.005	97	17282	0.1250	0.1214	
91 3-Nitroaniline	138	11.940	11.940	0.000	85	3519	0.1250	0.1240	
* 92 Acenaphthene-d10	164	11.999	11.999	0.000	97	347487	5.00	5.00	
93 Acenaphthene	153	12.041	12.041	0.000	97	13718	0.1250	0.1304	
94 2,4-Dinitrophenol	184	12.084	12.090	-0.006	76	10675	1.13	0.8213	
96 4-Nitrophenol	109	12.175	12.180	-0.005	89	10111	0.6250	0.4874	
98 Pentachlorobenzene	250	12.223	12.223	0.000	91	5015	0.1250	0.1480	
99 2,4-Dinitrotoluene	165	12.266	12.271	-0.005	83	4261	0.1250	0.1287	
100 Dibenzofuran	168	12.277	12.277	0.000	96	17857	0.1250	0.1350	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 1-Naphthylamine	143	12.378	12.378	0.000	93	13310	0.1250	0.1249	
102 2,3,4,6-Tetrachlorophenol	232	12.432	12.437	-0.005	76	2300	0.1250	0.1077	
103 2-Naphthylamine	143	12.475	12.480	-0.005	98	15952	0.1250	0.1495	
104 Diethyl phthalate	149	12.603	12.608	-0.005	96	14157	0.1250	0.1224	
106 Thionazin	107	12.699	12.705	-0.006	73	4132	0.1250	0.1780	
105 Fluorene	166	12.715	12.715	0.000	96	15876	0.1250	0.1444	
107 N-Nitro-o-toluidine	152	12.721	12.731	-0.010	71	3961	0.1250	0.1238	
108 4-Chlorophenyl phenyl ether	204	12.731	12.737	-0.006	73	6656	0.1250	0.1472	
109 4-Nitroaniline	138	12.726	12.737	-0.011	72	3812	0.1250	0.1226	
110 4,6-Dinitro-2-methylphenol	198	12.780	12.785	-0.005	58	6717	0.6250	0.4174	
111 N-Nitrosodiphenylamine	169	12.876	12.881	-0.005	63	13165	0.1250	0.1458	
112 1,2-Diphenylhydrazine	77	12.929	12.929	0.000	41	20278	0.1250	0.1307	
$ 113 2,4,6-Tribromophenol	330	13.015	13.020	-0.005	82	3105	0.2500	0.2247	
114 Sulfotepp	97	13.111	13.111	0.000	77	4265	0.1250	0.1654	
115 cis-Diallate	86	13.261	13.266	-0.005	76	6807	0.0925	0.1080	
116 Phorate	75	13.272	13.272	0.000	93	13846	0.1250	0.1421	
117 Phenacetin	108	13.272	13.282	-0.010	71	9587	0.1250	0.1336	
118 4-Bromophenyl phenyl ether	248	13.352	13.357	-0.005	41	3285	0.1250	0.1301	M
119 trans-Diallate	86	13.379	13.379	0.000	31	2356	0.0325	0.0366	M
120 Hexachlorobenzene	284	13.421	13.416	0.005	79	3206	0.1250	0.1164	
121 Dimethoate	87	13.469	13.480	-0.011	95	7286	0.1250	0.1134	
122 Atrazine	200	13.576	13.582	-0.006	75	3756	0.1250	0.1392	
123 Pentachlorophenol	266	13.678	13.678	0.000	85	2589	0.1250	0.1430	
124 4-Aminobiphenyl	169	13.683	13.689	-0.006	93	10452	0.1250	0.1223	
125 Pentachloronitrobenzene	237	13.678	13.699	-0.021	49	1691	0.1250	0.1314	
126 Pronamide	173	13.780	13.785	-0.005	88	6615	0.1250	0.1266	
* 127 Phenanthrene-d10	188	13.929	13.935	-0.006	96	648168	5.00	5.00	
128 Dinoseb	211	13.935	13.940	-0.005	60	2272	0.1250	0.0963	
129 Phenanthrene	178	13.967	13.967	0.000	95	19996	0.1250	0.1269	
130 Anthracene	178	14.031	14.036	-0.005	98	20539	0.1250	0.1285	
131 Carbazole	167	14.250	14.256	-0.006	95	20752	0.1250	0.1385	
132 Methyl parathion	109	14.459	14.459	0.000	88	5582	0.1250	0.1098	
133 Di-n-butyl phthalate	149	14.769	14.775	-0.006	99	26251	0.1250	0.1227	
134 Ethyl Parathion	109	15.021	15.031	-0.010	80	2943	0.1250	0.0951	
135 4-Nitroquinoline-1-oxide	190	15.042	15.053	-0.011	82	2143	0.1250	0.1130	
136 Octachlorostyrene	308	15.406	15.406	0.000	78	1661	0.1250	0.1285	
137 Isodrin	193	15.465	15.465	0.001	73	2964	0.1250	0.1565	
138 Fluoranthene	202	15.689	15.694	-0.005	98	20542	0.1250	0.1267	
139 Benzidine	184	15.908	15.919	-0.011	98	152122	1.00	1.28	
* 140 Pyrene-d10 (IS)	212	16.021	16.021	0.000	98	632233	5.00	5.00	
141 Pyrene	202	16.048	16.053	-0.005	94	24277	0.1250	0.1381	
$ 142 p-Terphenyl-d14	244	16.326	16.331	-0.005	96	30301	0.2500	0.2650	
143 p-Dimethylamino azobenzene	225	16.566	16.566	0.000	90	2998	0.1250	0.1108	
144 Chlorobenzilate	139	16.652	16.657	-0.005	78	7289	0.1250	0.1086	
145 3,3'-Dimethylbenzidine	212	17.139	17.144	-0.005	96	14870	0.1250	0.1320	
146 Butyl benzyl phthalate	149	17.192	17.197	-0.005	92	11092	0.1250	0.1159	
147 2-Acetylaminofluorene	181	17.567	17.577	-0.010	94	7734	0.1250	0.1056	
148 3,3'-Dichlorobenzidine	252	18.085	18.101	-0.016	77	6664	0.1250	0.1159	
150 4,4'-Methylene bis(2-chloroanil	231	18.107	18.117	-0.010	66	3574	0.1250	0.1188	
149 Benzo[a]anthracene	228	18.117	18.123	-0.006	97	18032	0.1250	0.1232	
151 Chrysene	228	18.182	18.187	-0.005	95	18088	0.1250	0.1234	
152 Bis(2-ethylhexyl) phthalate	149	18.278	18.283	-0.005	96	16568	0.1250	0.1150	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
153 6-Methylchrysene	242	19.000	19.005	-0.005	96	12757	0.1250	0.1254	
154 Di-n-octyl phthalate	149	19.460	19.465	-0.005	99	25226	0.1250	0.1013	
155 Benzo[b]fluoranthene	252	20.006	20.016	-0.010	95	18584	0.1250	0.1230	
156 7,12-Dimethylbenz(a)anthracene	256	20.006	20.016	-0.010	67	8256	0.1250	0.1297	
157 Benzo[k]fluoranthene	252	20.048	20.070	-0.022	95	17557	0.1250	0.1208	
158 Benzo[a]pyrene	252	20.546	20.556	-0.010	83	16784	0.1250	0.1191	
* 159 Perylene-d12	264	20.642	20.647	-0.005	95	591353	5.00	5.00	
160 3-Methylcholanthrene	268	21.123	21.134	-0.011	90	7477	0.1250	0.1073	
161 Dibenz[a,h]acridine	279	21.963	21.974	-0.011	88	12932	0.1250	0.1188	
162 Dibenz[a,j]acridine	279	22.038	22.054	-0.016	93	15293	0.1250	0.1375	
163 Indeno[1,2,3-cd]pyrene	276	22.327	22.343	-0.016	94	16520	0.1250	0.1258	M
164 Dibenz(a,h)anthracene	278	22.375	22.386	-0.011	87	15006	0.1250	0.1140	
165 Benzo[g,h,i]perylene	276	22.771	22.792	-0.021	96	18392	0.1250	0.1378	
S 166 Isosafrole	162				0		0.1250	0.1369	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_1_00007 Amount Added: 1.00 Units: mL

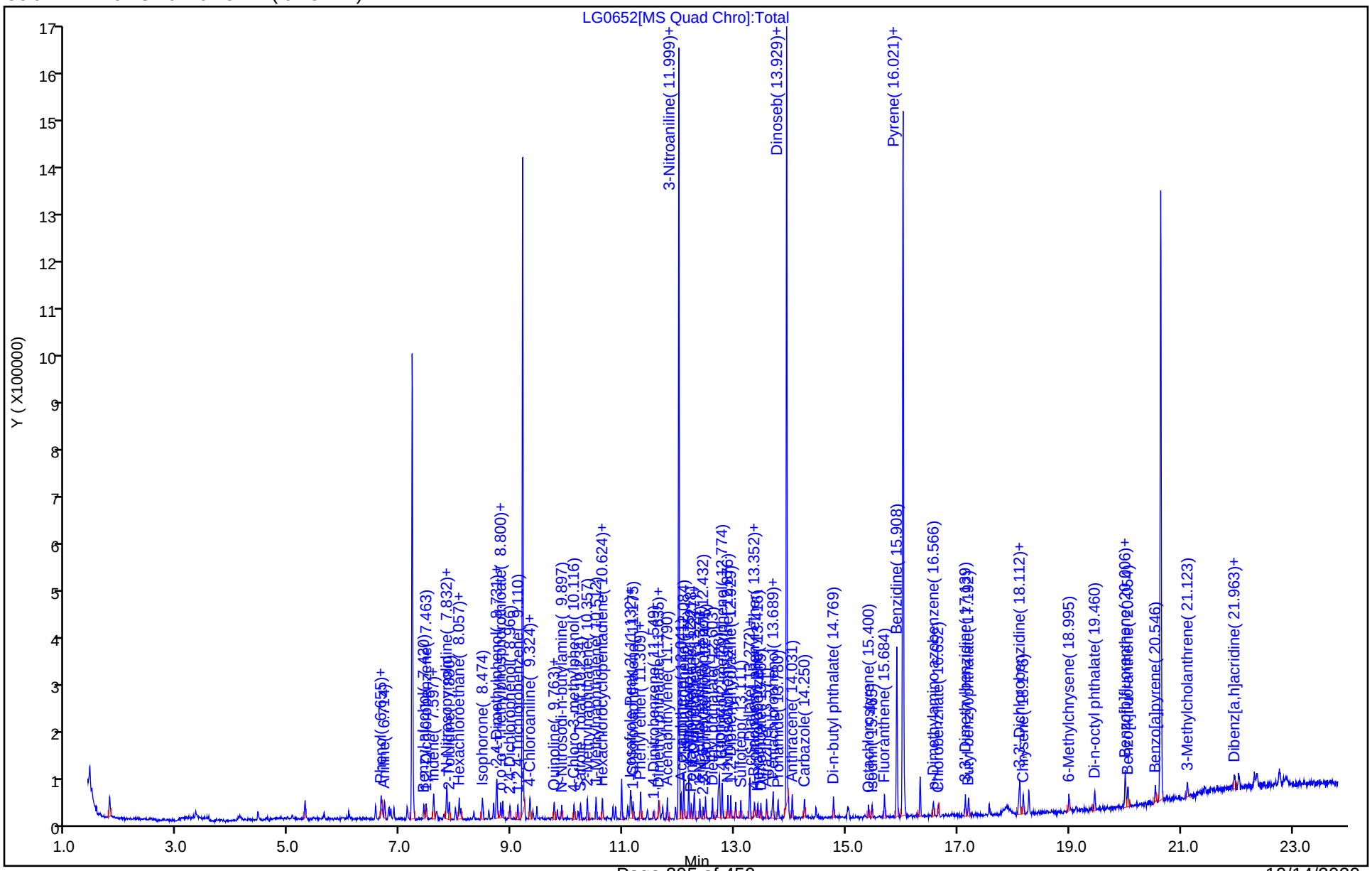
Report Date: 15-Jul-2020 19:25:38 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0652.D

Injection Date:	15-Jul-2020 13:56:59	Instrument ID:	HP20296	Operator ID:	lmh00956
Lims ID:	IC L1			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

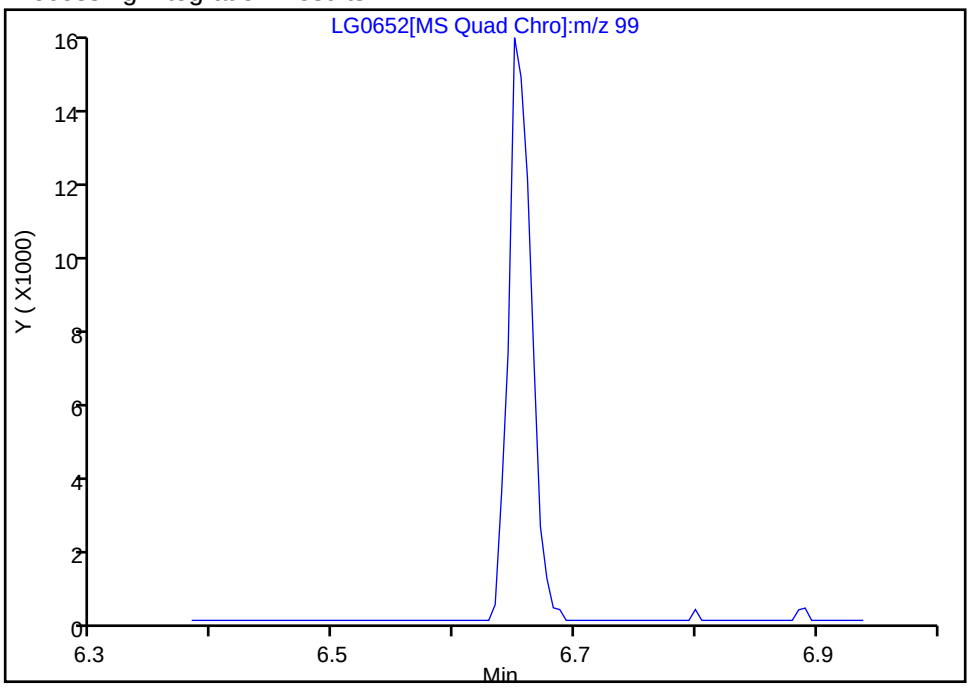
Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0652.D
Injection Date: 15-Jul-2020 13:56:59 Instrument ID: HP20296
Lims ID: IC L1
Client ID:
Operator ID: lmh00956 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

$ 16 Phenol-d5, CAS: 4165-62-2

Signal: 1

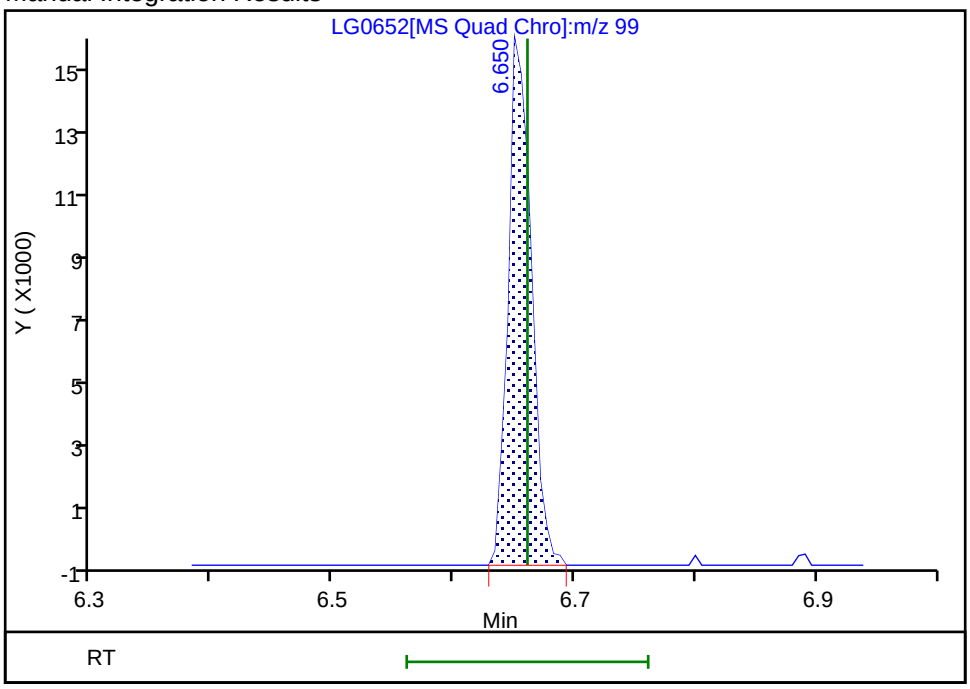
Not Detected
Expected RT: 6.66

Processing Integration Results



Manual Integration Results

RT: 6.65
Area: 20046
Amount: 0.253611
Amount Units: ug/ml



Reviewer: hartenstinel, 15-Jul-2020 15:59:52
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

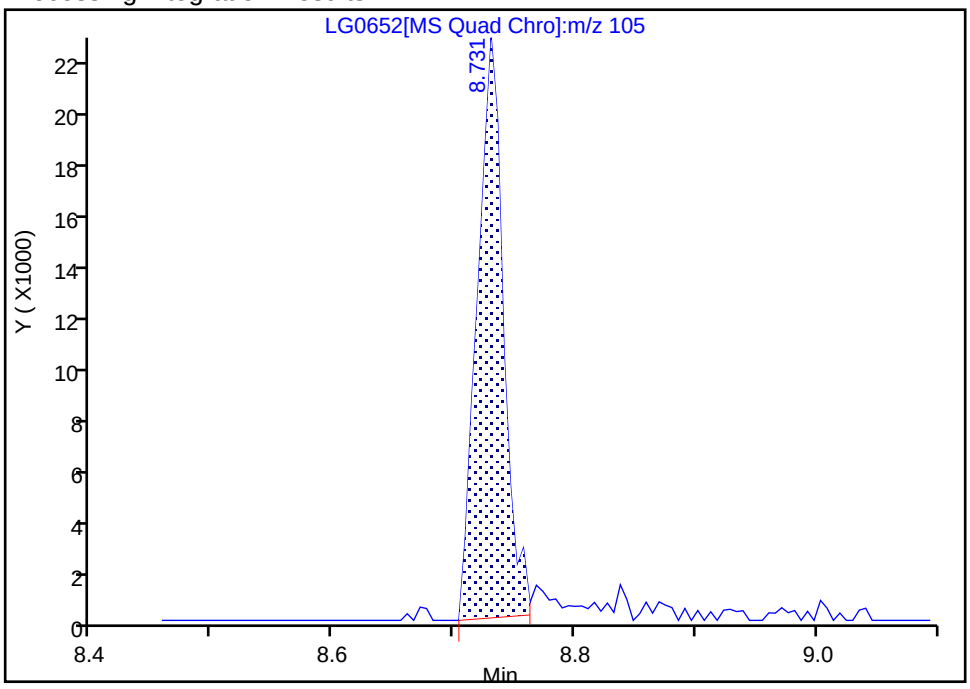
Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0652.D
Injection Date: 15-Jul-2020 13:56:59 Instrument ID: HP20296
Lims ID: IC L1
Client ID:
Operator ID: lmh00956 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

50 Benzoic acid, CAS: 65-85-0

Signal: 1

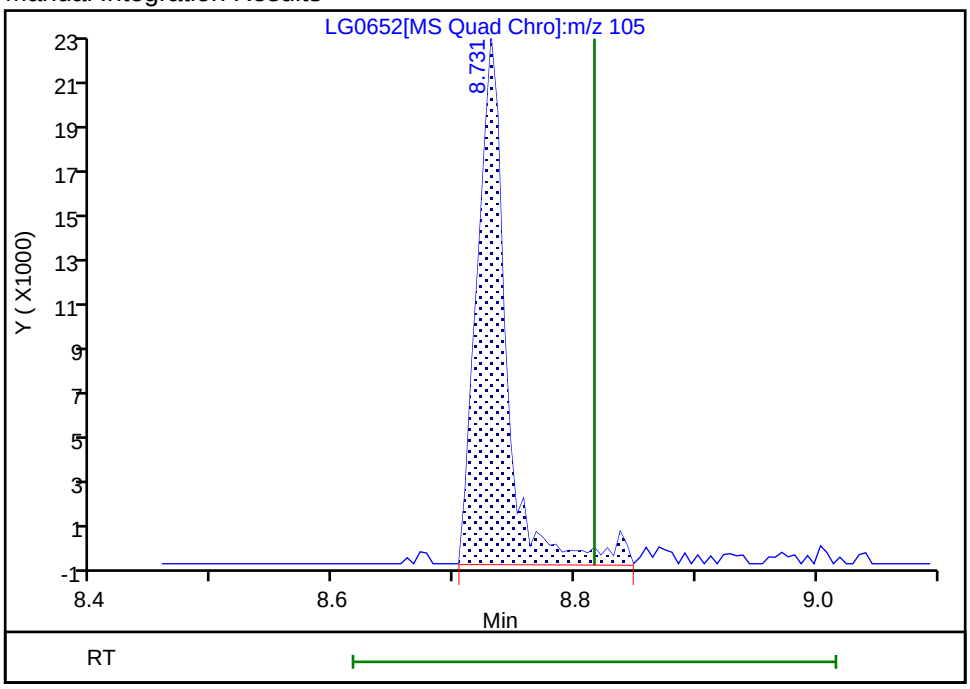
Processing Integration Results

RT: 8.73
Area: 34223
Amount: 1.282182
Amount Units: ug/ml



Manual Integration Results

RT: 8.73
Area: 38728
Amount: 0.885498
Amount Units: ug/ml



Reviewer: hartenstinel, 15-Jul-2020 16:00:23
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

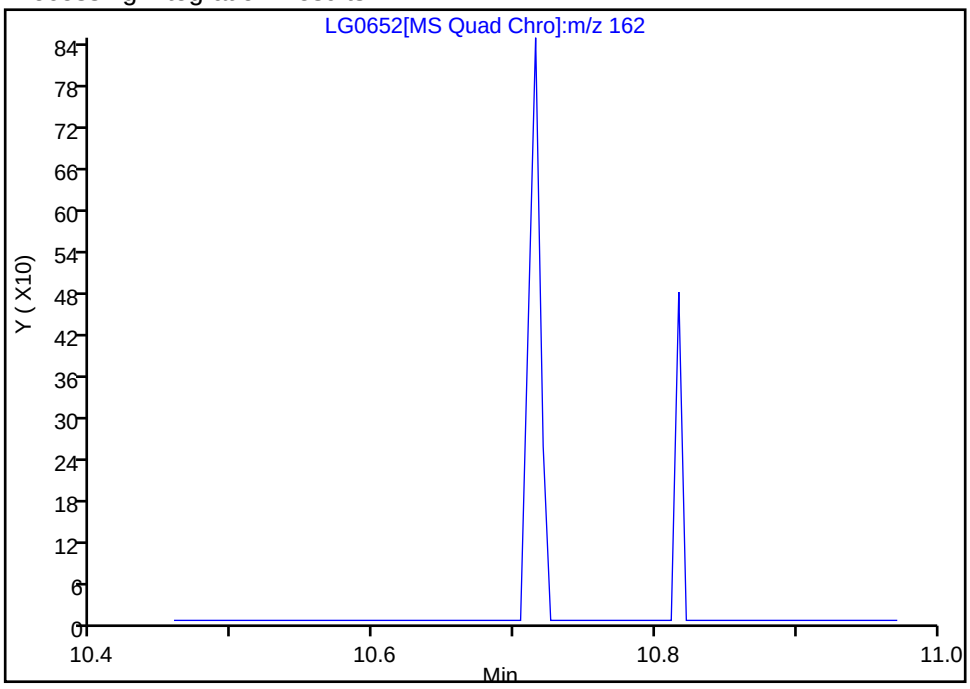
Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0652.D
Injection Date: 15-Jul-2020 13:56:59 Instrument ID: HP20296
Lims ID: IC L1
Client ID:
Operator ID: lmh00956 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

73 Isosafrole Peak 1, CAS: 120-58-1

Signal: 1

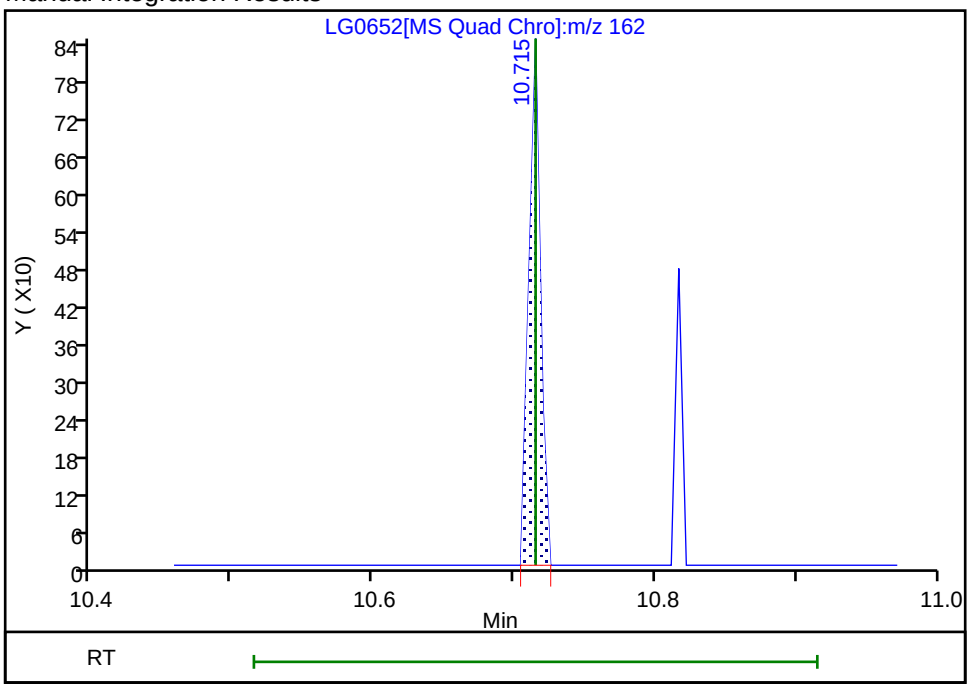
Not Detected
Expected RT: 10.71

Processing Integration Results



Manual Integration Results

RT: 10.71
Area: 490
Amount: 0.010970
Amount Units: ug/ml



Reviewer: hartenstinel, 15-Jul-2020 16:00:58
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

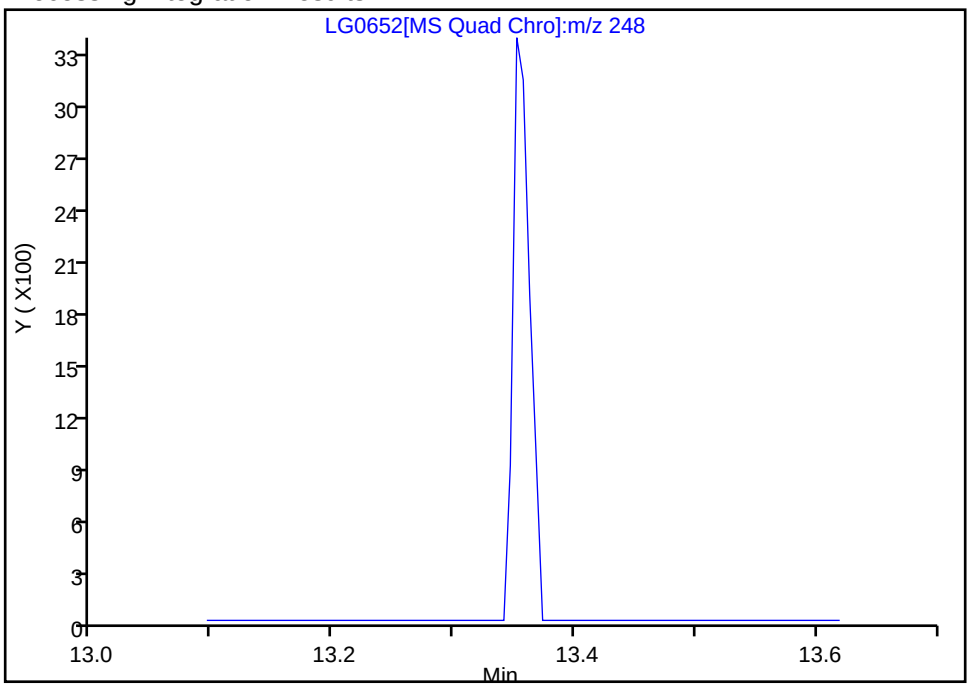
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0652.D				
Injection Date:	15-Jul-2020 13:56:59	Instrument ID:	HP20296		
Lims ID:	IC L1				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

118 4-Bromophenyl phenyl ether, CAS: 101-55-3

Signal: 1

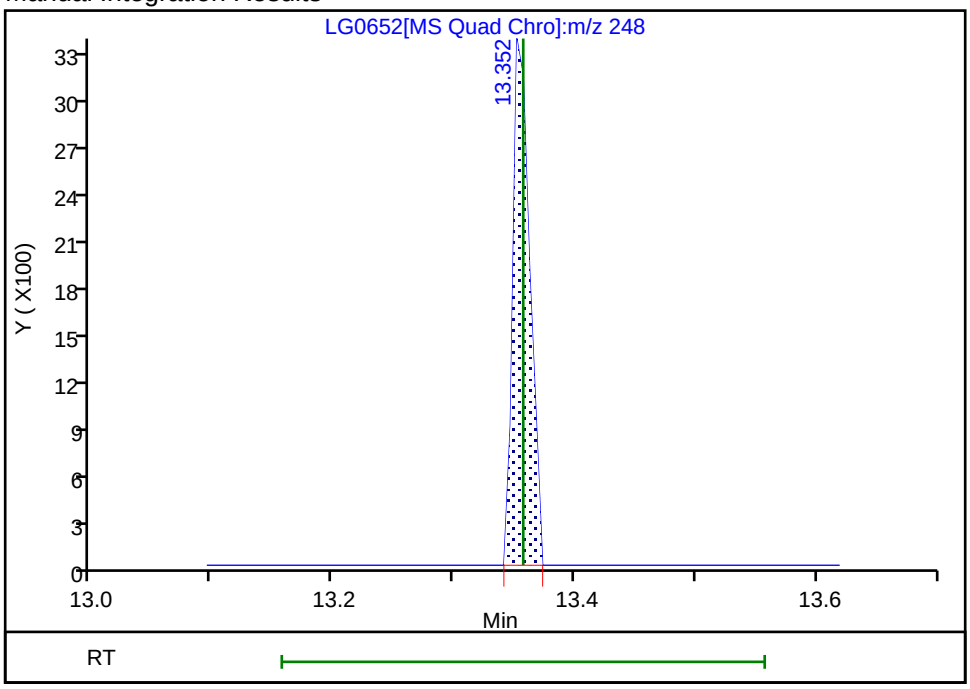
Not Detected
Expected RT: 13.36

Processing Integration Results



Manual Integration Results

RT: 13.35
Area: 3285
Amount: 0.130124
Amount Units: ug/ml



Reviewer: hartenstinel, 15-Jul-2020 16:01:30
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

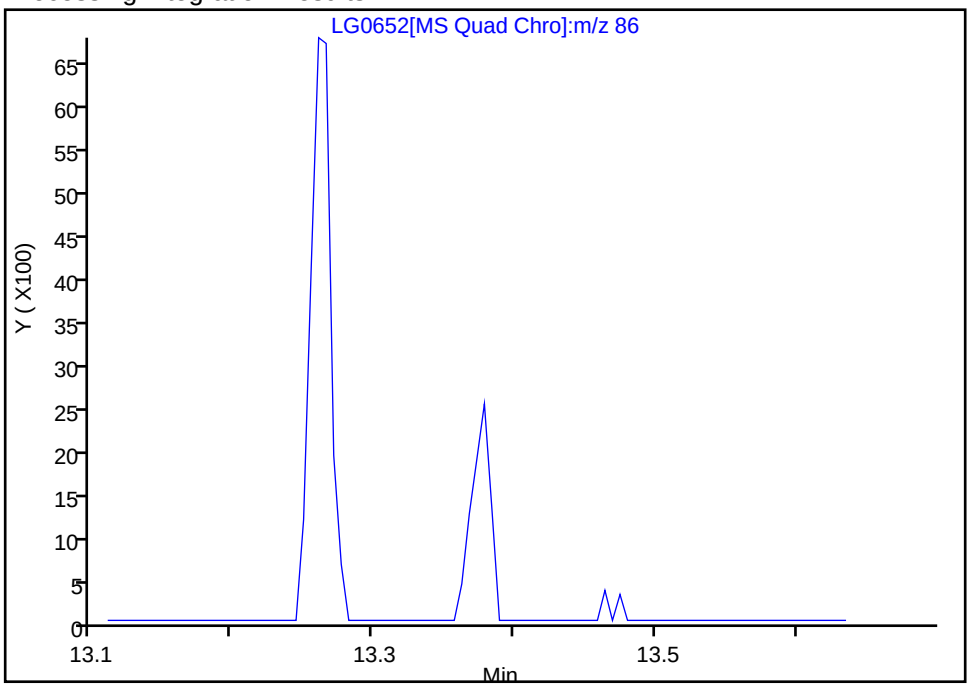
Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0652.D
Injection Date: 15-Jul-2020 13:56:59 Instrument ID: HP20296
Lims ID: IC L1
Client ID:
Operator ID: lmh00956 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

119 trans-Diallate, CAS: 17708-58-6

Signal: 1

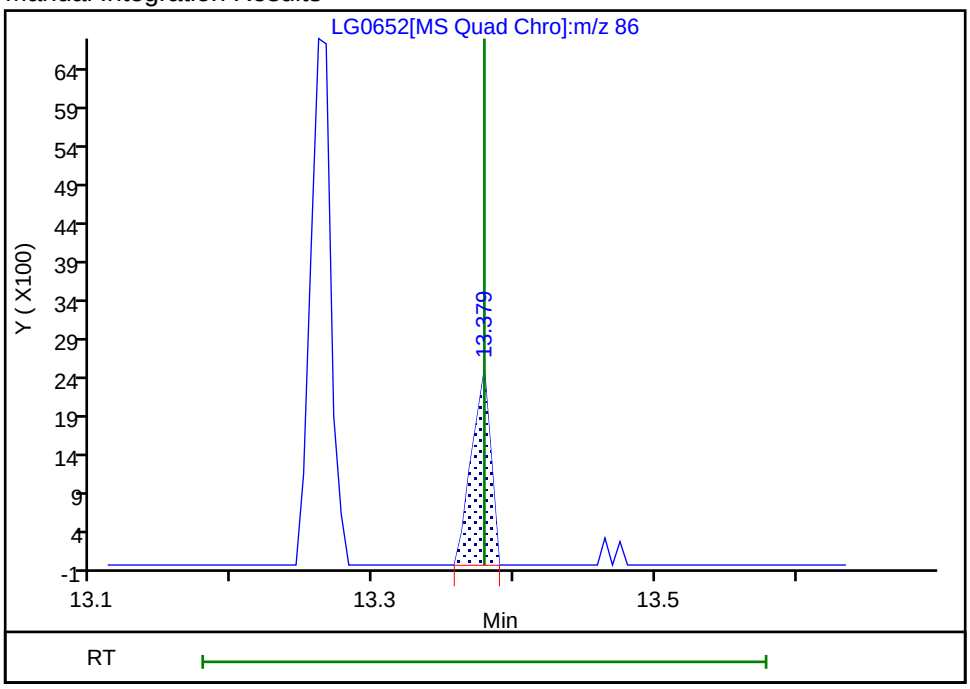
Not Detected
Expected RT: 13.38

Processing Integration Results



Manual Integration Results

RT: 13.38
Area: 2356
Amount: 0.036611
Amount Units: ug/ml



Reviewer: hartenstinel, 15-Jul-2020 16:01:42
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

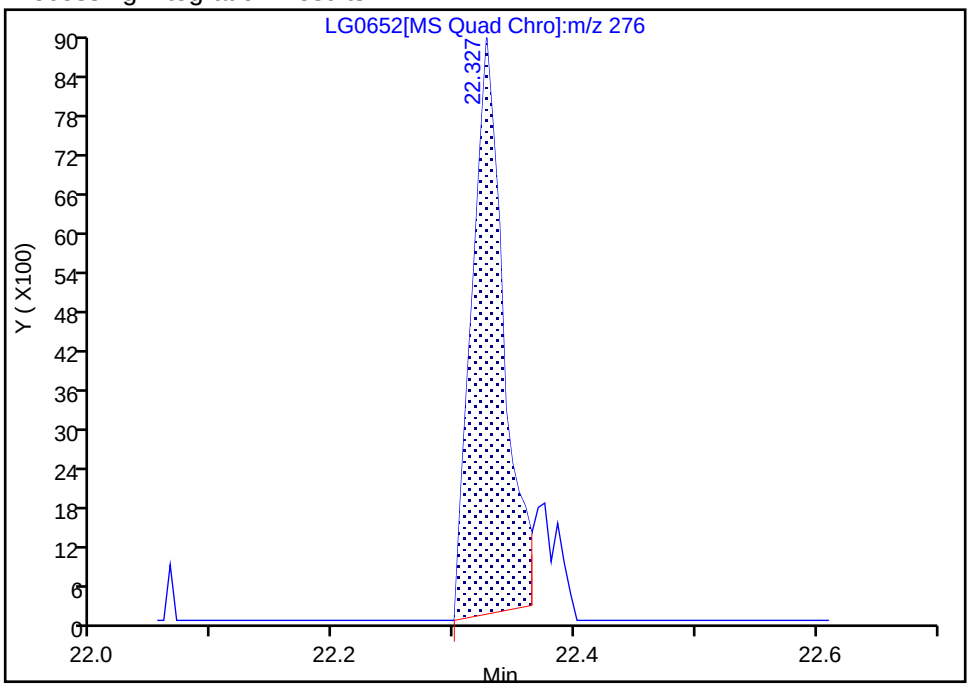
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0652.D				
Injection Date:	15-Jul-2020 13:56:59	Instrument ID:	HP20296		
Lims ID:	IC L1				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

163 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

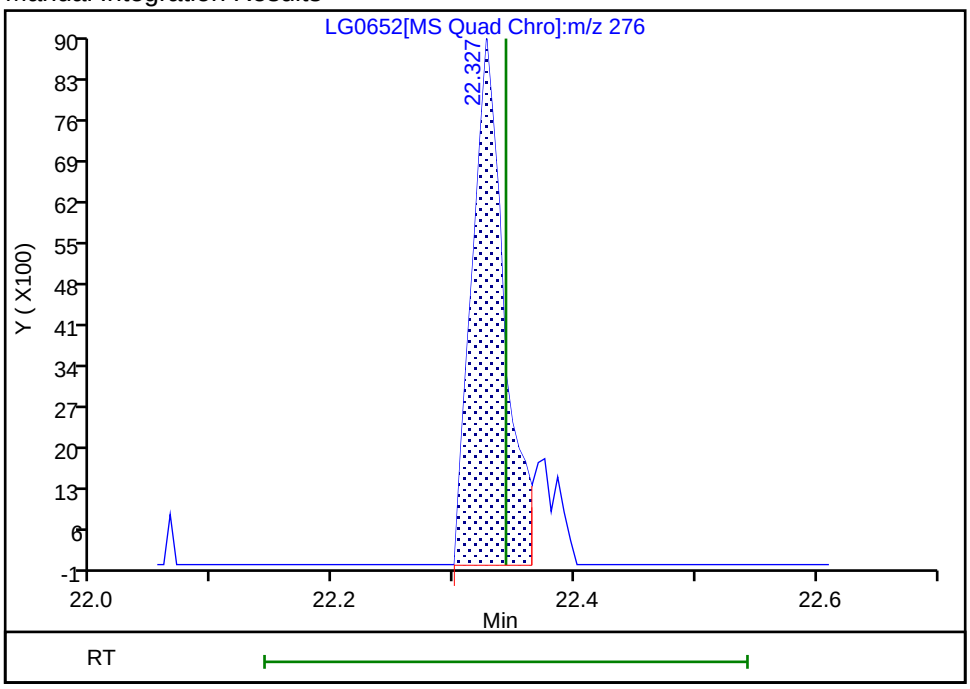
Processing Integration Results

RT: 22.33
Area: 16033
Amount: 0.112749
Amount Units: ug/ml



Manual Integration Results

RT: 22.33
Area: 16520
Amount: 0.125792
Amount Units: ug/ml



Reviewer: hartenstinel, 15-Jul-2020 16:02:18

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0653.D
Lims ID: IC L8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 15-Jul-2020 14:26:04 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L8
Misc. Info.: 410-0005639-004
Operator ID: lmh00956 Instrument ID: HP20296
Sublist: chrom-MSSemi_HP20296*sub6

Method: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 15-Jul-2020 19:25:44 Calib Date: 15-Jul-2020 16:51:20
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0658.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1062

First Level Reviewer: hartenstinel Date: 15-Jul-2020 15:49:30

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	2.745	2.740	0.005	92	807956	30.0	34.9	
2 N-Nitrosodimethylamine	74	3.270	3.248	0.022	88	1317818	30.0	36.8	
3 Pyridine	79	3.291	3.286	0.005	96	2210689	30.0	34.8	
5 2-Picoline	93	4.436	4.425	0.011	93	2308780	30.0	31.5	
6 N-Nitrosomethylethylamine	88	4.617	4.607	0.010	83	932280	30.0	31.7	
9 Methyl methanesulfonate	80	5.072	5.051	0.021	84	937938	30.0	28.7	
$ 10 2-Fluorophenol	112	5.313	5.291	0.022	94	3691801	60.0	62.2	
11 N-Nitrosodiethylamine	102	5.644	5.628	0.016	96	912374	30.0	32.1	
13 Ethyl methanesulfonate	109	6.099	6.078	0.021	97	1010729	30.0	32.1	
15 Benzaldehyde	77	6.564	6.559	0.005	95	1583576	30.0	27.9	
$ 16 Phenol-d5	99	6.687	6.661	0.026	97	4757697	60.0	62.2	
17 Phenol	94	6.703	6.677	0.026	98	2796255	30.0	32.4	
18 Aniline	93	6.730	6.719	0.011	98	3330216	30.0	31.7	
19 Bis(2-chloroethyl)ether	93	6.842	6.832	0.010	95	2156287	30.0	30.4	
20 2-Chlorophenol	128	6.896	6.885	0.011	96	1780907	30.0	31.0	
22 1,3-Dichlorobenzene	146	7.131	7.121	0.010	95	1842508	30.0	29.9	
* 24 1,4-Dichlorobenzene-d4	152	7.217	7.212	0.005	97	186875	5.00	5.00	
25 1,4-Dichlorobenzene	146	7.244	7.238	0.006	90	1884765	30.0	30.2	
27 Benzyl alcohol	108	7.442	7.420	0.022	91	1367536	30.0	31.1	
29 1,2-Dichlorobenzene	146	7.468	7.463	0.005	94	1800038	30.0	30.4	
30 Indene	115	7.607	7.602	0.005	87	2739107	30.0	30.5	
31 2-Methylphenol	108	7.613	7.602	0.011	90	1800514	30.0	30.9	
32 2,2'-oxybis[1-chloropropane]	45	7.661	7.650	0.011	95	2430414	30.0	30.4	
34 N-Nitrosopyrrolidine	100	7.827	7.789	0.038	93	997135	30.0	30.8	a
35 Acetophenone	105	7.848	7.832	0.016	95	2898897	30.0	30.6	
36 4-Methylphenol	108	7.864	7.837	0.027	94	1863285	30.0	30.4	
37 N-Nitrosodi-n-propylamine	70	7.880	7.848	0.032	83	1667271	30.0	31.5	
38 N-Nitrosomorpholine	56	7.880	7.859	0.021	88	1057823	30.0	29.5	
39 2-Toluidine	106	7.902	7.885	0.017	94	3107327	30.0	30.1	
40 Hexachloroethane	117	7.992	7.987	0.005	93	856077	30.0	30.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	8.078	8.062	0.016	86	4781897	60.0	60.2	
42 Nitrobenzene	77	8.105	8.089	0.016	83	2422758	30.0	30.1	
44 N-Nitrosopiperidine	114	8.340	8.324	0.016	89	949556	30.0	30.7	
46 Isophorone	82	8.490	8.474	0.016	98	4324367	30.0	30.4	
47 2-Nitrophenol	139	8.602	8.592	0.010	97	884363	30.0	30.5	
48 2,4-Dimethylphenol	107	8.688	8.677	0.011	98	2012207	30.0	30.2	
49 o,o',o''-Triethylphosphorothioat	198	8.816	8.805	0.011	92	703800	30.0	30.1	
50 Benzoic acid	105	8.896	8.816	0.080	88	1243453	30.0	28.1	M
51 Bis(2-chloroethoxy)methane	93	8.854	8.843	0.011	98	2604569	30.0	28.5	
S 53 Dinitrotoluene	165				0		60.0	61.7	
52 2,4-Dichlorophenol	162	8.982	8.971	0.011	97	1382748	30.0	30.8	
54 1,2,4-Trichlorobenzene	180	9.116	9.110	0.006	93	1368771	30.0	29.5	
* 55 Naphthalene-d8	136	9.201	9.196	0.005	100	784151	5.00	5.00	
56 Naphthalene	128	9.239	9.228	0.011	98	5236874	30.0	29.5	
57 4-Chloroaniline	127	9.335	9.324	0.011	94	2138555	30.0	30.2	
58 2,6-Dichlorophenol	162	9.346	9.335	0.011	93	1309133	30.0	30.1	
59 Hexachloropropene	213	9.383	9.383	0.000	93	842615	30.0	30.3	
60 Hexachlorobutadiene	225	9.453	9.447	0.006	96	722675	30.0	29.7	
S 63 Diallate	86				0		30.0	29.9	
62 Quinoline	129	9.779	9.763	0.016	95	3246609	30.0	29.7	
64 Caprolactam	113	9.929	9.859	0.070	76	526453	30.0	30.3	a
65 N-Nitrosodi-n-butylamine	84	9.913	9.902	0.011	89	1953592	30.0	34.4	
66 4-Chloro-3-methylphenol	107	10.143	10.127	0.016	93	1756446	30.0	30.1	
67 Safrole, Total	162	10.244	10.234	0.010	83	1211194	30.0	30.5	
69 2-Methylnaphthalene	142	10.367	10.357	0.010	91	3358094	30.0	29.9	
70 1-Methylnaphthalene	142	10.522	10.517	0.005	91	3172185	30.0	29.7	
71 Hexachlorocyclopentadiene	237	10.629	10.624	0.005	95	810592	30.0	30.9	
72 1,2,4,5-Tetrachlorobenzene	216	10.635	10.629	0.006	96	1227143	30.0	30.3	
73 Isosafrole Peak 1	162	10.715	10.715	0.000	83	222026	4.80	4.82	
74 2,4,6-Trichlorophenol	196	10.833	10.822	0.011	92	923894	30.0	31.8	
75 2,4,5-Trichlorophenol	196	10.886	10.870	0.016	90	953326	30.0	31.0	
$ 76 2-Fluorobiphenyl (Surr)	172	10.982	10.977	0.005	99	6898149	60.0	61.4	
77 Isosafrole Peak 2	162	11.095	11.084	0.011	87	1260436	25.2	25.9	
79 1,1'-Biphenyl	154	11.143	11.132	0.011	97	3986124	30.0	30.8	
80 2-Chloronaphthalene	162	11.159	11.148	0.011	99	3147744	30.0	30.8	
81 1-Chloronaphthalene	162	11.191	11.180	0.011	95	2656394	30.0	29.2	
82 Phenyl ether	170	11.319	11.314	0.005	87	1967301	30.0	30.4	
83 2-Nitroaniline	138	11.335	11.319	0.016	82	1083777	30.0	31.0	
84 1,4-Naphthoquinone	158	11.448	11.437	0.011	79	1277028	30.0	30.6	
85 1,4-Dinitrobenzene	168	11.565	11.549	0.016	83	477059	30.0	30.9	
86 Dimethyl phthalate	163	11.656	11.640	0.016	97	3375226	30.0	29.9	
87 1,3-Dinitrobenzene	168	11.678	11.656	0.022	83	529351	30.0	30.3	
88 2,6-Dinitrotoluene	165	11.731	11.715	0.016	89	757250	30.0	30.5	
90 Acenaphthylene	152	11.801	11.795	0.006	99	4530221	30.0	30.9	
91 3-Nitroaniline	138	11.961	11.940	0.021	93	907492	30.0	31.0	
* 92 Acenaphthene-d10	164	12.004	11.999	0.005	97	358116	5.00	5.00	
93 Acenaphthene	153	12.052	12.041	0.011	98	3268801	30.0	30.1	
94 2,4-Dinitrophenol	184	12.106	12.090	0.016	78	440203	30.0	32.9	
96 4-Nitrophenol	109	12.202	12.180	0.022	91	702056	30.0	32.8	
98 Pentachlorobenzene	250	12.229	12.223	0.006	96	1024013	30.0	29.3	
99 2,4-Dinitrotoluene	165	12.287	12.271	0.016	68	1065642	30.0	31.2	
100 Dibenzofuran	168	12.287	12.277	0.010	94	4055191	30.0	29.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 1-Naphthylamine	143	12.389	12.378	0.011	98	3462168	30.0	31.5	
102 2,3,4,6-Tetrachlorophenol	232	12.448	12.437	0.011	83	681250	30.0	31.0	
103 2-Naphthylamine	143	12.491	12.480	0.011	94	3404644	30.0	31.0	
104 Diethyl phthalate	149	12.624	12.608	0.016	97	3705882	30.0	31.1	
106 Thionazin	107	12.726	12.705	0.021	77	750739	30.0	31.4	
105 Fluorene	166	12.721	12.715	0.006	92	3322383	30.0	29.3	
107 N-Nitro-o-toluidine	152	12.753	12.731	0.022	87	1012000	30.0	30.7	
108 4-Chlorophenyl phenyl ether	204	12.737	12.737	0.000	94	1386899	30.0	29.8	
109 4-Nitroaniline	138	12.763	12.737	0.026	80	960858	30.0	30.0	
110 4,6-Dinitro-2-methylphenol	198	12.801	12.785	0.016	70	535722	30.0	30.8	
111 N-Nitrosodiphenylamine	169	12.892	12.881	0.011	64	2844194	30.0	29.1	
112 1,2-Diphenylhydrazine	77	12.940	12.929	0.011	42	4879948	30.0	29.1	a
$ 113 2,4,6-Tribromophenol	330	13.031	13.020	0.011	89	896961	60.0	63.0	
114 Sulfotepp	97	13.116	13.111	0.005	78	834942	30.0	30.0	
115 cis-Diallate	86	13.272	13.266	0.006	89	1506574	22.2	22.1	
116 Phorate	75	13.282	13.272	0.010	95	3238121	30.0	30.8	
117 Phenacetin	108	13.309	13.282	0.027	90	2367591	30.0	30.5	
118 4-Bromophenyl phenyl ether	248	13.362	13.357	0.005	74	761661	30.0	27.9	
119 trans-Diallate	86	13.379	13.379	-0.001	95	543469	7.80	7.81	
120 Hexachlorobenzene	284	13.427	13.416	0.011	90	882485	30.0	29.6	
121 Dimethoate	87	13.502	13.480	0.022	97	2112024	30.0	30.4	
122 Atrazine	200	13.592	13.582	0.010	86	766953	30.0	26.3	
123 Pentachlorophenol	266	13.689	13.678	0.011	89	610463	30.0	31.2	
124 4-Aminobiphenyl	169	13.699	13.689	0.010	92	2639869	30.0	28.6	
125 Pentachloronitrobenzene	237	13.705	13.699	0.006	81	417420	30.0	30.0	
126 Pronamide	173	13.796	13.785	0.011	90	1733642	30.0	30.7	
* 127 Phenanthrene-d10	188	13.940	13.935	0.005	96	700459	5.00	5.00	
128 Dinoseb	211	13.945	13.940	0.005	91	804667	30.0	31.6	
129 Phenanthrene	178	13.978	13.967	0.011	98	4977020	30.0	29.2	
130 Anthracene	178	14.047	14.036	0.011	99	5068601	30.0	29.3	
131 Carbazole	167	14.266	14.256	0.010	96	4870556	30.0	30.1	
132 Methyl parathion	109	14.470	14.459	0.011	88	1698059	30.0	30.9	
133 Di-n-butyl phthalate	149	14.785	14.775	0.010	100	6944101	30.0	30.0	
134 Ethyl Parathion	109	15.037	15.031	0.006	82	1027973	30.0	30.7	
135 4-Nitroquinoline-1-oxide	190	15.069	15.053	0.016	88	645333	30.0	31.5	
136 Octachlorostyrene	308	15.411	15.406	0.005	92	410900	30.0	29.4	
137 Isodrin	193	15.470	15.465	0.006	86	577260	30.0	28.2	
138 Fluoranthene	202	15.705	15.694	0.011	99	5313202	30.0	30.3	
139 Benzidine	184	15.941	15.919	0.021	99	11097442	90.0	88.5	
* 140 Pyrene-d10 (IS)	212	16.026	16.021	0.005	99	665294	5.00	5.00	
141 Pyrene	202	16.064	16.053	0.011	95	5373359	30.0	29.1	
$ 142 p-Terphenyl-d14	244	16.347	16.331	0.016	97	7179903	60.0	59.7	
143 p-Dimethylamino azobenzene	225	16.577	16.566	0.011	90	899006	30.0	31.6	
144 Chlorobenzilate	139	16.663	16.657	0.006	80	2153619	30.0	30.5	
145 3,3'-Dimethylbenzidine	212	17.155	17.144	0.011	98	3608935	30.0	30.5	
146 Butyl benzyl phthalate	149	17.208	17.197	0.011	93	3105918	30.0	30.8	
147 2-Acetylaminofluorene	181	17.599	17.577	0.022	93	2414008	30.0	31.3	
148 3,3'-Dichlorobenzidine	252	18.112	18.101	0.011	82	1848023	30.0	30.5	
150 4,4'-Methylene bis(2-chloroanil	231	18.128	18.117	0.011	93	950345	30.0	30.0	
149 Benzo[a]anthracene	228	18.133	18.123	0.010	99	4625732	30.0	30.0	
151 Chrysene	228	18.203	18.187	0.016	96	4531782	30.0	29.4	
152 Bis(2-ethylhexyl) phthalate	149	18.289	18.283	0.006	97	4639182	30.0	30.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
153 6-Methylchrysene	242	19.021	19.005	0.016	99	3209964	30.0	30.0	
154 Di-n-octyl phthalate	149	19.471	19.465	0.006	99	8233994	30.0	32.1	
155 Benzo[b]fluoranthene	252	20.038	20.016	0.022	97	4814737	30.0	30.9	
156 7,12-Dimethylbenz(a)anthracene	256	20.043	20.016	0.027	86	2085638	30.0	31.8	
157 Benzo[k]fluoranthene	252	20.091	20.070	0.021	97	4525455	30.0	30.2	
158 Benzo[a]pyrene	252	20.572	20.556	0.016	82	4489432	30.0	30.9	
* 159 Perylene-d12	264	20.653	20.647	0.006	95	608981	5.00	5.00	
160 3-Methylcholanthrene	268	21.145	21.134	0.011	94	2288807	30.0	31.9	
161 Dibenz[a,h]acridine	279	21.990	21.974	0.016	92	3442414	30.0	30.7	
162 Dibenz[a,j]acridine	279	22.075	22.054	0.021	95	3488965	30.0	30.5	
163 Indeno[1,2,3-cd]pyrene	276	22.370	22.343	0.027	97	4258795	30.0	31.5	M
164 Dibenz(a,h)anthracene	278	22.407	22.386	0.021	95	4243568	30.0	31.3	
165 Benzo[g,h,i]perylene	276	22.824	22.792	0.032	93	4085581	30.0	29.7	
S 166 Isosafrole	162				0		30.0	30.7	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSS_RV8270_8_00006 Amount Added: 1.00 Units: mL

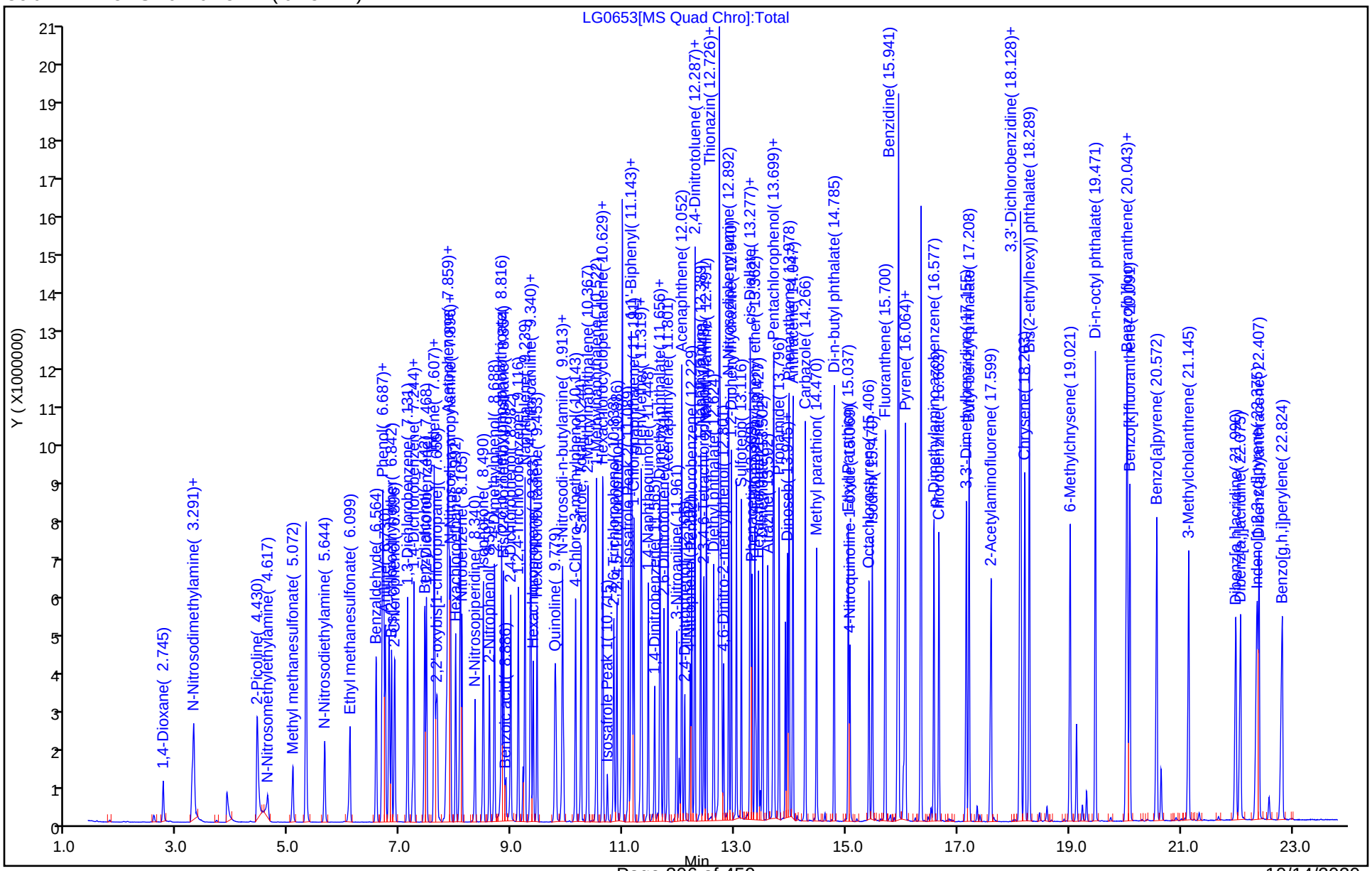
Report Date: 15-Jul-2020 19:25:48 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0653.D

Injection Date:	15-Jul-2020 14:26:04	Instrument ID:	HP20296	Operator ID:	lmh00956
Lims ID:	IC L8			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

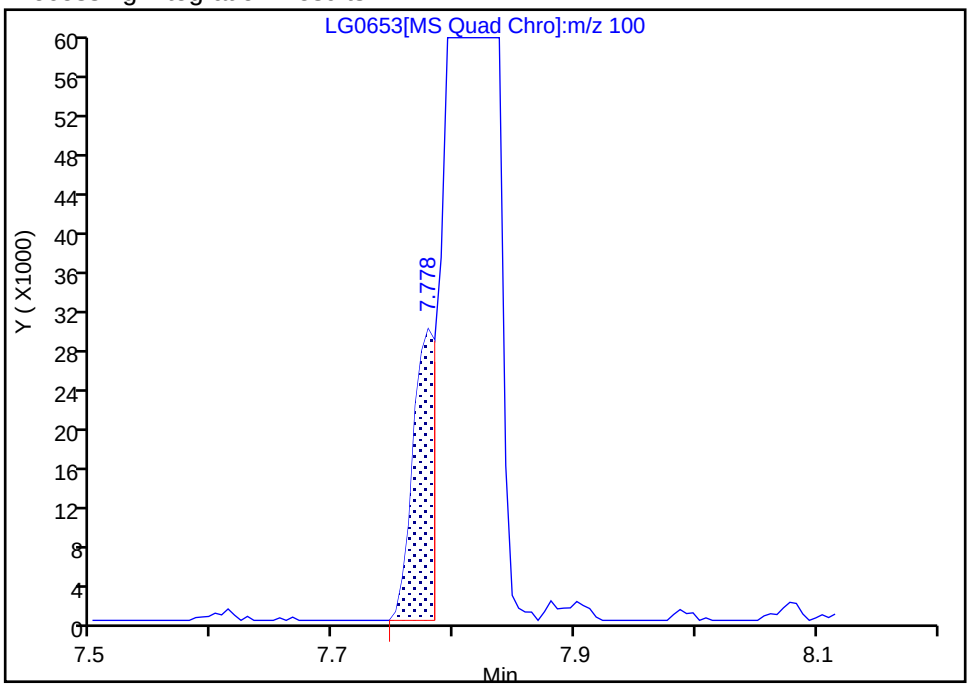
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0653.D				
Injection Date:	15-Jul-2020 14:26:04	Instrument ID:	HP20296		
Lims ID:	IC L8				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

34 N-Nitrosopyrrolidine, CAS: 930-55-2

Signal: 1

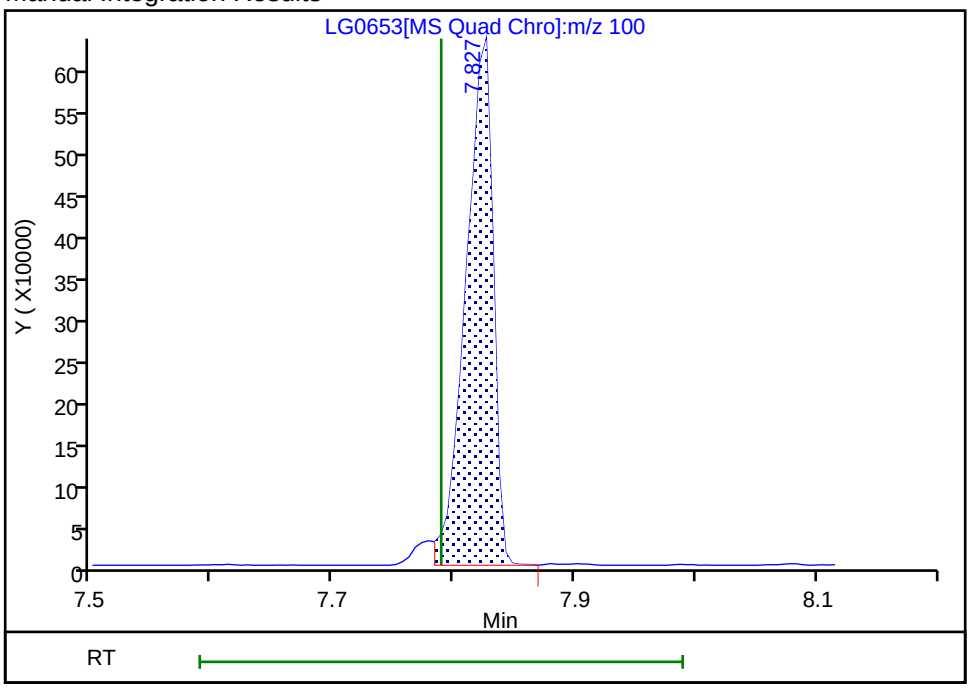
Processing Integration Results

RT: 7.78
Area: 34704
Amount: 1.287064
Amount Units: ug/ml



Manual Integration Results

RT: 7.83
Area: 997135
Amount: 30.817371
Amount Units: ug/ml



Reviewer: hartenstinel, 15-Jul-2020 16:02:52

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

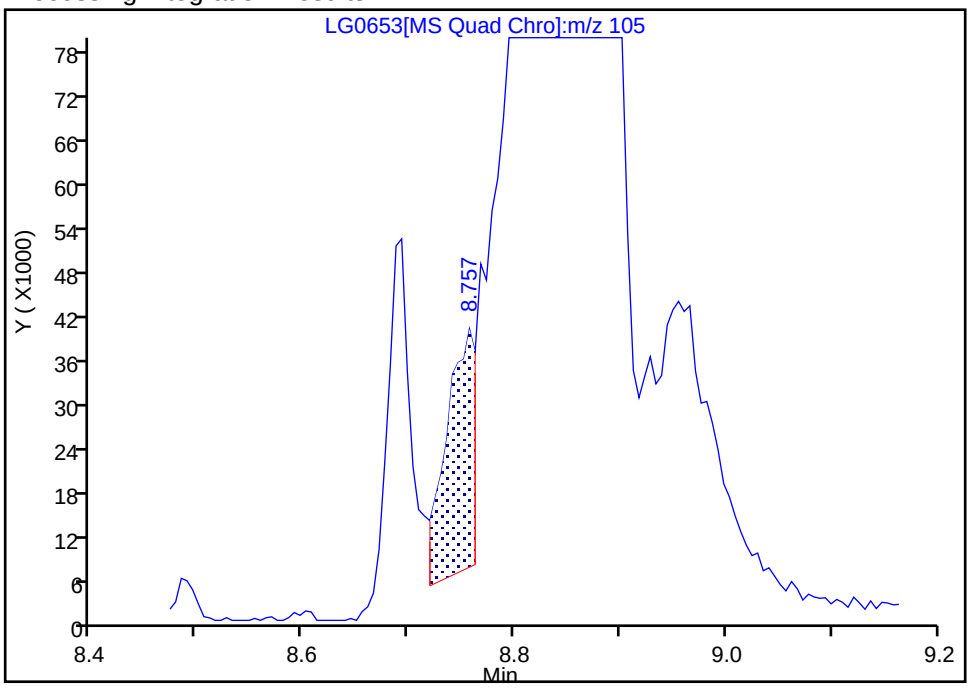
Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0653.D
Injection Date: 15-Jul-2020 14:26:04 Instrument ID: HP20296
Lims ID: IC L8
Client ID:
Operator ID: lmh00956 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

50 Benzoic acid, CAS: 65-85-0

Signal: 1

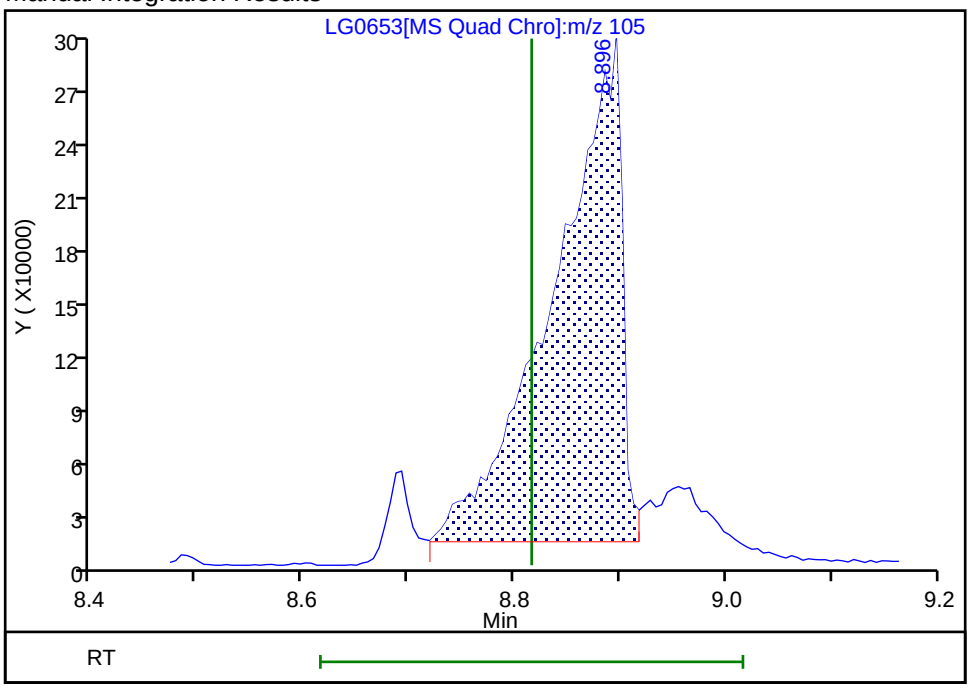
Processing Integration Results

RT: 8.76
Area: 58607
Amount: 2.166516
Amount Units: ug/ml



Manual Integration Results

RT: 8.90
Area: 1243453
Amount: 28.052576
Amount Units: ug/ml



Reviewer: hartenstinel, 15-Jul-2020 16:03:14
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

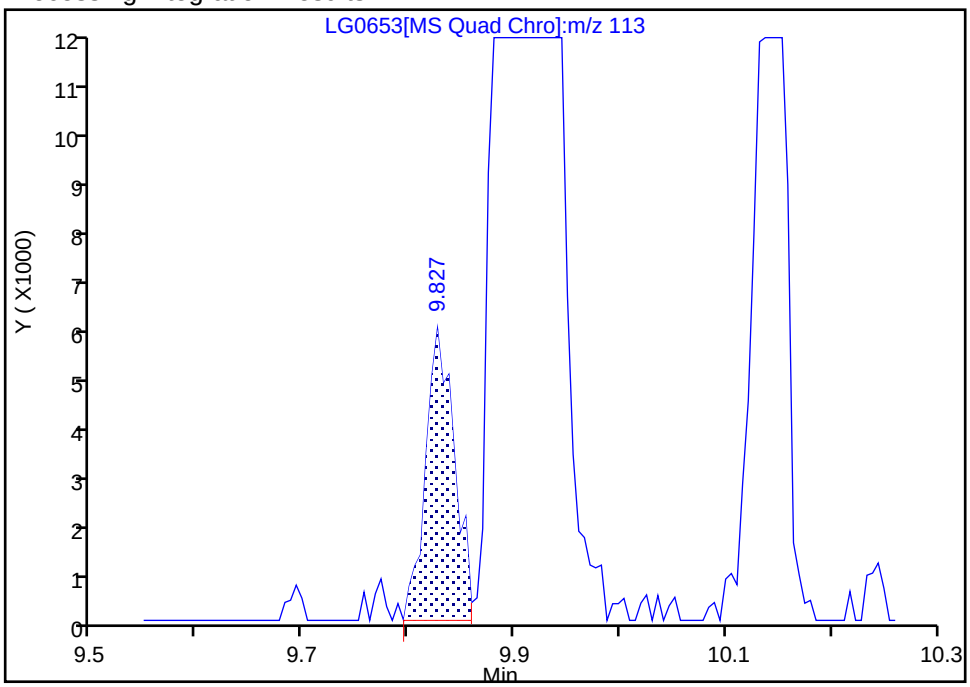
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0653.D				
Injection Date:	15-Jul-2020 14:26:04	Instrument ID:	HP20296		
Lims ID:	IC L8				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

64 Caprolactam, CAS: 105-60-2

Signal: 1

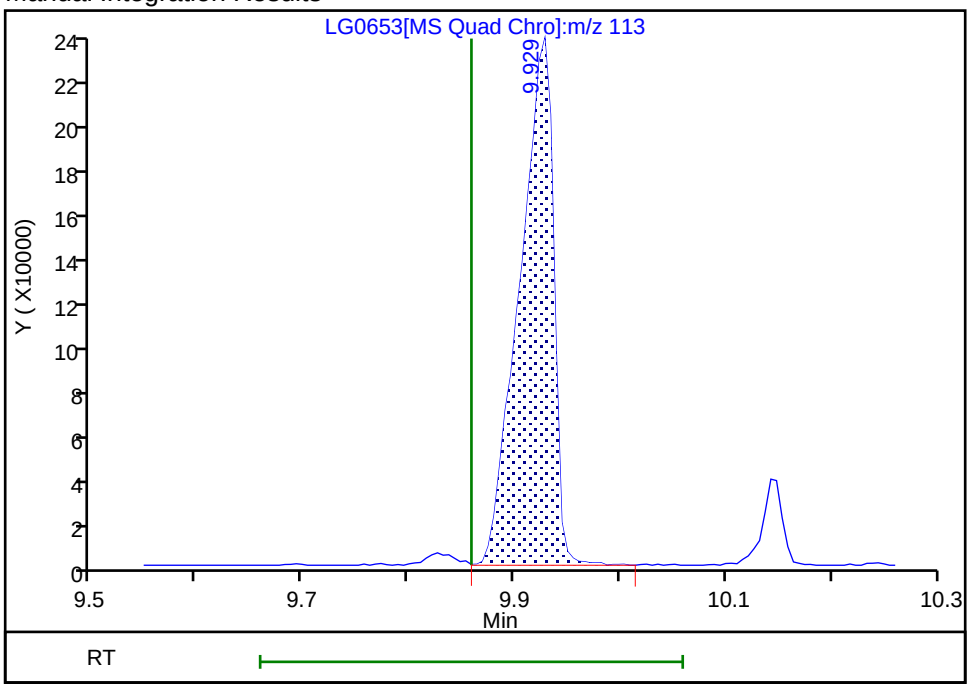
Processing Integration Results

RT: 9.83
Area: 10456
Amount: 0.725662
Amount Units: ug/ml



Manual Integration Results

RT: 9.93
Area: 526453
Amount: 30.318918
Amount Units: ug/ml



Reviewer: hartenstinel, 15-Jul-2020 16:03:24
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

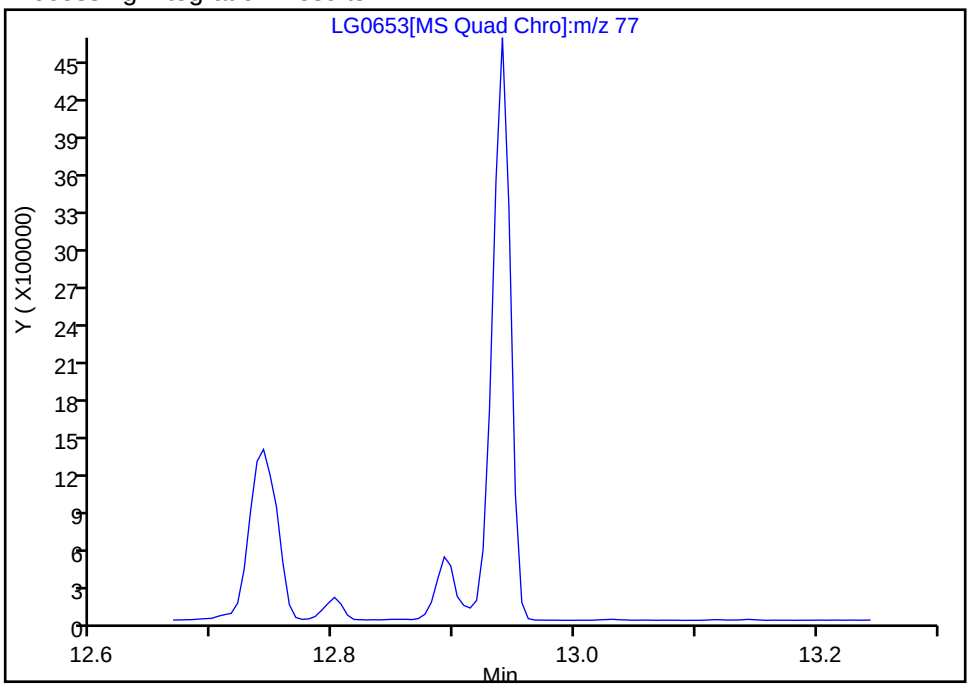
Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0653.D
Injection Date: 15-Jul-2020 14:26:04 Instrument ID: HP20296
Lims ID: IC L8
Client ID:
Operator ID: lmh00956 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

112 1,2-Diphenylhydrazine, CAS: 122-66-7

Signal: 1

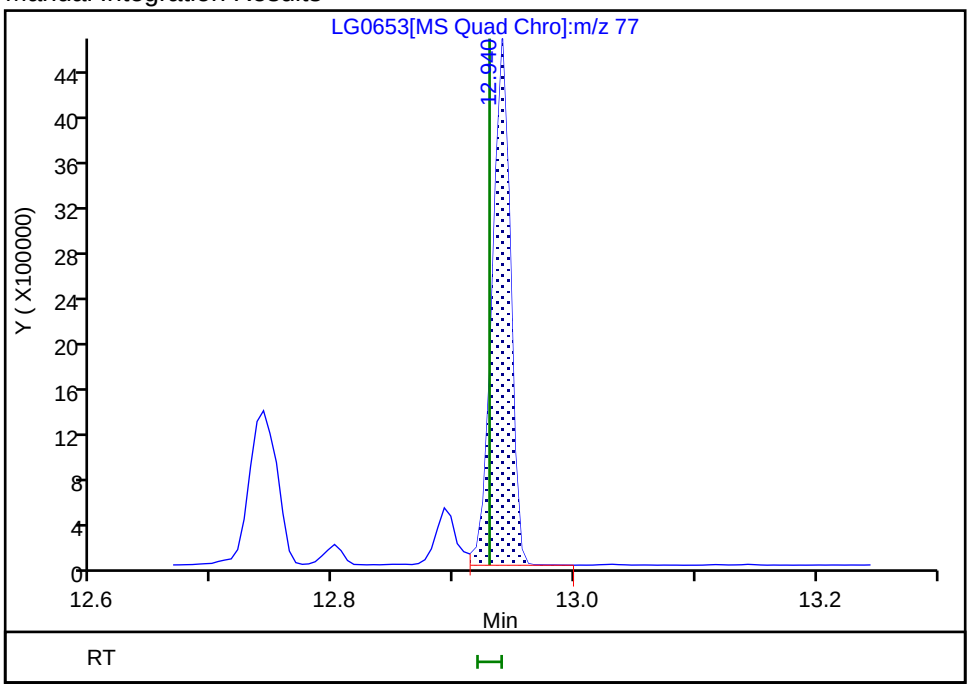
Not Detected
Expected RT: 12.93

Processing Integration Results



Manual Integration Results

RT: 12.94
Area: 4879948
Amount: 29.099974
Amount Units: ug/ml



Reviewer: hartenstinel, 15-Jul-2020 16:03:40
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

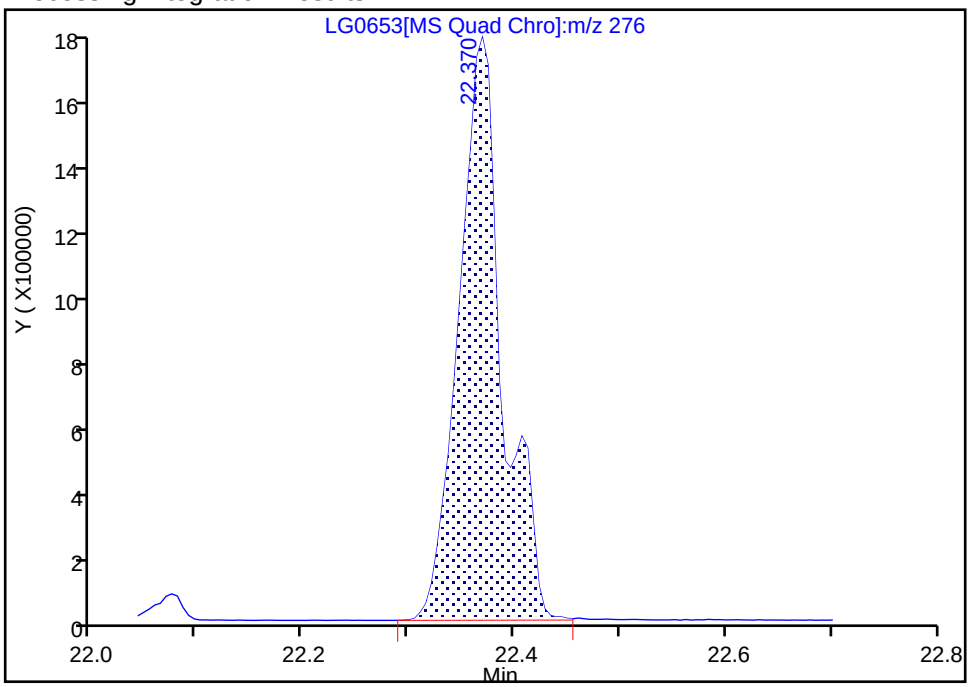
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0653.D				
Injection Date:	15-Jul-2020 14:26:04	Instrument ID:	HP20296		
Lims ID:	IC L8				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

163 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

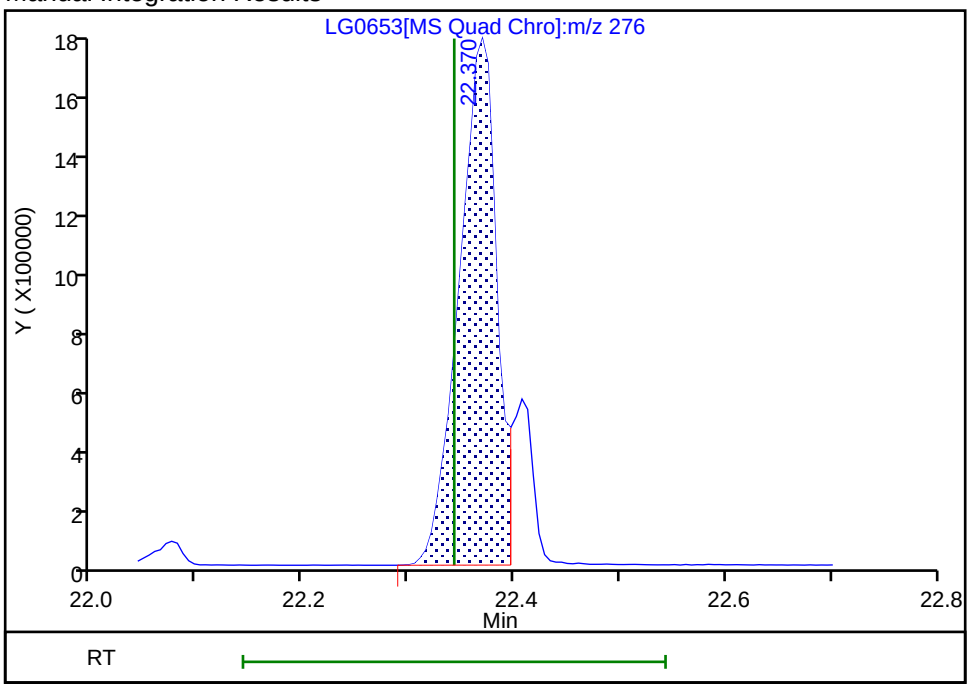
Processing Integration Results

RT: 22.37
Area: 4981621
Amount: 33.902098
Amount Units: ug/ml



Manual Integration Results

RT: 22.37
Area: 4258795
Amount: 31.489904
Amount Units: ug/ml



Reviewer: hartenstinel, 15-Jul-2020 16:04:07

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0654.D
Lims ID: IC L7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 15-Jul-2020 14:55:08 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L7
Misc. Info.: 410-0005639-005
Operator ID: lmh00956 Instrument ID: HP20296
Sublist: chrom-MSSemi_HP20296*sub6

Method: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 15-Jul-2020 19:25:56 Calib Date: 15-Jul-2020 16:51:20
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0658.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1062

First Level Reviewer: hartenstinel Date: 15-Jul-2020 16:05:30

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	2.745	2.740	0.005	92	468531	20.0	20.3	
2 N-Nitrosodimethylamine	74	3.259	3.248	0.011	89	819891	20.0	23.0	
3 Pyridine	79	3.291	3.286	0.005	98	1439356	20.0	22.8	
5 2-Picoline	93	4.430	4.425	0.005	93	1480452	20.0	20.3	
6 N-Nitrosomethylethylamine	88	4.618	4.607	0.011	86	593943	20.0	20.2	
9 Methyl methanesulfonate	80	5.067	5.051	0.016	84	655616	20.0	20.1	
$ 10 2-Fluorophenol	112	5.302	5.291	0.011	92	2348795	40.0	39.7	
11 N-Nitrosodiethylamine	102	5.639	5.628	0.011	90	590124	20.0	20.8	
13 Ethyl methanesulfonate	109	6.088	6.078	0.010	98	650953	20.0	20.7	
15 Benzaldehyde	77	6.564	6.559	0.005	96	1086833	20.0	19.2	
$ 16 Phenol-d5	99	6.677	6.661	0.016	98	3104755	40.0	40.7	
17 Phenol	94	6.693	6.677	0.016	97	1811756	20.0	21.1	
18 Aniline	93	6.725	6.719	0.006	98	2134140	20.0	20.4	
19 Bis(2-chloroethyl)ether	93	6.837	6.832	0.005	96	1370274	20.0	19.4	
20 2-Chlorophenol	128	6.896	6.885	0.011	96	1138554	20.0	19.9	
22 1,3-Dichlorobenzene	146	7.126	7.121	0.005	96	1200193	20.0	19.5	
* 24 1,4-Dichlorobenzene-d4	152	7.217	7.212	0.005	97	186221	5.00	5.00	
25 1,4-Dichlorobenzene	146	7.244	7.238	0.006	90	1215216	20.0	19.5	
27 Benzyl alcohol	108	7.431	7.420	0.011	91	892593	20.0	20.4	
29 1,2-Dichlorobenzene	146	7.468	7.463	0.005	94	1159056	20.0	19.6	
30 Indene	115	7.607	7.602	0.005	88	1818605	20.0	20.3	
31 2-Methylphenol	108	7.607	7.602	0.005	63	1145417	20.0	19.8	
32 2,2'-oxybis[1-chloropropane]	45	7.656	7.650	0.006	95	1564952	20.0	19.6	
34 N-Nitrosopyrrolidine	100	7.811	7.789	0.022	96	668145	20.0	20.7	
35 Acetophenone	105	7.843	7.832	0.011	93	1833786	20.0	19.4	
36 4-Methylphenol	108	7.853	7.837	0.016	92	1232338	20.0	20.2	
37 N-Nitrosodi-n-propylamine	70	7.864	7.848	0.016	78	1063198	20.0	20.2	
38 N-Nitrosomorpholine	56	7.875	7.859	0.016	89	712769	20.0	19.9	
39 2-Toluidine	106	7.896	7.885	0.011	94	2043837	20.0	19.9	
40 Hexachloroethane	117	7.993	7.987	0.005	95	549701	20.0	19.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	8.073	8.062	0.011	86	3083794	40.0	40.1	
42 Nitrobenzene	77	8.099	8.089	0.010	84	1553743	20.0	19.9	
44 N-Nitrosopiperidine	114	8.335	8.324	0.011	89	616322	20.0	20.6	
46 Isophorone	82	8.485	8.474	0.011	98	2795391	20.0	20.3	
47 2-Nitrophenol	139	8.597	8.592	0.005	97	575810	20.0	20.5	
48 2,4-Dimethylphenol	107	8.682	8.677	0.005	99	1315089	20.0	20.4	
49 o,o',o''-Triethylphosphorothioat	198	8.811	8.805	0.006	92	462659	20.0	20.4	
50 Benzoic acid	105	8.859	8.816	0.043	86	975337	20.0	22.7	M
51 Bis(2-chloroethoxy)methane	93	8.848	8.843	0.005	99	1721300	20.0	19.5	
S 53 Dinitrotoluene	165				0		40.0	40.0	
52 2,4-Dichlorophenol	162	8.977	8.971	0.006	97	896022	20.0	20.6	
54 1,2,4-Trichlorobenzene	180	9.116	9.110	0.006	93	891266	20.0	19.8	
* 55 Naphthalene-d8	136	9.201	9.196	0.005	100	759238	5.00	5.00	
56 Naphthalene	128	9.233	9.228	0.005	98	3393457	20.0	19.8	
57 4-Chloroaniline	127	9.330	9.324	0.006	94	1388198	20.0	20.3	
58 2,6-Dichlorophenol	162	9.340	9.335	0.005	95	852387	20.0	20.2	
59 Hexachloropropene	213	9.383	9.383	0.000	93	546293	20.0	20.3	
60 Hexachlorobutadiene	225	9.453	9.447	0.006	96	476653	20.0	20.2	
S 63 Diallate	86				0		20.0	19.7	
62 Quinoline	129	9.774	9.763	0.011	95	2107221	20.0	19.9	
64 Caprolactam	113	9.902	9.859	0.043	74	337715	20.0	20.1	
65 N-Nitrosodi-n-butylamine	84	9.907	9.902	0.005	88	1263532	20.0	23.0	
66 4-Chloro-3-methylphenol	107	10.137	10.127	0.010	92	1158966	20.0	20.5	
67 Safrole, Total	162	10.239	10.234	0.005	82	769946	20.0	20.0	
69 2-Methylnaphthalene	142	10.362	10.357	0.005	91	2167392	20.0	19.9	
70 1-Methylnaphthalene	142	10.517	10.517	0.000	92	2069975	20.0	20.0	
71 Hexachlorocyclopentadiene	237	10.629	10.624	0.005	95	526675	20.0	20.2	
72 1,2,4,5-Tetrachlorobenzene	216	10.635	10.629	0.006	96	798738	20.0	19.8	
73 Isosafrole Peak 1	162	10.715	10.715	0.000	87	147785	3.20	3.23	
74 2,4,6-Trichlorophenol	196	10.827	10.822	0.005	92	599703	20.0	20.8	
75 2,4,5-Trichlorophenol	196	10.875	10.870	0.005	90	624219	20.0	20.4	
$ 76 2-Fluorobiphenyl (Surr)	172	10.982	10.977	0.005	99	4459531	40.0	39.9	
77 Isosafrole Peak 2	162	11.089	11.084	0.005	87	818794	16.8	16.9	
79 1,1'-Biphenyl	154	11.138	11.132	0.006	97	2534569	20.0	19.7	
80 2-Chloronaphthalene	162	11.154	11.148	0.006	99	2003446	20.0	19.7	
81 1-Chloronaphthalene	162	11.186	11.180	0.006	95	1754050	20.0	19.4	
82 Phenyl ether	170	11.314	11.314	0.000	87	1296074	20.0	20.2	
83 2-Nitroaniline	138	11.330	11.319	0.011	77	693623	20.0	19.9	
84 1,4-Naphthoquinone	158	11.442	11.437	0.005	79	836851	20.0	20.1	
85 1,4-Dinitrobenzene	168	11.560	11.549	0.011	83	313660	20.0	20.4	
86 Dimethyl phthalate	163	11.651	11.640	0.011	97	2190413	20.0	19.5	
87 1,3-Dinitrobenzene	168	11.667	11.656	0.011	83	347782	20.0	20.0	
88 2,6-Dinitrotoluene	165	11.721	11.715	0.005	88	488524	20.0	19.8	
90 Acenaphthylene	152	11.795	11.795	0.000	99	2941018	20.0	20.1	
91 3-Nitroaniline	138	11.950	11.940	0.010	92	574335	20.0	19.7	
* 92 Acenaphthene-d10	164	11.999	11.999	0.000	96	356320	5.00	5.00	
93 Acenaphthene	153	12.047	12.041	0.006	98	2147085	20.0	19.9	
94 2,4-Dinitrophenol	184	12.100	12.090	0.010	78	284010	20.0	21.3	
96 4-Nitrophenol	109	12.197	12.180	0.017	92	465172	20.0	21.9	
98 Pentachlorobenzene	250	12.229	12.223	0.006	96	678395	20.0	19.5	
99 2,4-Dinitrotoluene	165	12.282	12.271	0.011	84	685188	20.0	20.2	
100 Dibenzofuran	168	12.282	12.277	0.005	96	2664080	20.0	19.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 1-Naphthylamine	143	12.384	12.378	0.006	98	2225246	20.0	20.4	
102 2,3,4,6-Tetrachlorophenol	232	12.443	12.437	0.006	82	448025	20.0	20.5	
103 2-Naphthylamine	143	12.485	12.480	0.005	95	2226254	20.0	20.3	
104 Diethyl phthalate	149	12.619	12.608	0.011	97	2388048	20.0	20.1	
106 Thionazin	107	12.715	12.705	0.010	77	469789	20.0	19.7	
105 Fluorene	166	12.721	12.715	0.006	93	2172891	20.0	19.3	
107 N-Nitro-o-toluidine	152	12.742	12.731	0.011	86	658199	20.0	20.1	
108 4-Chlorophenyl phenyl ether	204	12.737	12.737	0.000	92	892903	20.0	19.3	
109 4-Nitroaniline	138	12.753	12.737	0.016	81	620236	20.0	19.5	a
110 4,6-Dinitro-2-methylphenol	198	12.796	12.785	0.011	76	342142	20.0	20.4	
111 N-Nitrosodiphenylamine	169	12.887	12.881	0.005	65	1815711	20.0	19.3	
112 1,2-Diphenylhydrazine	77	12.935	12.929	0.006	42	3164914	20.0	19.5	
$ 113 2,4,6-Tribromophenol	330	13.026	13.020	0.006	90	578365	40.0	40.8	
114 Sulfotepp	97	13.116	13.111	0.005	79	519333	20.0	19.3	
115 cis-Diallate	86	13.266	13.266	0.000	85	957398	14.8	14.6	
116 Phorate	75	13.277	13.272	0.005	95	2060108	20.0	20.3	
117 Phenacetin	108	13.298	13.282	0.016	90	1517577	20.0	20.3	
118 4-Bromophenyl phenyl ether	248	13.363	13.357	0.006	74	506861	20.0	19.2	
119 trans-Diallate	86	13.379	13.379	0.000	97	346518	5.20	5.16	
120 Hexachlorobenzene	284	13.421	13.416	0.005	91	577381	20.0	20.1	
121 Dimethoate	87	13.491	13.480	0.011	97	1337389	20.0	19.9	
122 Atrazine	200	13.587	13.582	0.005	86	525273	20.0	18.7	
123 Pentachlorophenol	266	13.683	13.678	0.005	88	391430	20.0	20.7	
124 4-Aminobiphenyl	169	13.694	13.689	0.005	92	1769719	20.0	19.8	
125 Pentachloronitrobenzene	237	13.705	13.699	0.006	80	260978	20.0	19.4	
126 Pronamide	173	13.790	13.785	0.005	90	1122332	20.0	20.6	
* 127 Phenanthrene-d10	188	13.935	13.935	0.000	95	676256	5.00	5.00	
128 Dinoseb	211	13.940	13.940	0.000	90	511724	20.0	20.8	
129 Phenanthrene	178	13.972	13.967	0.005	98	3186160	20.0	19.4	
130 Anthracene	178	14.042	14.036	0.006	99	3265869	20.0	19.6	
131 Carbazole	167	14.261	14.256	0.005	96	3129759	20.0	20.0	
132 Methyl parathion	109	14.464	14.459	0.005	88	1083606	20.0	20.4	
133 Di-n-butyl phthalate	149	14.780	14.775	0.005	100	4455242	20.0	20.0	
134 Ethyl Parathion	109	15.031	15.031	0.000	82	669006	20.0	20.7	
135 4-Nitroquinoline-1-oxide	190	15.063	15.053	0.010	90	415520	20.0	21.0	
136 Octachlorostyrene	308	15.406	15.406	0.000	92	264721	20.0	19.6	
137 Isodrin	193	15.465	15.465	0.001	86	371924	20.0	18.8	
138 Fluoranthene	202	15.700	15.694	0.006	99	3404241	20.0	20.1	
139 Benzidine	184	15.930	15.919	0.011	99	7228171	60.0	59.2	
* 140 Pyrene-d10 (IS)	212	16.026	16.021	0.005	98	647352	5.00	5.00	
141 Pyrene	202	16.058	16.053	0.005	95	3445643	20.0	19.1	
$ 142 p-Terphenyl-d14	244	16.336	16.331	0.005	97	4647281	40.0	39.7	
143 p-Dimethylamino azobenzene	225	16.572	16.566	0.006	89	559572	20.0	20.2	
144 Chlorobenzilate	139	16.663	16.657	0.006	80	1368509	20.0	19.9	
145 3,3'-Dimethylbenzidine	212	17.149	17.144	0.005	98	2341591	20.0	20.3	
146 Butyl benzyl phthalate	149	17.203	17.197	0.006	94	2005079	20.0	20.5	
147 2-Acetylaminofluorene	181	17.593	17.577	0.016	93	1560589	20.0	20.8	
148 3,3'-Dichlorobenzidine	252	18.107	18.101	0.006	82	1206736	20.0	20.5	
150 4,4'-Methylene bis(2-chloroanil	231	18.123	18.117	0.006	92	616642	20.0	20.0	
149 Benzo[a]anthracene	228	18.128	18.123	0.005	98	2982290	20.0	19.9	
151 Chrysene	228	18.198	18.187	0.011	96	2941853	20.0	19.6	
152 Bis(2-ethylhexyl) phthalate	149	18.283	18.283	0.000	97	2964810	20.0	20.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
153 6-Methylchrysene	242	19.011	19.005	0.006	99	2080525	20.0	20.0	
154 Di-n-octyl phthalate	149	19.465	19.465	0.000	99	5251670	20.0	21.1	
155 Benzo[b]fluoranthene	252	20.027	20.016	0.011	94	3077802	20.0	20.4	
156 7,12-Dimethylbenz(a)anthracene	256	20.032	20.016	0.016	79	1344551	20.0	21.2	
157 Benzo[k]fluoranthene	252	20.080	20.070	0.010	97	2947772	20.0	20.3	
158 Benzo[a]pyrene	252	20.567	20.556	0.011	82	2880188	20.0	20.5	
* 159 Perylene-d12	264	20.647	20.647	0.000	95	589806	5.00	5.00	
160 3-Methylcholanthrene	268	21.139	21.134	0.005	93	1475865	20.0	21.2	
161 Dibenz[a,h]acridine	279	21.985	21.974	0.011	92	2231697	20.0	20.6	
162 Dibenz[a,j]acridine	279	22.065	22.054	0.011	95	2293981	20.0	20.7	
163 Indeno[1,2,3-cd]pyrene	276	22.359	22.343	0.016	98	2715563	20.0	20.7	M
164 Dibenz(a,h)anthracene	278	22.396	22.386	0.010	95	2745026	20.0	20.9	
165 Benzo[g,h,i]perylene	276	22.808	22.792	0.016	93	2668026	20.0	20.0	
S 166 Isosafrole	162				0		20.0	20.2	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSS_RV8270_7_00006 Amount Added: 1.00 Units: mL

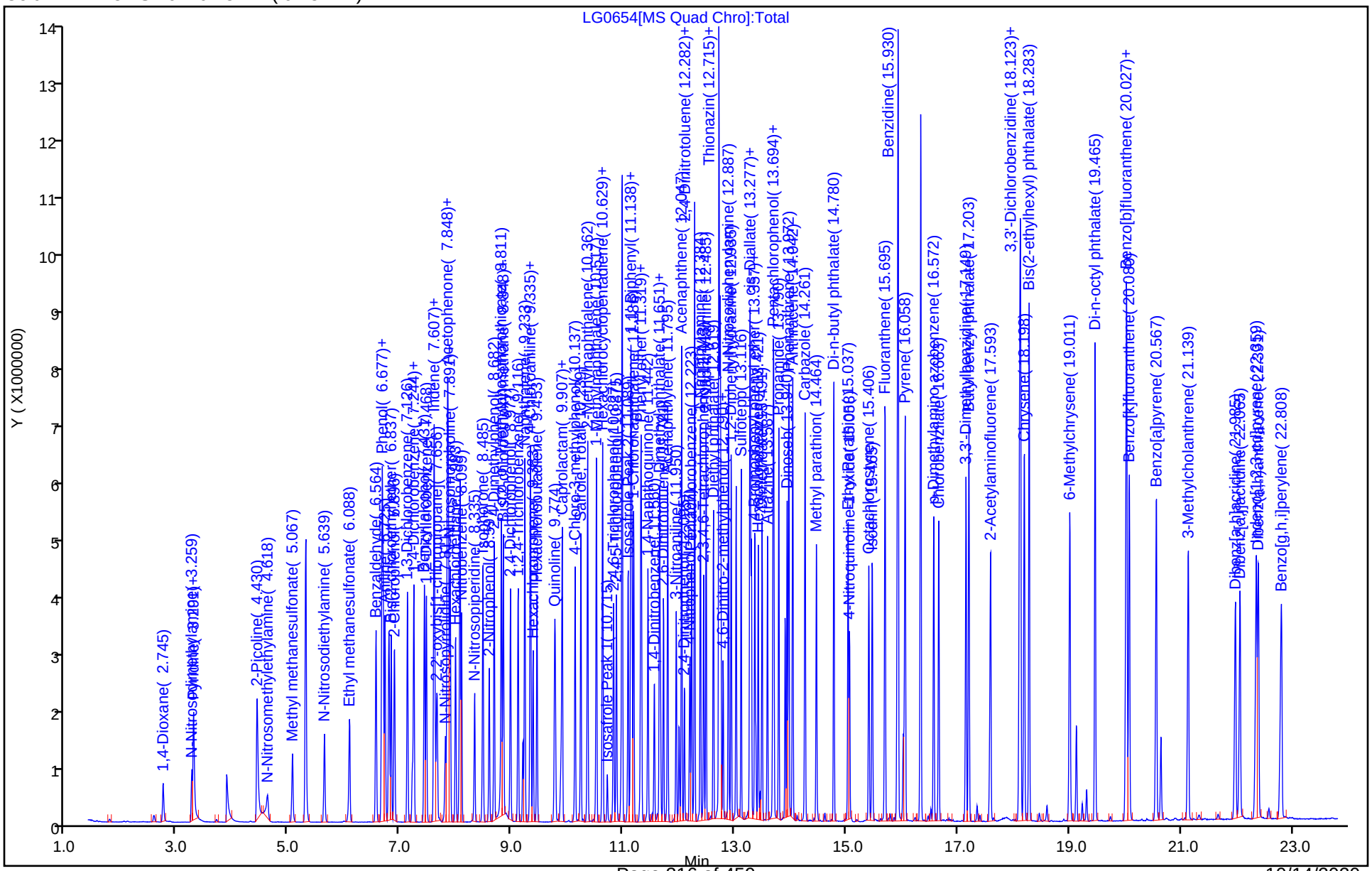
Report Date: 15-Jul-2020 19:26:00 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0654.D

Injection Date:	15-Jul-2020 14:55:08	Instrument ID:	HP20296	Operator ID:	lmh00956
Lims ID:	IC L7			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

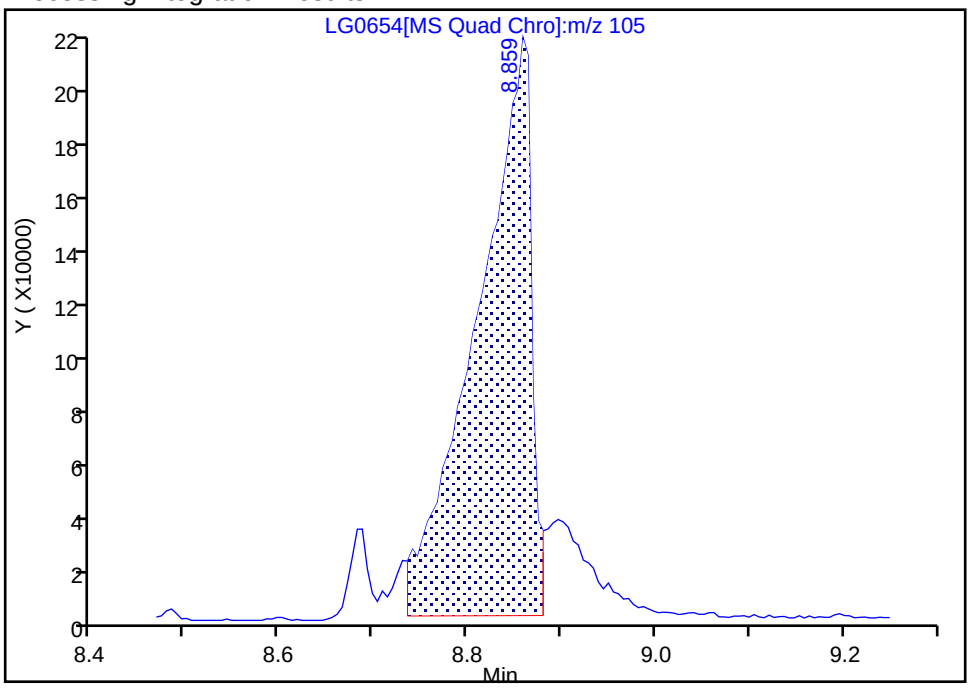
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0654.D				
Injection Date:	15-Jul-2020 14:55:08	Instrument ID:	HP20296		
Lims ID:	IC L7				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

50 Benzoic acid, CAS: 65-85-0

Signal: 1

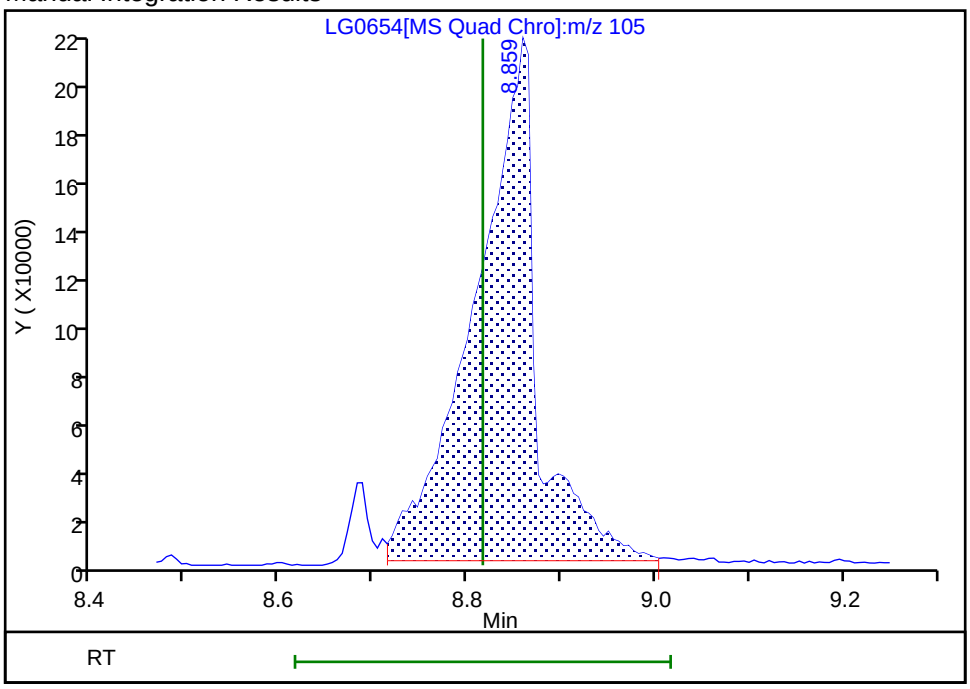
Processing Integration Results

RT: 8.86
Area: 839909
Amount: 21.670426
Amount Units: ug/ml



Manual Integration Results

RT: 8.86
Area: 975337
Amount: 22.725834
Amount Units: ug/ml



Reviewer: transuea, 15-Jul-2020 18:29:40

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

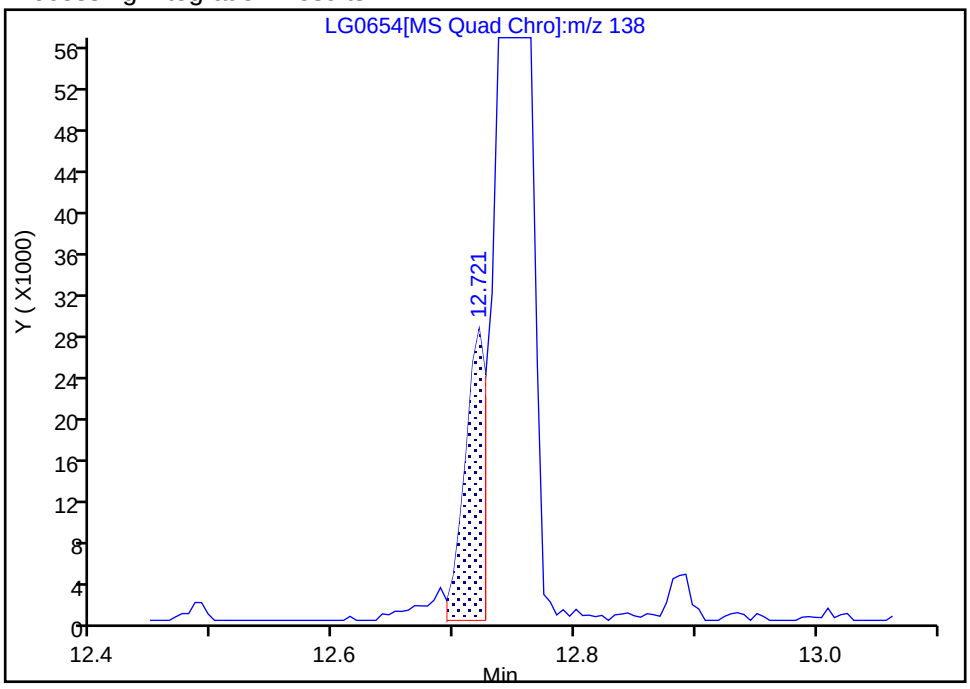
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0654.D				
Injection Date:	15-Jul-2020 14:55:08	Instrument ID:	HP20296		
Lims ID:	IC L7				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

109 4-Nitroaniline, CAS: 100-01-6

Signal: 1

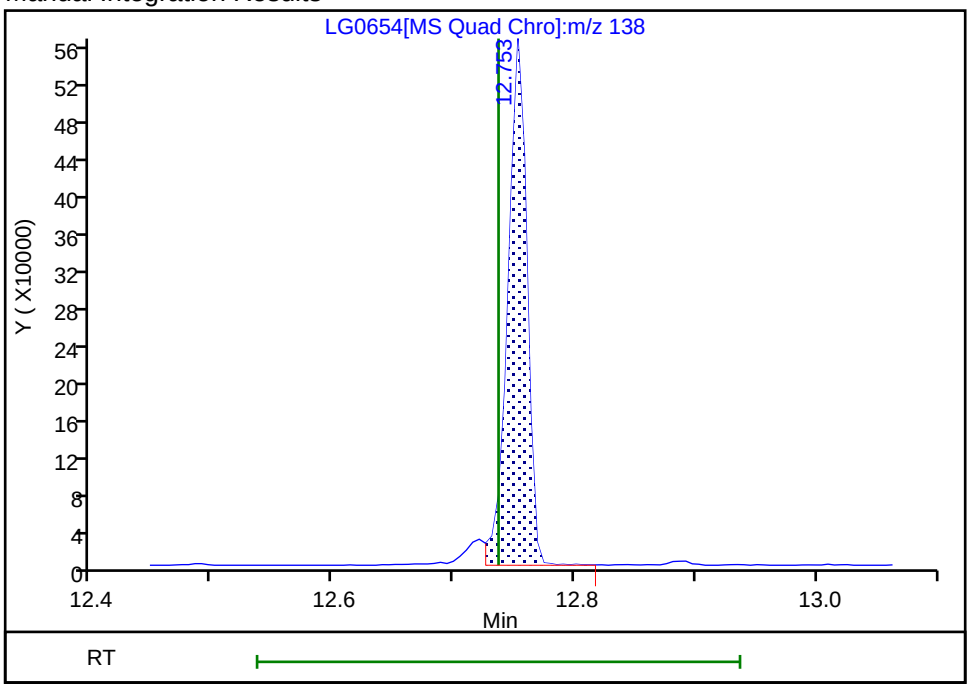
Processing Integration Results

RT: 12.72
Area: 30721
Amount: 1.089294
Amount Units: ug/ml



Manual Integration Results

RT: 12.75
Area: 620236
Amount: 19.450973
Amount Units: ug/ml



Reviewer: transuea, 15-Jul-2020 19:21:31
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

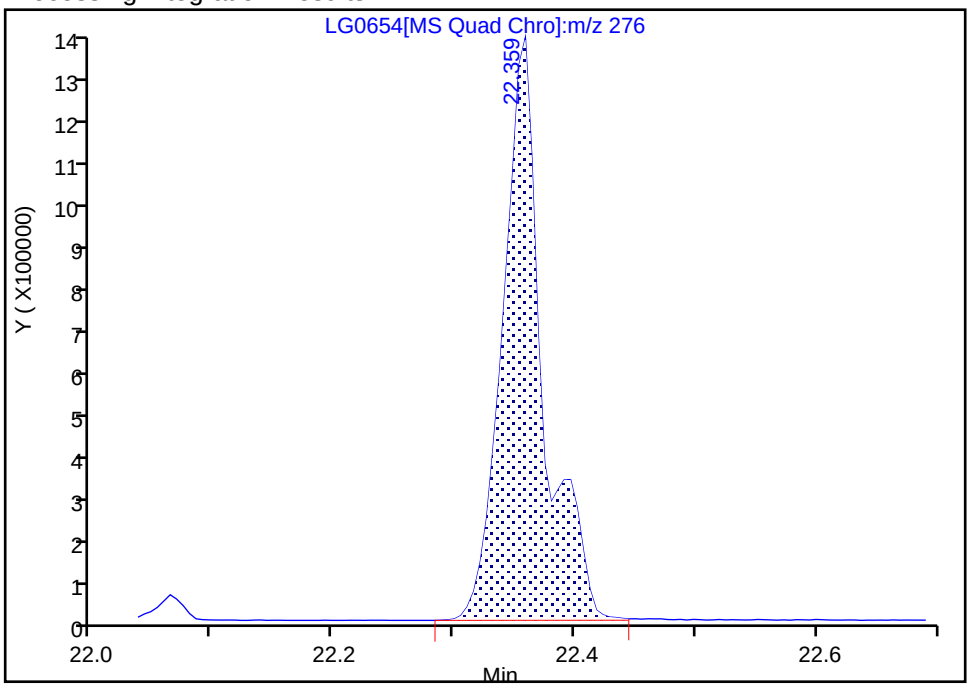
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0654.D				
Injection Date:	15-Jul-2020 14:55:08	Instrument ID:	HP20296		
Lims ID:	IC L7				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

163 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

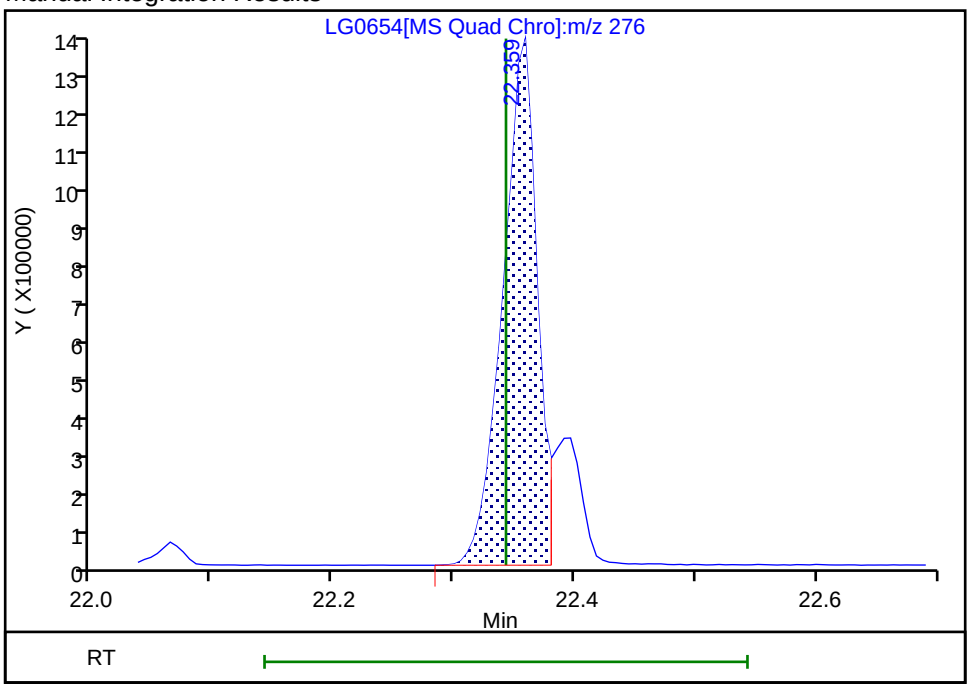
Processing Integration Results

RT: 22.36
Area: 3259763
Amount: 23.384628
Amount Units: ug/ml



Manual Integration Results

RT: 22.36
Area: 2715563
Amount: 20.731897
Amount Units: ug/ml



Reviewer: hartenstinel, 15-Jul-2020 16:05:18
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0655.D
Lims ID: IC L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 15-Jul-2020 15:24:08 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L6
Misc. Info.: 410-0005639-006
Operator ID: lmh00956 Instrument ID: HP20296
Sublist: chrom-MSSemi_HP20296*sub6

Method: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 15-Jul-2020 19:26:07 Calib Date: 15-Jul-2020 16:51:20
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0658.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1062

First Level Reviewer: hartenstinel Date: 15-Jul-2020 16:06:40

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	2.751	2.740	0.011	92	271359	12.5	12.5	
2 N-Nitrosodimethylamine	74	3.259	3.248	0.011	88	463048	12.5	13.7	
3 Pyridine	79	3.296	3.286	0.010	96	832736	12.5	13.9	
5 2-Picoline	93	4.430	4.425	0.005	93	774180	12.5	11.2	
6 N-Nitrosomethylethylamine	88	4.612	4.607	0.005	83	329990	12.5	11.9	
9 Methyl methanesulfonate	80	5.061	5.051	0.010	84	402597	12.5	13.1	
$ 10 2-Fluorophenol	112	5.302	5.291	0.011	93	1328823	25.0	23.8	
11 N-Nitrosodiethylamine	102	5.639	5.628	0.011	91	322312	12.5	12.1	
13 Ethyl methanesulfonate	109	6.083	6.078	0.005	97	361758	12.5	12.2	
15 Benzaldehyde	77	6.564	6.559	0.005	96	706568	12.5	13.2	
$ 16 Phenol-d5	99	6.671	6.661	0.010	98	1835233	25.0	25.5	
17 Phenol	94	6.687	6.677	0.010	97	1020515	12.5	12.6	
18 Aniline	93	6.725	6.719	0.006	97	1245694	12.5	12.6	
19 Bis(2-chloroethyl)ether	93	6.837	6.832	0.005	96	831492	12.5	12.5	
20 2-Chlorophenol	128	6.891	6.885	0.006	96	694499	12.5	12.8	
22 1,3-Dichlorobenzene	146	7.126	7.121	0.005	95	728650	12.5	12.6	
* 24 1,4-Dichlorobenzene-d4	152	7.217	7.212	0.005	97	175826	5.00	5.00	
25 1,4-Dichlorobenzene	146	7.244	7.238	0.006	91	735266	12.5	12.5	
27 Benzyl alcohol	108	7.431	7.420	0.011	90	515557	12.5	12.5	
29 1,2-Dichlorobenzene	146	7.468	7.463	0.005	93	692797	12.5	12.4	
30 Indene	115	7.607	7.602	0.005	87	1058285	12.5	12.5	
31 2-Methylphenol	108	7.607	7.602	0.005	96	677171	12.5	12.4	
32 2,2'-oxybis[1-chloropropane]	45	7.650	7.650	0.000	95	900250	12.5	12.0	
34 N-Nitrosopyrrolidine	100	7.800	7.789	0.011	96	398414	12.5	13.1	
35 Acetophenone	105	7.837	7.832	0.005	90	1179574	12.5	13.2	
36 4-Methylphenol	108	7.848	7.837	0.011	93	743696	12.5	12.9	
37 N-Nitrosodi-n-propylamine	70	7.853	7.848	0.005	76	636432	12.5	12.8	
38 N-Nitrosomorpholine	56	7.869	7.859	0.010	89	433864	12.5	12.8	
39 2-Toluidine	106	7.891	7.885	0.006	95	1223527	12.5	12.6	
40 Hexachloroethane	117	7.993	7.987	0.005	95	338115	12.5	12.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	8.067	8.062	0.005	86	1876351	25.0	25.0	
42 Nitrobenzene	77	8.094	8.089	0.005	84	940453	12.5	12.3	
44 N-Nitrosopiperidine	114	8.329	8.324	0.005	89	377778	12.5	12.9	
46 Isophorone	82	8.479	8.474	0.005	98	1686331	12.5	12.5	
47 2-Nitrophenol	139	8.592	8.592	0.000	97	355127	12.5	12.9	
48 2,4-Dimethylphenol	107	8.682	8.677	0.005	98	800324	12.5	12.7	
49 o,o',o''-Triethylphosphorothioat	198	8.811	8.805	0.006	91	283330	12.5	12.8	
50 Benzoic acid	105	8.827	8.816	0.011	88	551094	12.5	13.2	M
51 Bis(2-chloroethoxy)methane	93	8.843	8.843	0.000	98	1087362	12.5	12.6	
S 53 Dinitrotoluene	165				0		25.0	25.1	
52 2,4-Dichlorophenol	162	8.971	8.971	0.000	96	547777	12.5	12.9	
54 1,2,4-Trichlorobenzene	180	9.110	9.110	0.000	93	546907	12.5	12.5	
* 55 Naphthalene-d8	136	9.196	9.196	0.000	100	741357	5.00	5.00	
56 Naphthalene	128	9.233	9.228	0.005	98	2068897	12.5	12.3	
57 4-Chloroaniline	127	9.330	9.324	0.006	95	841319	12.5	12.6	
58 2,6-Dichlorophenol	162	9.340	9.335	0.005	94	534723	12.5	13.0	
59 Hexachloropropene	213	9.383	9.383	0.000	93	331832	12.5	12.6	
60 Hexachlorobutadiene	225	9.453	9.447	0.006	95	293706	12.5	12.8	
S 63 Diallate	86				0		12.5	12.3	
62 Quinoline	129	9.768	9.763	0.005	95	1286154	12.5	12.4	
64 Caprolactam	113	9.881	9.859	0.022	80	210320	12.5	12.8	
65 N-Nitrosodi-n-butylamine	84	9.902	9.902	0.000	88	778629	12.5	14.5	
66 4-Chloro-3-methylphenol	107	10.132	10.127	0.005	93	688728	12.5	12.5	
67 Safrole, Total	162	10.239	10.234	0.005	84	484562	12.5	12.9	
69 2-Methylnaphthalene	142	10.357	10.357	0.000	91	1334647	12.5	12.6	
70 1-Methylnaphthalene	142	10.517	10.517	0.000	92	1272328	12.5	12.6	
71 Hexachlorocyclopentadiene	237	10.624	10.624	0.000	96	317499	12.5	12.4	
72 1,2,4,5-Tetrachlorobenzene	216	10.629	10.629	0.000	97	483084	12.5	12.2	
73 Isosafrole Peak 1	162	10.715	10.715	0.000	85	88771	2.00	1.97	
74 2,4,6-Trichlorophenol	196	10.822	10.822	0.000	93	359178	12.5	12.7	
75 2,4,5-Trichlorophenol	196	10.875	10.870	0.005	89	376075	12.5	12.5	
$ 76 2-Fluorobiphenyl (Surr)	172	10.977	10.977	0.000	99	2686936	25.0	24.5	
77 Isosafrole Peak 2	162	11.084	11.084	0.000	87	495705	10.5	10.4	
79 1,1'-Biphenyl	154	11.132	11.132	0.000	96	1614546	12.5	12.7	
80 2-Chloronaphthalene	162	11.148	11.148	0.000	99	1196604	12.5	12.0	
81 1-Chloronaphthalene	162	11.186	11.180	0.006	96	1107260	12.5	12.5	
82 Phenyl ether	170	11.314	11.314	0.000	87	782880	12.5	12.4	
83 2-Nitroaniline	138	11.325	11.319	0.006	77	421502	12.5	12.3	
84 1,4-Naphthoquinone	158	11.442	11.437	0.005	80	516187	12.5	12.6	
85 1,4-Dinitrobenzene	168	11.555	11.549	0.006	84	187342	12.5	12.4	
86 Dimethyl phthalate	163	11.646	11.640	0.006	96	1316180	12.5	11.9	
87 1,3-Dinitrobenzene	168	11.662	11.656	0.006	83	210739	12.5	12.3	
88 2,6-Dinitrotoluene	165	11.715	11.715	0.000	90	306276	12.5	12.6	
90 Acenaphthylene	152	11.795	11.795	0.000	99	1779855	12.5	12.4	
91 3-Nitroaniline	138	11.945	11.940	0.005	91	357232	12.5	12.5	
* 92 Acenaphthene-d10	164	11.999	11.999	0.000	96	350264	5.00	5.00	
93 Acenaphthene	153	12.047	12.041	0.006	98	1286194	12.5	12.1	
94 2,4-Dinitrophenol	184	12.095	12.090	0.005	78	165309	12.5	12.6	
96 4-Nitrophenol	109	12.186	12.180	0.006	91	253994	12.5	12.1	
98 Pentachlorobenzene	250	12.223	12.223	0.000	96	414297	12.5	12.1	
99 2,4-Dinitrotoluene	165	12.277	12.271	0.006	84	416394	12.5	12.5	
100 Dibenzofuran	168	12.282	12.277	0.005	96	1634200	12.5	12.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 1-Naphthylamine	143	12.378	12.378	0.000	98	1321443	12.5	12.3	
102 2,3,4,6-Tetrachlorophenol	232	12.437	12.437	0.000	83	265006	12.5	12.3	
103 2-Naphthylamine	143	12.480	12.480	0.000	95	1347425	12.5	12.5	
104 Diethyl phthalate	149	12.614	12.608	0.006	97	1429396	12.5	12.3	
106 Thionazin	107	12.710	12.705	0.005	77	284414	12.5	12.2	
105 Fluorene	166	12.715	12.715	0.000	94	1324233	12.5	11.9	
107 N-Nitro-o-toluidine	152	12.737	12.731	0.006	78	401693	12.5	12.5	
108 4-Chlorophenyl phenyl ether	204	12.731	12.737	-0.006	82	550453	12.5	12.1	
109 4-Nitroaniline	138	12.742	12.737	0.005	81	375176	12.5	12.0	
110 4,6-Dinitro-2-methylphenol	198	12.785	12.785	0.000	70	202226	12.5	12.6	
111 N-Nitrosodiphenylamine	169	12.881	12.881	0.000	65	1085698	12.5	12.1	
112 1,2-Diphenylhydrazine	77	12.935	12.929	0.006	42	1920240	12.5	12.4	
$ 113 2,4,6-Tribromophenol	330	13.020	13.020	0.000	89	352754	25.0	25.3	
114 Sulfotepp	97	13.111	13.111	0.000	78	321362	12.5	12.5	
115 cis-Diallate	86	13.266	13.266	0.000	97	566024	9.25	9.03	
116 Phorate	75	13.272	13.272	0.000	95	1232164	12.5	12.7	
117 Phenacetin	108	13.288	13.282	0.006	87	922940	12.5	12.9	
118 4-Bromophenyl phenyl ether	248	13.357	13.357	0.000	74	291586	12.5	11.6	
119 trans-Diallate	86	13.379	13.379	0.000	96	211344	3.25	3.30	
120 Hexachlorobenzene	284	13.421	13.416	0.005	91	346112	12.5	12.6	
121 Dimethoate	87	13.480	13.480	0.000	97	818558	12.5	12.8	
122 Atrazine	200	13.582	13.582	0.000	86	340754	12.5	12.7	
123 Pentachlorophenol	266	13.678	13.678	0.000	87	235890	12.5	13.1	
124 4-Aminobiphenyl	169	13.689	13.689	0.000	91	1079455	12.5	12.7	
125 Pentachloronitrobenzene	237	13.700	13.699	0.001	82	163002	12.5	12.7	
126 Pronamide	173	13.785	13.785	0.000	90	667520	12.5	12.9	
* 127 Phenanthrene-d10	188	13.935	13.935	0.000	96	644511	5.00	5.00	
128 Dinoseb	211	13.940	13.940	0.000	89	298173	12.5	12.7	
129 Phenanthrene	178	13.967	13.967	0.000	99	1968020	12.5	12.6	
130 Anthracene	178	14.036	14.036	0.000	99	1999127	12.5	12.6	
131 Carbazole	167	14.256	14.256	0.000	96	1895833	12.5	12.7	
132 Methyl parathion	109	14.464	14.459	0.005	88	660773	12.5	13.1	
133 Di-n-butyl phthalate	149	14.775	14.775	0.000	100	2668706	12.5	12.5	
134 Ethyl Parathion	109	15.031	15.031	0.000	82	406425	12.5	13.2	
135 4-Nitroquinoline-1-oxide	190	15.053	15.053	0.000	90	246613	12.5	13.1	
136 Octachlorostyrene	308	15.406	15.406	0.000	92	158376	12.5	12.3	
137 Isodrin	193	15.465	15.465	0.001	86	228562	12.5	12.1	
138 Fluoranthene	202	15.695	15.694	0.001	99	2065223	12.5	12.8	
139 Benzidine	184	15.925	15.919	0.006	99	4486151	37.5	39.2	
* 140 Pyrene-d10 (IS)	212	16.021	16.021	0.000	97	606366	5.00	5.00	
141 Pyrene	202	16.053	16.053	0.000	95	2109273	12.5	12.5	
$ 142 p-Terphenyl-d14	244	16.331	16.331	0.000	97	2792843	25.0	25.5	
143 p-Dimethylamino azobenzene	225	16.566	16.566	0.000	90	344769	12.5	13.3	
144 Chlorobenzilate	139	16.657	16.657	0.000	80	827786	12.5	12.9	
145 3,3'-Dimethylbenzidine	212	17.144	17.144	0.000	98	1443237	12.5	13.4	
146 Butyl benzyl phthalate	149	17.198	17.197	0.001	94	1216038	12.5	13.2	
147 2-Acetylaminofluorene	181	17.583	17.577	0.006	93	939422	12.5	13.4	
148 3,3'-Dichlorobenzidine	252	18.101	18.101	0.000	77	732366	12.5	13.3	
150 4,4'-Methylene bis(2-chloroanil	231	18.117	18.117	0.000	92	377093	12.5	13.1	
149 Benzo[a]anthracene	228	18.123	18.123	0.000	98	1838626	12.5	13.1	
151 Chrysene	228	18.187	18.187	0.000	96	1805825	12.5	12.8	
152 Bis(2-ethylhexyl) phthalate	149	18.278	18.283	-0.005	97	1795922	12.5	13.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
153 6-Methylchrysene	242	19.005	19.005	0.000	99	1273967	12.5	13.1	
154 Di-n-octyl phthalate	149	19.460	19.465	-0.005	99	3166207	12.5	13.0	
155 Benzo[b]fluoranthene	252	20.022	20.016	0.006	97	1855115	12.5	12.5	
156 7,12-Dimethylbenz(a)anthracene	256	20.022	20.016	0.006	87	816467	12.5	13.1	
157 Benzo[k]fluoranthene	252	20.070	20.070	0.000	97	1812579	12.5	12.7	
158 Benzo[a]pyrene	252	20.556	20.556	0.000	82	1756860	12.5	12.7	
* 159 Perylene-d12	264	20.642	20.647	-0.005	95	579106	5.00	5.00	
160 3-Methylcholanthrene	268	21.129	21.134	-0.005	94	896946	12.5	13.1	
161 Dibenz[a,h]acridine	279	21.974	21.974	0.000	92	1350247	12.5	12.7	
162 Dibenz[a,j]acridine	279	22.059	22.054	0.005	95	1373915	12.5	12.6	
163 Indeno[1,2,3-cd]pyrene	276	22.348	22.343	0.005	96	1619765	12.5	12.6	M
164 Dibenz(a,h)anthracene	278	22.386	22.386	0.000	96	1675474	12.5	13.0	
165 Benzo[g,h,i]perylene	276	22.798	22.792	0.006	93	1635041	12.5	12.5	
S 166 Isosafrole	162				0		12.5	12.4	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_6_00006 Amount Added: 1.00 Units: mL

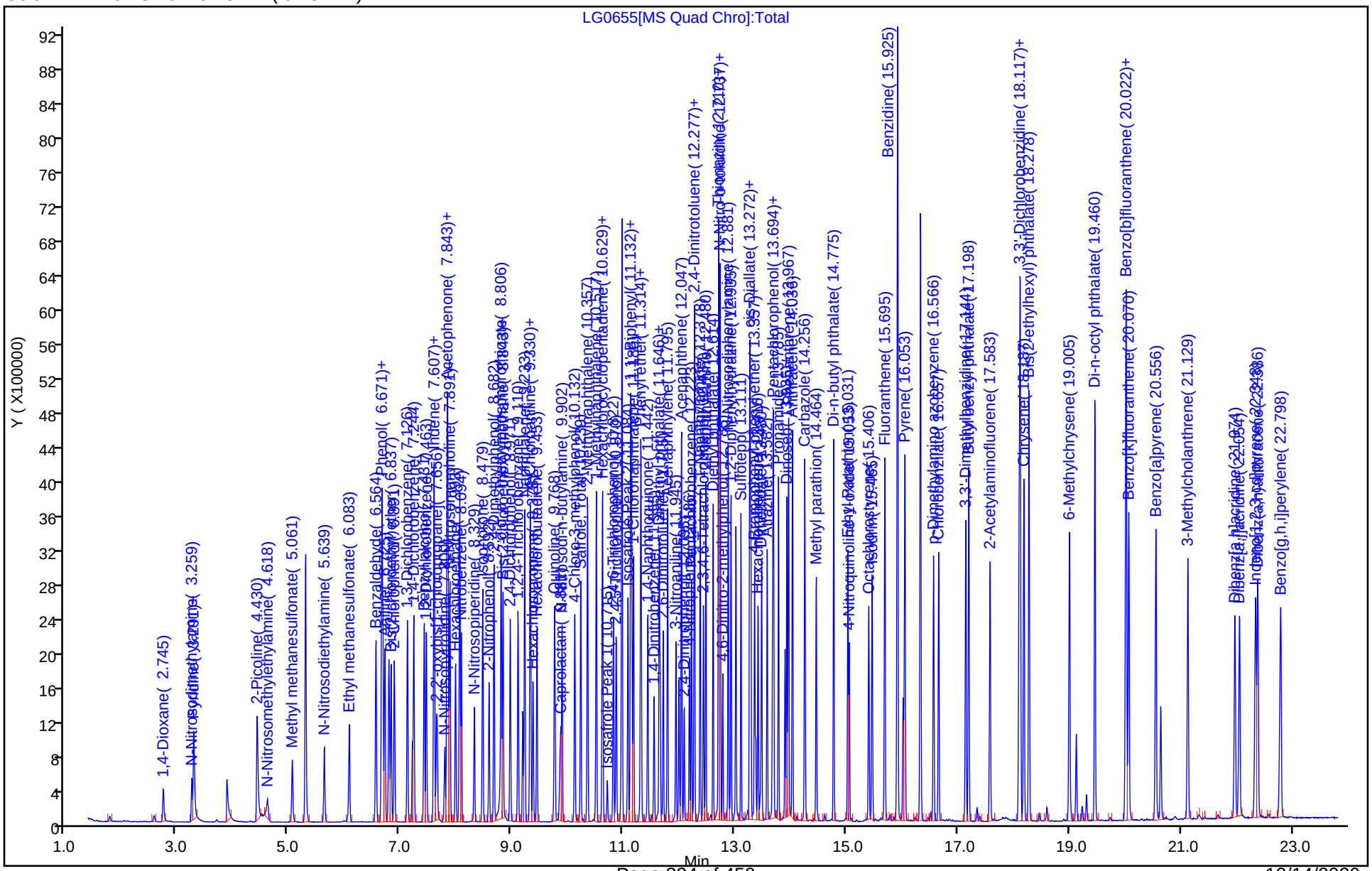
Report Date: 15-Jul-2020 19:26:11 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0655.D

Injection Date:	15-Jul-2020 15:24:08	Instrument ID:	HP20296	Operator ID:	lmh00956
Lims ID:	IC L6			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

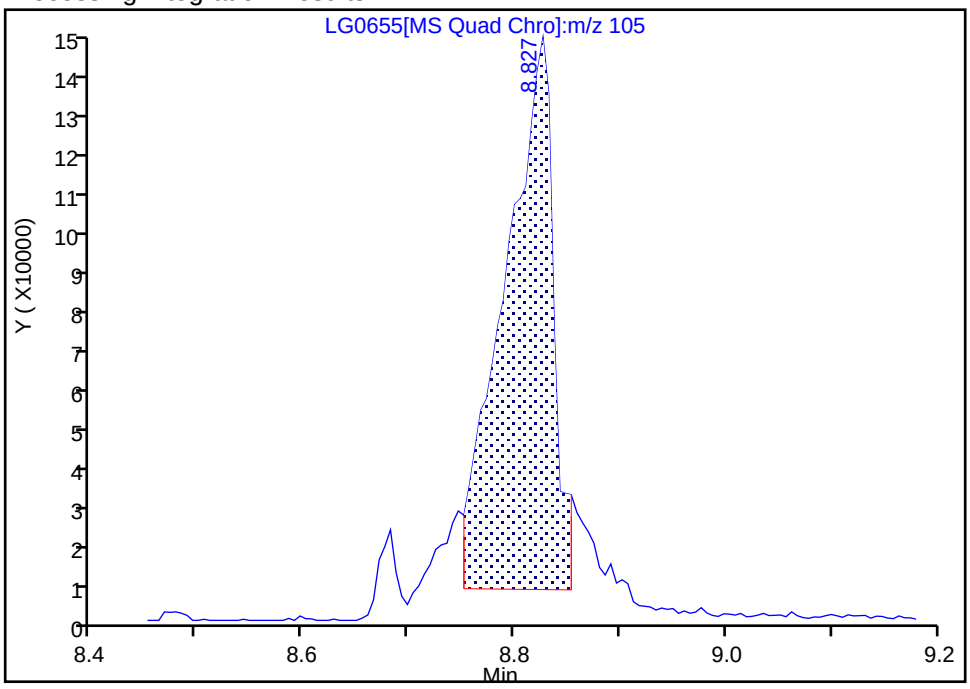
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0655.D				
Injection Date:	15-Jul-2020 15:24:08	Instrument ID:	HP20296		
Lims ID:	IC L6				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

50 Benzoic acid, CAS: 65-85-0

Signal: 1

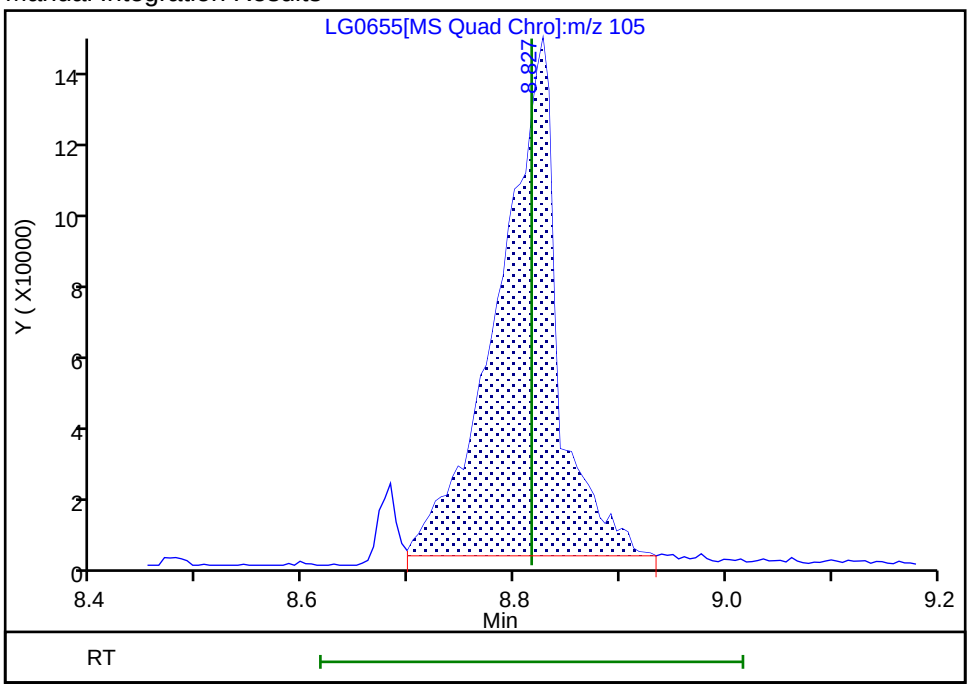
Processing Integration Results

RT: 8.83
Area: 429249
Amount: 11.021224
Amount Units: ug/ml



Manual Integration Results

RT: 8.83
Area: 551094
Amount: 13.150473
Amount Units: ug/ml



Reviewer: transuea, 15-Jul-2020 18:32:53
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

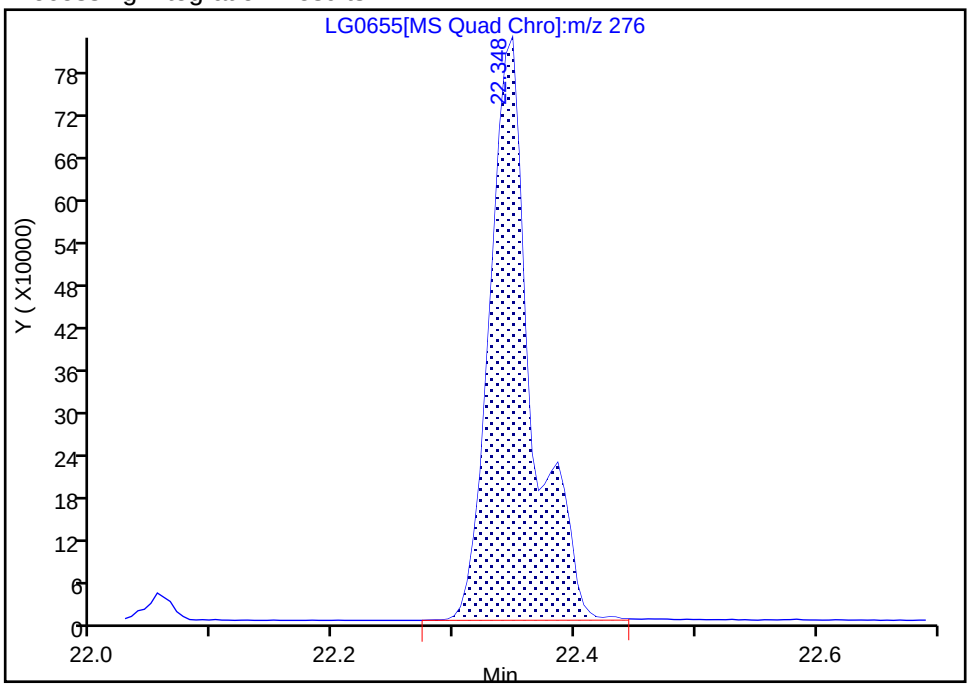
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0655.D				
Injection Date:	15-Jul-2020 15:24:08	Instrument ID:	HP20296		
Lims ID:	IC L6				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

163 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

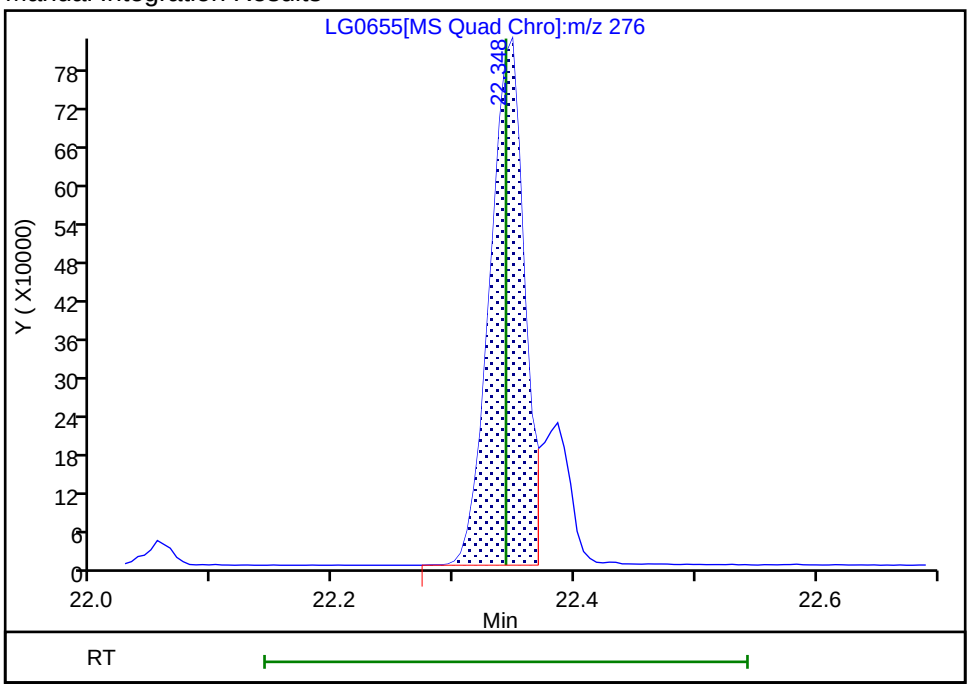
Processing Integration Results

RT: 22.35
Area: 1985110
Amount: 14.866481
Amount Units: ug/ml



Manual Integration Results

RT: 22.35
Area: 1619765
Amount: 12.594539
Amount Units: ug/ml



Reviewer: hartenstinel, 15-Jul-2020 16:06:30

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0656.D
Lims ID: IC L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 15-Jul-2020 15:53:17 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L4
Misc. Info.: 410-0005639-007
Operator ID: lmh00956 Instrument ID: HP20296
Sublist: chrom-MSSemi_HP20296*sub6

Method: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 15-Jul-2020 19:26:17 Calib Date: 15-Jul-2020 16:51:20
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0658.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1062

First Level Reviewer: transuea Date: 15-Jul-2020 18:39:01

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	2.745	2.740	0.005	89	66346	3.75	2.93	
2 N-Nitrosodimethylamine	74	3.259	3.248	0.011	86	109775	3.75	3.13	
3 Pyridine	79	3.296	3.286	0.010	95	190665	3.75	3.07	
5 2-Picoline	93	4.430	4.425	0.005	93	267107	3.75	3.72	
6 N-Nitrosomethylethylamine	88	4.607	4.607	0.000	88	104350	3.75	3.62	
9 Methyl methanesulfonate	80	5.056	5.051	0.005	84	117524	3.75	3.68	
$ 10 2-Fluorophenol	112	5.291	5.291	0.000	94	410102	7.50	7.06	
11 N-Nitrosodiethylamine	102	5.634	5.628	0.006	94	99501	3.75	3.58	
13 Ethyl methanesulfonate	109	6.078	6.078	0.000	97	110196	3.75	3.57	
15 Benzaldehyde	77	6.559	6.559	0.000	96	204433	3.75	3.68	
$ 16 Phenol-d5	99	6.661	6.661	0.000	98	535644	7.50	7.16	
17 Phenol	94	6.677	6.677	0.000	98	293684	3.75	3.48	
18 Aniline	93	6.719	6.719	0.000	99	374869	3.75	3.64	
19 Bis(2-chloroethyl)ether	93	6.832	6.832	0.000	96	247777	3.75	3.57	
20 2-Chlorophenol	128	6.891	6.885	0.005	97	205555	3.75	3.65	
22 1,3-Dichlorobenzene	146	7.126	7.121	0.005	94	216065	3.75	3.58	
* 24 1,4-Dichlorobenzene-d4	152	7.217	7.212	0.005	96	182901	5.00	5.00	
25 1,4-Dichlorobenzene	146	7.238	7.238	0.000	91	218396	3.75	3.57	
27 Benzyl alcohol	108	7.420	7.420	0.000	92	150788	3.75	3.51	
29 1,2-Dichlorobenzene	146	7.463	7.463	0.000	94	207472	3.75	3.58	
30 Indene	115	7.602	7.602	0.000	88	304767	3.75	3.46	
31 2-Methylphenol	108	7.597	7.602	-0.005	94	207445	3.75	3.64	
32 2,2'-oxybis[1-chloropropane]	45	7.650	7.650	0.000	94	275725	3.75	3.52	
34 N-Nitrosopyrrolidine	100	7.784	7.789	-0.005	95	117488	3.75	3.71	
35 Acetophenone	105	7.832	7.832	0.000	90	338219	3.75	3.65	
36 4-Methylphenol	108	7.837	7.837	0.000	93	217517	3.75	3.62	
37 N-Nitrosodi-n-propylamine	70	7.843	7.848	-0.005	78	188818	3.75	3.65	
38 N-Nitrosomorpholine	56	7.859	7.859	0.000	90	131772	3.75	3.75	
39 2-Toluidine	106	7.885	7.885	0.000	95	361403	3.75	3.58	
40 Hexachloroethane	117	7.987	7.987	0.000	94	100209	3.75	3.61	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	8.057	8.062	-0.006	87	533744	7.50	7.17	
42 Nitrobenzene	77	8.089	8.089	0.000	84	276032	3.75	3.65	
44 N-Nitrosopiperidine	114	8.324	8.324	0.000	89	105915	3.75	3.65	
46 Isophorone	82	8.474	8.474	0.000	98	490757	3.75	3.67	
47 2-Nitrophenol	139	8.591	8.592	-0.001	96	98464	3.75	3.62	
48 2,4-Dimethylphenol	107	8.677	8.677	0.000	97	234498	3.75	3.75	
49 o,o',o''-Triethylphosphorothioat	198	8.805	8.805	0.000	93	78962	3.75	3.60	
50 Benzoic acid	105	8.795	8.816	-0.021	88	288279	7.50	6.93	M
51 Bis(2-chloroethoxy)methane	93	8.843	8.843	0.000	97	314104	3.75	3.67	
S 53 Dinitrotoluene	165				0		7.50	7.47	
52 2,4-Dichlorophenol	162	8.971	8.971	0.000	96	158525	3.75	3.76	
54 1,2,4-Trichlorobenzene	180	9.110	9.110	0.000	93	159360	3.75	3.66	
* 55 Naphthalene-d8	136	9.196	9.196	0.000	100	735568	5.00	5.00	
56 Naphthalene	128	9.228	9.228	0.000	98	602777	3.75	3.62	
57 4-Chloroaniline	127	9.324	9.324	0.000	95	241886	3.75	3.64	
58 2,6-Dichlorophenol	162	9.335	9.335	0.000	94	152396	3.75	3.73	
59 Hexachloropropene	213	9.378	9.383	-0.005	94	93626	3.75	3.59	
60 Hexachlorobutadiene	225	9.453	9.447	0.005	95	82935	3.75	3.63	
S 63 Diallate	86				0		3.75	3.70	
62 Quinoline	129	9.763	9.763	0.000	96	378939	3.75	3.70	
64 Caprolactam	113	9.838	9.859	-0.021	84	59490	3.75	3.65	
65 N-Nitrosodi-n-butylamine	84	9.896	9.902	-0.006	91	169488	3.75	3.18	
66 4-Chloro-3-methylphenol	107	10.121	10.127	-0.006	94	203795	3.75	3.73	
67 Safrole, Total	162	10.233	10.234	-0.001	84	134266	3.75	3.60	
69 2-Methylnaphthalene	142	10.356	10.357	-0.001	92	393299	3.75	3.73	
70 1-Methylnaphthalene	142	10.512	10.517	-0.005	92	365995	3.75	3.66	
71 Hexachlorocyclopentadiene	237	10.624	10.624	0.000	96	91620	3.75	3.66	
72 1,2,4,5-Tetrachlorobenzene	216	10.629	10.629	0.000	95	141279	3.75	3.66	
73 Isosafrole Peak 1	162	10.715	10.715	0.000	86	24652	0.6000	0.5622	
74 2,4,6-Trichlorophenol	196	10.816	10.822	-0.006	92	98540	3.75	3.56	
75 2,4,5-Trichlorophenol	196	10.865	10.870	-0.005	91	109872	3.75	3.75	
$ 76 2-Fluorobiphenyl (Surr)	172	10.972	10.977	-0.005	99	794751	7.50	7.43	
77 Isosafrole Peak 2	162	11.078	11.084	-0.006	88	143500	3.15	3.10	
79 1,1'-Biphenyl	154	11.132	11.132	0.000	96	461803	3.75	3.74	
80 2-Chloronaphthalene	162	11.148	11.148	0.000	99	361107	3.75	3.71	
81 1-Chloronaphthalene	162	11.180	11.180	0.000	95	313575	3.75	3.62	
82 Phenyl ether	170	11.308	11.314	-0.006	88	228840	3.75	3.72	
83 2-Nitroaniline	138	11.314	11.319	-0.005	76	121908	3.75	3.66	
84 1,4-Naphthoquinone	158	11.437	11.437	0.000	83	149849	3.75	3.77	
85 1,4-Dinitrobenzene	168	11.549	11.549	0.000	84	53742	3.75	3.65	
86 Dimethyl phthalate	163	11.640	11.640	0.000	96	407006	3.75	3.78	
87 1,3-Dinitrobenzene	168	11.656	11.656	0.000	83	61637	3.75	3.70	
88 2,6-Dinitrotoluene	165	11.710	11.715	-0.005	89	90733	3.75	3.83	
90 Acenaphthylene	152	11.790	11.795	-0.005	99	515254	3.75	3.69	
91 3-Nitroaniline	138	11.940	11.940	0.000	93	104479	3.75	3.75	
* 92 Acenaphthene-d10	164	11.998	11.999	-0.001	97	341146	5.00	5.00	
93 Acenaphthene	153	12.041	12.041	0.000	98	377030	3.75	3.65	
94 2,4-Dinitrophenol	184	12.089	12.090	-0.001	76	85817	7.50	6.73	
96 4-Nitrophenol	109	12.175	12.180	-0.005	92	68935	3.75	3.38	
98 Pentachlorobenzene	250	12.223	12.223	0.000	96	126721	3.75	3.81	
99 2,4-Dinitrotoluene	165	12.266	12.271	-0.005	86	118120	3.75	3.63	
100 Dibenzofuran	168	12.277	12.277	0.000	95	474710	3.75	3.65	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 1-Naphthylamine	143	12.373	12.378	-0.005	98	379219	3.75	3.62	
102 2,3,4,6-Tetrachlorophenol	232	12.437	12.437	0.000	80	75959	3.75	3.62	
103 2-Naphthylamine	143	12.474	12.480	-0.006	95	385585	3.75	3.68	
104 Diethyl phthalate	149	12.603	12.608	-0.005	97	409349	3.75	3.60	
106 Thionazin	107	12.699	12.705	-0.006	75	87623	3.75	3.85	
105 Fluorene	166	12.710	12.715	-0.005	91	387980	3.75	3.59	
107 N-Nitro-o-toluidine	152	12.726	12.731	-0.005	84	114043	3.75	3.63	
108 4-Chlorophenyl phenyl ether	204	12.731	12.737	-0.006	90	163422	3.75	3.68	
109 4-Nitroaniline	138	12.731	12.737	-0.006	80	114837	3.75	3.76	
110 4,6-Dinitro-2-methylphenol	198	12.779	12.785	-0.006	76	54870	3.75	3.52	
111 N-Nitrosodiphenylamine	169	12.881	12.881	0.000	66	328240	3.75	3.76	
112 1,2-Diphenylhydrazine	77	12.929	12.929	0.000	42	559570	3.75	3.73	
$ 113 2,4,6-Tribromophenol	330	13.020	13.020	0.000	91	94761	7.50	6.99	
114 Sulfotepp	97	13.111	13.111	0.000	78	96581	3.75	3.87	
115 cis-Diallate	86	13.261	13.266	-0.005	86	168735	2.78	2.77	
116 Phorate	75	13.271	13.272	-0.001	95	351823	3.75	3.73	
117 Phenacetin	108	13.277	13.282	-0.005	87	261088	3.75	3.76	
118 4-Bromophenyl phenyl ether	248	13.357	13.357	0.000	75	89322	3.75	3.66	
119 trans-Diallate	86	13.373	13.379	-0.006	93	58029	0.9750	0.9320	
120 Hexachlorobenzene	284	13.416	13.416	0.000	90	101397	3.75	3.81	
121 Dimethoate	87	13.475	13.480	-0.005	97	229019	3.75	3.68	
122 Atrazine	200	13.576	13.582	-0.006	85	103133	3.75	3.95	
123 Pentachlorophenol	266	13.678	13.678	0.000	87	63253	3.75	3.61	
124 4-Aminobiphenyl	169	13.689	13.689	0.000	92	305675	3.75	3.70	
125 Pentachloronitrobenzene	237	13.694	13.699	-0.005	83	47017	3.75	3.77	
126 Pronamide	173	13.780	13.785	-0.005	90	188981	3.75	3.74	
* 127 Phenanthrene-d10	188	13.929	13.935	-0.006	96	627097	5.00	5.00	
128 Dinoseb	211	13.935	13.940	-0.005	89	78577	3.75	3.44	
129 Phenanthrene	178	13.961	13.967	-0.006	99	553314	3.75	3.63	
130 Anthracene	178	14.031	14.036	-0.005	99	573815	3.75	3.71	
131 Carbazole	167	14.250	14.256	-0.006	96	535303	3.75	3.69	
132 Methyl parathion	109	14.459	14.459	0.000	89	178175	3.75	3.62	
133 Di-n-butyl phthalate	149	14.774	14.775	-0.001	100	766703	3.75	3.70	
134 Ethyl Parathion	109	15.026	15.031	-0.005	82	108476	3.75	3.62	
135 4-Nitroquinoline-1-oxide	190	15.047	15.053	-0.006	86	60063	3.75	3.27	
136 Octachlorostyrene	308	15.406	15.406	0.000	92	46022	3.75	3.68	
137 Isodrin	193	15.464	15.465	0.000	86	64961	3.75	3.55	
138 Fluoranthene	202	15.689	15.694	-0.005	99	584063	3.75	3.72	
139 Benzidine	184	15.914	15.919	-0.005	99	1275964	11.3	11.0	
* 140 Pyrene-d10 (IS)	212	16.015	16.021	-0.006	98	614648	5.00	5.00	
141 Pyrene	202	16.047	16.053	-0.006	95	616057	3.75	3.61	
$ 142 p-Terphenyl-d14	244	16.326	16.331	-0.005	97	820601	7.50	7.38	
143 p-Dimethylamino azobenzene	225	16.566	16.566	0.000	89	93541	3.75	3.56	
144 Chlorobenzilate	139	16.657	16.657	0.000	80	237166	3.75	3.64	
145 3,3'-Dimethylbenzidine	212	17.139	17.144	-0.006	98	398000	3.75	3.64	
146 Butyl benzyl phthalate	149	17.197	17.197	0.000	93	348886	3.75	3.75	
147 2-Acetylaminofluorene	181	17.572	17.577	-0.005	93	247519	3.75	3.48	
148 3,3'-Dichlorobenzidine	252	18.096	18.101	-0.005	77	205959	3.75	3.68	
150 4,4'-Methylene bis(2-chloroanil	231	18.112	18.117	-0.005	92	105076	3.75	3.59	
149 Benzo[a]anthracene	228	18.117	18.123	-0.006	98	528962	3.75	3.72	
151 Chrysene	228	18.181	18.187	-0.006	96	537914	3.75	3.78	
152 Bis(2-ethylhexyl) phthalate	149	18.278	18.283	-0.005	97	510465	3.75	3.65	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
153 6-Methylchrysene	242	19.000	19.005	-0.005	96	359739	3.75	3.64	
154 Di-n-octyl phthalate	149	19.460	19.465	-0.005	99	870053	3.75	3.52	
155 Benzo[b]fluoranthene	252	20.011	20.016	-0.005	95	545993	3.75	3.64	
156 7,12-Dimethylbenz(a)anthracene	256	20.011	20.016	-0.005	76	229435	3.75	3.63	
157 Benzo[k]fluoranthene	252	20.059	20.070	-0.011	97	546740	3.75	3.79	
158 Benzo[a]pyrene	252	20.546	20.556	-0.010	82	510456	3.75	3.64	
* 159 Perylene-d12	264	20.642	20.647	-0.005	95	587503	5.00	5.00	
160 3-Methylcholanthrene	268	21.123	21.134	-0.011	95	251819	3.75	3.64	
161 Dibenz[a,h]acridine	279	21.968	21.974	-0.006	92	390814	3.75	3.61	
162 Dibenz[a,j]acridine	279	22.043	22.054	-0.011	95	404988	3.75	3.67	
163 Indeno[1,2,3-cd]pyrene	276	22.332	22.343	-0.011	96	487033	3.75	3.73	M
164 Dibenz(a,h)anthracene	278	22.369	22.386	-0.017	94	493007	3.75	3.77	
165 Benzo[g,h,i]perylene	276	22.776	22.792	-0.016	93	489056	3.75	3.69	
S 166 Isosafrole	162				0		3.75	3.66	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_4_00006 Amount Added: 1.00 Units: mL

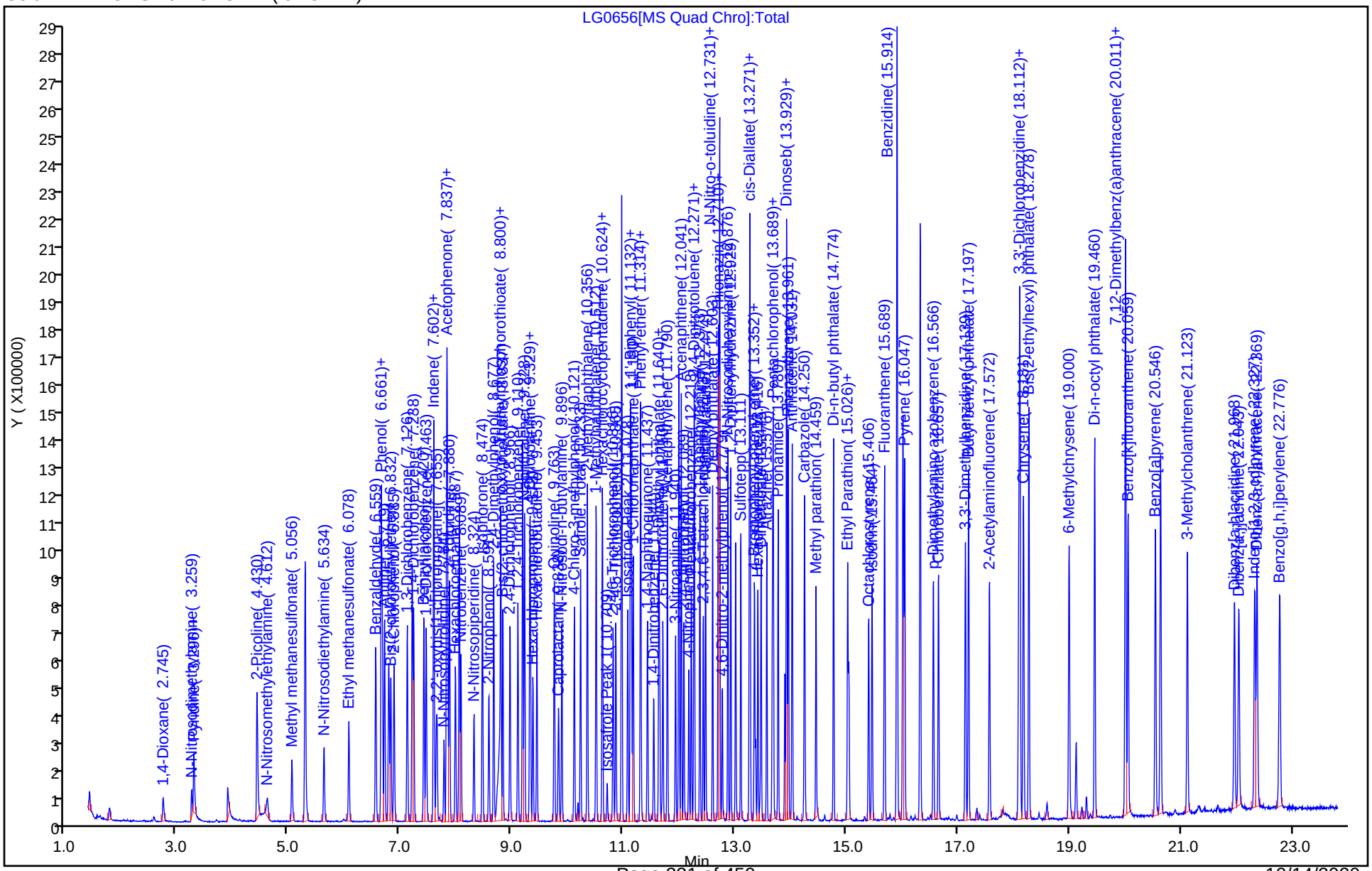
Report Date: 15-Jul-2020 19:26:21 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0656.D

Injection Date:	15-Jul-2020 15:53:17	Instrument ID:	HP20296	Operator ID:	lmh00956
Lims ID:	IC L4			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

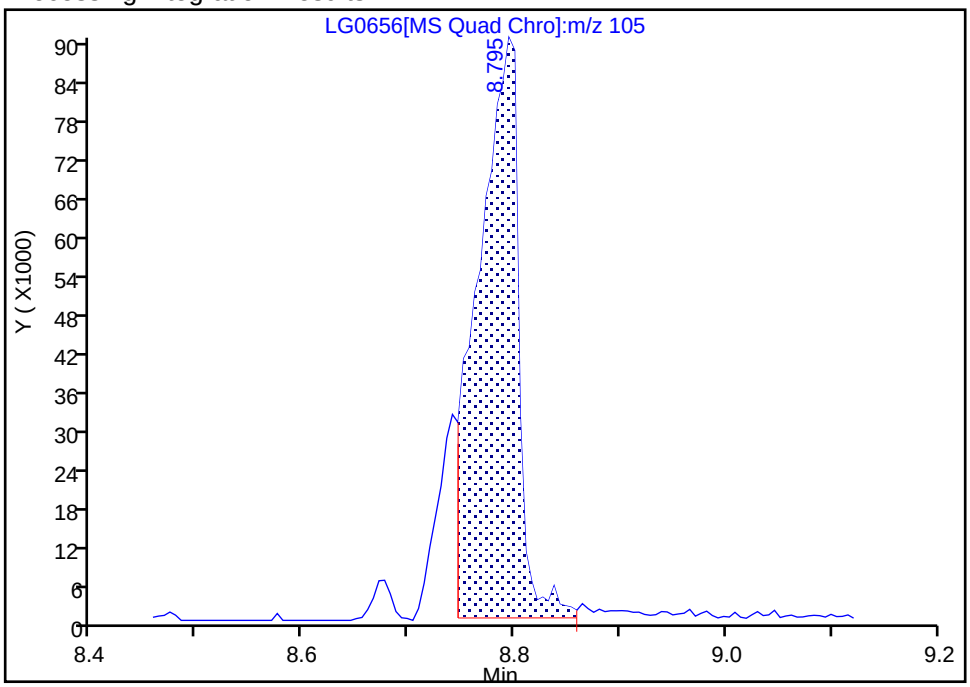
Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0656.D
Injection Date: 15-Jul-2020 15:53:17 Instrument ID: HP20296
Lims ID: IC L4
Client ID:
Operator ID: lmh00956 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

50 Benzoic acid, CAS: 65-85-0

Signal: 1

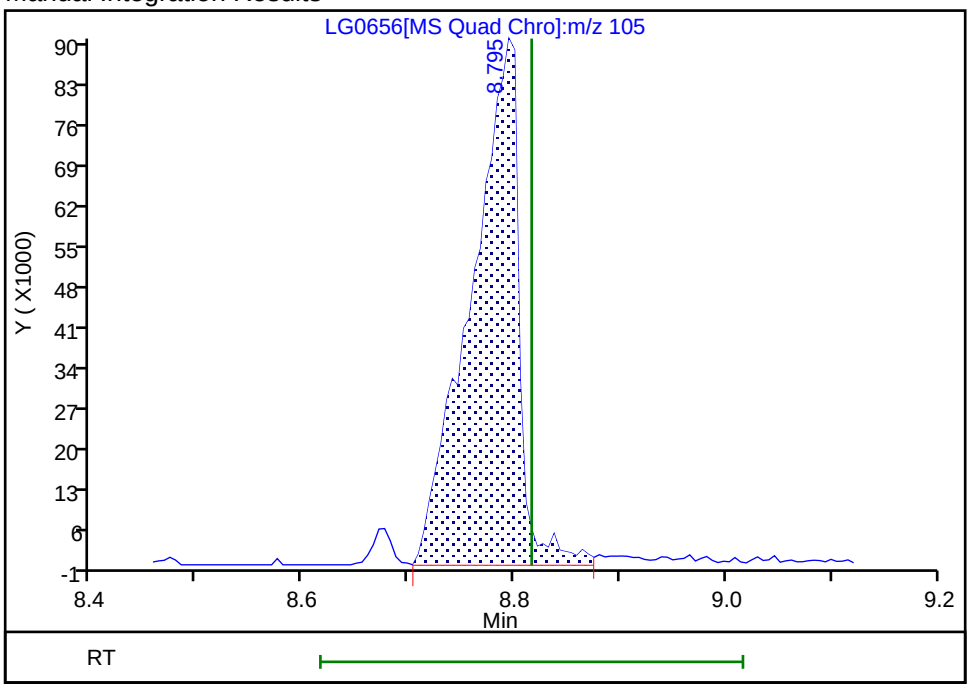
Processing Integration Results

RT: 8.79
Area: 240540
Amount: 5.975366
Amount Units: ug/ml



Manual Integration Results

RT: 8.79
Area: 288279
Amount: 6.933192
Amount Units: ug/ml



Reviewer: transuea, 15-Jul-2020 18:36:45
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

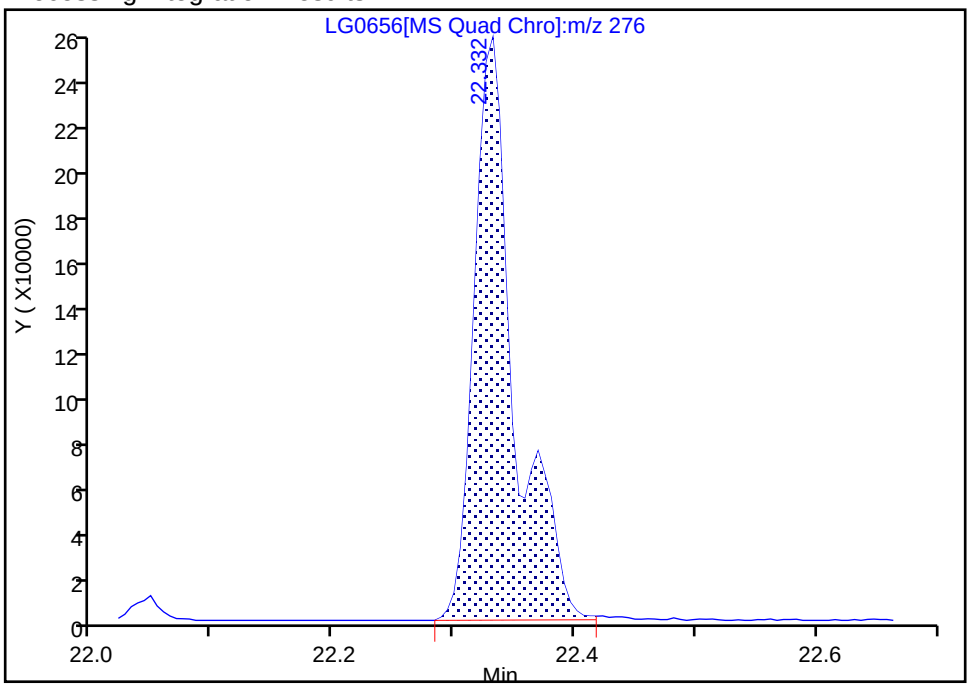
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0656.D				
Injection Date:	15-Jul-2020 15:53:17	Instrument ID:	HP20296		
Lims ID:	IC L4				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

163 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

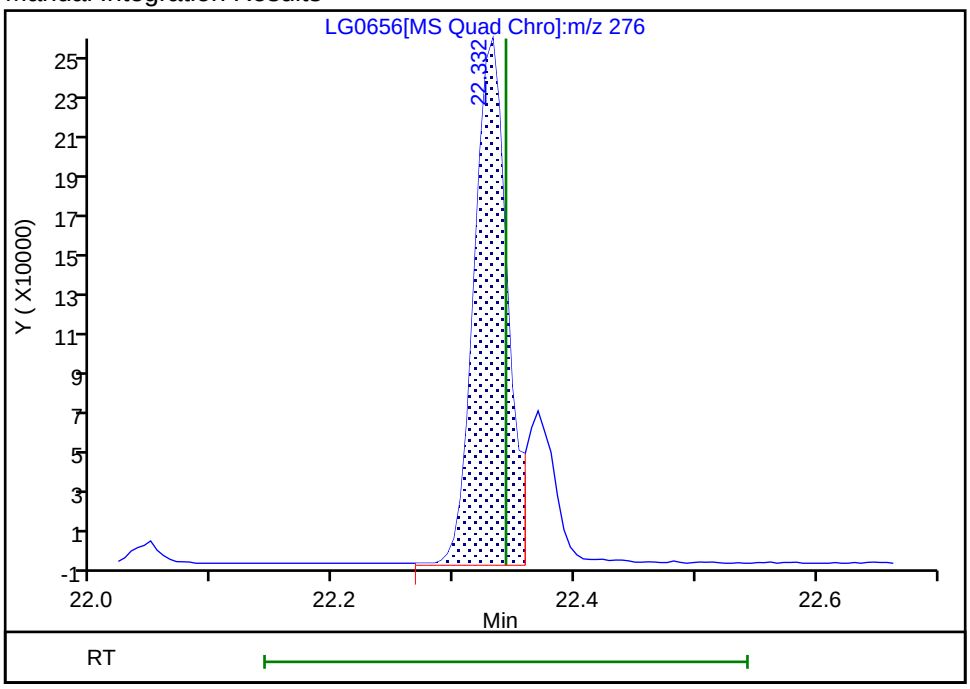
Processing Integration Results

RT: 22.33
Area: 593772
Amount: 4.376675
Amount Units: ug/ml



Manual Integration Results

RT: 22.33
Area: 487033
Amount: 3.732817
Amount Units: ug/ml



Reviewer: transuea, 15-Jul-2020 18:38:48

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0657.D
Lims ID: IC L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 15-Jul-2020 16:22:20 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L3
Misc. Info.: 410-0005639-008
Operator ID: lmh00956 Instrument ID: HP20296
Sublist: chrom-MSSemi_HP20296*sub6

Method: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 15-Jul-2020 19:26:27 Calib Date: 15-Jul-2020 16:51:20
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0658.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1062

First Level Reviewer: transuea Date: 15-Jul-2020 18:42:29

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	2.740	2.740	0.000	92	26188	1.25	1.16	
2 N-Nitrosodimethylamine	74	3.259	3.248	0.011	88	35596	1.25	1.02	
3 Pyridine	79	3.302	3.286	0.016	94	68572	1.25	1.11	
5 2-Picoline	93	4.430	4.425	0.005	93	93341	1.25	1.31	
6 N-Nitrosomethylethylamine	88	4.618	4.607	0.011	89	36312	1.25	1.27	
9 Methyl methanesulfonate	80	5.056	5.051	0.005	85	40115	1.25	1.26	
$ 10 2-Fluorophenol	112	5.291	5.291	0.000	92	154459	2.50	2.68	
11 N-Nitrosodiethylamine	102	5.628	5.628	0.000	89	35135	1.25	1.27	
13 Ethyl methanesulfonate	109	6.078	6.078	0.000	95	39963	1.25	1.30	
15 Benzaldehyde	77	6.559	6.559	0.000	96	68281	1.25	1.24	
$ 16 Phenol-d5	99	6.655	6.661	-0.006	99	179048	2.50	2.41	
17 Phenol	94	6.677	6.677	0.000	96	108396	1.25	1.29	
18 Aniline	93	6.720	6.719	0.001	97	123292	1.25	1.20	
19 Bis(2-chloroethyl)ether	93	6.827	6.832	-0.005	98	88053	1.25	1.28	
20 2-Chlorophenol	128	6.891	6.885	0.006	95	67613	1.25	1.21	
22 1,3-Dichlorobenzene	146	7.126	7.121	0.005	94	73664	1.25	1.23	
* 24 1,4-Dichlorobenzene-d4	152	7.212	7.212	0.000	98	181817	5.00	5.00	
25 1,4-Dichlorobenzene	146	7.238	7.238	0.000	91	76019	1.25	1.25	
27 Benzyl alcohol	108	7.420	7.420	0.000	90	51952	1.25	1.22	
29 1,2-Dichlorobenzene	146	7.468	7.463	0.005	92	74084	1.25	1.29	
30 Indene	115	7.602	7.602	0.000	87	113505	1.25	1.30	
31 2-Methylphenol	108	7.597	7.602	-0.005	94	73031	1.25	1.29	
32 2,2'-oxybis[1-chloropropane]	45	7.645	7.650	-0.005	94	97756	1.25	1.26	
34 N-Nitrosopyrrolidine	100	7.784	7.789	-0.005	95	38992	1.25	1.24	
35 Acetophenone	105	7.827	7.832	-0.005	91	109729	1.25	1.19	
36 4-Methylphenol	108	7.832	7.837	-0.005	94	74693	1.25	1.25	
37 N-Nitrosodi-n-propylamine	70	7.843	7.848	-0.005	78	65599	1.25	1.27	
38 N-Nitrosomorpholine	56	7.853	7.859	-0.006	86	43970	1.25	1.26	
39 2-Toluidine	106	7.880	7.885	-0.005	94	129464	1.25	1.29	
40 Hexachloroethane	117	7.987	7.987	0.000	92	35938	1.25	1.30	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	8.057	8.062	-0.005	87	192648	2.50	2.58	
42 Nitrobenzene	77	8.083	8.089	-0.006	84	98704	1.25	1.30	
44 N-Nitrosopiperidine	114	8.319	8.324	-0.005	90	36715	1.25	1.26	
46 Isophorone	82	8.469	8.474	-0.005	98	168383	1.25	1.26	
47 2-Nitrophenol	139	8.592	8.592	0.000	95	32236	1.25	1.18	
48 2,4-Dimethylphenol	107	8.672	8.677	-0.005	97	79728	1.25	1.27	
49 o,o',o''-Triethylphosphorothioat	198	8.800	8.805	-0.005	92	27735	1.25	1.26	
50 Benzoic acid	105	8.763	8.816	-0.053	91	136277	3.75	3.27	M
51 Bis(2-chloroethoxy)methane	93	8.838	8.843	-0.005	97	111890	1.25	1.30	
S 53 Dinitrotoluene	165				0		2.50	2.52	
52 2,4-Dichlorophenol	162	8.966	8.971	-0.005	96	51569	1.25	1.22	
54 1,2,4-Trichlorobenzene	180	9.105	9.110	-0.005	92	54965	1.25	1.26	
* 55 Naphthalene-d8	136	9.196	9.196	0.000	99	737102	5.00	5.00	
56 Naphthalene	128	9.228	9.228	0.000	97	207248	1.25	1.24	
57 4-Chloroaniline	127	9.324	9.324	0.000	94	82747	1.25	1.24	
58 2,6-Dichlorophenol	162	9.335	9.335	0.000	94	52329	1.25	1.28	
59 Hexachloropropene	213	9.378	9.383	-0.005	91	32170	1.25	1.23	
60 Hexachlorobutadiene	225	9.453	9.447	0.006	95	29498	1.25	1.29	
S 63 Diallate	86				0		1.25	1.31	
62 Quinoline	129	9.763	9.763	0.000	95	133909	1.25	1.30	
64 Caprolactam	113	9.827	9.859	-0.032	82	19946	1.25	1.22	
65 N-Nitrosodi-n-butylamine	84	9.897	9.902	-0.005	89	61070	1.25	1.14	
66 4-Chloro-3-methylphenol	107	10.121	10.127	-0.006	93	67381	1.25	1.23	
67 Safrole, Total	162	10.234	10.234	0.000	81	44787	1.25	1.20	
69 2-Methylnaphthalene	142	10.357	10.357	0.000	93	139416	1.25	1.32	
70 1-Methylnaphthalene	142	10.512	10.517	-0.005	88	127207	1.25	1.27	
71 Hexachlorocyclopentadiene	237	10.624	10.624	0.000	79	31910	1.25	1.23	
72 1,2,4,5-Tetrachlorobenzene	216	10.624	10.629	-0.005	95	50839	1.25	1.27	
73 Isosafrole Peak 1	162	10.710	10.715	-0.005	80	9771	0.2000	0.2151	
74 2,4,6-Trichlorophenol	196	10.817	10.822	-0.005	91	34068	1.25	1.19	
75 2,4,5-Trichlorophenol	196	10.865	10.870	-0.005	89	37870	1.25	1.25	
$ 76 2-Fluorobiphenyl (Surr)	172	10.972	10.977	-0.005	98	277209	2.50	2.50	
77 Isosafrole Peak 2	162	11.079	11.084	-0.005	86	50190	1.05	1.05	
79 1,1'-Biphenyl	154	11.127	11.132	-0.005	95	154181	1.25	1.21	
80 2-Chloronaphthalene	162	11.143	11.148	-0.005	97	135662	1.25	1.35	
81 1-Chloronaphthalene	162	11.175	11.180	-0.005	96	109082	1.25	1.22	
82 Phenyl ether	170	11.309	11.314	-0.005	86	81764	1.25	1.28	
83 2-Nitroaniline	138	11.314	11.319	-0.005	75	42946	1.25	1.25	
84 1,4-Naphthoquinone	158	11.432	11.437	-0.005	76	48162	1.25	1.17	
85 1,4-Dinitrobenzene	168	11.549	11.549	0.000	83	18621	1.25	1.22	
86 Dimethyl phthalate	163	11.635	11.640	-0.005	96	146999	1.25	1.32	
87 1,3-Dinitrobenzene	168	11.656	11.656	0.000	83	22151	1.25	1.29	
88 2,6-Dinitrotoluene	165	11.710	11.715	-0.005	85	31330	1.25	1.28	
90 Acenaphthylene	152	11.790	11.795	-0.005	99	180835	1.25	1.25	
91 3-Nitroaniline	138	11.934	11.940	-0.006	93	36703	1.25	1.27	
* 92 Acenaphthene-d10	164	11.999	11.999	0.000	98	353335	5.00	5.00	
93 Acenaphthene	153	12.041	12.041	0.000	98	134414	1.25	1.26	
94 2,4-Dinitrophenol	184	12.084	12.090	-0.006	79	41710	3.75	3.16	
96 4-Nitrophenol	109	12.175	12.180	-0.005	88	43422	2.50	2.06	
98 Pentachlorobenzene	250	12.218	12.223	-0.005	95	44647	1.25	1.30	
99 2,4-Dinitrotoluene	165	12.266	12.271	-0.005	85	41671	1.25	1.24	
100 Dibenzofuran	168	12.277	12.277	0.000	96	179339	1.25	1.33	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 1-Naphthylamine	143	12.373	12.378	-0.005	98	140811	1.25	1.30	
102 2,3,4,6-Tetrachlorophenol	232	12.432	12.437	-0.005	82	26191	1.25	1.21	
103 2-Naphthylamine	143	12.475	12.480	-0.005	93	136791	1.25	1.26	
104 Diethyl phthalate	149	12.603	12.608	-0.005	97	151833	1.25	1.29	
106 Thionazin	107	12.699	12.705	-0.006	73	30429	1.25	1.29	
105 Fluorene	166	12.710	12.715	-0.005	92	142287	1.25	1.27	
107 N-Nitro-o-toluidine	152	12.726	12.731	-0.005	84	42553	1.25	1.31	
108 4-Chlorophenyl phenyl ether	204	12.731	12.737	-0.006	89	61245	1.25	1.33	
109 4-Nitroaniline	138	12.726	12.737	-0.011	83	41473	1.25	1.31	
110 4,6-Dinitro-2-methylphenol	198	12.774	12.785	-0.011	80	36195	2.50	2.26	
111 N-Nitrosodiphenylamine	169	12.876	12.881	-0.005	66	118882	1.25	1.32	
112 1,2-Diphenylhydrazine	77	12.929	12.929	0.000	42	200556	1.25	1.30	
$ 113 2,4,6-Tribromophenol	330	13.015	13.020	-0.005	85	34858	2.50	2.48	
114 Sulfotepp	97	13.106	13.111	-0.005	77	31085	1.25	1.21	
115 cis-Diallate	86	13.261	13.266	-0.005	90	60861	0.9250	0.9683	
116 Phorate	75	13.272	13.272	0.000	94	126277	1.25	1.30	
117 Phenacetin	108	13.272	13.282	-0.010	89	90537	1.25	1.27	
118 4-Bromophenyl phenyl ether	248	13.352	13.357	-0.005	74	32054	1.25	1.27	
119 trans-Diallate	86	13.373	13.379	-0.006	95	21841	0.3250	0.3403	
120 Hexachlorobenzene	284	13.416	13.416	0.000	88	35452	1.25	1.29	
121 Dimethoate	87	13.470	13.480	-0.010	96	76490	1.25	1.19	
122 Atrazine	200	13.571	13.582	-0.011	86	36667	1.25	1.36	
123 Pentachlorophenol	266	13.673	13.678	-0.005	81	20405	1.25	1.13	
124 4-Aminobiphenyl	169	13.689	13.689	0.000	91	106902	1.25	1.25	
125 Pentachloronitrobenzene	237	13.694	13.699	-0.005	81	16624	1.25	1.29	
126 Pronamide	173	13.780	13.785	-0.005	90	65997	1.25	1.27	
* 127 Phenanthrene-d10	188	13.930	13.935	-0.005	97	646376	5.00	5.00	
128 Dinoseb	211	13.935	13.940	-0.005	74	26000	1.25	1.11	
129 Phenanthrene	178	13.962	13.967	-0.005	98	201884	1.25	1.28	
130 Anthracene	178	14.031	14.036	-0.005	99	198056	1.25	1.24	
131 Carbazole	167	14.250	14.256	-0.006	96	187822	1.25	1.26	
132 Methyl parathion	109	14.459	14.459	0.000	90	58074	1.25	1.15	
133 Di-n-butyl phthalate	149	14.775	14.775	0.000	100	265844	1.25	1.25	
134 Ethyl Parathion	109	15.026	15.031	-0.005	81	35594	1.25	1.15	
135 4-Nitroquinoline-1-oxide	190	15.047	15.053	-0.006	77	18737	1.25	0.99	
136 Octachlorostyrene	308	15.406	15.406	0.000	90	16585	1.25	1.29	
137 Isodrin	193	15.465	15.465	0.001	88	23883	1.25	1.26	
138 Fluoranthene	202	15.689	15.694	-0.005	98	207142	1.25	1.28	
139 Benzidine	184	15.909	15.919	-0.010	99	463646	3.75	3.78	
* 140 Pyrene-d10 (IS)	212	16.016	16.021	-0.005	98	650078	5.00	5.00	
141 Pyrene	202	16.048	16.053	-0.005	95	220205	1.25	1.22	
$ 142 p-Terphenyl-d14	244	16.326	16.331	-0.005	97	289744	2.50	2.46	
143 p-Dimethylamino azobenzene	225	16.566	16.566	0.000	89	30658	1.25	1.10	
144 Chlorobenzilate	139	16.657	16.657	0.000	80	82701	1.25	1.20	
145 3,3'-Dimethylbenzidine	212	17.139	17.144	-0.005	98	131385	1.25	1.13	
146 Butyl benzyl phthalate	149	17.192	17.197	-0.005	94	118433	1.25	1.20	
147 2-Acetylaminofluorene	181	17.567	17.577	-0.010	92	82739	1.25	1.10	
148 3,3'-Dichlorobenzidine	252	18.096	18.101	-0.005	78	66194	1.25	1.12	
150 4,4'-Methylene bis(2-chloroanil	231	18.112	18.117	-0.005	79	36800	1.25	1.19	
149 Benzo[a]anthracene	228	18.112	18.123	-0.011	97	187198	1.25	1.24	
151 Chrysene	228	18.176	18.187	-0.011	96	187176	1.25	1.24	
152 Bis(2-ethylhexyl) phthalate	149	18.278	18.283	-0.005	97	172406	1.25	1.16	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
153 6-Methylchrysene	242	19.000	19.005	-0.005	98	125350	1.25	1.20	
154 Di-n-octyl phthalate	149	19.455	19.465	-0.010	99	278142	1.25	1.11	
155 Benzo[b]fluoranthene	252	20.006	20.016	-0.010	95	191247	1.25	1.26	
156 7,12-Dimethylbenz(a)anthracene	256	20.006	20.016	-0.010	70	77223	1.25	1.20	
157 Benzo[k]fluoranthene	252	20.054	20.070	-0.016	96	182905	1.25	1.25	
158 Benzo[a]pyrene	252	20.546	20.556	-0.010	83	177483	1.25	1.25	
* 159 Perylene-d12	264	20.642	20.647	-0.005	95	595720	5.00	5.00	
160 3-Methylcholanthrene	268	21.118	21.134	-0.016	94	84471	1.25	1.20	
161 Dibenz[a,h]acridine	279	21.963	21.974	-0.011	91	129646	1.25	1.18	
162 Dibenz[a,j]acridine	279	22.038	22.054	-0.016	95	133449	1.25	1.19	
163 Indeno[1,2,3-cd]pyrene	276	22.327	22.343	-0.016	96	158181	1.25	1.20	
164 Dibenz(a,h)anthracene	278	22.370	22.386	-0.016	95	164819	1.25	1.24	
165 Benzo[g,h,i]perylene	276	22.771	22.792	-0.021	92	162489	1.25	1.21	
S 166 Isosafrole	162				0		1.25	1.26	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_3_00006 Amount Added: 1.00 Units: mL

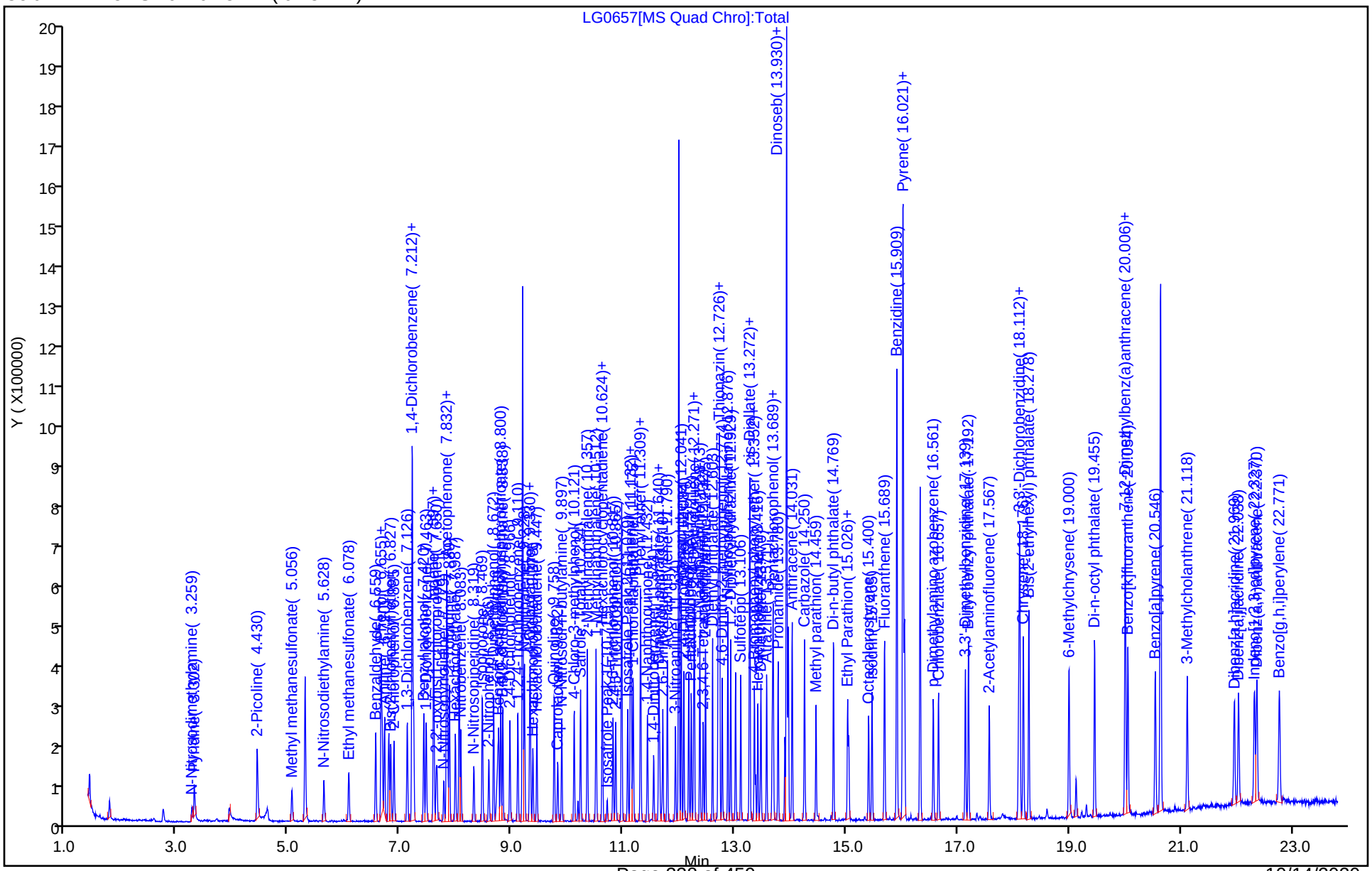
Report Date: 15-Jul-2020 19:26:30 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0657.D

Injection Date:	15-Jul-2020 16:22:20	Instrument ID:	HP20296	Operator ID:	lmh00956
Lims ID:	IC L3			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

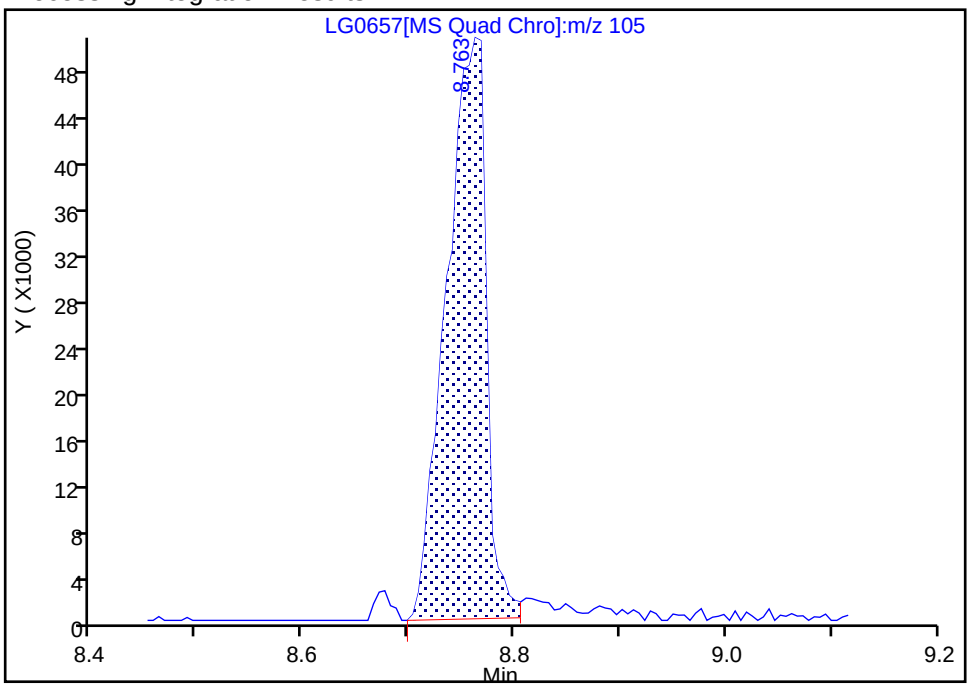
Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0657.D
Injection Date: 15-Jul-2020 16:22:20 Instrument ID: HP20296
Lims ID: IC L3
Client ID:
Operator ID: lmh00956 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

50 Benzoic acid, CAS: 65-85-0

Signal: 1

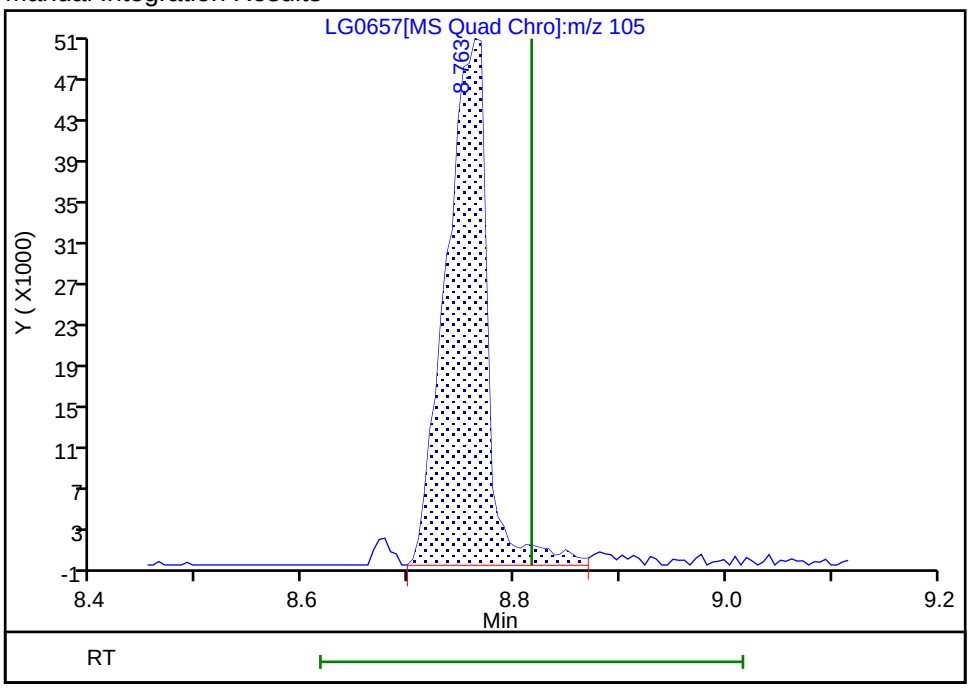
Processing Integration Results

RT: 8.76
Area: 130338
Amount: 3.148086
Amount Units: ug/ml



Manual Integration Results

RT: 8.76
Area: 136277
Amount: 3.270680
Amount Units: ug/ml



Reviewer: transuea, 15-Jul-2020 18:41:05
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0658.D
Lims ID: IC L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 15-Jul-2020 16:51:20 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L2
Misc. Info.: 410-0005639-009
Operator ID: lmh00956 Instrument ID: HP20296
Sublist: chrom-MSSemi_HP20296*sub6

Method: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 15-Jul-2020 19:26:36 Calib Date: 15-Jul-2020 16:51:20
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0658.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1062

First Level Reviewer: transuea Date: 15-Jul-2020 18:47:35

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	2.751	2.740	0.011	47	4443	0.2500	0.2023	
2 N-Nitrosodimethylamine	74	3.280	3.248	0.032	57	6234	0.2500	0.1835	
3 Pyridine	79	3.328	3.286	0.042	92	13790	0.2500	0.2290	
5 2-Picoline	93	4.441	4.425	0.016	91	11030	0.2500	0.1585	
6 N-Nitrosomethylethylamine	88	4.628	4.607	0.021	1	5469	0.2500	0.1958	M
9 Methyl methanesulfonate	80	5.056	5.051	0.005	79	7561	0.2500	0.2439	
$ 10 2-Fluorophenol	112	5.291	5.291	0.000	92	19694	0.5000	0.3500	
11 N-Nitrosodiethylamine	102	5.628	5.628	0.000	92	6339	0.2500	0.2352	
13 Ethyl methanesulfonate	109	6.078	6.078	0.000	93	6679	0.2500	0.2234	
15 Benzaldehyde	77	6.559	6.559	0.000	86	15301	0.2500	0.2844	
$ 16 Phenol-d5	99	6.655	6.661	-0.006	97	33297	0.5000	0.4589	
17 Phenol	94	6.671	6.677	-0.006	56	19215	0.2500	0.2347	M
18 Aniline	93	6.714	6.719	-0.005	88	24511	0.2500	0.2456	
19 Bis(2-chloroethyl)ether	93	6.826	6.832	-0.006	97	17771	0.2500	0.2643	
20 2-Chlorophenol	128	6.885	6.885	0.000	95	13714	0.2500	0.2512	
22 1,3-Dichlorobenzene	146	7.126	7.121	0.005	93	16278	0.2500	0.2784	
* 24 1,4-Dichlorobenzene-d4	152	7.217	7.212	0.005	97	177282	5.00	5.00	
25 1,4-Dichlorobenzene	146	7.238	7.238	0.000	91	15938	0.2500	0.2688	
27 Benzyl alcohol	108	7.420	7.420	0.000	89	9632	0.2500	0.2312	
29 1,2-Dichlorobenzene	146	7.463	7.463	0.000	91	14694	0.2500	0.2615	
30 Indene	115	7.602	7.602	0.000	83	21459	0.2500	0.2515	
31 2-Methylphenol	108	7.597	7.602	-0.005	95	13655	0.2500	0.2474	
32 2,2'-oxybis[1-chloropropane]	45	7.650	7.650	0.000	95	20852	0.2500	0.2746	
34 N-Nitrosopyrrolidine	100	7.778	7.789	-0.011	96	6932	0.2500	0.2258	
35 Acetophenone	105	7.827	7.832	-0.005	85	23608	0.2500	0.2630	
36 4-Methylphenol	108	7.832	7.837	-0.005	91	14332	0.2500	0.2464	
37 N-Nitrosodi-n-propylamine	70	7.843	7.848	-0.005	80	11857	0.2500	0.2363	
38 N-Nitrosomorpholine	56	7.853	7.859	-0.006	56	7805	0.2500	0.2292	
39 2-Toluidine	106	7.880	7.885	-0.005	94	25079	0.2500	0.2560	
40 Hexachloroethane	117	7.987	7.987	0.000	89	5741	0.2500	0.2135	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	8.057	8.062	-0.005	83	38880	0.5000	0.5224	
42 Nitrobenzene	77	8.083	8.089	-0.006	85	18828	0.2500	0.2492	
44 N-Nitrosopiperidine	114	8.319	8.324	-0.005	85	6603	0.2500	0.2279	
46 Isophorone	82	8.474	8.474	0.000	61	32590	0.2500	0.2441	
47 2-Nitrophenol	139	8.591	8.592	-0.001	95	5997	0.2500	0.2203	
48 2,4-Dimethylphenol	107	8.672	8.677	-0.005	91	14561	0.2500	0.2331	
49 o,o',o''-Triethylphosphorothioat	198	8.800	8.805	-0.005	92	5445	0.2500	0.2482	
50 Benzoic acid	105	8.752	8.816	-0.064	86	80776	2.50	1.94	M
51 Bis(2-chloroethoxy)methane	93	8.837	8.843	-0.006	97	22055	0.2500	0.2578	
S 53 Dinitrotoluene	165				0		0.5000	0.4369	
52 2,4-Dichlorophenol	162	8.966	8.971	-0.005	96	9282	0.2500	0.2204	
54 1,2,4-Trichlorobenzene	180	9.110	9.110	0.000	94	11343	0.2500	0.2608	
* 55 Naphthalene-d8	136	9.196	9.196	0.000	100	735252	5.00	5.00	
56 Naphthalene	128	9.228	9.228	0.000	97	42254	0.2500	0.2541	
57 4-Chloroaniline	127	9.324	9.324	0.000	89	16912	0.2500	0.2548	
58 2,6-Dichlorophenol	162	9.329	9.335	-0.006	87	9097	0.2500	0.2227	
59 Hexachloropropene	213	9.378	9.383	-0.005	91	5932	0.2500	0.2277	
60 Hexachlorobutadiene	225	9.447	9.447	0.000	85	5527	0.2500	0.2420	
S 63 Diallate	86				0		0.2500	0.2254	
62 Quinoline	129	9.763	9.763	0.000	94	25208	0.2500	0.2460	
64 Caprolactam	113	9.816	9.859	-0.043	85	4935	0.2500	0.3031	
65 N-Nitrosodi-n-butylamine	84	9.896	9.902	-0.006	91	11707	0.2500	0.2197	
66 4-Chloro-3-methylphenol	107	10.116	10.127	-0.011	94	13352	0.2500	0.2443	
67 Safrole, Total	162	10.233	10.234	-0.001	85	9461	0.2500	0.2540	
69 2-Methylnaphthalene	142	10.356	10.357	-0.001	91	24840	0.2500	0.2359	
70 1-Methylnaphthalene	142	10.512	10.517	-0.005	91	24846	0.2500	0.2484	
71 Hexachlorocyclopentadiene	237	10.619	10.624	-0.006	82	5556	0.2500	0.2251	
72 1,2,4,5-Tetrachlorobenzene	216	10.624	10.629	-0.005	91	9603	0.2500	0.2523	
73 Isosafrole Peak 1	162	10.709	10.715	-0.006	86	2187	0.0400	0.0505	
74 2,4,6-Trichlorophenol	196	10.816	10.822	-0.006	92	6640	0.2500	0.2433	
75 2,4,5-Trichlorophenol	196	10.865	10.870	-0.005	91	6467	0.2500	0.2240	
$ 76 2-Fluorobiphenyl (Surr)	172	10.972	10.977	-0.005	98	52093	0.5000	0.4933	
77 Isosafrole Peak 2	162	11.078	11.084	-0.006	88	9419	0.2100	0.2061	
79 1,1'-Biphenyl	154	11.127	11.132	-0.005	96	31010	0.2500	0.2546	
80 2-Chloronaphthalene	162	11.143	11.148	-0.005	96	23138	0.2500	0.2409	
81 1-Chloronaphthalene	162	11.175	11.180	-0.005	96	23535	0.2500	0.2756	
82 Phenyl ether	170	11.314	11.314	0.000	81	14311	0.2500	0.2356	
83 2-Nitroaniline	138	11.319	11.319	0.000	67	7641	0.2500	0.2325	
84 1,4-Naphthoquinone	158	11.432	11.437	-0.005	85	7859	0.2500	0.2003	
85 1,4-Dinitrobenzene	168	11.549	11.549	0.000	81	3600	0.2500	0.2478	
86 Dimethyl phthalate	163	11.635	11.640	-0.005	97	28060	0.2500	0.2642	
87 1,3-Dinitrobenzene	168	11.651	11.656	-0.005	78	3004	0.2500	0.1829	
88 2,6-Dinitrotoluene	165	11.710	11.715	-0.005	86	5388	0.2500	0.2308	
90 Acenaphthylene	152	11.790	11.795	-0.005	98	35210	0.2500	0.2553	
91 3-Nitroaniline	138	11.934	11.940	-0.006	88	6171	0.2500	0.2244	
* 92 Acenaphthene-d10	164	11.998	11.999	-0.001	98	336630	5.00	5.00	
93 Acenaphthene	153	12.041	12.041	0.000	96	25840	0.2500	0.2535	
94 2,4-Dinitrophenol	184	12.084	12.090	-0.006	74	20345	2.25	1.62	
96 4-Nitrophenol	109	12.175	12.180	-0.005	93	20606	1.25	1.03	
98 Pentachlorobenzene	250	12.218	12.223	-0.005	90	8235	0.2500	0.2509	
99 2,4-Dinitrotoluene	165	12.266	12.271	-0.005	75	6610	0.2500	0.2061	
100 Dibenzofuran	168	12.277	12.277	0.000	96	32270	0.2500	0.2518	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 1-Naphthylamine	143	12.373	12.378	-0.005	97	24089	0.2500	0.2333	
102 2,3,4,6-Tetrachlorophenol	232	12.432	12.437	-0.005	74	5333	0.2500	0.2579	
103 2-Naphthylamine	143	12.474	12.480	-0.006	95	26597	0.2500	0.2573	
104 Diethyl phthalate	149	12.603	12.608	-0.005	95	29257	0.2500	0.2610	
106 Thionazin	107	12.699	12.705	-0.006	71	5625	0.2500	0.2502	
105 Fluorene	166	12.710	12.715	-0.005	95	26927	0.2500	0.2528	
107 N-Nitro-o-toluidine	152	12.726	12.731	-0.005	69	7671	0.2500	0.2475	
108 4-Chlorophenyl phenyl ether	204	12.731	12.737	-0.006	75	11305	0.2500	0.2581	
109 4-Nitroaniline	138	12.726	12.737	-0.011	77	7564	0.2500	0.2511	
110 4,6-Dinitro-2-methylphenol	198	12.779	12.785	-0.006	78	14127	1.25	0.9094	
111 N-Nitrosodiphenylamine	169	12.876	12.881	-0.005	64	22938	0.2500	0.2632	
112 1,2-Diphenylhydrazine	77	12.924	12.929	-0.005	42	38979	0.2500	0.2602	
$ 113 2,4,6-Tribromophenol	330	13.015	13.020	-0.005	86	5826	0.5000	0.4353	
114 Sulfotepp	97	13.106	13.111	-0.005	77	6805	0.2500	0.2733	
115 cis-Diallate	86	13.261	13.266	-0.005	74	10343	0.1850	0.1700	
116 Phorate	75	13.266	13.272	-0.006	92	20889	0.2500	0.2222	
117 Phenacetin	108	13.271	13.282	-0.011	80	15410	0.2500	0.2225	
118 4-Bromophenyl phenyl ether	248	13.357	13.357	0.000	74	7247	0.2500	0.2974	Ma
119 trans-Diallate	86	13.373	13.379	-0.006	91	3440	0.0650	0.0554	
120 Hexachlorobenzene	284	13.416	13.416	0.000	87	6977	0.2500	0.2624	
121 Dimethoate	87	13.469	13.480	-0.011	97	14341	0.2500	0.2312	
122 Atrazine	200	13.571	13.582	-0.011	84	6688	0.2500	0.2568	
123 Pentachlorophenol	266	13.673	13.678	-0.005	80	3978	0.2500	0.2276	
124 4-Aminobiphenyl	169	13.683	13.689	-0.006	91	21064	0.2500	0.2552	
125 Pentachloronitrobenzene	237	13.683	13.699	-0.016	49	3163	0.2500	0.2545	
126 Pronamide	173	13.780	13.785	-0.005	88	11000	0.2500	0.2182	
* 127 Phenanthrene-d10	188	13.929	13.935	-0.006	97	625649	5.00	5.00	
128 Dinoseb	211	13.929	13.940	-0.011	62	3504	0.2500	0.1539	
129 Phenanthrene	178	13.956	13.967	-0.011	98	40709	0.2500	0.2676	
130 Anthracene	178	14.026	14.036	-0.010	97	39913	0.2500	0.2587	
131 Carbazole	167	14.250	14.256	-0.006	96	35593	0.2500	0.2461	
132 Methyl parathion	109	14.459	14.459	0.000	86	8880	0.2500	0.1810	
133 Di-n-butyl phthalate	149	14.774	14.775	-0.001	100	45991	0.2500	0.2226	
134 Ethyl Parathion	109	15.026	15.031	-0.005	78	5472	0.2500	0.1832	
135 4-Nitroquinoline-1-oxide	190	15.047	15.053	-0.006	76	2741	0.2500	0.1497	
136 Octachlorostyrene	308	15.400	15.406	-0.006	78	3455	0.2500	0.2770	
137 Isodrin	193	15.464	15.465	0.000	86	5489	0.2500	0.3003	
138 Fluoranthene	202	15.689	15.694	-0.005	98	35464	0.2500	0.2266	
139 Benzidine	184	15.908	15.919	-0.011	98	200926	2.00	1.77	
* 140 Pyrene-d10 (IS)	212	16.015	16.021	-0.006	99	602098	5.00	5.00	
141 Pyrene	202	16.042	16.053	-0.011	74	43335	0.2500	0.2589	
$ 142 p-Terphenyl-d14	244	16.326	16.331	-0.005	97	52010	0.5000	0.4776	
143 p-Dimethylamino azobenzene	225	16.566	16.566	0.000	89	4935	0.2500	0.1916	
144 Chlorobenzilate	139	16.652	16.657	-0.005	78	14147	0.2500	0.2214	
145 3,3'-Dimethylbenzidine	212	17.139	17.144	-0.006	97	22792	0.2500	0.2125	
146 Butyl benzyl phthalate	149	17.192	17.197	-0.005	91	19881	0.2500	0.2182	
147 2-Acetylaminofluorene	181	17.566	17.577	-0.011	91	13204	0.2500	0.1893	
148 3,3'-Dichlorobenzidine	252	18.091	18.101	-0.010	79	12143	0.2500	0.2217	
150 4,4'-Methylene bis(2-chloroanil	231	18.107	18.117	-0.010	66	5110	0.2500	0.1784	
149 Benzo[a]anthracene	228	18.112	18.123	-0.011	95	33397	0.2500	0.2396	
151 Chrysene	228	18.176	18.187	-0.011	94	35060	0.2500	0.2512	
152 Bis(2-ethylhexyl) phthalate	149	18.278	18.283	-0.005	95	27229	0.2500	0.1985	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
153 6-Methylchrysene	242	18.994	19.005	-0.011	97	22941	0.2500	0.2367	
154 Di-n-octyl phthalate	149	19.454	19.465	-0.011	99	42726	0.2500	0.1790	
155 Benzo[b]fluoranthene	252	20.005	20.016	-0.011	96	34904	0.2500	0.2410	
156 7,12-Dimethylbenz(a)anthracene	256	20.000	20.016	-0.016	66	13114	0.2500	0.2149	
157 Benzo[k]fluoranthene	252	20.054	20.070	-0.016	94	33805	0.2500	0.2426	
158 Benzo[a]pyrene	252	20.546	20.556	-0.010	81	33556	0.2500	0.2483	
* 159 Perylene-d12	264	20.642	20.647	-0.005	94	566832	5.00	5.00	
160 3-Methylcholanthrene	268	21.107	21.134	-0.027	91	13842	0.2500	0.2072	
161 Dibenz[a,h]acridine	279	21.963	21.974	-0.011	91	22787	0.2500	0.2184	
162 Dibenz[a,j]acridine	279	22.043	22.054	-0.011	95	25560	0.2500	0.2398	
163 Indeno[1,2,3-cd]pyrene	276	22.327	22.343	-0.016	91	29184	0.2500	0.2318	M
164 Dibenz(a,h)anthracene	278	22.359	22.386	-0.027	93	28955	0.2500	0.2295	
165 Benzo[g,h,i]perylene	276	22.765	22.792	-0.027	93	30221	0.2500	0.2362	
S 166 Isosafrole	162				0		0.2500	0.2566	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSS_RV8270_2_00006 Amount Added: 1.00 Units: mL

Report Date: 15-Jul-2020 19:26:39 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0658.D

Injection Date: 15-Jul-2020 16:51:20 Instrument ID: HP20296 Operator ID: lmh00956

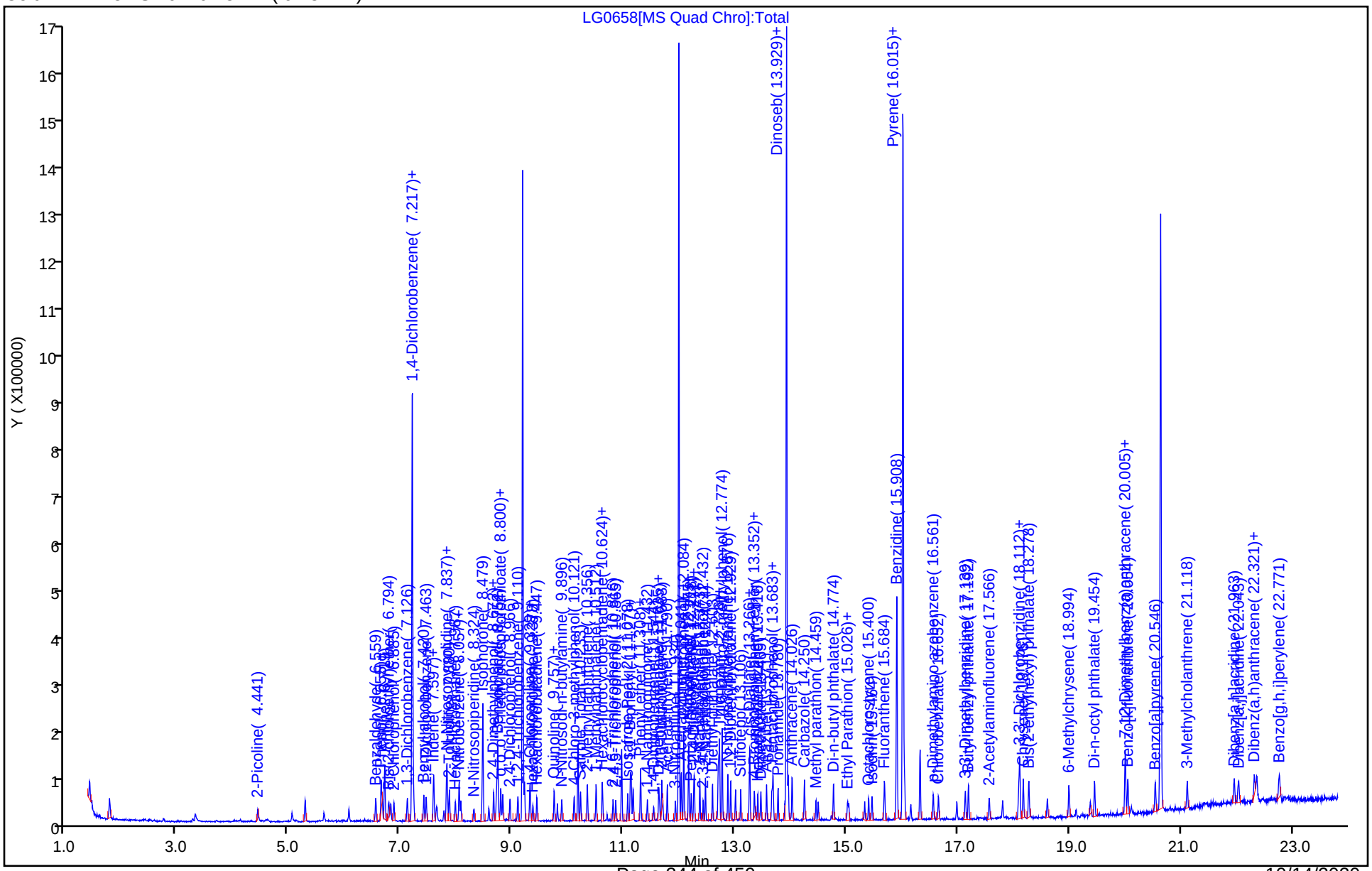
Lims ID: IC L2 Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0

Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.18mm (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

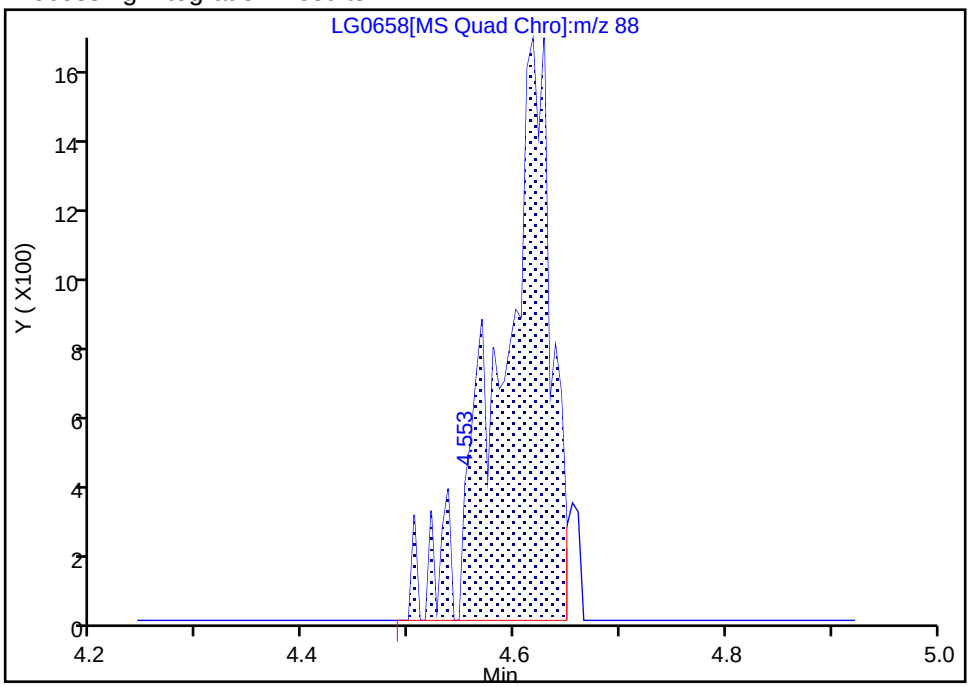
Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0658.D
Injection Date: 15-Jul-2020 16:51:20 Instrument ID: HP20296
Lims ID: IC L2
Client ID:
Operator ID: lmh00956 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

6 N-Nitrosomethylethylamine, CAS: 10595-95-6

Signal: 1

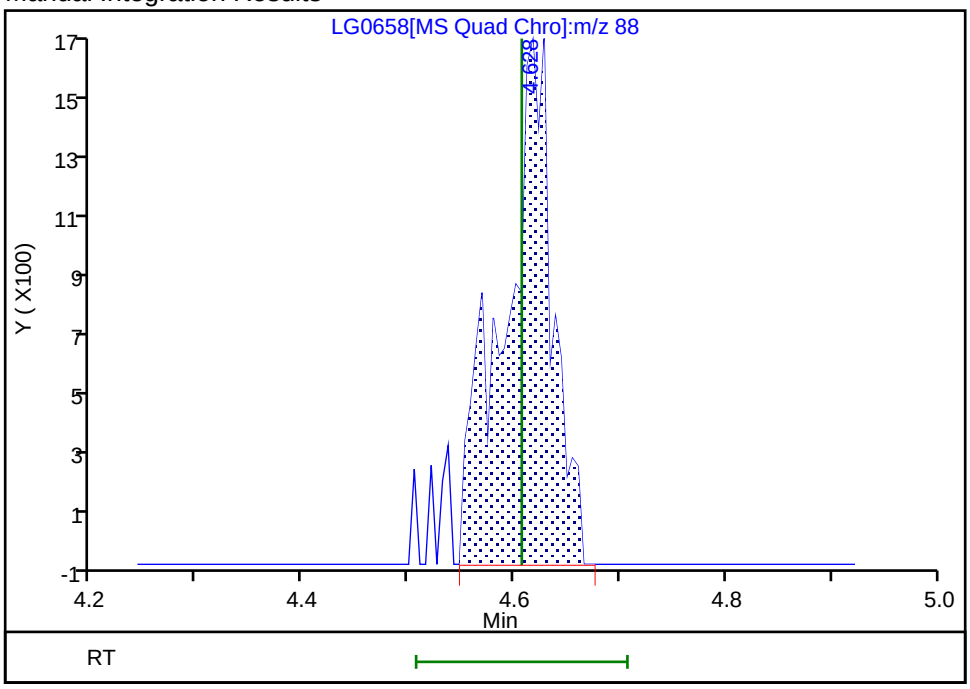
Processing Integration Results

RT: 4.55
Area: 5601
Amount: 0.200536
Amount Units: ug/ml



Manual Integration Results

RT: 4.63
Area: 5469
Amount: 0.195810
Amount Units: ug/ml



Reviewer: transuea, 15-Jul-2020 18:43:31
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

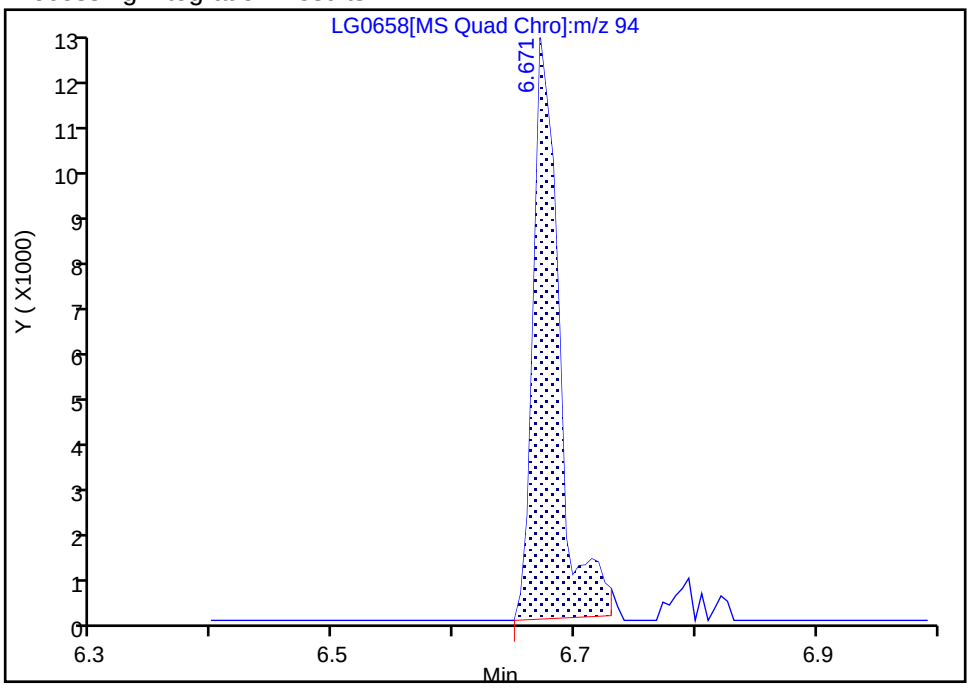
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0658.D				
Injection Date:	15-Jul-2020 16:51:20	Instrument ID:	HP20296		
Lims ID:	IC L2				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

17 Phenol, CAS: 108-95-2

Signal: 1

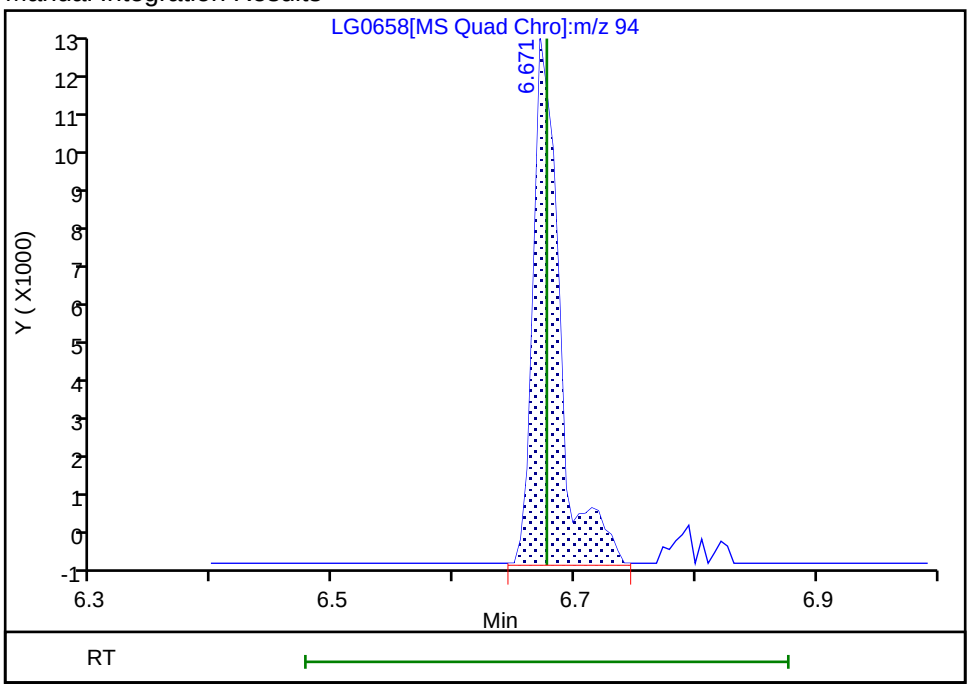
Processing Integration Results

RT: 6.67
Area: 18483
Amount: 0.226923
Amount Units: ug/ml



Manual Integration Results

RT: 6.67
Area: 19215
Amount: 0.234705
Amount Units: ug/ml



Reviewer: transuea, 15-Jul-2020 18:43:46
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

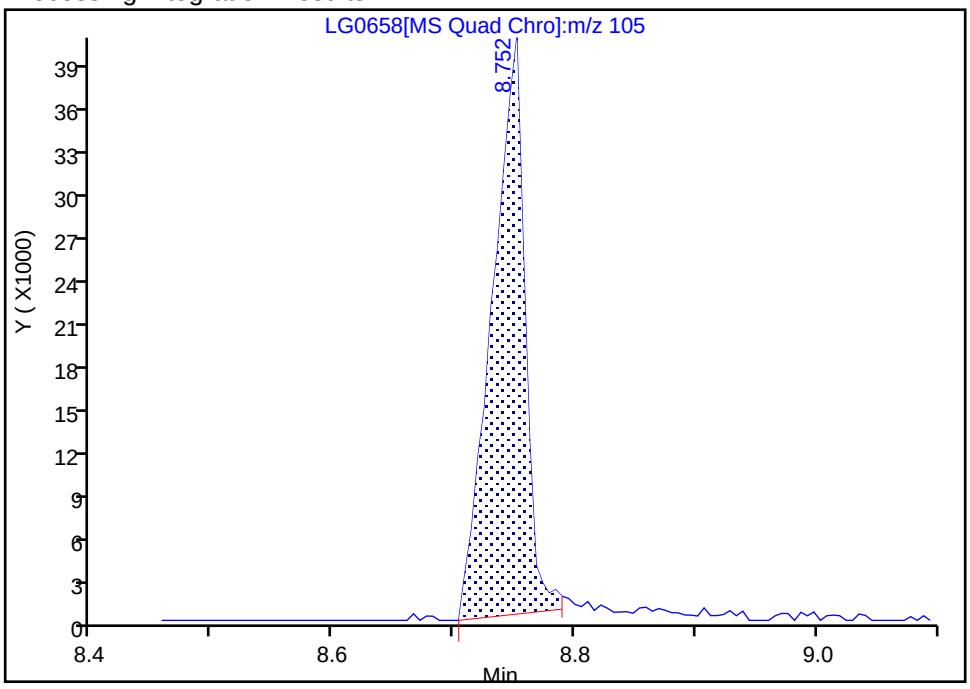
Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0658.D
Injection Date: 15-Jul-2020 16:51:20 Instrument ID: HP20296
Lims ID: IC L2
Client ID:
Operator ID: lmh00956 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

50 Benzoic acid, CAS: 65-85-0

Signal: 1

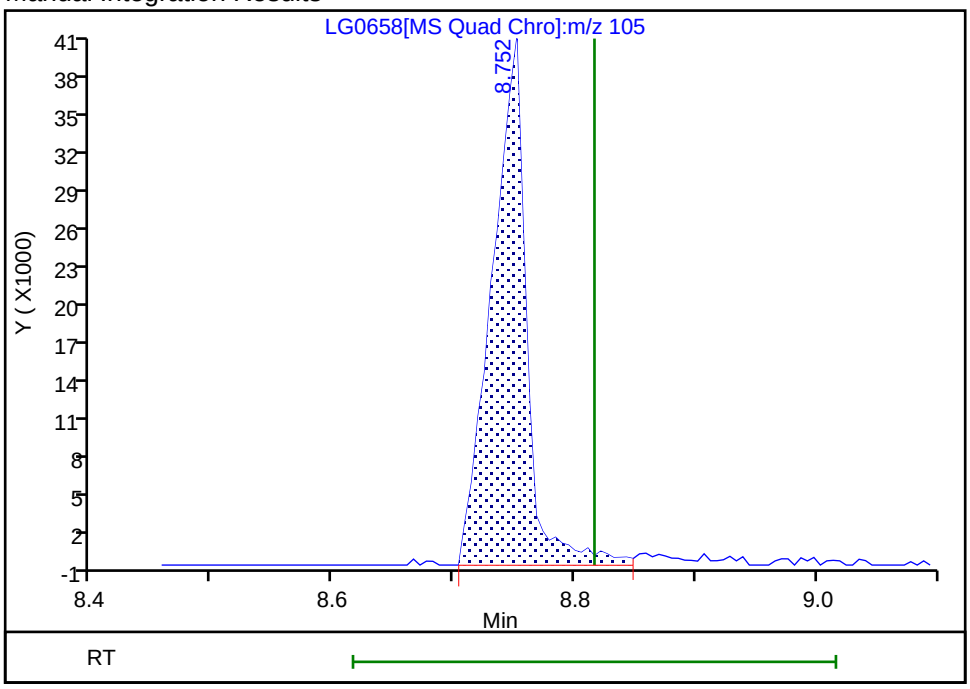
Processing Integration Results

RT: 8.75
Area: 75336
Amount: 1.812631
Amount Units: ug/ml



Manual Integration Results

RT: 8.75
Area: 80776
Amount: 1.943521
Amount Units: ug/ml



Reviewer: transuea, 15-Jul-2020 18:44:34
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

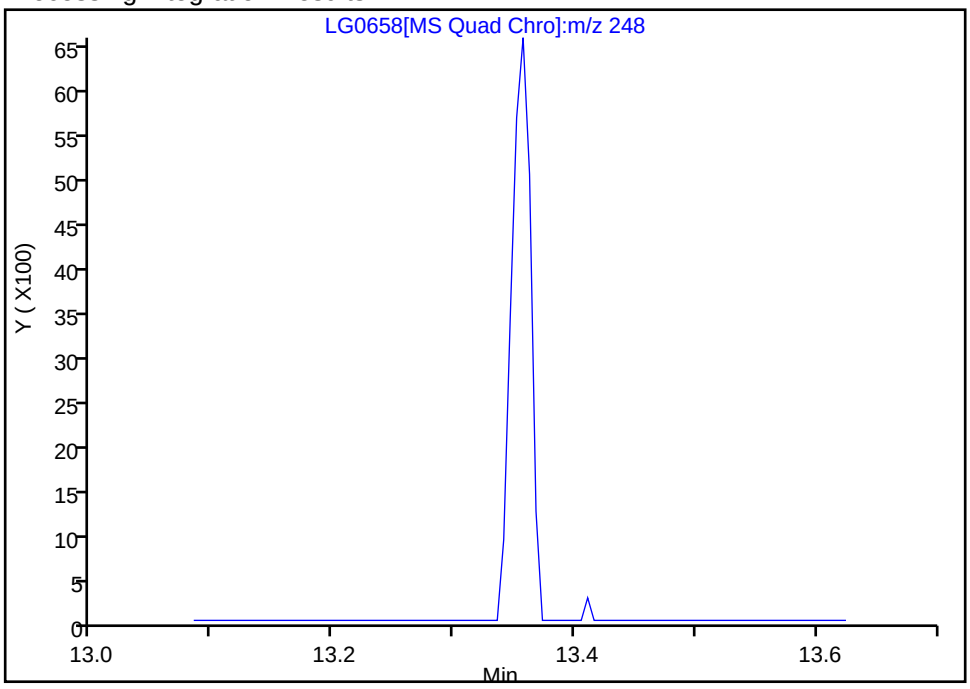
Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0658.D
Injection Date: 15-Jul-2020 16:51:20 Instrument ID: HP20296
Lims ID: IC L2
Client ID:
Operator ID: lmh00956 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI
Column: DB-5MS 20m 0.18mm (0.18 mm) Detector MS SCAN

118 4-Bromophenyl phenyl ether, CAS: 101-55-3

Signal: 1

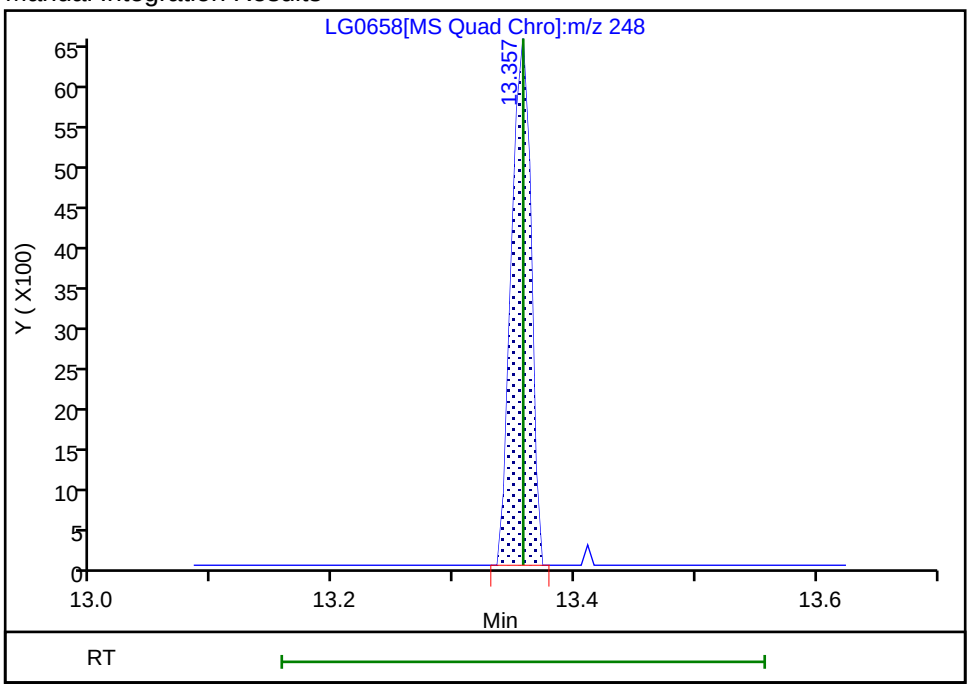
Not Detected
Expected RT: 13.36

Processing Integration Results



Manual Integration Results

RT: 13.36
Area: 7247
Amount: 0.297397
Amount Units: ug/ml



Reviewer: transuea, 15-Jul-2020 18:46:19
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

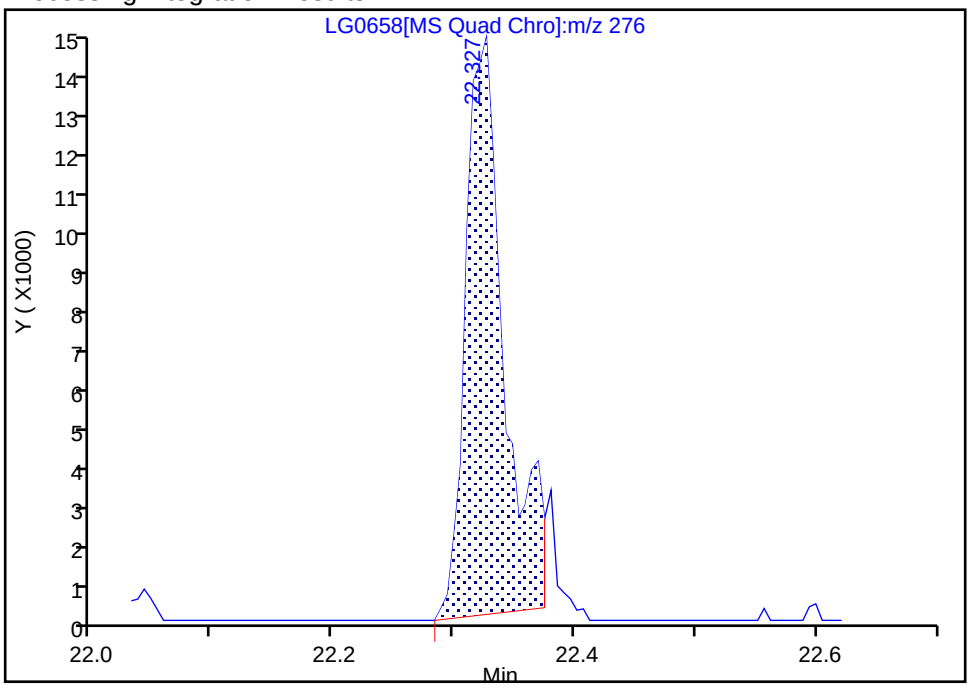
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0658.D				
Injection Date:	15-Jul-2020 16:51:20	Instrument ID:	HP20296		
Lims ID:	IC L2				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

163 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

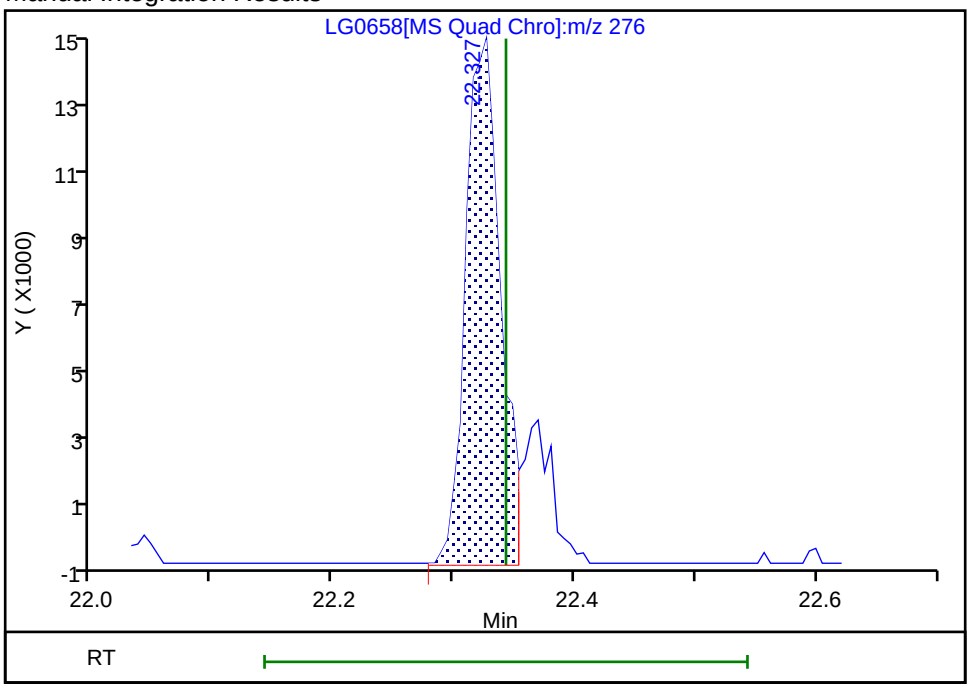
Processing Integration Results

RT: 22.33
Area: 32341
Amount: 0.253732
Amount Units: ug/ml



Manual Integration Results

RT: 22.33
Area: 29184
Amount: 0.231835
Amount Units: ug/ml



Reviewer: transuea, 15-Jul-2020 18:47:23

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-15639-1

SDG No.:

Lab Sample ID (1): ICIS 410-22758/2 Instrument ID (1): HP20296

GC Column (1): DB-5MS 20m 0. ID: 0.18(mm) Date Analyzed (1): 07/15/2020 13:18

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	20.02	12.30

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-15639-1

SDG No.:

Lab Sample ID (1): CCVIS 410-51485/2 Instrument ID (1): HP20296

GC Column (1): DB-5MS 20m 0. ID: 0.18(mm) Date Analyzed (1): 10/06/2020 18:15

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	19.42	11.30

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-15639-1

SDG No.:

Lab Sample ID (1): CCVIS 410-51653/2 Instrument ID (1): HP20296

GC Column (1): DB-5MS 20m 0. ID: 0.18(mm) Date Analyzed (1): 10/07/2020 08:26

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	19.43	13.00

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-15639-1

SDG No.:

Lab Sample ID (1): CCVIS 410-51967/2 Instrument ID (1): HP20296

GC Column (1): DB-5MS 20m 0. ID: 0.18(mm) Date Analyzed (1): 10/07/2020 16:54

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	19.43	13.00

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1

SDG No.:

Lab Sample ID: ICV 410-22758/12 Calibration Date: 07/15/2020 18:18

Instrument ID: HP20296 Calib Start Date: 07/15/2020 13:18

GC Column: DB-5MS 20m 0.18 ID: 0.18(mm) Calib End Date: 07/15/2020 16:51

Lab File ID: LG0661.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6196	0.6641		13.4	12.5	7.2	30.0
N-Nitrosodimethylamine	Ave	0.9584	0.9870		12.9	12.5	3.0	30.0
Pyridine	Ave	1.698	1.560		11.5	12.5	-8.1	30.0
2-Picoline	Ave	1.963	1.771		11.3	12.5	-9.8	30.0
N-Nitrosomethylethylamine	Ave	0.7877	0.6928		11.0	12.5	-12.0	30.0
Methyl methanesulfonate	Ave	0.8742	0.9834		14.1	12.5	12.5	30.0
N-Nitrosodiethylamine	Ave	0.7600	0.7692		12.7	12.5	1.2	30.0
Ethyl methanesulfonate	Ave	0.8433	0.8560		12.7	12.5	1.5	30.0
Phenol	Ave	2.309	2.311	0.8000	12.5	12.5	0.0	30.0
Aniline	Ave	2.815	2.525		11.2	12.5	-10.3	30.0
Bis(2-chloroethyl)ether	Ave	1.896	1.874	0.7000	12.4	12.5	-1.2	30.0
2-Chlorophenol	Ave	1.539	1.599	0.8000	13.0	12.5	3.9	30.0
1,3-Dichlorobenzene	Ave	1.649	1.628		12.3	12.5	-1.2	30.0
1,4-Dichlorobenzene	Ave	1.672	1.722		12.9	12.5	3.0	30.0
Benzyl alcohol	Ave	1.175	1.220		13.0	12.5	3.8	30.0
1,2-Dichlorobenzene	Ave	1.585	1.640		12.9	12.5	3.5	30.0
2-Methylphenol	Ave	1.557	1.654	0.7000	13.3	12.5	6.2	30.0
Indene	Ave	2.407	3.100		16.1	12.5	28.8	30.0
2,2'-oxybis[1-chloropropane]	Ave	2.142	2.092	0.0100	12.2	12.5	-2.3	30.0
N-Nitrosopyrrolidine	Ave	0.8657	0.9695		14.0	12.5	12.0	30.0
Acetophenone	Ave	2.532	2.598	0.0100	12.8	12.5	2.6	30.0
4-Methylphenol (and/or 3-Methylphenol)	Ave	1.641	1.707	0.6000	13.0	12.5	4.0	30.0
N-Nitrosodi-n-propylamine	Ave	1.415	1.499	0.5000	13.2	12.5	5.9	30.0
N-Nitrosomorpholine	Ave	0.9603	1.020		13.3	12.5	6.2	30.0
o-Toluidine	Ave	2.763	2.780		12.6	12.5	0.6	30.0
Hexachloroethane	Ave	0.7584	0.7758	0.3000	12.8	12.5	2.3	30.0
Nitrobenzene	Ave	0.5138	0.4939	0.2000	12.0	12.5	-3.9	30.0
N-Nitrosopiperidine	Ave	0.1971	0.1952		12.4	12.5	-0.9	30.0
Isophorone	Ave	0.9080	0.8806	0.4000	12.1	12.5	-3.0	30.0
2-Nitrophenol	Ave	0.1851	0.1828	0.1000	12.3	12.5	-1.3	30.0
o,o',o''-Triethylphosphorothioate	Ave	0.1492	0.1562		13.1	12.5	4.7	30.0
Bis(2-chloroethoxy)methane	Ave	0.5817	0.5690	0.3000	12.2	12.5	-2.2	30.0
Benzoic acid	Ave	0.2826	0.3360		29.7	25.0	18.9	30.0
2,4-Dichlorophenol	Ave	0.2863	0.2935	0.2000	12.8	12.5	2.5	30.0
1,2,4-Trichlorobenzene	Ave	0.2958	0.2960		12.5	12.5	0.0	30.0
Naphthalene	Ave	1.131	1.103	0.7000	12.2	12.5	-2.5	30.0
4-Chloroaniline	Ave	0.4514	0.4358	0.0100	12.1	12.5	-3.4	30.0
2,6-Dichlorophenol	Ave	0.2778	0.2850		12.8	12.5	2.6	30.0
Hexachloropropene	Ave	0.1771	0.2030		14.3	12.5	14.6	30.0
Hexachlorobutadiene	Ave	0.1553	0.1582	0.0100	12.7	12.5	1.9	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1

SDG No.:

Lab Sample ID: ICV 410-22758/12 Calibration Date: 07/15/2020 18:18

Instrument ID: HP20296 Calib Start Date: 07/15/2020 13:18

GC Column: DB-5MS 20m 0.18 ID: 0.18(mm) Calib End Date: 07/15/2020 16:51

Lab File ID: LG0661.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Quinoline	Ave	0.6967	0.6877		12.3	12.5	-1.3	30.0
N-Nitrosodi-n-butylamine	Ave	0.3623	0.3380		11.7	12.5	-6.7	30.0
4-Chloro-3-methylphenol	Ave	0.3717	0.3760	0.2000	12.6	12.5	1.1	30.0
Safrole, Total	Ave	0.2533	0.2571		12.7	12.5	1.5	30.0
2-Methylnaphthalene	Ave	0.7160	0.7090	0.4000	12.4	12.5	-1.0	30.0
1-Methylnaphthalene	Ave	0.6803	0.6360		11.7	12.5	-6.5	30.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5652	0.5757	0.0100	12.7	12.5	1.9	30.0
Isosafrole Peak 1	Ave	0.6427	0.6198		1.45	1.50	-3.6	30.0
2,4,6-Trichlorophenol	Ave	0.4053	0.4166	0.2000	12.8	12.5	2.8	30.0
2,4,5-Trichlorophenol	Ave	0.4289	0.4320	0.2000	12.6	12.5	0.7	30.0
Isosafrole Peak 2	Ave	0.6789	0.7096		11.5	11.0	4.5	30.0
1,1'-Biphenyl	Ave	1.809	1.820	0.0100	12.6	12.5	0.6	30.0
2-Chloronaphthalene	Ave	1.427	1.383	0.8000	12.1	12.5	-3.0	30.0
1-Chloronaphthalene	Ave	1.269	1.318		13.0	12.5	3.9	30.0
Diphenyl ether	Ave	0.9023	0.9180		12.7	12.5	1.7	30.0
2-Nitroaniline	Ave	0.4881	0.5002	0.0100	12.8	12.5	2.5	30.0
1,4-Naphthoquinone	Ave	0.5828	0.5974		16.0	15.6	2.5	30.0
1,4-Dinitrobenzene	Ave	0.2158	0.2269		13.1	12.5	5.2	30.0
Dimethyl phthalate	Ave	1.578	1.482	0.0100	11.7	12.5	-6.1	30.0
1,3-Dinitrobenzene	Ave	0.2439	0.2490		12.8	12.5	2.1	30.0
2,6-Dinitrotoluene	Ave	0.3468	0.3447	0.2000	12.4	12.5	-0.6	30.0
Acenaphthylene	Ave	2.048	2.024	0.9000	12.4	12.5	-1.2	30.0
3-Nitroaniline	Ave	0.4085	0.4383	0.0100	13.4	12.5	7.3	30.0
Acenaphthene	Ave	1.514	1.518	0.9000	12.5	12.5	0.3	30.0
2,4-Dinitrophenol	Ave	0.1870	0.2061	0.0100	27.6	25.0	10.2	30.0
4-Nitrophenol	Ave	0.2985	0.2900	0.0100	12.1	12.5	-2.9	30.0
Pentachlorobenzene	Ave	0.4875	0.5012		12.9	12.5	2.8	30.0
2,4-Dinitrotoluene	Ave	0.4764	0.4768	0.2000	12.5	12.5	0.0	30.0
Dibenzofuran	Ave	1.904	1.930	0.8000	12.7	12.5	1.4	30.0
1-Naphthylamine	Ave	1.534	1.321		21.5	25.0	-13.8	30.0
2,3,4,6-Tetrachlorophenol	Ave	0.3072	0.3297	0.0100	13.4	12.5	7.3	30.0
2-Naphthylamine	Ave	1.535	1.259		20.5	25.0	-18.0	30.0
Diethyl phthalate	Ave	1.665	1.631	0.0100	12.2	12.5	-2.0	30.0
Thionazin	Ave	0.3340	0.3196		12.0	12.5	-4.3	30.0
Fluorene	Ave	1.582	1.550	0.9000	12.3	12.5	-2.0	30.0
4-Chlorophenyl-phenyl ether	Ave	0.6507	0.6468	0.4000	12.4	12.5	-0.6	30.0
5-Nitro-o-toluidine	Ave	0.4603	0.4739		12.9	12.5	3.0	30.0
4-Nitroaniline	Ave	0.4475	0.4443	0.0100	12.4	12.5	-0.7	30.0
4,6-Dinitro-2-methylphenol	Ave	0.1241	0.1214	0.0100	12.2	12.5	-2.2	30.0
N-Nitrosodiphenylamine	Ave	0.6965	0.6567	0.0100	11.8	12.5	-5.7	30.0
1,2-Diphenylhydrazine	Ave	1.197	1.176		12.3	12.5	-1.7	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1

SDG No.:

Lab Sample ID: ICV 410-22758/12 Calibration Date: 07/15/2020 18:18

Instrument ID: HP20296 Calib Start Date: 07/15/2020 13:18

GC Column: DB-5MS 20m 0.18 ID: 0.18(mm) Calib End Date: 07/15/2020 16:51

Lab File ID: LG0661.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Sulfotepp	Ave	0.1990	0.1922		12.1	12.5	-3.4	30.0
cis-Diallate	Ave	0.4862	0.4684		9.03	9.38	-3.7	30.0
Phorate	Ave	0.7514	0.7435		12.4	12.5	-1.0	30.0
Phenacetin	Ave	0.5534	0.5648		12.8	12.5	2.1	30.0
4-Bromophenyl-phenylether	Ave	0.1947	0.1731	0.1000	11.1	12.5	-11.1	30.0
trans-Diallate	Ave	0.4964	0.4825		3.04	3.13	-2.8	30.0
Hexachlorobenzene	Ave	0.2125	0.2086	0.1000	12.3	12.5	-1.8	30.0
Dimethoate	Ave	0.4957	0.4911		12.4	12.5	-0.9	30.0
Pentachlorophenol	Ave	0.1397	0.1416	0.0500	12.7	12.5	1.3	30.0
4-Aminobiphenyl	Ave	0.6595	0.9155		17.4	12.5	38.8*	30.0
Pentachloronitrobenzene	Ave	0.0993	0.0980		12.3	12.5	-1.3	30.0
Pronamide	Ave	0.4029	0.4088		12.7	12.5	1.5	30.0
Dinoseb	Ave	0.1820	0.1952		13.4	12.5	7.2	30.0
Phenanthrene	Ave	1.216	1.170	0.7000	12.0	12.5	-3.8	30.0
Anthracene	Ave	1.233	1.189	0.7000	12.0	12.5	-3.6	30.0
Carbazole	Ave	1.156	1.161	0.0100	12.6	12.5	0.4	30.0
Methyl parathion	Ave	0.3920	0.4021		12.8	12.5	2.6	30.0
Di-n-butyl phthalate	Ave	1.651	1.599	0.0100	12.1	12.5	-3.2	30.0
Parathion	Ave	0.2387	0.2507		13.1	12.5	5.0	30.0
4-Nitroquinoline-1-oxide	Ave	0.1464	0.1655		170	150	13.1	30.0
Octachlorostyrene	Ave	0.0997	0.0901		11.3	12.5	-9.6	30.0
Isodrin	Ave	0.1461	0.1389		11.9	12.5	-4.9	30.0
Fluoranthene	Ave	1.251	1.224	0.6000	12.2	12.5	-2.1	30.0
Benzidine	Ave	0.9427	0.7697		51.0	62.5	-18.4	30.0
Pyrene	Ave	1.390	1.305	0.6000	11.7	12.5	-6.1	30.0
p-Dimethylamino azobenzene	Ave	0.2139	0.2329		13.6	12.5	8.9	30.0
Chlorobenzilate	Ave	0.5306	0.5467		12.9	12.5	3.0	30.0
3,3'-Dimethylbenzidine	Ave	0.8906	0.6989		19.6	25.0	-21.5	30.0
Butylbenzylphthalate	Ave	0.7568	0.7778	0.0100	12.8	12.5	2.8	30.0
2-Acetylaminofluorene	Ave	0.5791	0.5795		12.5	12.5	0.0	30.0
3,3'-Dichlorobenzidine	Ave	0.4549	0.4424	0.0100	12.2	12.5	-2.8	30.0
4,4'-Methylene bis(2-chloroaniline)	Ave	0.2379	0.2444			12.5	2.7	30.0
Benzo[a]anthracene	Ave	1.157	1.181	0.8000	12.8	12.5	2.0	30.0
Chrysene	Ave	1.159	1.100	0.7000	11.9	12.5	-5.1	30.0
Bis(2-ethylhexyl) phthalate	Ave	1.139	1.142	0.0100	12.5	12.5	0.3	30.0
6-Methylchrysene	Ave	0.8047	0.7676		11.9	12.5	-4.6	30.0
Di-n-octyl phthalate	Ave	2.105	2.157	0.0100	12.8	12.5	2.4	30.0
Benzo[b]fluoranthene	Ave	1.278	1.291	0.7000	12.6	12.5	1.0	30.0
7,12-Dimethylbenz(a)anthracene	Ave	0.5383	0.5606		13.0	12.5	4.2	30.0
Benzo[k]fluoranthene	Ave	1.229	1.233	0.7000	12.5	12.5	0.3	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1

SDG No.:

Lab Sample ID: ICV 410-22758/12 Calibration Date: 07/15/2020 18:18

Instrument ID: HP20296 Calib Start Date: 07/15/2020 13:18

GC Column: DB-5MS 20m 0.18 ID: 0.18(mm) Calib End Date: 07/15/2020 16:51

Lab File ID: LG0661.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[a]pyrene	Ave	1.192	1.173	0.7000	12.3	12.5	-1.6	30.0
3-Methylcholanthrene	Ave	0.5892	0.6424		13.6	12.5	9.0	30.0
Dibenz[a,h]acridine	Ave	0.9203	0.9873		13.4	12.5	7.3	30.0
Dibenz[a,j]acridine	Ave	0.9402	0.9320		12.4	12.5	-0.9	30.0
Indeno[1,2,3-cd]pyrene	Ave	1.110	1.065	0.5000	12.0	12.5	-4.1	30.0
Dibenz(a,h)anthracene	Ave	1.113	1.149	0.4000	12.9	12.5	3.2	30.0
Benzo[g,h,i]perylene	Ave	1.129	1.089	0.5000	12.1	12.5	-3.5	30.0
2,4-Dimethylphenol	Ave	0.4248		0.2000		12.5		30.0
Hexachlorocyclopentadiene	Ave	0.3667		0.0500		25.0		30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0661.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 15-Jul-2020 18:18:37 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 410-0005639-012
Operator ID: lmh00956 Instrument ID: HP20296
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 24-Jul-2020 17:32:48 Calib Date: 15-Jul-2020 16:51:20
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0658.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1027

First Level Reviewer: transuea Date: 24-Jul-2020 17:32:48

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	2.756	2.740	0.016	91	321072	12.5	13.4	
2 N-Nitrosodimethylamine	74	3.264	3.248	0.016	88	477187	12.5	12.9	
3 Pyridine	79	3.296	3.286	0.010	97	754375	12.5	11.5	
5 2-Picoline	93	4.430	4.425	0.005	93	856468	12.5	11.3	
6 N-Nitrosomethylethylamine	88	4.617	4.607	0.010	85	334971	12.5	11.0	
9 Methyl methanesulfonate	80	5.061	5.051	0.010	84	475464	12.5	14.1	
11 N-Nitrosodiethylamine	102	5.639	5.628	0.011	92	371904	12.5	12.7	
13 Ethyl methanesulfonate	109	6.088	6.078	0.010	97	413876	12.5	12.7	
17 Phenol	94	6.687	6.677	0.010	97	1117430	12.5	12.5	
18 Aniline	93	6.719	6.719	0.000	98	1220692	12.5	11.2	
19 Bis(2-chloroethyl)ether	93	6.832	6.832	0.000	96	905882	12.5	12.4	
20 2-Chlorophenol	128	6.891	6.885	0.006	96	773148	12.5	13.0	
22 1,3-Dichlorobenzene	146	7.126	7.121	0.005	94	787285	12.5	12.3	
* 24 1,4-Dichlorobenzene-d4	152	7.217	7.212	0.005	96	193397	5.00	5.00	
25 1,4-Dichlorobenzene	146	7.244	7.238	0.006	92	832476	12.5	12.9	
27 Benzyl alcohol	108	7.431	7.420	0.011	92	589877	12.5	13.0	
29 1,2-Dichlorobenzene	146	7.468	7.463	0.005	94	793150	12.5	12.9	
30 Indene	115	7.607	7.602	0.005	88	1498637	12.5	16.1	
31 2-Methylphenol	108	7.607	7.602	0.005	96	799511	12.5	13.3	
32 2,2'-oxybis[1-chloropropane]	45	7.661	7.650	0.011	94	1011248	12.5	12.2	
34 N-Nitrosopyrrolidine	100	7.800	7.789	0.011	95	468769	12.5	14.0	
35 Acetophenone	105	7.837	7.832	0.005	92	1255934	12.5	12.8	
36 4-Methylphenol	108	7.848	7.837	0.011	95	825250	12.5	13.0	
37 N-Nitrosodi-n-propylamine	70	7.853	7.848	0.005	76	724664	12.5	13.2	
38 N-Nitrosomorpholine	56	7.869	7.859	0.010	89	492940	12.5	13.3	
39 2-Toluidine	106	7.891	7.885	0.006	94	1343949	12.5	12.6	
40 Hexachloroethane	117	7.992	7.987	0.005	95	375084	12.5	12.8	
42 Nitrobenzene	77	8.094	8.089	0.005	85	1032902	12.5	12.0	
44 N-Nitrosopiperidine	114	8.329	8.324	0.005	88	408189	12.5	12.4	
46 Isophorone	82	8.479	8.474	0.005	98	1841520	12.5	12.1	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	47 2-Nitrophenol	139	8.591	8.592	-0.001	97	382211	12.5	12.3	
	48 2,4-Dimethylphenol	107		8.677				ND	ND	U
	49 o,o',o''-Triethylphosphorothioat	198	8.811	8.805	0.006	93	326618	12.5	13.1	
	50 Benzoic acid	105	8.886	8.816	0.070	86	1405189	25.0	29.7	M
	51 Bis(2-chloroethoxy)methane	93	8.843	8.843	0.000	99	1189819	12.5	12.2	
	52 2,4-Dichlorophenol	162	8.971	8.971	0.000	96	613735	12.5	12.8	
	54 1,2,4-Trichlorobenzene	180	9.110	9.110	0.000	93	618944	12.5	12.5	
*	55 Naphthalene-d8	136	9.196	9.196	0.000	100	836487	5.00	5.00	
	56 Naphthalene	128	9.233	9.228	0.005	98	2306914	12.5	12.2	
	57 4-Chloroaniline	127	9.330	9.324	0.006	95	911414	12.5	12.1	
	58 2,6-Dichlorophenol	162	9.340	9.335	0.005	93	596033	12.5	12.8	
	59 Hexachloropropene	213	9.383	9.383	0.000	93	424607	12.5	14.3	
	60 Hexachlorobutadiene	225	9.453	9.447	0.006	96	330872	12.5	12.7	
S	63 Diallate	86				0		12.5	12.1	
	62 Quinoline	129	9.774	9.763	0.011	95	1438041	12.5	12.3	
	65 N-Nitrosodi-n-butylamine	84	9.902	9.902	0.000	89	706901	12.5	11.7	
	66 4-Chloro-3-methylphenol	107	10.127	10.127	0.000	93	786240	12.5	12.6	
	67 Safrole, Total	162	10.239	10.234	0.005	83	537586	12.5	12.7	
	69 2-Methylnaphthalene	142	10.362	10.357	0.005	94	1482595	12.5	12.4	
	70 1-Methylnaphthalene	142	10.517	10.517	0.000	91	1330086	12.5	11.7	
	71 Hexachlorocyclopentadiene	237		10.624				ND	ND	U
	72 1,2,4,5-Tetrachlorobenzene	216	10.635	10.629	0.006	97	557881	12.5	12.7	
	73 Isosafrole Peak 1	162	10.715	10.715	0.000	84	72071	1.50	1.45	
	74 2,4,6-Trichlorophenol	196	10.822	10.822	0.000	92	403694	12.5	12.8	
	75 2,4,5-Trichlorophenol	196	10.870	10.870	0.000	89	418644	12.5	12.6	
	77 Isosafrole Peak 2	162	11.084	11.084	0.000	88	605158	11.0	11.5	
	79 1,1'-Biphenyl	154	11.132	11.132	0.000	96	1763232	12.5	12.6	
	80 2-Chloronaphthalene	162	11.148	11.148	0.000	99	1340470	12.5	12.1	
	81 1-Chloronaphthalene	162	11.180	11.180	0.000	95	1277597	12.5	13.0	
	82 Phenyl ether	170	11.314	11.314	0.000	87	889562	12.5	12.7	
	83 2-Nitroaniline	138	11.325	11.319	0.006	78	484751	12.5	12.8	
	84 1,4-Naphthoquinone	158	11.442	11.437	0.005	80	723607	15.6	16.0	
	85 1,4-Dinitrobenzene	168	11.555	11.549	0.006	84	219874	12.5	13.1	
	86 Dimethyl phthalate	163	11.651	11.640	0.011	96	1435885	12.5	11.7	
	87 1,3-Dinitrobenzene	168	11.667	11.656	0.011	83	241254	12.5	12.8	
	88 2,6-Dinitrotoluene	165	11.720	11.715	0.005	87	334054	12.5	12.4	
	90 Acenaphthylene	152	11.795	11.795	0.000	99	1961531	12.5	12.4	
	91 3-Nitroaniline	138	11.950	11.940	0.010	93	424734	12.5	13.4	
*	92 Acenaphthene-d10	164	11.999	11.999	0.000	97	387619	5.00	5.00	
	93 Acenaphthene	153	12.047	12.041	0.006	98	1471252	12.5	12.5	
	94 2,4-Dinitrophenol	184	12.100	12.090	0.010	80	399477	25.0	27.6	
	96 4-Nitrophenol	109	12.191	12.180	0.011	92	280986	12.5	12.1	
	98 Pentachlorobenzene	250	12.223	12.223	0.000	96	485666	12.5	12.9	
	99 2,4-Dinitrotoluene	165	12.277	12.271	0.006	83	462068	12.5	12.5	
	100 Dibenzofuran	168	12.282	12.277	0.005	96	1870186	12.5	12.7	
	101 1-Naphthylamine	143	12.384	12.378	0.006	98	2561172	25.0	21.5	
	102 2,3,4,6-Tetrachlorophenol	232	12.442	12.437	0.005	82	319537	12.5	13.4	
	103 2-Naphthylamine	143	12.485	12.480	0.005	95	2440928	25.0	20.5	
	104 Diethyl phthalate	149	12.614	12.608	0.006	97	1580691	12.5	12.2	
	106 Thionazin	107	12.710	12.705	0.005	76	309740	12.5	12.0	
	105 Fluorene	166	12.715	12.715	0.000	91	1502440	12.5	12.3	
	107 N-Nitro-o-toluidine	152	12.742	12.731	0.011	85	459237	12.5	12.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
108 4-Chlorophenyl phenyl ether	204	12.737	12.737	0.000	91	626800	12.5	12.4	
109 4-Nitroaniline	138	12.747	12.737	0.010	82	430514	12.5	12.4	
110 4,6-Dinitro-2-methylphenol	198	12.790	12.785	0.005	73	227825	12.5	12.2	
111 N-Nitrosodiphenylamine	169	12.881	12.881	0.000	64	1232535	12.5	11.8	
112 1,2-Diphenylhydrazine	77	12.935	12.929	0.006	42	2207928	12.5	12.3	
114 Sulfotepp	97	13.111	13.111	0.000	78	360677	12.5	12.1	
115 cis-Diallate	86	13.266	13.266	0.000	90	659347	9.38	9.03	
116 Phorate	75	13.277	13.272	0.005	95	1395497	12.5	12.4	
117 Phenacetin	108	13.293	13.282	0.011	90	1059986	12.5	12.8	
118 4-Bromophenyl phenyl ether	248	13.357	13.357	0.000	74	324808	12.5	11.1	
119 trans-Diallate	86	13.379	13.379	-0.001	95	226394	3.13	3.04	
120 Hexachlorobenzene	284	13.421	13.416	0.005	91	391525	12.5	12.3	
121 Dimethoate	87	13.485	13.480	0.005	97	921781	12.5	12.4	
123 Pentachlorophenol	266	13.683	13.678	0.005	87	265685	12.5	12.7	
124 4-Aminobiphenyl	169	13.694	13.689	0.005	91	1718221	12.5	17.4	
125 Pentachloronitrobenzene	237	13.699	13.699	0.000	83	183913	12.5	12.3	
126 Pronamide	173	13.785	13.785	0.000	90	767193	12.5	12.7	
* 127 Phenanthrene-d10	188	13.935	13.935	0.000	96	750735	5.00	5.00	
128 Dinoseb	211	13.940	13.940	0.000	91	366297	12.5	13.4	
129 Phenanthrene	178	13.967	13.967	0.000	97	2195510	12.5	12.0	
130 Anthracene	178	14.036	14.036	0.000	99	2230855	12.5	12.0	
131 Carbazole	167	14.261	14.256	0.005	96	2179187	12.5	12.6	
132 Methyl parathion	109	14.464	14.459	0.005	89	754697	12.5	12.8	
133 Di-n-butyl phthalate	149	14.791	14.775	0.016	100	3000441	12.5	12.1	
134 Ethyl Parathion	109	15.037	15.031	0.006	82	470582	12.5	13.1	
135 4-Nitroquinoline-1-oxide	190	15.095	15.053	0.042	85	3727107	150.0	169.6	E
136 Octachlorostyrene	308	15.406	15.406	0.000	92	169182	12.5	11.3	
137 Isodrin	193	15.470	15.465	0.006	86	260612	12.5	11.9	
138 Fluoranthene	202	15.700	15.694	0.006	99	2298029	12.5	12.2	
139 Benzidine	184	15.935	15.919	0.016	99	6953953	62.5	51.0	
* 140 Pyrene-d10 (IS)	212	16.026	16.021	0.005	98	722807	5.00	5.00	
141 Pyrene	202	16.058	16.053	0.005	95	2357501	12.5	11.7	
143 p-Dimethylamino azobenzene	225	16.572	16.566	0.006	89	420802	12.5	13.6	
144 Chlorobenzilate	139	16.657	16.657	0.000	80	987873	12.5	12.9	
145 3,3'-Dimethylbenzidine	212	17.149	17.144	0.005	99	2525891	25.0	19.6	
146 Butyl benzyl phthalate	149	17.197	17.197	0.000	94	1405495	12.5	12.8	
147 2-Acetylaminofluorene	181	17.588	17.577	0.011	93	1047177	12.5	12.5	
148 3,3'-Dichlorobenzidine	252	18.107	18.101	0.006	77	799372	12.5	12.2	
150 4,4'-Methylene bis(2-chloroanil	231	18.123	18.117	0.006	91	441628	12.5	12.8	
149 Benzo[a]anthracene	228	18.128	18.123	0.005	98	2134019	12.5	12.8	
151 Chrysene	228	18.192	18.187	0.005	96	1988483	12.5	11.9	
152 Bis(2-ethylhexyl) phthalate	149	18.283	18.283	0.000	97	2063361	12.5	12.5	
153 6-Methylchrysene	242	19.005	19.005	0.000	98	1387124	12.5	11.9	
154 Di-n-octyl phthalate	149	19.460	19.465	-0.005	99	3559291	12.5	12.8	
155 Benzo[b]fluoranthene	252	20.022	20.016	0.006	98	2130246	12.5	12.6	
156 7,12-Dimethylbenz(a)anthracene	256	20.027	20.016	0.011	89	925310	12.5	13.0	
157 Benzo[k]fluoranthene	252	20.075	20.070	0.005	97	2034517	12.5	12.5	
158 Benzo[a]pyrene	252	20.556	20.556	0.000	82	1936279	12.5	12.3	
* 159 Perylene-d12	264	20.647	20.647	0.000	95	660190	5.00	5.00	
160 3-Methylcholanthrene	268	21.134	21.134	0.000	94	1060258	12.5	13.6	
161 Dibenz[a,h]acridine	279	21.979	21.974	0.005	92	1629547	12.5	13.4	
162 Dibenz[a,j]acridine	279	22.059	22.054	0.005	95	1538229	12.5	12.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
163 Indeno[1,2,3-cd]pyrene	276	22.348	22.343	0.005	96	1757773	12.5	12.0	M
164 Dibenz(a,h)anthracene	278	22.386	22.386	0.000	95	1896075	12.5	12.9	
165 Benzo[g,h,i]perylene	276	22.797	22.792	0.005	93	1798079	12.5	12.1	
S 166 Isosafrole	162				0		12.5	12.9	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

MSS_RV8270ICV_00004 Amount Added: 1.00 Units: mL

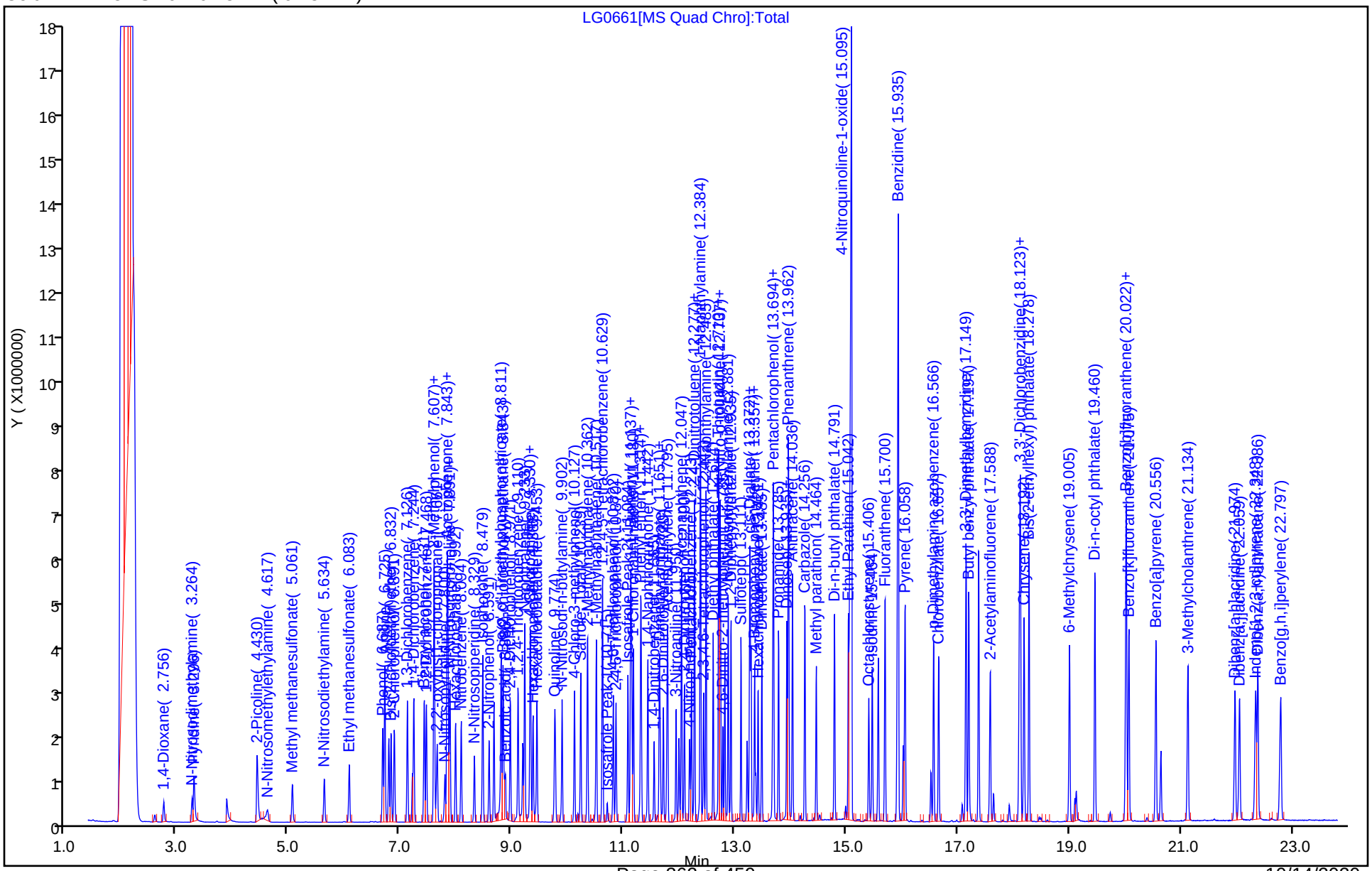
Report Date: 24-Jul-2020 17:41:07 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0661.D

Injection Date:	15-Jul-2020 18:18:37	Instrument ID:	HP20296	Operator ID:	lmh00956
Lims ID:	ICV			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

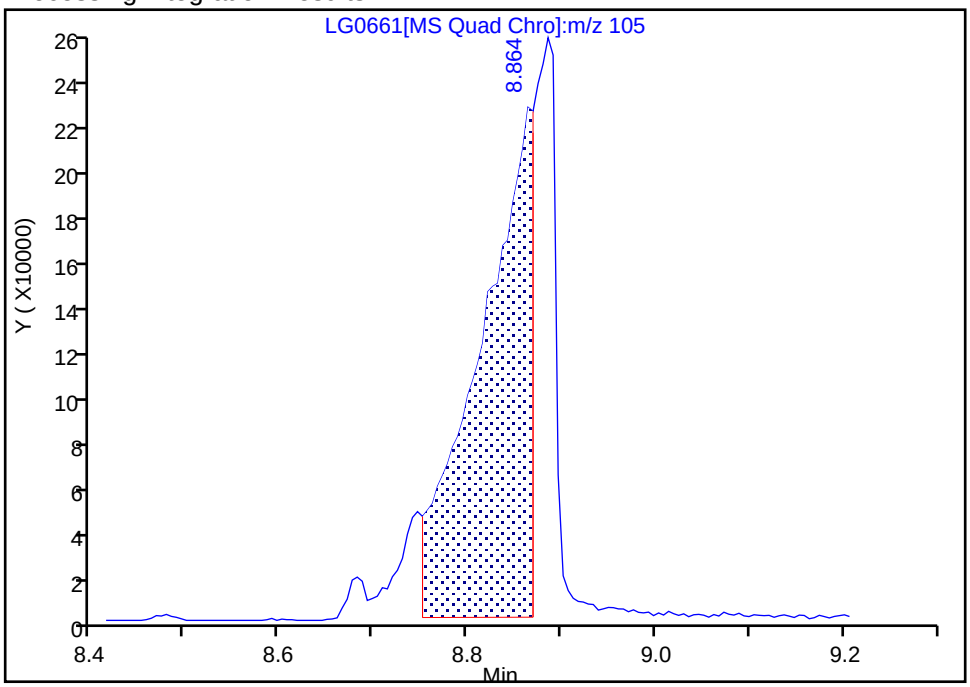
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0661.D				
Injection Date:	15-Jul-2020 18:18:37	Instrument ID:	HP20296		
Lims ID:	ICV				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

50 Benzoic acid, CAS: 65-85-0

Signal: 1

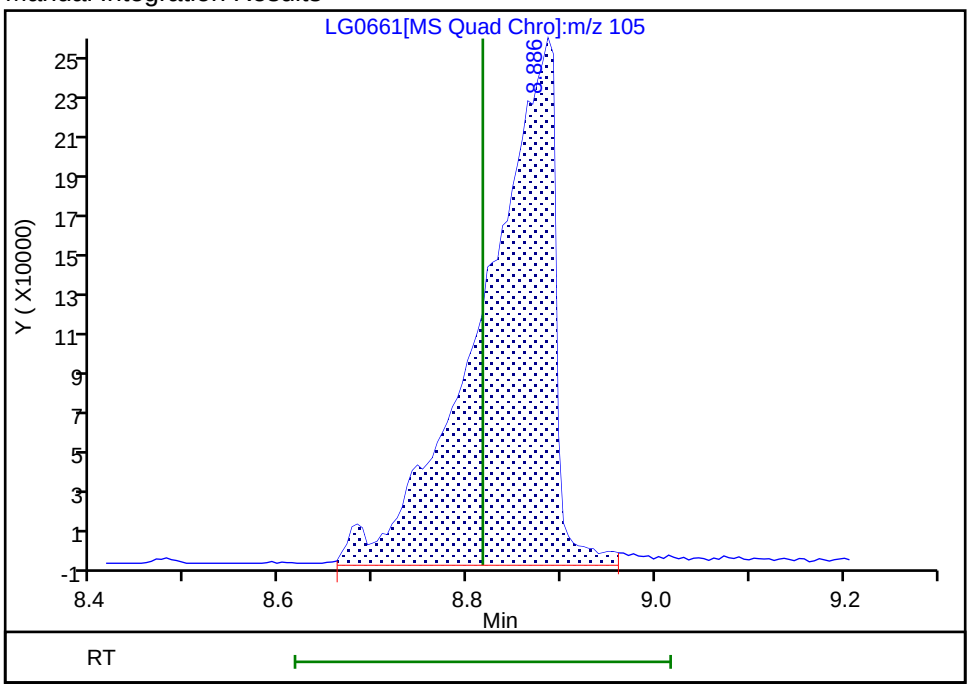
Processing Integration Results

RT: 8.86
Area: 859760
Amount: 18.182815
Amount Units: ug/ml



Manual Integration Results

RT: 8.89
Area: 1405189
Amount: 29.717934
Amount Units: ug/ml



Reviewer: transuea, 15-Jul-2020 19:11:25

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

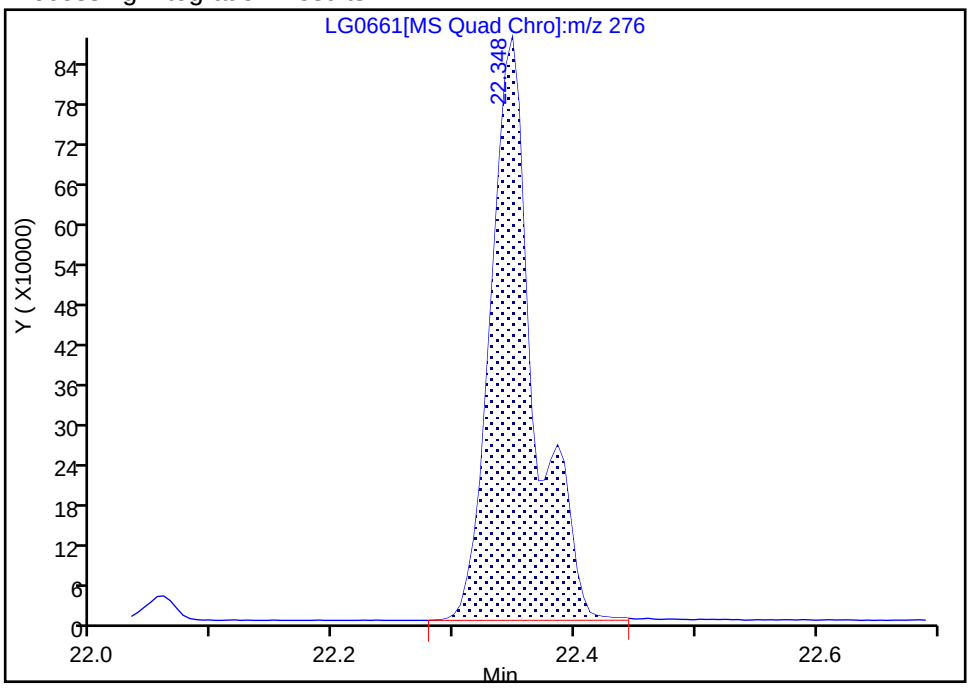
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0661.D				
Injection Date:	15-Jul-2020 18:18:37	Instrument ID:	HP20296		
Lims ID:	ICV				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

163 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

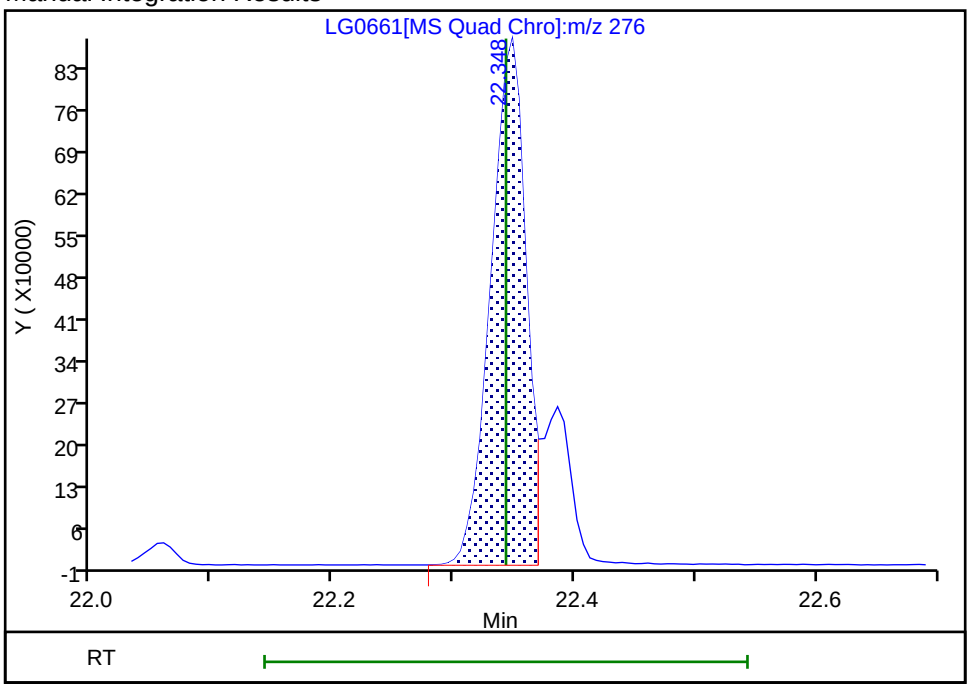
Processing Integration Results

RT: 22.35
Area: 2191950
Amount: 14.950305
Amount Units: ug/ml



Manual Integration Results

RT: 22.35
Area: 1757773
Amount: 11.988979
Amount Units: ug/ml



Reviewer: transuea, 15-Jul-2020 19:13:59

Audit Action: Manually Integrated Audit Reason: Baseline

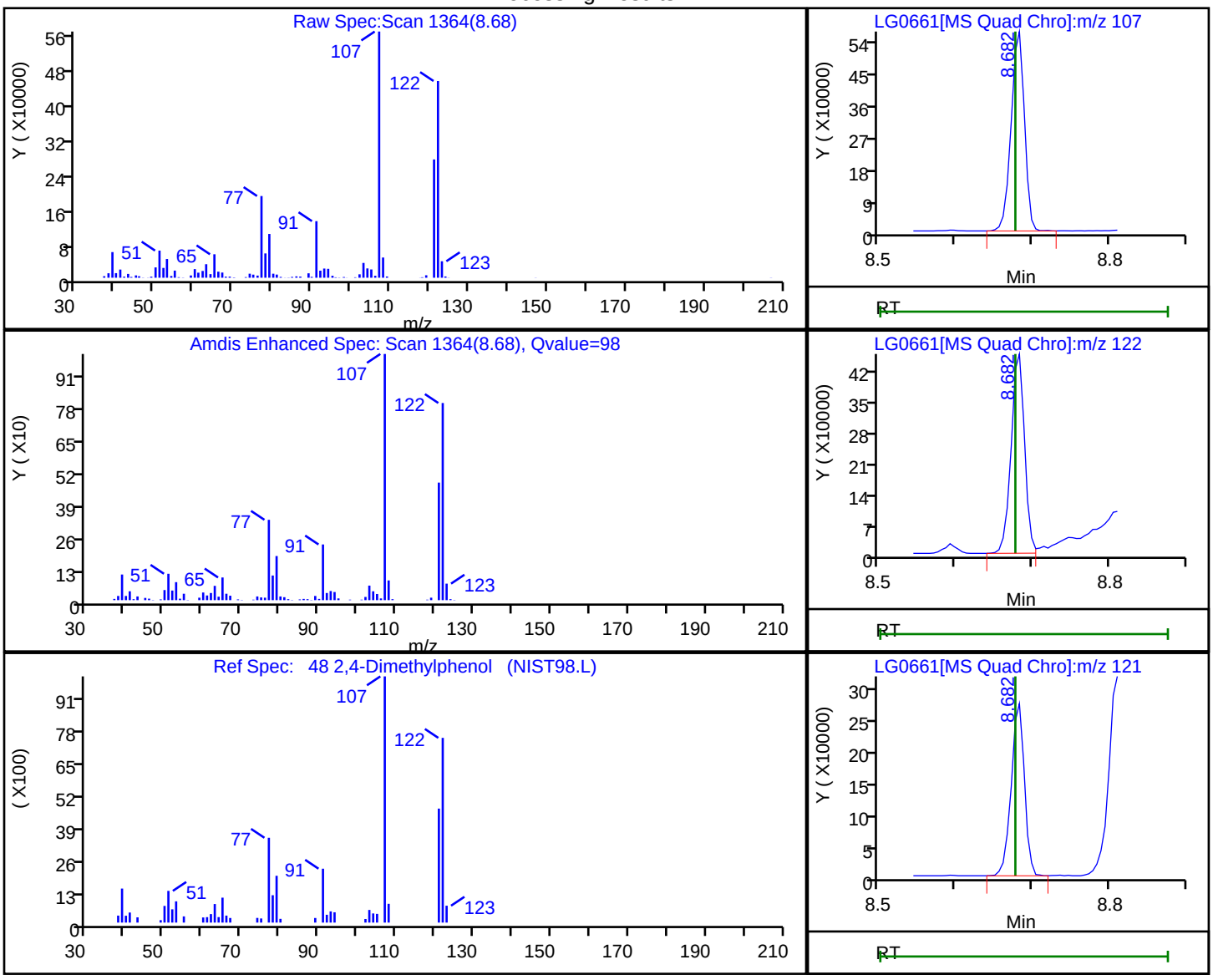
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0661.D				
Injection Date:	15-Jul-2020 18:18:37	Instrument ID:	HP20296		
Lims ID:	ICV				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

48 2,4-Dimethylphenol, CAS: 105-67-9

Processing Results



RT	Mass	Response	Amount
8.68	107.00	691680	9.733606
8.68	122.00	556258	
8.68	121.00	330203	

Reviewer: transuea, 24-Jul-2020 17:32:39

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

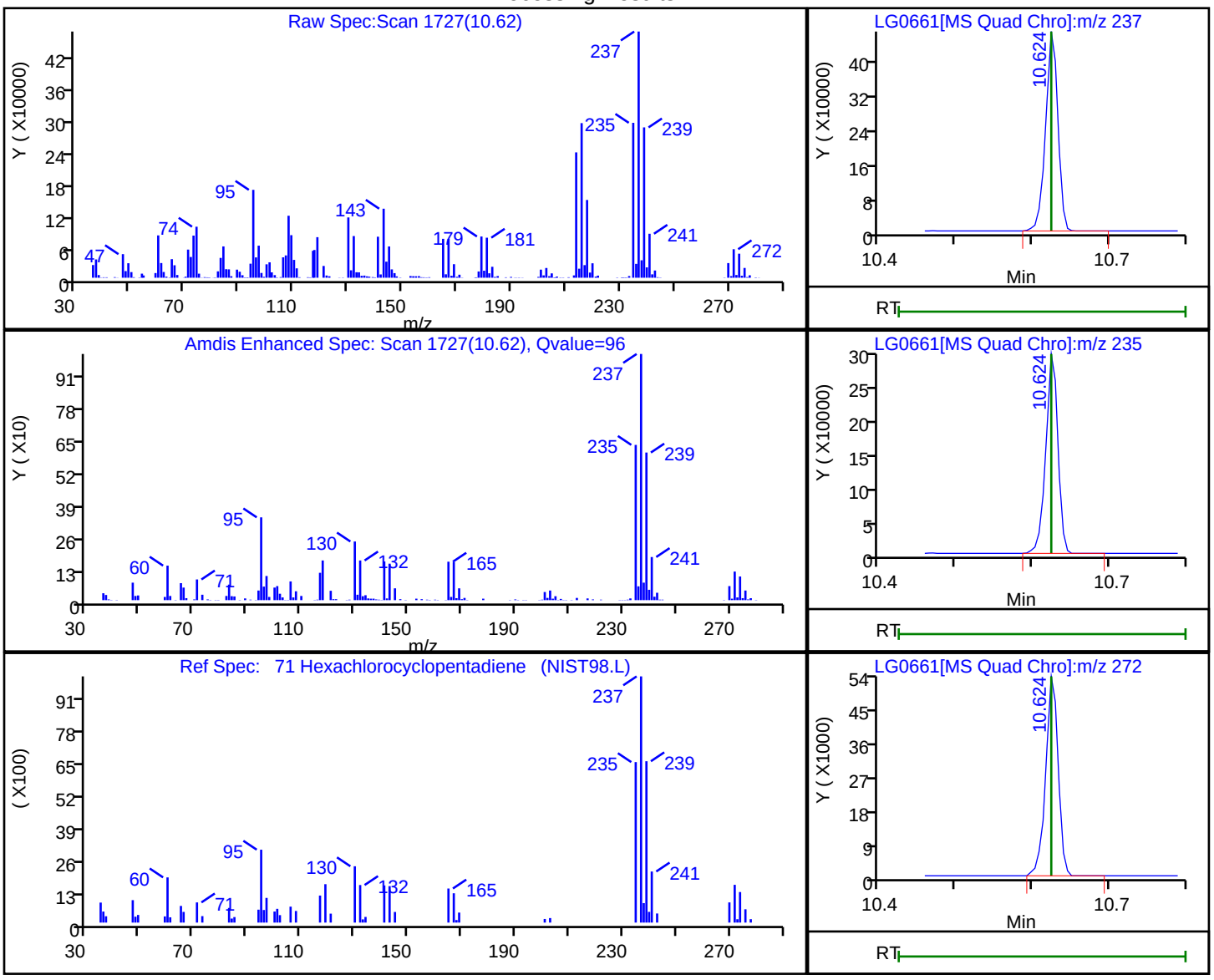
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0661.D				
Injection Date:	15-Jul-2020 18:18:37	Instrument ID:	HP20296		
Lims ID:	ICV				
Client ID:					
Operator ID:	lmh00956	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

71 Hexachlorocyclopentadiene, CAS: 77-47-4

Processing Results



RT	Mass	Response	Amount
10.62	237.00	520322	18.303957
10.62	235.00	323338	
10.62	272.00	61386	

Reviewer: transuea, 24-Jul-2020 17:31:58

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.: 410-15639-1

SDG No.:

Lab Sample ID: CCVIS 410-51485/2 Calibration Date: 10/06/2020 18:15

Instrument ID: HP20296 Calib Start Date: 07/15/2020 13:18

GC Column: DB-5MS 20m 0.18 ID: 0.18(mm) Calib End Date: 07/15/2020 16:51

Lab File ID: LJ0151.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6196	0.7170		8.68	7.50	15.7	20.0
N-Nitrosodimethylamine	Ave	0.9584	1.236		9.68	7.50	29.0*	20.0
Pyridine	Ave	1.698	1.958		8.64	7.50	15.3	20.0
2-Picoline	Ave	1.963	1.829		6.99	7.50	-6.8	20.0
N-Nitrosomethylethylamine	Ave	0.7877	0.9077		8.64	7.50	15.2	20.0
Methyl methanesulfonate	Ave	0.8742	1.100		9.44	7.50	25.8*	20.0
N-Nitrosodiethylamine	Ave	0.7600	0.8381		8.27	7.50	10.3	20.0
Ethyl methanesulfonate	Ave	0.8433	0.8888		7.90	7.50	5.4	20.0
Benzaldehyde	Ave	1.517	1.867	0.0100	9.23	7.50	23.0*	20.0
Aniline	Ave	2.815	3.058		8.15	7.50	8.7	20.0
Phenol	Ave	2.309	2.622	0.8000	8.52	7.50	13.5	20.0
Bis(2-chloroethyl)ether	Ave	1.896	2.057	0.7000	8.14	7.50	8.5	20.0
2-Chlorophenol	Ave	1.539	1.586	0.8000	7.73	7.50	3.0	20.0
1,3-Dichlorobenzene	Ave	1.649	1.611		7.33	7.50	-2.3	20.0
1,4-Dichlorobenzene	Ave	1.672	1.618		7.26	7.50	-3.3	20.0
Benzyl alcohol	Ave	1.175	1.155		7.37	7.50	-1.7	20.0
1,2-Dichlorobenzene	Ave	1.585	1.539		7.28	7.50	-2.9	20.0
Indene	Ave	2.407	2.683		8.36	7.50	11.5	20.0
2-Methylphenol	Ave	1.557	1.635	0.7000	7.88	7.50	5.1	20.0
2,2'-oxybis[1-chloropropane]	Ave	2.142	2.655	0.0100	9.30	7.50	24.0*	20.0
N-Nitrosopyrrolidine	Ave	0.8657	0.9199		7.97	7.50	6.3	20.0
Acetophenone	Ave	2.532	2.791	0.0100	8.27	7.50	10.2	20.0
N-Nitrosodi-n-propylamine	Ave	1.415	1.561	0.5000	8.27	7.50	10.3	20.0
N-Nitrosomorpholine	Ave	0.9603	1.264		9.87	7.50	31.6*	20.0
4-Methylphenol (and/or 3-Methylphenol)	Ave	1.641	1.846	0.6000	8.44	7.50	12.5	20.0
o-Toluidine	Ave	2.763	2.903		7.88	7.50	5.1	20.0
Hexachloroethane	Ave	0.7584	0.8046	0.3000	7.96	7.50	6.1	20.0
Nitrobenzene	Ave	0.5138	0.5790	0.2000	8.45	7.50	12.7	20.0
N-Nitrosopiperidine	Ave	0.1971	0.1924		7.32	7.50	-2.3	20.0
Isophorone	Ave	0.9080	0.9692	0.4000	8.01	7.50	6.7	20.0
2-Nitrophenol	Ave	0.1851	0.1799	0.1000	7.29	7.50	-2.8	20.0
2,4-Dimethylphenol	Ave	0.4248	0.4469	0.2000	7.89	7.50	5.2	20.0
o,o',o''-Triethylphosphorothioate	Ave	0.1492	0.1301		6.54	7.50	-12.8	20.0
Bis(2-chloroethoxy)methane	Ave	0.5817	0.5983	0.3000	7.71	7.50	2.8	20.0
Benzoic acid	Ave	0.2826	0.2668		9.44	10.0	-5.6	20.0
2,4-Dichlorophenol	Ave	0.2863	0.2803	0.2000	7.34	7.50	-2.1	20.0
1,2,4-Trichlorobenzene	Ave	0.2958	0.2825		7.16	7.50	-4.5	20.0
Naphthalene	Ave	1.131	1.099	0.7000	7.29	7.50	-2.8	20.0
4-Chloroaniline	Ave	0.4514	0.4424	0.0100	7.35	7.50	-2.0	20.0
2,6-Dichlorophenol	Ave	0.2778	0.2650		7.16	7.50	-4.6	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1

SDG No.:

Lab Sample ID: CCVIS 410-51485/2 Calibration Date: 10/06/2020 18:15

Instrument ID: HP20296 Calib Start Date: 07/15/2020 13:18

GC Column: DB-5MS 20m 0.18 ID: 0.18(mm) Calib End Date: 07/15/2020 16:51

Lab File ID: LJ0151.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Hexachloropropene	Ave	0.1771	0.1633		6.91	7.50	-7.8	20.0
Hexachlorobutadiene	Ave	0.1553	0.1429	0.0100	6.90	7.50	-8.0	20.0
Quinoline	Ave	0.6967	0.6579		7.08	7.50	-5.6	20.0
Caprolactam	Ave	0.1107	0.1187	0.0100	8.04	7.50	7.3	20.0
N-Nitrosodi-n-butylamine	Ave	0.3623	0.3894		8.06	7.50	7.5	20.0
4-Chloro-3-methylphenol	Ave	0.3717	0.3750	0.2000	7.57	7.50	0.9	20.0
Safrole, Total	Ave	0.2533	0.2439		7.22	7.50	-3.7	20.0
2-Methylnaphthalene	Ave	0.7160	0.6693	0.4000	7.01	7.50	-6.5	20.0
1-Methylnaphthalene	Ave	0.6803	0.6365		7.02	7.50	-6.4	20.0
Hexachlorocyclopentadiene	Ave	0.3667	0.2745	0.0500	5.61	7.50	-25.2*	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5652	0.5495	0.0100	7.29	7.50	-2.8	20.0
Isosafrole Peak 1	Ave	0.6427	0.6018		1.12	1.20	-6.4	20.0
2,4,6-Trichlorophenol	Ave	0.4053	0.3790	0.2000	7.01	7.50	-6.5	20.0
2,4,5-Trichlorophenol	Ave	0.4289	0.4164	0.2000	7.28	7.50	-2.9	20.0
Isosafrole Peak 2	Ave	0.6789	0.6966		6.46	6.30	2.6	20.0
1,1'-Biphenyl	Ave	1.809	1.883	0.0100	7.81	7.50	4.1	20.0
2-Chloronaphthalene	Ave	1.427	1.346	0.8000	7.08	7.50	-5.6	20.0
1-Chloronaphthalene	Ave	1.269	1.273		7.53	7.50	0.4	20.0
Diphenyl ether	Ave	0.9023	0.8844		7.35	7.50	-2.0	20.0
2-Nitroaniline	Ave	0.4881	0.4720	0.0100	7.25	7.50	-3.3	20.0
1,4-Naphthoquinone	Ave	0.5828	0.5439		7.00	7.50	-6.7	20.0
1,4-Dinitrobenzene	Ave	0.2158	0.1913		6.65	7.50	-11.3	20.0
Dimethyl phthalate	Ave	1.578	1.502	0.0100	7.14	7.50	-4.8	20.0
1,3-Dinitrobenzene	Ave	0.2439	0.2192		6.74	7.50	-10.1	20.0
2,6-Dinitrotoluene	Ave	0.3468	0.3345	0.2000	7.23	7.50	-3.5	20.0
Acenaphthylene	Ave	2.048	2.005	0.9000	7.34	7.50	-2.1	20.0
3-Nitroaniline	Ave	0.4085	0.3747	0.0100	6.88	7.50	-8.3	20.0
Acenaphthene	Ave	1.514	1.487	0.9000	7.37	7.50	-1.8	20.0
2,4-Dinitrophenol	Ave	0.1870	0.1661	0.0100	8.88	10.0	-11.2	20.0
Pentachlorobenzene	Ave	0.4875	0.4564		7.02	7.50	-6.4	20.0
4-Nitrophenol	Ave	0.2985	0.3531	0.0100	8.87	7.50	18.3	20.0
Dibenzofuran	Ave	1.904	1.788	0.8000	7.04	7.50	-6.1	20.0
2,4-Dinitrotoluene	Ave	0.4764	0.4438	0.2000	6.99	7.50	-6.8	20.0
1-Naphthylamine	Ave	1.534	1.464		7.16	7.50	-4.6	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3072	0.2685	0.0100	6.56	7.50	-12.6	20.0
2-Naphthylamine	Ave	1.535	1.402		6.85	7.50	-8.7	20.0
Diethyl phthalate	Ave	1.665	1.604	0.0100	7.23	7.50	-3.6	20.0
Fluorene	Ave	1.582	1.478	0.9000	7.01	7.50	-6.6	20.0
Thionazin	Ave	0.3340	0.3182		7.15	7.50	-4.7	20.0
4-Chlorophenyl-phenyl ether	Ave	0.6507	0.5980	0.4000	6.89	7.50	-8.1	20.0
5-Nitro-o-toluidine	Ave	0.4603	0.4347		7.08	7.50	-5.6	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1

SDG No.:

Lab Sample ID: CCVIS 410-51485/2 Calibration Date: 10/06/2020 18:15

Instrument ID: HP20296 Calib Start Date: 07/15/2020 13:18

GC Column: DB-5MS 20m 0.18 ID: 0.18(mm) Calib End Date: 07/15/2020 16:51

Lab File ID: LJ0151.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Nitroaniline	Ave	0.4475	0.4029	0.0100	6.75	7.50	-10.0	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1241	0.1169	0.0100	7.06	7.50	-5.8	20.0
N-Nitrosodiphenylamine	Ave	0.6965	0.7154	0.0100	7.70	7.50	2.7	20.0
1,2-Diphenylhydrazine	Ave	1.197	1.522		9.54	7.50	27.2*	20.0
Sulfotepp	Ave	0.1990	0.2490		9.39	7.50	25.1*	20.0
cis-Diallate	Ave	0.4862	0.5517		6.30	5.55	13.5	20.0
Phorate	Ave	0.7514	0.9009		8.99	7.50	19.9	20.0
Phenacetin	Ave	0.5534	0.6299		8.54	7.50	13.8	20.0
4-Bromophenyl-phenylether	Ave	0.1947	0.1863	0.1000	7.17	7.50	-4.4	20.0
trans-Diallate	Ave	0.4964	0.5802		2.28	1.95	16.9	20.0
Hexachlorobenzene	Ave	0.2125	0.2110	0.1000	7.45	7.50	-0.7	20.0
Dimethoate	Ave	0.4957	0.5675		8.59	7.50	14.5	20.0
Atrazine	Ave	0.2082	0.2181	0.0100	7.86	7.50	4.8	20.0
Pentachlorophenol	Ave	0.1397	0.1171	0.0500	6.29	7.50	-16.2	20.0
4-Aminobiphenyl	Ave	0.6595	0.6797		7.73	7.50	3.1	20.0
Pentachloronitrobenzene	Ave	0.0993	0.1053		7.95	7.50	6.0	20.0
Pronamide	Ave	0.4029	0.4207		7.83	7.50	4.4	20.0
Dinoseb	Ave	0.1820	0.1650		6.80	7.50	-9.3	20.0
Phenanthrene	Ave	1.216	1.190	0.7000	7.34	7.50	-2.2	20.0
Anthracene	Ave	1.233	1.250	0.7000	7.60	7.50	1.4	20.0
Carbazole	Ave	1.156	1.159	0.0100	7.52	7.50	0.3	20.0
Methyl parathion	Ave	0.3920	0.4258		8.15	7.50	8.6	20.0
Di-n-butyl phthalate	Ave	1.651	1.675	0.0100	7.61	7.50	1.5	20.0
Parathion	Ave	0.2387	0.2660		8.36	7.50	11.4	20.0
4-Nitroquinoline-1-oxide	Ave	0.1464	0.0764			7.50	-47.8*	20.0
Octachlorostyrene	Ave	0.0997	0.1036		7.79	7.50	3.9	20.0
Isodrin	Ave	0.1461	0.1349		6.93	7.50	-7.6	20.0
Fluoranthene	Ave	1.251	1.238	0.6000	7.42	7.50	-1.0	20.0
Benzidine	Ave	0.9427	0.8870		21.2	22.5	-5.9	20.0
Pyrene	Ave	1.390	1.367	0.6000	7.38	7.50	-1.6	20.0
p-Dimethylamino azobenzene	Ave	0.2139	0.2077		7.28	7.50	-2.9	20.0
Chlorobenzilate	Ave	0.5306	0.5908		8.35	7.50	11.3	20.0
3,3'-Dimethylbenzidine	Ave	0.8906	0.8358		7.04	7.50	-6.2	20.0
Butylbenzylphthalate	Ave	0.7568	0.8287	0.0100	8.21	7.50	9.5	20.0
2-Acetylaminofluorene	Ave	0.5791	0.6098		7.90	7.50	5.3	20.0
3,3'-Dichlorobenzidine	Ave	0.4549	0.4265	0.0100	7.03	7.50	-6.2	20.0
Benzo[a]anthracene	Ave	1.157	1.148	0.8000	7.44	7.50	-0.8	20.0
4,4'-Methylene bis(2-chloroaniline)	Ave	0.2379	0.2387			7.50	0.4	20.0
Chrysene	Ave	1.159	1.108	0.7000	7.17	7.50	-4.4	20.0
Bis(2-ethylhexyl) phthalate	Ave	1.139	1.224	0.0100	8.06	7.50	7.4	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1

SDG No.:

Lab Sample ID: CCVIS 410-51485/2 Calibration Date: 10/06/2020 18:15

Instrument ID: HP20296 Calib Start Date: 07/15/2020 13:18

GC Column: DB-5MS 20m 0.18 ID: 0.18(mm) Calib End Date: 07/15/2020 16:51

Lab File ID: LJ0151.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
6-Methylchrysene	Ave	0.8047	0.7727		7.20	7.50	-4.0	20.0
Di-n-octyl phthalate	Ave	2.105	2.181	0.0100	7.77	7.50	3.6	20.0
7,12-Dimethylbenz(a)anthracene	Ave	0.5383	0.5137		7.16	7.50	-4.6	20.0
Benzo[b]fluoranthene	Ave	1.278	1.243	0.7000	7.30	7.50	-2.7	20.0
Benzo[k]fluoranthene	Ave	1.229	1.205	0.7000	7.35	7.50	-1.9	20.0
Benzo[a]pyrene	Ave	1.192	1.191	0.7000	7.50	7.50	-0.0	20.0
3-Methylcholanthrene	Ave	0.5892	0.5811		7.40	7.50	-1.4	20.0
Dibenz[a,h]acridine	Ave	0.9203	0.9656		7.87	7.50	4.9	20.0
Dibenz[a,j]acridine	Ave	0.9402	0.999		7.97	7.50	6.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.110	1.168	0.5000	7.89	7.50	5.2	20.0
Dibenz(a,h)anthracene	Ave	1.113	1.209	0.4000	8.15	7.50	8.7	20.0
Benzo[g,h,i]perylene	Ave	1.129	1.236	0.5000	8.22	7.50	9.5	20.0
2-Fluorophenol (Surr)	Ave	1.587	1.683		15.9	15.0	6.1	20.0
Phenol-d5 (Surr)	Ave	2.046	2.209		16.2	15.0	8.0	20.0
Nitrobenzene-d5 (Surr)	Ave	0.5061	0.5625		16.7	15.0	11.1	20.0
2-Fluorobiphenyl (Surr)	Ave	1.569	1.513		14.5	15.0	-3.5	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.1988	0.1878		14.2	15.0	-5.5	20.0
p-Terphenyl-d14 (Surr)	Ave	0.9044	0.8858		14.7	15.0	-2.1	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0151.D
Lims ID: CCVIS L5
Client ID:
Sample Type: CCVIS
Inject. Date: 06-Oct-2020 18:15:28 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS L5
Misc. Info.: 410-0012211-002
Operator ID: kel10217 Instrument ID: HP20296
Sublist: chrom-MSSemi_HP20296*sub6

Method: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 06-Oct-2020 23:00:58 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1014

First Level Reviewer: luttek Date: 06-Oct-2020 18:51:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.125	2.125	0.000	98	150635	7.50	8.68	
2 N-Nitrosodimethylamine	74	2.686	2.686	0.000	94	259768	7.50	9.68	
3 Pyridine	79	2.735	2.735	0.000	95	411276	7.50	8.64	
5 2-Picoline	93	3.922	3.922	0.000	94	384290	7.50	6.99	
6 N-Nitrosomethylethylamine	88	4.115	4.115	0.000	97	190699	7.50	8.64	M
9 Methyl methanesulfonate	80	4.575	4.575	0.000	87	231099	7.50	9.44	
$ 10 2-Fluorophenol	112	4.815	4.815	0.000	95	707346	15.0	15.9	
11 N-Nitrosodiethylamine	102	5.147	5.147	0.000	93	176090	7.50	8.27	
13 Ethyl methanesulfonate	109	5.623	5.623	0.000	97	186727	7.50	7.90	
15 Benzaldehyde	77	6.083	6.083	0.000	91	392259	7.50	9.23	
$ 16 Phenol-d5	99	6.227	6.227	0.000	95	928397	15.0	16.2	
18 Aniline	93	6.249	6.249	0.000	72	642562	7.50	8.15	
17 Phenol	94	6.249	6.249	0.000	80	550839	7.50	8.52	
19 Bis(2-chloroethyl)ether	93	6.366	6.366	0.000	94	432188	7.50	8.14	
20 2-Chlorophenol	128	6.414	6.414	0.000	92	333270	7.50	7.73	
22 1,3-Dichlorobenzene	146	6.644	6.644	0.000	91	338561	7.50	7.33	
* 24 1,4-Dichlorobenzene-d4	152	6.730	6.730	0.000	94	140063	5.00	5.00	
25 1,4-Dichlorobenzene	146	6.757	6.757	0.000	83	339892	7.50	7.26	
27 Benzyl alcohol	108	6.971	6.971	0.000	86	242717	7.50	7.37	
29 1,2-Dichlorobenzene	146	6.981	6.981	0.000	85	323329	7.50	7.28	
30 Indene	115	7.120	7.120	0.000	90	563602	7.50	8.36	
31 2-Methylphenol	108	7.163	7.163	0.000	97	343581	7.50	7.88	
32 2,2'-oxybis[1-chloropropane]	45	7.190	7.190	0.000	90	557808	7.50	9.30	
34 N-Nitrosopyrrolidine	100	7.334	7.334	0.000	85	193261	7.50	7.97	
35 Acetophenone	105	7.367	7.367	0.000	91	586331	7.50	8.27	
37 N-Nitrosodi-n-propylamine	70	7.388	7.388	0.000	86	328027	7.50	8.27	
38 N-Nitrosomorpholine	56	7.404	7.404	0.000	85	265568	7.50	9.87	
36 4-Methylphenol	108	7.409	7.409	0.000	85	387731	7.50	8.44	
39 2-Toluidine	106	7.420	7.420	0.000	95	609837	7.50	7.88	
40 Hexachloroethane	117	7.500	7.500	0.000	88	169036	7.50	7.96	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	7.591	7.591	0.000	91	967348	15.0	16.7	
42 Nitrobenzene	77	7.618	7.618	0.000	89	497913	7.50	8.45	
44 N-Nitrosopiperidine	114	7.859	7.859	0.000	79	165483	7.50	7.32	
46 Isophorone	82	8.008	8.008	0.000	99	833414	7.50	8.01	
47 2-Nitrophenol	139	8.121	8.121	0.000	86	154668	7.50	7.29	
48 2,4-Dimethylphenol	107	8.233	8.233	0.000	98	384299	7.50	7.89	
49 o,o',o''-Triethylphosphorothioat	198	8.345	8.345	0.000	93	111855	7.50	6.54	
51 Bis(2-chloroethoxy)methane	93	8.383	8.383	0.000	97	514455	7.50	7.71	
50 Benzoic acid	105	8.393	8.393	0.000	53	305853	10.0	9.44	M
52 2,4-Dichlorophenol	162	8.511	8.511	0.000	90	241067	7.50	7.34	
54 1,2,4-Trichlorobenzene	180	8.634	8.634	0.000	90	242882	7.50	7.16	
* 55 Naphthalene-d8	136	8.709	8.709	0.000	99	573269	5.00	5.00	
56 Naphthalene	128	8.746	8.746	0.000	98	945270	7.50	7.29	
57 4-Chloroaniline	127	8.859	8.859	0.000	92	380461	7.50	7.35	
58 2,6-Dichlorophenol	162	8.869	8.869	0.000	85	227903	7.50	7.16	
59 Hexachloropropene	213	8.896	8.896	0.000	92	140436	7.50	6.91	
S 53 Dinitrotoluene	165				0		15.0	14.2	
60 Hexachlorobutadiene	225	8.971	8.971	0.000	89	122873	7.50	6.90	
62 Quinoline	129	9.292	9.292	0.000	92	565688	7.50	7.08	
64 Caprolactam	113	9.410	9.410	0.000	76	102111	7.50	8.04	
65 N-Nitrosodi-n-butylamine	84	9.436	9.436	0.000	94	334857	7.50	8.06	
S 63 Diallate	86				0		7.50	8.58	
66 4-Chloro-3-methylphenol	107	9.688	9.688	0.000	89	322458	7.50	7.57	
67 Safrole, Total	162	9.763	9.763	0.000	73	209770	7.50	7.22	
69 2-Methylnaphthalene	142	9.875	9.875	0.000	90	575544	7.50	7.01	
70 1-Methylnaphthalene	142	10.030	10.030	0.000	90	547305	7.50	7.02	
71 Hexachlorocyclopentadiene	237	10.137	10.137	0.000	91	103494	7.50	5.61	
72 1,2,4,5-Tetrachlorobenzene	216	10.148	10.148	0.000	91	207194	7.50	7.29	
73 Isosafrole Peak 1	162	10.239	10.239	0.000	75	36308	1.20	1.12	
74 2,4,6-Trichlorophenol	196	10.351	10.351	0.000	87	142927	7.50	7.01	
75 2,4,5-Trichlorophenol	196	10.410	10.410	0.000	85	157003	7.50	7.28	
$ 76 2-Fluorobiphenyl (Surr)	172	10.495	10.495	0.000	98	1141034	15.0	14.5	
77 Isosafrole Peak 2	162	10.608	10.608	0.000	78	220661	6.30	6.46	
79 1,1'-Biphenyl	154	10.645	10.645	0.000	97	710106	7.50	7.81	
80 2-Chloronaphthalene	162	10.656	10.656	0.000	98	507643	7.50	7.08	
81 1-Chloronaphthalene	162	10.688	10.688	0.000	91	480126	7.50	7.53	
82 Phenyl ether	170	10.827	10.827	0.000	84	333493	7.50	7.35	
83 2-Nitroaniline	138	10.848	10.848	0.000	72	177973	7.50	7.25	
84 1,4-Naphthoquinone	158	10.961	10.961	0.000	67	205104	7.50	7.00	
85 1,4-Dinitrobenzene	168	11.095	11.095	0.000	85	72145	7.50	6.65	
86 Dimethyl phthalate	163	11.185	11.185	0.000	95	566226	7.50	7.14	
87 1,3-Dinitrobenzene	168	11.212	11.212	0.000	79	82650	7.50	6.74	
88 2,6-Dinitrotoluene	165	11.266	11.266	0.000	79	126144	7.50	7.23	
90 Acenaphthylene	152	11.325	11.325	0.000	98	756077	7.50	7.34	
91 3-Nitroaniline	138	11.517	11.517	0.000	85	141293	7.50	6.88	
* 92 Acenaphthene-d10	164	11.555	11.555	0.000	98	251388	5.00	5.00	
93 Acenaphthene	153	11.603	11.603	0.000	98	560798	7.50	7.37	
94 2,4-Dinitrophenol	184	11.688	11.688	0.000	72	83512	10.0	8.88	
98 Pentachlorobenzene	250	11.801	11.801	0.000	93	172083	7.50	7.02	
96 4-Nitrophenol	109	11.822	11.822	0.000	87	133134	7.50	8.87	
100 Dibenzofuran	168	11.859	11.859	0.000	95	674046	7.50	7.04	
99 2,4-Dinitrotoluene	165	11.875	11.875	0.000	78	167339	7.50	6.99	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 1-Naphthylamine	143	11.972	11.972	0.000	97	552043	7.50	7.16	
102 2,3,4,6-Tetrachlorophenol	232	12.047	12.047	0.000	86	101254	7.50	6.56	
103 2-Naphthylamine	143	12.084	12.084	0.000	92	528565	7.50	6.85	
104 Diethyl phthalate	149	12.234	12.234	0.000	95	604900	7.50	7.23	
105 Fluorene	166	12.319	12.319	0.000	93	557275	7.50	7.01	
106 Thionazin	107	12.325	12.325	0.000	74	120000	7.50	7.15	
108 4-Chlorophenyl phenyl ether	204	12.341	12.341	0.000	87	225482	7.50	6.89	
107 N-Nitro-o-toluidine	152	12.351	12.351	0.000	86	163903	7.50	7.08	
109 4-Nitroaniline	138	12.362	12.362	0.000	76	151913	7.50	6.75	
110 4,6-Dinitro-2-methylphenol	198	12.405	12.405	0.000	51	73913	7.50	7.06	
111 N-Nitrosodiphenylamine	169	12.491	12.491	0.000	97	452194	7.50	7.70	
112 1,2-Diphenylhydrazine	77	12.533	12.533	0.000	97	962166	7.50	9.54	
$ 113 2,4,6-Tribromophenol	330	12.614	12.614	0.000	82	141627	15.0	14.2	
114 Sulfotepp	97	12.721	12.721	0.000	77	157378	7.50	9.39	
115 cis-Diallate	86	12.854	12.854	0.000	89	258041	5.55	6.30	
116 Phorate	75	12.865	12.865	0.000	94	569424	7.50	8.99	
117 Phenacetin	108	12.892	12.892	0.000	89	398151	7.50	8.54	
118 4-Bromophenyl phenyl ether	248	12.940	12.940	0.000	79	117727	7.50	7.17	
119 trans-Diallate	86	12.961	12.961	0.000	96	95348	1.95	2.28	
120 Hexachlorobenzene	284	12.993	12.993	0.000	85	133379	7.50	7.45	
121 Dimethoate	87	13.068	13.068	0.000	95	358691	7.50	8.59	
122 Atrazine	200	13.170	13.170	0.000	77	137824	7.50	7.86	
123 Pentachlorophenol	266	13.255	13.255	0.000	85	73999	7.50	6.29	
125 Pentachloronitrobenzene	237	13.266	13.266	0.000	55	66567	7.50	7.95	
124 4-Aminobiphenyl	169	13.266	13.266	0.000	93	429601	7.50	7.73	
126 Pronamide	173	13.362	13.362	0.000	90	265888	7.50	7.83	
* 127 Phenanthrene-d10	188	13.485	13.485	0.000	96	421376	5.00	5.00	
128 Dinoseb	211	13.507	13.507	0.000	81	104312	7.50	6.80	
129 Phenanthrene	178	13.512	13.512	0.000	98	751943	7.50	7.34	
130 Anthracene	178	13.582	13.582	0.000	99	790030	7.50	7.60	
131 Carbazole	167	13.806	13.806	0.000	97	732745	7.50	7.52	
132 Methyl parathion	109	14.010	14.010	0.000	87	269142	7.50	8.15	
133 Di-n-butyl phthalate	149	14.314	14.314	0.000	99	1059019	7.50	7.61	
134 Ethyl Parathion	109	14.555	14.555	0.000	79	168100	7.50	8.36	
135 4-Nitroquinoline-1-oxide	190	14.576	14.576	0.000	88	48291	7.50	3.92	
136 Octachlorostyrene	308	14.903	14.903	0.000	88	65482	7.50	7.79	
137 Isodrin	193	14.951	14.951	0.000	80	85268	7.50	6.93	
138 Fluoranthene	202	15.176	15.176	0.000	99	782718	7.50	7.42	
139 Benzidine	184	15.411	15.411	0.000	98	1566035	22.5	21.2	
* 140 Pyrene-d10 (IS)	212	15.491	15.491	0.000	97	392333	5.00	5.00	s
141 Pyrene	202	15.518	15.518	0.000	95	804754	7.50	7.38	
$ 142 p-Terphenyl-d14	244	15.807	15.807	0.000	96	1042554	15.0	14.7	
143 p-Dimethylamino azobenzene	225	16.042	16.042	0.000	88	122254	7.50	7.28	
144 Chlorobenzilate	139	16.128	16.128	0.000	76	347679	7.50	8.35	
145 3,3'-Dimethylbenzidine	212	16.604	16.604	0.000	97	491853	7.50	7.04	
146 Butyl benzyl phthalate	149	16.662	16.662	0.000	91	487715	7.50	8.21	
147 2-Acetylaminofluorene	181	17.037	17.037	0.000	94	358882	7.50	7.90	
148 3,3'-Dichlorobenzidine	252	17.540	17.540	0.000	79	250987	7.50	7.03	
149 Benzo[a]anthracene	228	17.545	17.545	0.000	98	675363	7.50	7.44	
150 4,4'-Methylene bis(2-chloroanil	231	17.561	17.561	0.000	91	140481	7.50	7.53	
151 Chrysene	228	17.609	17.609	0.000	96	652241	7.50	7.17	
152 Bis(2-ethylhexyl) phthalate	149	17.732	17.732	0.000	94	720088	7.50	8.06	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
153 6-Methylchrysene	242	18.422	18.422	0.000	98	454711	7.50	7.20	
154 Di-n-octyl phthalate	149	18.904	18.904	0.000	99	1269657	7.50	7.77	
156 7,12-Dimethylbenz(a)anthracene	256	19.422	19.422	0.000	83	299091	7.50	7.16	
155 Benzo[b]fluoranthene	252	19.422	19.422	0.000	96	723888	7.50	7.30	
157 Benzo[k]fluoranthene	252	19.465	19.465	0.000	97	701681	7.50	7.35	
158 Benzo[a]pyrene	252	19.952	19.952	0.000	81	693562	7.50	7.50	
* 159 Perylene-d12	264	20.043	20.043	0.000	95	388123	5.00	5.00	s
160 3-Methylcholanthrene	268	20.530	20.530	0.000	92	338287	7.50	7.40	
161 Dibenz[a,h]acridine	279	21.343	21.343	0.000	92	562132	7.50	7.87	
162 Dibenz[a,j]acridine	279	21.417	21.417	0.000	95	581483	7.50	7.97	
163 Indeno[1,2,3-cd]pyrene	276	21.669	21.669	0.000	97	680153	7.50	7.89	M
164 Dibenz(a,h)anthracene	278	21.706	21.706	0.000	95	704116	7.50	8.15	
165 Benzo[g,h,i]perylene	276	22.059	22.059	0.000	94	719712	7.50	8.22	
S 166 Isosafrole	162				0		7.50	7.59	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_5_00008 Amount Added: 1.00 Units: mL

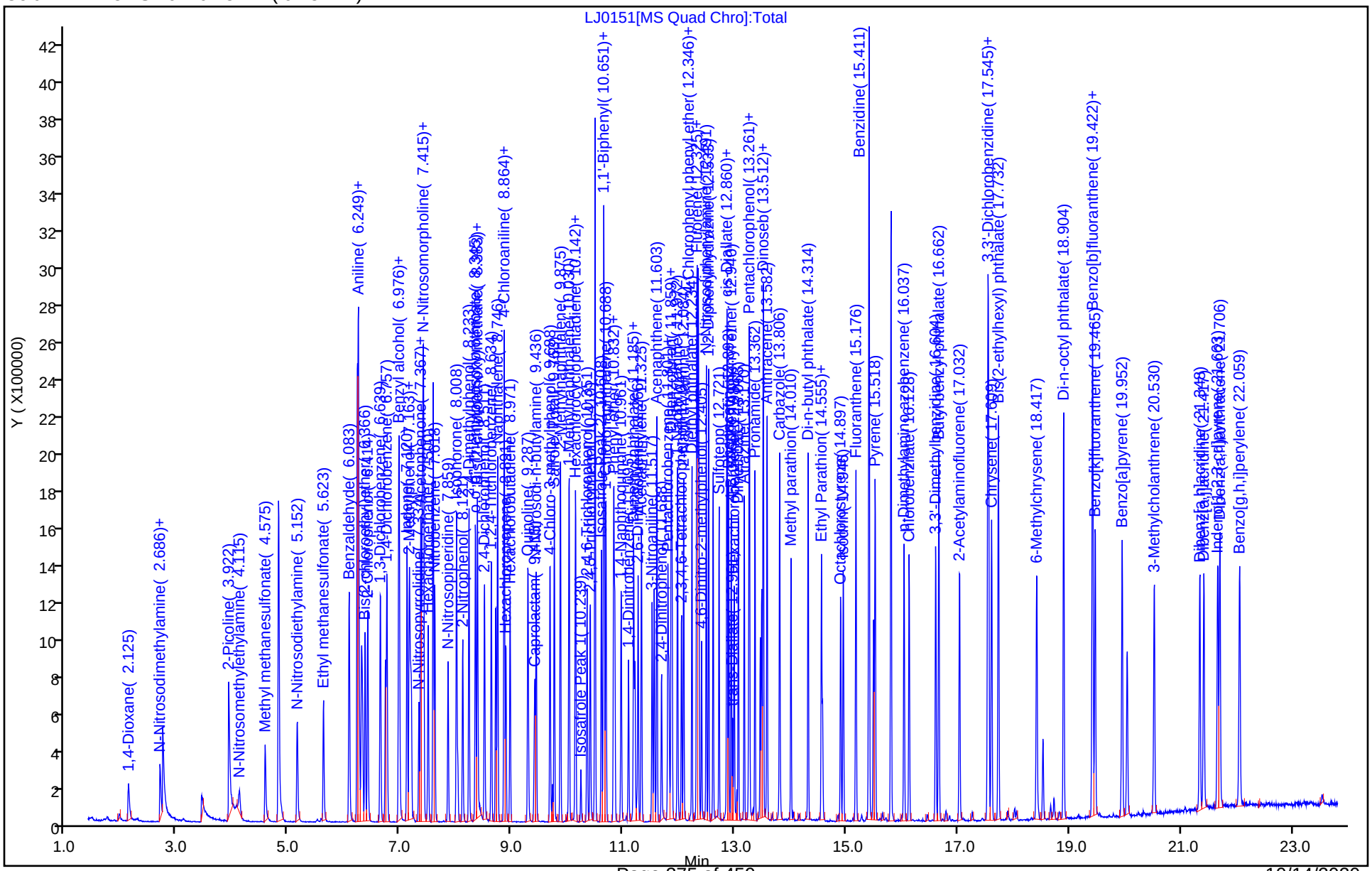
Report Date: 06-Oct-2020 23:01:00 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0151.D

Injection Date:	06-Oct-2020 18:15:28	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	CCVIS L5			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

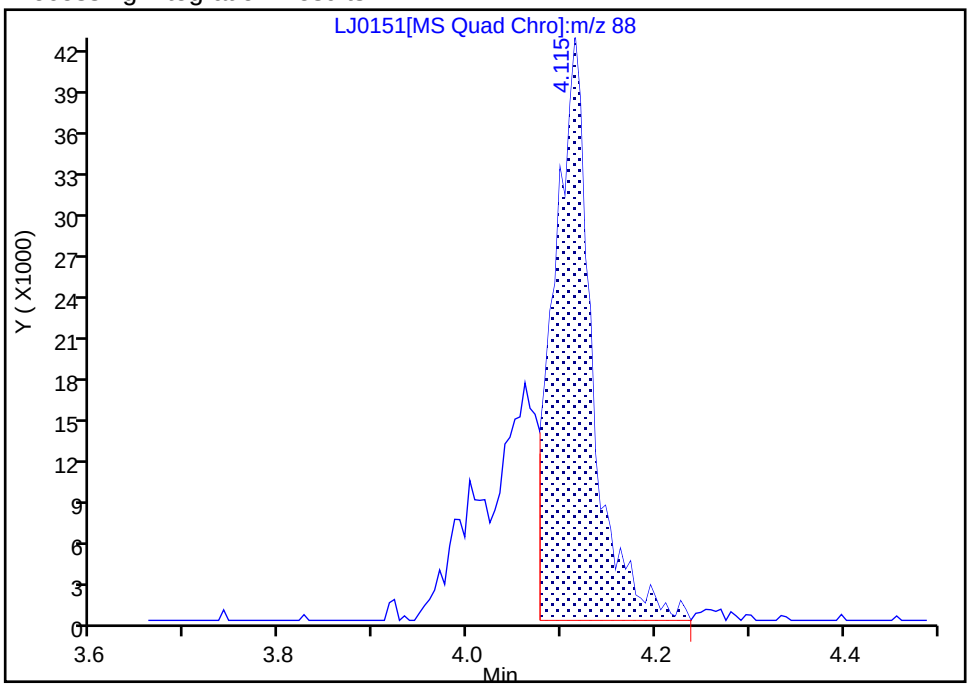
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0151.D				
Injection Date:	06-Oct-2020 18:15:28	Instrument ID:	HP20296		
Lims ID:	CCVIS L5				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

6 N-Nitrosomethylethylamine, CAS: 10595-95-6

Signal: 1

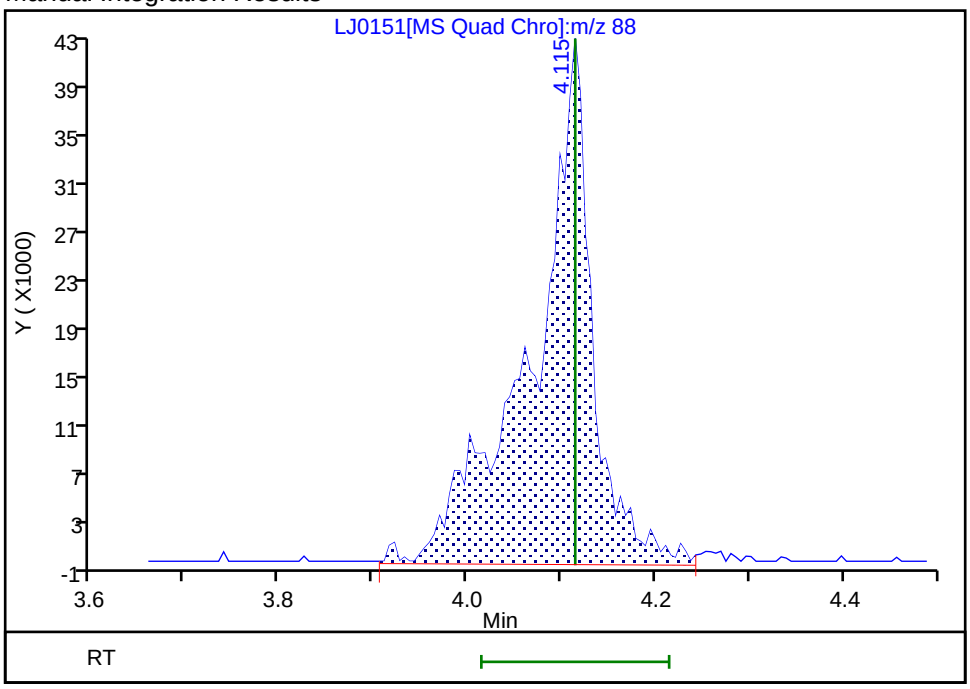
Processing Integration Results

RT: 4.11
Area: 117637
Amount: 5.331041
Amount Units: ug/ml



Manual Integration Results

RT: 4.11
Area: 190699
Amount: 8.642044
Amount Units: ug/ml



Reviewer: luttek, 06-Oct-2020 18:47:42

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

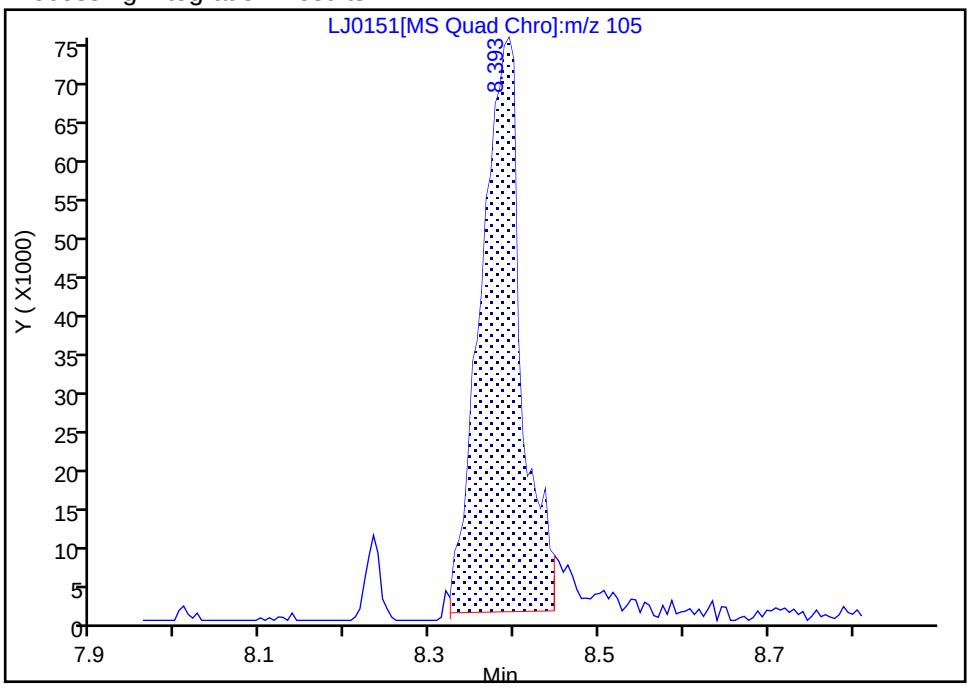
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0151.D				
Injection Date:	06-Oct-2020 18:15:28	Instrument ID:	HP20296		
Lims ID:	CCVIS L5				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

50 Benzoic acid, CAS: 65-85-0

Signal: 1

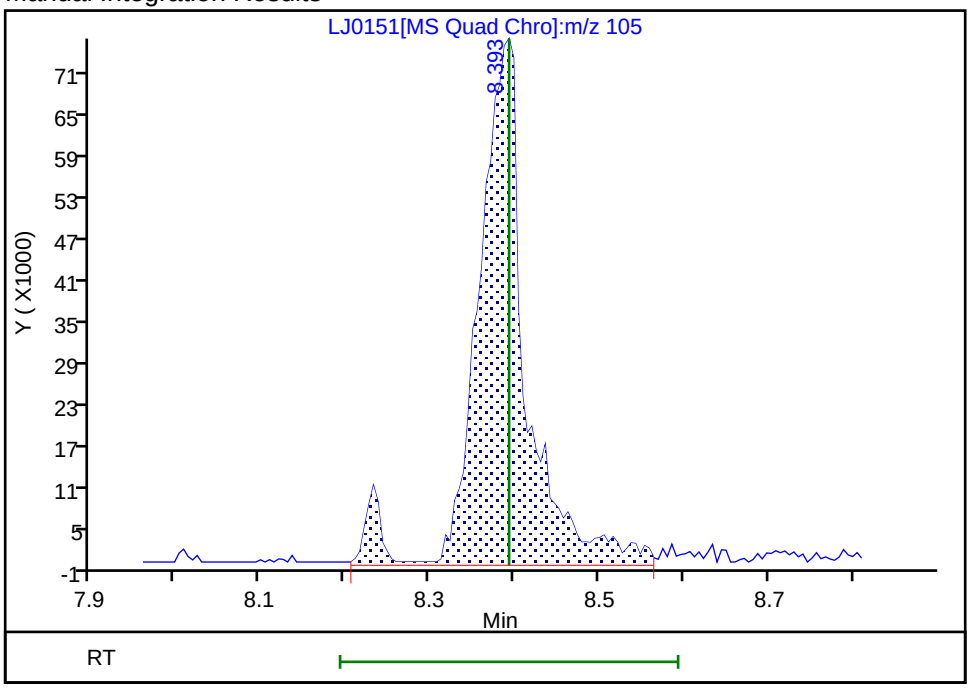
Processing Integration Results

RT: 8.39
Area: 248097
Amount: 7.656074
Amount Units: ug/ml



Manual Integration Results

RT: 8.39
Area: 305853
Amount: 9.438378
Amount Units: ug/ml



Reviewer: luttek, 06-Oct-2020 18:48:56

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

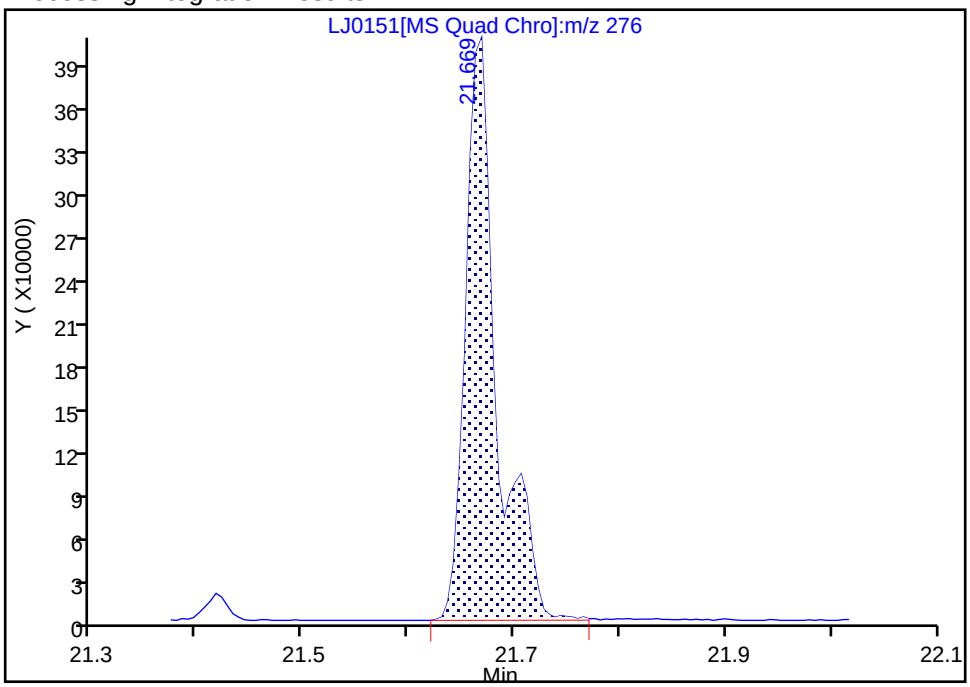
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0151.D				
Injection Date:	06-Oct-2020 18:15:28	Instrument ID:	HP20296		
Lims ID:	CCVIS L5				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

163 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

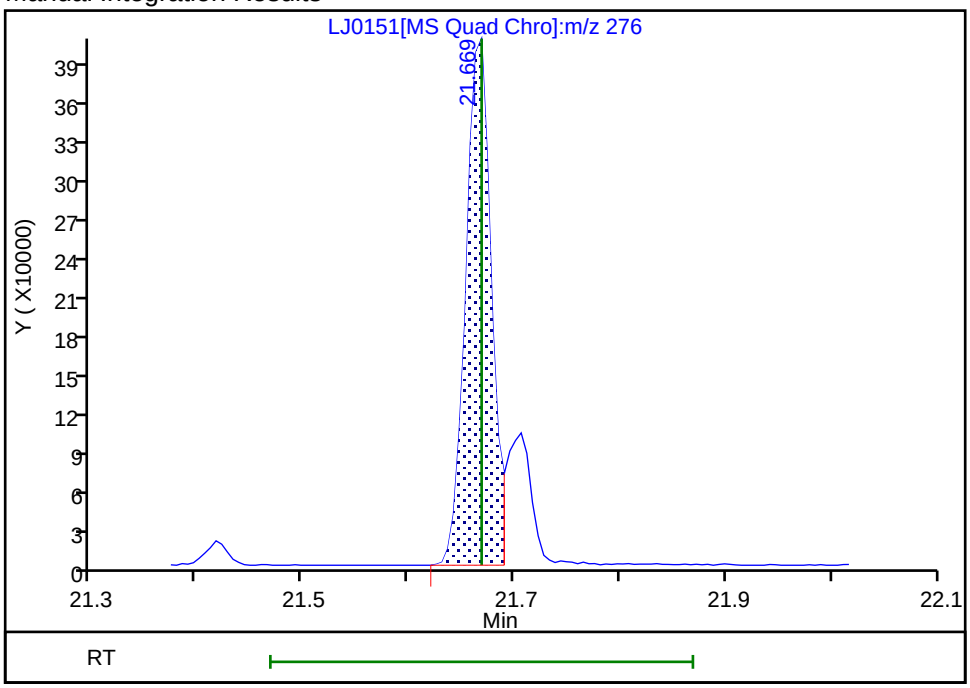
Processing Integration Results

RT: 21.67
Area: 843135
Amount: 9.781739
Amount Units: ug/ml



Manual Integration Results

RT: 21.67
Area: 680153
Amount: 7.890883
Amount Units: ug/ml



Reviewer: luttek, 06-Oct-2020 18:49:47

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.: 410-15639-1

SDG No.:

Lab Sample ID: CCVIS 410-51653/2 Calibration Date: 10/07/2020 08:26

Instrument ID: HP20296 Calib Start Date: 07/15/2020 13:18

GC Column: DB-5MS 20m 0.18 ID: 0.18(mm) Calib End Date: 07/15/2020 16:51

Lab File ID: LJ0181.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6196	0.6606		8.00	7.50	6.6	20.0
N-Nitrosodimethylamine	Ave	0.9584	1.148		8.99	7.50	19.8	20.0
Pyridine	Ave	1.698	1.910		8.43	7.50	12.4	20.0
2-Picoline	Ave	1.963	1.995		7.62	7.50	1.6	20.0
N-Nitrosomethylethylamine	Ave	0.7877	0.8311		7.91	7.50	5.5	20.0
Methyl methanesulfonate	Ave	0.8742	1.060		9.09	7.50	21.2*	20.0
N-Nitrosodiethylamine	Ave	0.7600	0.8066		7.96	7.50	6.1	20.0
Ethyl methanesulfonate	Ave	0.8433	0.8364		7.44	7.50	-0.8	20.0
Benzaldehyde	Ave	1.517	1.824	0.0100	9.01	7.50	20.2*	20.0
Aniline	Ave	2.815	3.019		8.05	7.50	7.3	20.0
Phenol	Ave	2.309	2.618	0.8000	8.50	7.50	13.4	20.0
Bis(2-chloroethyl)ether	Ave	1.896	2.030	0.7000	8.03	7.50	7.1	20.0
2-Chlorophenol	Ave	1.539	1.555	0.8000	7.58	7.50	1.0	20.0
1,3-Dichlorobenzene	Ave	1.649	1.585		7.21	7.50	-3.9	20.0
1,4-Dichlorobenzene	Ave	1.672	1.599		7.17	7.50	-4.4	20.0
Benzyl alcohol	Ave	1.175	1.163		7.42	7.50	-1.0	20.0
1,2-Dichlorobenzene	Ave	1.585	1.510		7.15	7.50	-4.7	20.0
Indene	Ave	2.407	2.587		8.06	7.50	7.5	20.0
2-Methylphenol	Ave	1.557	1.611	0.7000	7.76	7.50	3.5	20.0
2,2'-oxybis[1-chloropropane]	Ave	2.142	2.527	0.0100	8.85	7.50	18.0	20.0
N-Nitrosopyrrolidine	Ave	0.8657	0.8902		7.71	7.50	2.8	20.0
Acetophenone	Ave	2.532	2.718	0.0100	8.05	7.50	7.4	20.0
N-Nitrosodi-n-propylamine	Ave	1.415	1.517	0.5000	8.04	7.50	7.2	20.0
4-Methylphenol (and/or 3-Methylphenol)	Ave	1.641	1.831	0.6000	8.37	7.50	11.6	20.0
N-Nitrosomorpholine	Ave	0.9603	1.243		9.71	7.50	29.5*	20.0
o-Toluidine	Ave	2.763	2.797		7.59	7.50	1.2	20.0
Hexachloroethane	Ave	0.7584	0.7598	0.3000	7.51	7.50	0.2	20.0
Nitrobenzene	Ave	0.5138	0.5920	0.2000	8.64	7.50	15.2	20.0
N-Nitrosopiperidine	Ave	0.1971	0.2020		7.69	7.50	2.5	20.0
Isophorone	Ave	0.9080	1.001	0.4000	8.27	7.50	10.2	20.0
2-Nitrophenol	Ave	0.1851	0.1799	0.1000	7.29	7.50	-2.8	20.0
2,4-Dimethylphenol	Ave	0.4248	0.4555	0.2000	8.04	7.50	7.2	20.0
o,o',o''-Triethylphosphorothioate	Ave	0.1492	0.1364		6.86	7.50	-8.6	20.0
Bis(2-chloroethoxy)methane	Ave	0.5817	0.6188	0.3000	7.98	7.50	6.4	20.0
Benzoic acid	Ave	0.2826	0.2409		8.52	10.0	-14.8	20.0
2,4-Dichlorophenol	Ave	0.2863	0.2750	0.2000	7.20	7.50	-4.0	20.0
1,2,4-Trichlorobenzene	Ave	0.2958	0.2791		7.08	7.50	-5.7	20.0
Naphthalene	Ave	1.131	1.116	0.7000	7.40	7.50	-1.4	20.0
4-Chloroaniline	Ave	0.4514	0.4647	0.0100	7.72	7.50	2.9	20.0
2,6-Dichlorophenol	Ave	0.2778	0.2519		6.80	7.50	-9.3	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1

SDG No.:

Lab Sample ID: CCVIS 410-51653/2 Calibration Date: 10/07/2020 08:26

Instrument ID: HP20296 Calib Start Date: 07/15/2020 13:18

GC Column: DB-5MS 20m 0.18 ID: 0.18(mm) Calib End Date: 07/15/2020 16:51

Lab File ID: LJ0181.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Hexachloropropene	Ave	0.1771	0.1594		6.75	7.50	-10.0	20.0
Hexachlorobutadiene	Ave	0.1553	0.1384	0.0100	6.68	7.50	-10.9	20.0
Quinoline	Ave	0.6967	0.6657		7.17	7.50	-4.5	20.0
Caprolactam	Ave	0.1107	0.1095	0.0100	7.42	7.50	-1.1	20.0
N-Nitrosodi-n-butylamine	Ave	0.3623	0.3583		7.42	7.50	-1.1	20.0
4-Chloro-3-methylphenol	Ave	0.3717	0.3819	0.2000	7.70	7.50	2.7	20.0
Safrole, Total	Ave	0.2533	0.2362		7.00	7.50	-6.7	20.0
2-Methylnaphthalene	Ave	0.7160	0.6875	0.4000	7.20	7.50	-4.0	20.0
1-Methylnaphthalene	Ave	0.6803	0.6630		7.31	7.50	-2.5	20.0
Hexachlorocyclopentadiene	Ave	0.3667	0.2742	0.0500	5.61	7.50	-25.2*	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5652	0.5722	0.0100	7.59	7.50	1.2	20.0
Isosafrole Peak 1	Ave	0.6427	0.6984		1.30	1.20	8.7	20.0
2,4,6-Trichlorophenol	Ave	0.4053	0.3875	0.2000	7.17	7.50	-4.4	20.0
2,4,5-Trichlorophenol	Ave	0.4289	0.4093	0.2000	7.16	7.50	-4.6	20.0
Isosafrole Peak 2	Ave	0.6789	0.6748		6.26	6.30	-0.6	20.0
1,1'-Biphenyl	Ave	1.809	1.961	0.0100	8.13	7.50	8.4	20.0
2-Chloronaphthalene	Ave	1.427	1.453	0.8000	7.64	7.50	1.9	20.0
1-Chloronaphthalene	Ave	1.269	1.319		7.80	7.50	4.0	20.0
Diphenyl ether	Ave	0.9023	0.9250		7.69	7.50	2.5	20.0
2-Nitroaniline	Ave	0.4881	0.4986	0.0100	7.66	7.50	2.1	20.0
1,4-Naphthoquinone	Ave	0.5828	0.5449		7.01	7.50	-6.5	20.0
1,4-Dinitrobenzene	Ave	0.2158	0.2184		7.59	7.50	1.2	20.0
Dimethyl phthalate	Ave	1.578	1.597	0.0100	7.59	7.50	1.2	20.0
1,3-Dinitrobenzene	Ave	0.2439	0.2259		6.94	7.50	-7.4	20.0
2,6-Dinitrotoluene	Ave	0.3468	0.3602	0.2000	7.79	7.50	3.9	20.0
Acenaphthylene	Ave	2.048	2.112	0.9000	7.73	7.50	3.1	20.0
3-Nitroaniline	Ave	0.4085	0.4036	0.0100	7.41	7.50	-1.2	20.0
Acenaphthene	Ave	1.514	1.558	0.9000	7.72	7.50	2.9	20.0
2,4-Dinitrophenol	Ave	0.1870	0.1716	0.0100	9.17	10.0	-8.3	20.0
Pentachlorobenzene	Ave	0.4875	0.4803		7.39	7.50	-1.5	20.0
4-Nitrophenol	Ave	0.2985	0.4083	0.0100	10.3	7.50	36.8*	20.0
Dibenzofuran	Ave	1.904	1.940	0.8000	7.64	7.50	1.9	20.0
2,4-Dinitrotoluene	Ave	0.4764	0.4715	0.2000	7.42	7.50	-1.0	20.0
1-Naphthylamine	Ave	1.534	1.547		7.56	7.50	0.9	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3072	0.2884	0.0100	7.04	7.50	-6.1	20.0
2-Naphthylamine	Ave	1.535	1.495		7.30	7.50	-2.7	20.0
Diethyl phthalate	Ave	1.665	1.633	0.0100	7.35	7.50	-1.9	20.0
Fluorene	Ave	1.582	1.534	0.9000	7.27	7.50	-3.0	20.0
Thionazin	Ave	0.3340	0.3702		8.31	7.50	10.8	20.0
4-Chlorophenyl-phenyl ether	Ave	0.6507	0.6310	0.4000	7.27	7.50	-3.0	20.0
5-Nitro-o-toluidine	Ave	0.4603	0.4586		7.47	7.50	-0.4	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1

SDG No.:

Lab Sample ID: CCVIS 410-51653/2 Calibration Date: 10/07/2020 08:26

Instrument ID: HP20296 Calib Start Date: 07/15/2020 13:18

GC Column: DB-5MS 20m 0.18 ID: 0.18(mm) Calib End Date: 07/15/2020 16:51

Lab File ID: LJ0181.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Nitroaniline	Ave	0.4475	0.4089	0.0100	6.85	7.50	-8.6	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1241	0.1331	0.0100	8.04	7.50	7.2	20.0
N-Nitrosodiphenylamine	Ave	0.6965	0.7503	0.0100	8.08	7.50	7.7	20.0
1,2-Diphenylhydrazine	Ave	1.197	1.508		9.45	7.50	26.0*	20.0
Sulfotepp	Ave	0.1990	0.2522		9.51	7.50	26.7*	20.0
cis-Diallate	Ave	0.4862	0.5530		6.31	5.55	13.7	20.0
Phorate	Ave	0.7514	0.8843		8.83	7.50	17.7	20.0
Phenacetin	Ave	0.5534	0.6385		8.65	7.50	15.4	20.0
4-Bromophenyl-phenylether	Ave	0.1947	0.1849	0.1000	7.12	7.50	-5.1	20.0
trans-Diallate	Ave	0.4964	0.5852		2.30	1.95	17.9	20.0
Hexachlorobenzene	Ave	0.2125	0.2300	0.1000	8.12	7.50	8.2	20.0
Dimethoate	Ave	0.4957	0.5589		8.46	7.50	12.8	20.0
Atrazine	Ave	0.2082	0.2132	0.0100	7.68	7.50	2.4	20.0
Pentachlorophenol	Ave	0.1397	0.1227	0.0500	6.59	7.50	-12.1	20.0
4-Aminobiphenyl	Ave	0.6595	0.6814		7.75	7.50	3.3	20.0
Pentachloronitrobenzene	Ave	0.0993	0.1095		8.27	7.50	10.3	20.0
Pronamide	Ave	0.4029	0.4164		7.75	7.50	3.3	20.0
Dinoseb	Ave	0.1820	0.1766		7.28	7.50	-3.0	20.0
Phenanthrene	Ave	1.216	1.244	0.7000	7.67	7.50	2.3	20.0
Anthracene	Ave	1.233	1.256	0.7000	7.64	7.50	1.8	20.0
Carbazole	Ave	1.156	1.167	0.0100	7.57	7.50	0.9	20.0
Methyl parathion	Ave	0.3920	0.4275		8.18	7.50	9.0	20.0
Di-n-butyl phthalate	Ave	1.651	1.698	0.0100	7.71	7.50	2.9	20.0
Parathion	Ave	0.2387	0.2914		9.15	7.50	22.1*	20.0
4-Nitroquinoline-1-oxide	Ave	0.1464	0.0802			7.50	-45.2*	20.0
Octachlorostyrene	Ave	0.0997	0.1022		7.69	7.50	2.5	20.0
Isodrin	Ave	0.1461	0.1374		7.06	7.50	-5.9	20.0
Fluoranthene	Ave	1.251	1.292	0.6000	7.75	7.50	3.3	20.0
Benzidine	Ave	0.9427	0.8648		20.6	22.5	-8.3	20.0
Pyrene	Ave	1.390	1.349	0.6000	7.28	7.50	-2.9	20.0
p-Dimethylamino azobenzene	Ave	0.2139	0.1959		6.87	7.50	-8.4	20.0
Chlorobenzilate	Ave	0.5306	0.5909		8.35	7.50	11.4	20.0
3,3'-Dimethylbenzidine	Ave	0.8906	0.8151		6.86	7.50	-8.5	20.0
Butylbenzylphthalate	Ave	0.7568	0.7878	0.0100	7.81	7.50	4.1	20.0
2-Acetylaminofluorene	Ave	0.5791	0.6120		7.93	7.50	5.7	20.0
3,3'-Dichlorobenzidine	Ave	0.4549	0.4571	0.0100	7.54	7.50	0.5	20.0
Benzo[a]anthracene	Ave	1.157	1.183	0.8000	7.66	7.50	2.2	20.0
4,4'-Methylene bis(2-chloroaniline)	Ave	0.2379	0.2484			7.50	4.4	20.0
Chrysene	Ave	1.159	1.193	0.7000	7.72	7.50	2.9	20.0
Bis(2-ethylhexyl) phthalate	Ave	1.139	1.197	0.0100	7.88	7.50	5.1	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1

SDG No.:

Lab Sample ID: CCVIS 410-51653/2 Calibration Date: 10/07/2020 08:26

Instrument ID: HP20296 Calib Start Date: 07/15/2020 13:18

GC Column: DB-5MS 20m 0.18 ID: 0.18(mm) Calib End Date: 07/15/2020 16:51

Lab File ID: LJ0181.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
6-Methylchrysene	Ave	0.8047	0.8492		7.91	7.50	5.5	20.0
Di-n-octyl phthalate	Ave	2.105	2.128	0.0100	7.58	7.50	1.1	20.0
7,12-Dimethylbenz(a)anthracene	Ave	0.5383	0.5214		7.27	7.50	-3.1	20.0
Benzo[b]fluoranthene	Ave	1.278	1.269	0.7000	7.45	7.50	-0.6	20.0
Benzo[k]fluoranthene	Ave	1.229	1.191	0.7000	7.27	7.50	-3.1	20.0
Benzo[a]pyrene	Ave	1.192	1.217	0.7000	7.66	7.50	2.1	20.0
3-Methylcholanthrene	Ave	0.5892	0.6012		7.65	7.50	2.0	20.0
Dibenz[a,h]acridine	Ave	0.9203	1.014		8.27	7.50	10.2	20.0
Dibenz[a,j]acridine	Ave	0.9402	1.002		7.99	7.50	6.6	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.110	1.205	0.5000	8.14	7.50	8.5	20.0
Dibenz(a,h)anthracene	Ave	1.113	1.170	0.4000	7.88	7.50	5.1	20.0
Benzo[g,h,i]perylene	Ave	1.129	1.257	0.5000	8.35	7.50	11.4	20.0
2-Fluorophenol (Surr)	Ave	1.587	1.630		15.4	15.0	2.7	20.0
Phenol-d5 (Surr)	Ave	2.046	2.128		15.6	15.0	4.0	20.0
Nitrobenzene-d5 (Surr)	Ave	0.5061	0.5844		17.3	15.0	15.5	20.0
2-Fluorobiphenyl (Surr)	Ave	1.569	1.616		15.5	15.0	3.0	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.1988	0.2000		15.1	15.0	0.6	20.0
p-Terphenyl-d14 (Surr)	Ave	0.9044	0.8558		14.2	15.0	-5.4	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201007-12251.b\LJ0181.D
Lims ID: CCVIS L5
Client ID:
Sample Type: CCVIS
Inject. Date: 07-Oct-2020 08:26:56 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS L5
Misc. Info.: 410-0012251-002
Operator ID: knb25316 Instrument ID: HP20296
Sublist: chrom-MSSemi_HP20296*sub6

Method: \\chromfs\Lancaster\ChromData\HP20296\20201007-12251.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Oct-2020 09:19:23 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1017

First Level Reviewer: beckk Date: 07-Oct-2020 09:19:23

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	2.136	2.136	0.000	98	137742	7.50	8.00	
2 N-Nitrosodimethylamine	74	2.697	2.697	0.000	93	239385	7.50	8.99	
3 Pyridine	79	2.745	2.745	0.000	97	398132	7.50	8.43	
5 2-Picoline	93	3.927	3.927	0.000	95	415848	7.50	7.62	
6 N-Nitrosomethylethylamine	88	4.120	4.120	0.000	94	173274	7.50	7.91	
9 Methyl methanesulfonate	80	4.585	4.585	0.000	88	220964	7.50	9.09	
$ 10 2-Fluorophenol	112	4.821	4.821	0.000	94	679652	15.0	15.4	
11 N-Nitrosodiethylamine	102	5.158	5.158	0.000	92	168171	7.50	7.96	
13 Ethyl methanesulfonate	109	5.628	5.628	0.000	96	174384	7.50	7.44	
15 Benzaldehyde	77	6.088	6.088	0.000	91	380256	7.50	9.01	
$ 16 Phenol-d5	99	6.233	6.233	0.000	95	887158	15.0	15.6	
18 Aniline	93	6.254	6.254	0.000	71	629533	7.50	8.05	
17 Phenol	94	6.254	6.254	0.000	81	545792	7.50	8.50	
19 Bis(2-chloroethyl)ether	93	6.372	6.372	0.000	95	423298	7.50	8.03	
20 2-Chlorophenol	128	6.420	6.420	0.000	92	324248	7.50	7.58	
22 1,3-Dichlorobenzene	146	6.645	6.645	0.000	89	330467	7.50	7.21	
* 24 1,4-Dichlorobenzene-d4	152	6.741	6.741	0.000	94	138998	5.00	5.00	
25 1,4-Dichlorobenzene	146	6.762	6.762	0.000	84	333445	7.50	7.17	
27 Benzyl alcohol	108	6.976	6.976	0.000	87	242460	7.50	7.42	
29 1,2-Dichlorobenzene	146	6.987	6.987	0.000	87	314905	7.50	7.15	
30 Indene	115	7.126	7.126	0.000	88	539280	7.50	8.06	
31 2-Methylphenol	108	7.169	7.169	0.000	98	335868	7.50	7.76	
32 2,2'-oxybis[1-chloropropane]	45	7.190	7.190	0.000	90	526895	7.50	8.85	
34 N-Nitrosopyrrolidine	100	7.340	7.340	0.000	87	185597	7.50	7.71	
35 Acetophenone	105	7.372	7.372	0.000	90	566755	7.50	8.05	
37 N-Nitrosodi-n-propylamine	70	7.393	7.393	0.000	86	316257	7.50	8.04	
38 N-Nitrosomorpholine	56	7.409	7.409	0.000	88	259218	7.50	9.71	
36 4-Methylphenol	108	7.409	7.409	0.000	94	381705	7.50	8.37	
39 2-Toluidine	106	7.425	7.425	0.000	95	583071	7.50	7.59	
40 Hexachloroethane	117	7.506	7.506	0.000	88	158415	7.50	7.51	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	7.597	7.597	0.000	90	957721	15.0	17.3	
42 Nitrobenzene	77	7.623	7.623	0.000	88	485159	7.50	8.64	
44 N-Nitrosopiperidine	114	7.864	7.864	0.000	80	165551	7.50	7.69	
46 Isophorone	82	8.014	8.014	0.000	99	819951	7.50	8.27	
47 2-Nitrophenol	139	8.126	8.126	0.000	84	147435	7.50	7.29	
48 2,4-Dimethylphenol	107	8.233	8.233	0.000	98	373283	7.50	8.04	
49 o,o',o''-Triethylphosphorothioat	198	8.351	8.351	0.000	90	111777	7.50	6.86	
51 Bis(2-chloroethoxy)methane	93	8.388	8.388	0.000	97	507077	7.50	7.98	
50 Benzoic acid	105	8.399	8.399	0.000	89	263174	10.0	8.52	M
52 2,4-Dichlorophenol	162	8.517	8.517	0.000	91	225366	7.50	7.20	
54 1,2,4-Trichlorobenzene	180	8.640	8.640	0.000	89	228700	7.50	7.08	
* 55 Naphthalene-d8	136	8.714	8.714	0.000	99	546305	5.00	5.00	
56 Naphthalene	128	8.752	8.752	0.000	99	914162	7.50	7.40	
57 4-Chloroaniline	127	8.864	8.864	0.000	92	380790	7.50	7.72	
58 2,6-Dichlorophenol	162	8.870	8.870	0.000	85	206429	7.50	6.80	
59 Hexachloropropene	213	8.902	8.902	0.000	92	130643	7.50	6.75	
S 53 Dinitrotoluene	165				0		15.0	15.2	
60 Hexachlorobutadiene	225	8.977	8.977	0.000	91	113407	7.50	6.68	
62 Quinoline	129	9.297	9.297	0.000	92	545529	7.50	7.17	
64 Caprolactam	113	9.420	9.420	0.000	72	89735	7.50	7.42	
65 N-Nitrosodi-n-butylamine	84	9.442	9.442	0.000	92	293636	7.50	7.42	
S 63 Diallate	86				0		7.50	8.61	
66 4-Chloro-3-methylphenol	107	9.688	9.688	0.000	92	312919	7.50	7.70	
67 Safrole, Total	162	9.768	9.768	0.000	72	193571	7.50	7.00	
69 2-Methylnaphthalene	142	9.880	9.880	0.000	89	563391	7.50	7.20	
70 1-Methylnaphthalene	142	10.030	10.030	0.000	92	543284	7.50	7.31	
71 Hexachlorocyclopentadiene	237	10.143	10.143	0.000	95	95728	7.50	5.61	
72 1,2,4,5-Tetrachlorobenzene	216	10.153	10.153	0.000	90	199791	7.50	7.59	
73 Isosafrole Peak 1	162	10.244	10.244	0.000	83	39017	1.20	1.30	
74 2,4,6-Trichlorophenol	196	10.356	10.356	0.000	88	135292	7.50	7.17	
75 2,4,5-Trichlorophenol	196	10.415	10.415	0.000	84	142921	7.50	7.16	
$ 76 2-Fluorobiphenyl (Surr)	172	10.501	10.501	0.000	98	1128279	15.0	15.5	
77 Isosafrole Peak 2	162	10.613	10.613	0.000	75	197910	6.30	6.26	
79 1,1'-Biphenyl	154	10.651	10.651	0.000	97	684678	7.50	8.13	
80 2-Chloronaphthalene	162	10.661	10.661	0.000	94	507325	7.50	7.64	
81 1-Chloronaphthalene	162	10.693	10.693	0.000	93	460496	7.50	7.80	
82 Phenyl ether	170	10.833	10.833	0.000	84	322970	7.50	7.69	
83 2-Nitroaniline	138	10.854	10.854	0.000	72	174069	7.50	7.66	
84 1,4-Naphthoquinone	158	10.966	10.966	0.000	66	190233	7.50	7.01	
85 1,4-Dinitrobenzene	168	11.100	11.100	0.000	85	76261	7.50	7.59	
86 Dimethyl phthalate	163	11.191	11.191	0.000	93	557633	7.50	7.59	
87 1,3-Dinitrobenzene	168	11.212	11.212	0.000	78	78854	7.50	6.94	
88 2,6-Dinitrotoluene	165	11.271	11.271	0.000	76	125750	7.50	7.79	
90 Acenaphthylene	152	11.330	11.330	0.000	98	737419	7.50	7.73	
91 3-Nitroaniline	138	11.522	11.522	0.000	85	140898	7.50	7.41	
* 92 Acenaphthene-d10	164	11.560	11.560	0.000	97	232761	5.00	5.00	
93 Acenaphthene	153	11.608	11.608	0.000	99	543848	7.50	7.72	
94 2,4-Dinitrophenol	184	11.694	11.694	0.000	70	79863	10.0	9.17	
98 Pentachlorobenzene	250	11.806	11.806	0.000	92	167687	7.50	7.39	
96 4-Nitrophenol	109	11.822	11.822	0.000	91	142558	7.50	10.3	
100 Dibenzofuran	168	11.865	11.865	0.000	95	677268	7.50	7.64	
99 2,4-Dinitrotoluene	165	11.881	11.881	0.000	79	164623	7.50	7.42	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 1-Naphthylamine	143	11.977	11.977	0.000	97	540095	7.50	7.56	
102 2,3,4,6-Tetrachlorophenol	232	12.047	12.047	0.000	85	100698	7.50	7.04	
103 2-Naphthylamine	143	12.089	12.089	0.000	92	521796	7.50	7.30	
104 Diethyl phthalate	149	12.234	12.234	0.000	95	569998	7.50	7.35	
105 Fluorene	166	12.319	12.319	0.000	92	535630	7.50	7.27	
106 Thionazin	107	12.330	12.330	0.000	76	129238	7.50	8.31	
108 4-Chlorophenyl phenyl ether	204	12.346	12.346	0.000	91	220299	7.50	7.27	
107 N-Nitro-o-toluidine	152	12.352	12.352	0.000	87	160114	7.50	7.47	
109 4-Nitroaniline	138	12.362	12.362	0.000	77	142773	7.50	6.85	
110 4,6-Dinitro-2-methylphenol	198	12.410	12.410	0.000	59	79412	7.50	8.04	
111 N-Nitrosodiphenylamine	169	12.496	12.496	0.000	97	447598	7.50	8.08	
112 1,2-Diphenylhydrazine	77	12.533	12.533	0.000	97	899635	7.50	9.45	
$ 113 2,4,6-Tribromophenol	330	12.619	12.619	0.000	86	139623	15.0	15.1	
114 Sulfotepp	97	12.721	12.721	0.000	76	150432	7.50	9.51	
115 cis-Diallate	86	12.860	12.860	0.000	90	244118	5.55	6.31	
116 Phorate	75	12.865	12.865	0.000	94	527497	7.50	8.83	
117 Phenacetin	108	12.897	12.897	0.000	89	380864	7.50	8.65	
118 4-Bromophenyl phenyl ether	248	12.940	12.940	0.000	78	110287	7.50	7.12	
119 trans-Diallate	86	12.967	12.967	0.000	96	90757	1.95	2.30	
120 Hexachlorobenzene	284	12.993	12.993	0.000	89	137190	7.50	8.12	
121 Dimethoate	87	13.068	13.068	0.000	94	333409	7.50	8.46	
122 Atrazine	200	13.175	13.175	0.000	78	127200	7.50	7.68	
123 Pentachlorophenol	266	13.255	13.255	0.000	81	73216	7.50	6.59	
125 Pentachloronitrobenzene	237	13.266	13.266	0.000	52	65346	7.50	8.27	
124 4-Aminobiphenyl	169	13.266	13.266	0.000	93	406473	7.50	7.75	
126 Pronamide	173	13.368	13.368	0.000	89	248389	7.50	7.75	
* 127 Phenanthrene-d10	188	13.491	13.491	0.000	96	397690	5.00	5.00	
128 Dinoseb	211	13.512	13.512	0.000	83	105352	7.50	7.28	
129 Phenanthrene	178	13.518	13.518	0.000	99	742140	7.50	7.67	
130 Anthracene	178	13.587	13.587	0.000	99	749095	7.50	7.64	
131 Carbazole	167	13.812	13.812	0.000	98	696096	7.50	7.57	
132 Methyl parathion	109	14.010	14.010	0.000	87	255009	7.50	8.18	
133 Di-n-butyl phthalate	149	14.320	14.320	0.000	99	1012984	7.50	7.71	
134 Ethyl Parathion	109	14.561	14.561	0.000	79	173813	7.50	9.15	
135 4-Nitroquinoline-1-oxide	190	14.582	14.582	0.000	85	47852	7.50	4.11	
136 Octachlorostyrene	308	14.903	14.903	0.000	87	60961	7.50	7.69	
137 Isodrin	193	14.951	14.951	0.000	79	81971	7.50	7.06	
138 Fluoranthene	202	15.181	15.181	0.000	100	770631	7.50	7.75	
139 Benzidine	184	15.416	15.416	0.000	99	1518654	22.5	20.6	
* 140 Pyrene-d10 (IS)	212	15.497	15.497	0.000	99	390228	5.00	5.00	s
141 Pyrene	202	15.523	15.523	0.000	95	789509	7.50	7.28	
$ 142 p-Terphenyl-d14	244	15.812	15.812	0.000	96	1001839	15.0	14.2	
143 p-Dimethylamino azobenzene	225	16.042	16.042	0.000	88	114650	7.50	6.87	
144 Chlorobenzilate	139	16.133	16.133	0.000	76	345903	7.50	8.35	
145 3,3'-Dimethylbenzidine	212	16.609	16.609	0.000	97	477090	7.50	6.86	
146 Butyl benzyl phthalate	149	16.668	16.668	0.000	92	461156	7.50	7.81	
147 2-Acetylaminofluorene	181	17.037	17.037	0.000	94	358241	7.50	7.93	
148 3,3'-Dichlorobenzidine	252	17.545	17.545	0.000	75	267550	7.50	7.54	
149 Benzo[a]anthracene	228	17.550	17.550	0.000	98	692257	7.50	7.66	
150 4,4'-Methylene bis(2-chloroanil	231	17.561	17.561	0.000	92	145381	7.50	7.83	
151 Chrysene	228	17.615	17.615	0.000	96	698214	7.50	7.72	
152 Bis(2-ethylhexyl) phthalate	149	17.738	17.738	0.000	94	700577	7.50	7.88	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
153 6-Methylchrysene	242	18.422	18.422	0.000	98	497074	7.50	7.91	
154 Di-n-octyl phthalate	149	18.909	18.909	0.000	98	1284276	7.50	7.58	
156 7,12-Dimethylbenz(a)anthracene	256	19.428	19.428	0.000	72	314659	7.50	7.27	
155 Benzo[b]fluoranthene	252	19.428	19.428	0.000	96	766057	7.50	7.45	
157 Benzo[k]fluoranthene	252	19.476	19.476	0.000	98	718644	7.50	7.27	
158 Benzo[a]pyrene	252	19.957	19.957	0.000	82	734583	7.50	7.66	
* 159 Perylene-d12	264	20.048	20.048	0.000	95	402334	5.00	5.00	s
160 3-Methylcholanthrene	268	20.535	20.535	0.000	92	362824	7.50	7.65	
161 Dibenz[a,h]acridine	279	21.353	21.353	0.000	92	612112	7.50	8.27	
162 Dibenz[a,j]acridine	279	21.423	21.423	0.000	95	604810	7.50	7.99	
163 Indeno[1,2,3-cd]pyrene	276	21.680	21.680	0.000	96	727404	7.50	8.14	M
164 Dibenz(a,h)anthracene	278	21.712	21.712	0.000	96	705810	7.50	7.88	
165 Benzo[g,h,i]perylene	276	22.065	22.065	0.000	95	758447	7.50	8.35	
S 166 Isosafrole	162				0		7.50	7.57	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_5_00008 Amount Added: 1.00 Units: mL

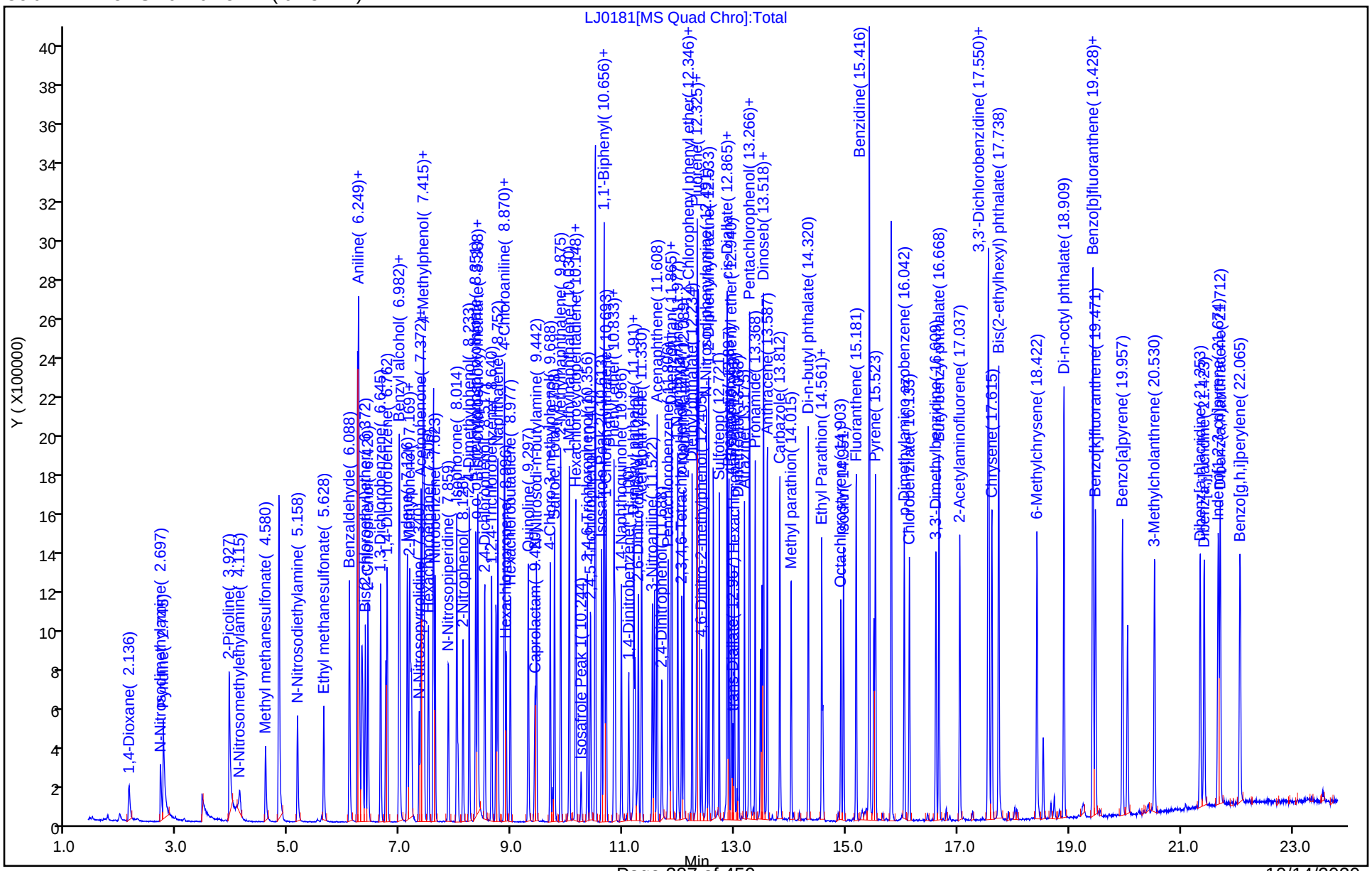
Report Date: 07-Oct-2020 09:19:24 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201007-12251.b\LJ0181.D

Injection Date:	07-Oct-2020 08:26:56	Instrument ID:	HP20296	Operator ID:	knb25316
Lims ID:	CCVIS L5			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

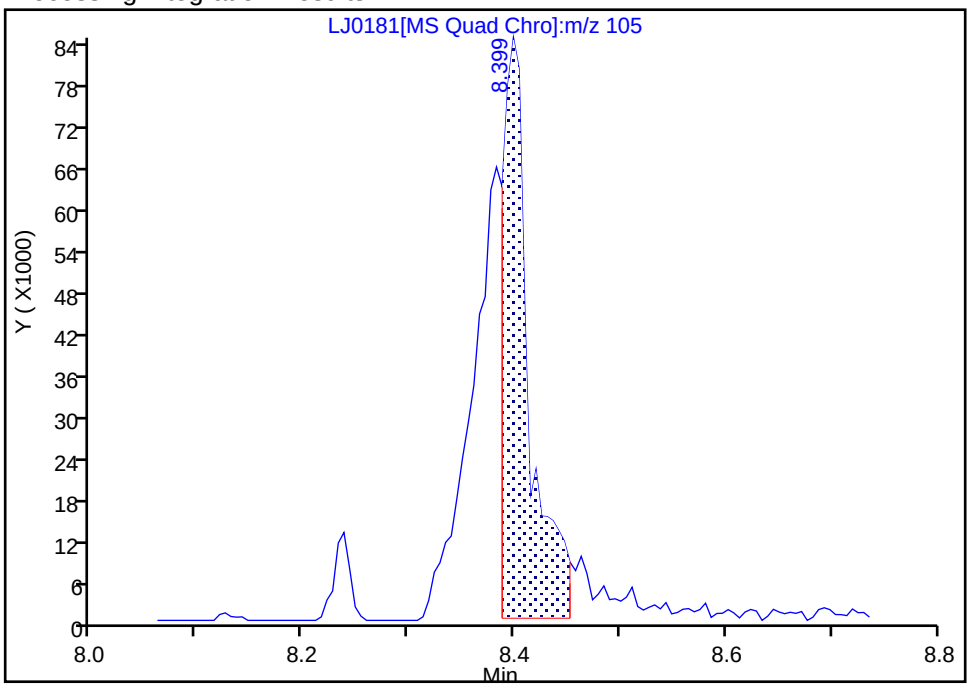
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201007-12251.b\LJ0181.D				
Injection Date:	07-Oct-2020 08:26:56	Instrument ID:	HP20296		
Lims ID:	CCVIS L5				
Client ID:					
Operator ID:	knb25316	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

50 Benzoic acid, CAS: 65-85-0

Signal: 1

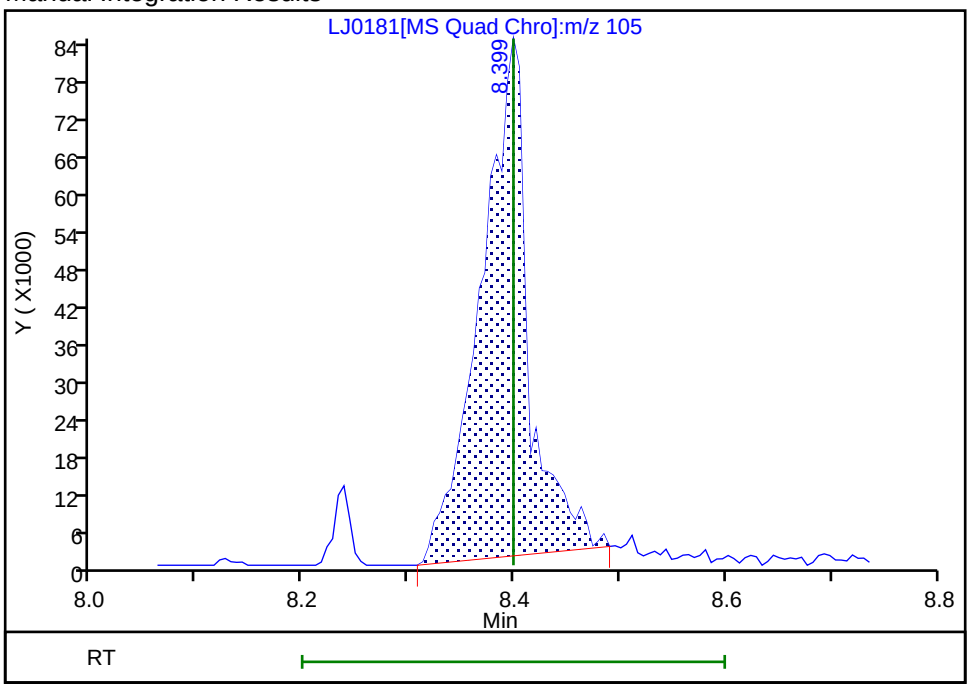
Processing Integration Results

RT: 8.40
Area: 137562
Amount: 4.454576
Amount Units: ug/ml



Manual Integration Results

RT: 8.40
Area: 263174
Amount: 8.522183
Amount Units: ug/ml



Reviewer: beckk, 07-Oct-2020 09:17:53

Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

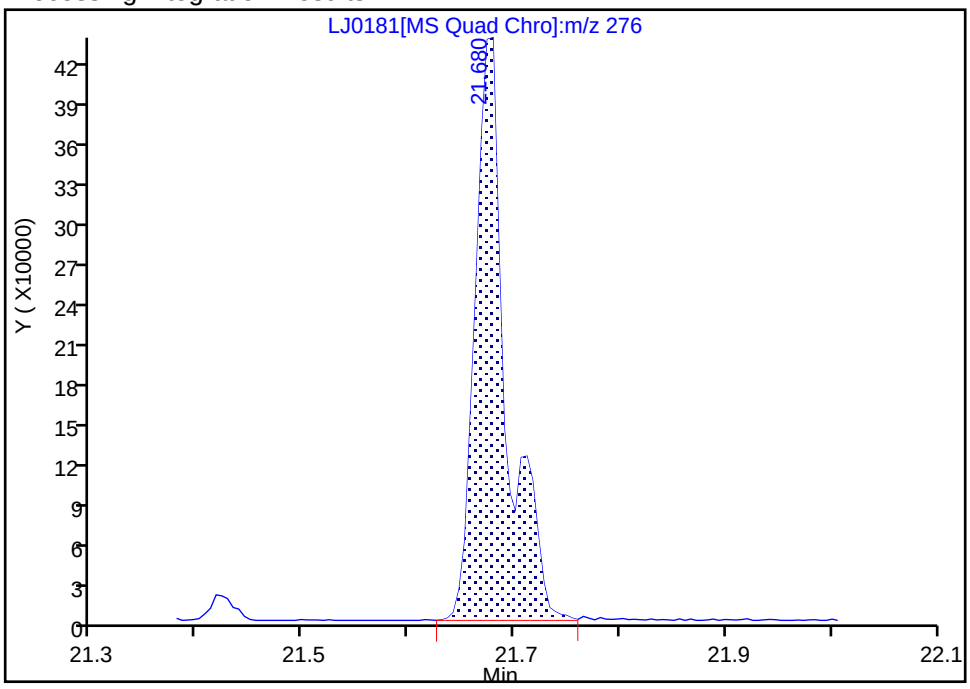
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201007-12251.b\LJ0181.D				
Injection Date:	07-Oct-2020 08:26:56	Instrument ID:	HP20296		
Lims ID:	CCVIS L5				
Client ID:					
Operator ID:	knb25316	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

163 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

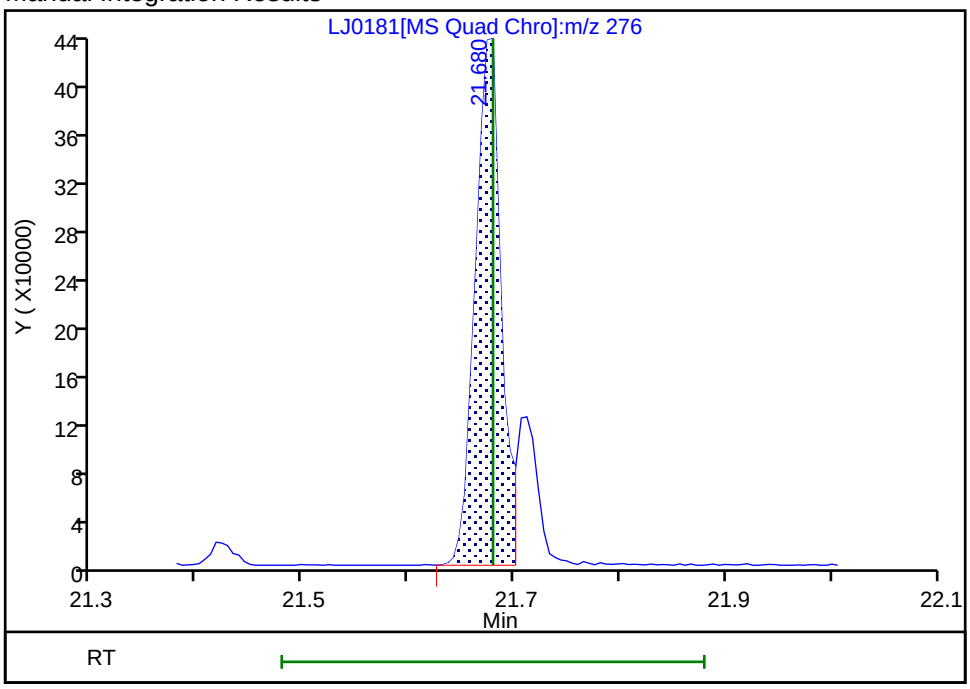
Processing Integration Results

RT: 21.68
Area: 888551
Amount: 9.944523
Amount Units: ug/ml



Manual Integration Results

RT: 21.68
Area: 727404
Amount: 8.140991
Amount Units: ug/ml



Reviewer: beckk, 07-Oct-2020 09:18:23

Audit Action: Split an Integrated Peak Audit Reason: Assign Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1

SDG No.:

Lab Sample ID: CCVIS 410-51967/2 Calibration Date: 10/07/2020 16:54

Instrument ID: HP20296 Calib Start Date: 07/15/2020 13:18

GC Column: DB-5MS 20m 0.18 ID: 0.18(mm) Calib End Date: 07/15/2020 16:51

Lab File ID: LJ0201.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6196	0.7211		8.73	7.50	16.4	20.0
N-Nitrosodimethylamine	Ave	0.9584	1.188		9.29	7.50	23.9*	20.0
Pyridine	Ave	1.698	1.898		8.38	7.50	11.8	20.0
2-Picoline	Ave	1.963	1.981		7.57	7.50	0.9	20.0
N-Nitrosomethylethylamine	Ave	0.7877	0.8125		7.74	7.50	3.1	20.0
Methyl methanesulfonate	Ave	0.8742	1.049		9.00	7.50	20.0	20.0
N-Nitrosodiethylamine	Ave	0.7600	0.8047		7.94	7.50	5.9	20.0
Ethyl methanesulfonate	Ave	0.8433	0.8465		7.53	7.50	0.4	20.0
Benzaldehyde	Ave	1.517	1.753	0.0100	8.66	7.50	15.5	20.0
Phenol	Ave	2.309	2.486	0.8000	8.08	7.50	7.7	20.0
Aniline	Ave	2.815	2.928		7.80	7.50	4.0	20.0
Bis(2-chloroethyl)ether	Ave	1.896	1.941	0.7000	7.68	7.50	2.4	20.0
2-Chlorophenol	Ave	1.539	1.517	0.8000	7.39	7.50	-1.5	20.0
1,3-Dichlorobenzene	Ave	1.649	1.500		6.82	7.50	-9.0	20.0
1,4-Dichlorobenzene	Ave	1.672	1.524		6.84	7.50	-8.9	20.0
Benzyl alcohol	Ave	1.175	1.119		7.14	7.50	-4.8	20.0
1,2-Dichlorobenzene	Ave	1.585	1.462		6.92	7.50	-7.7	20.0
Indene	Ave	2.407	2.601		8.11	7.50	8.1	20.0
2-Methylphenol	Ave	1.557	1.574	0.7000	7.58	7.50	1.1	20.0
2,2'-oxybis[1-chloropropane]	Ave	2.142	2.417	0.0100	8.47	7.50	12.9	20.0
N-Nitrosopyrrolidine	Ave	0.8657	0.8810		7.63	7.50	1.8	20.0
Acetophenone	Ave	2.532	2.724	0.0100	8.07	7.50	7.6	20.0
N-Nitrosodi-n-propylamine	Ave	1.415	1.512	0.5000	8.01	7.50	6.8	20.0
N-Nitrosomorpholine	Ave	0.9603	1.203		9.40	7.50	25.3*	20.0
4-Methylphenol (and/or 3-Methylphenol)	Ave	1.641	1.763	0.6000	8.06	7.50	7.5	20.0
o-Toluidine	Ave	2.763	2.693		7.31	7.50	-2.5	20.0
Hexachloroethane	Ave	0.7584	0.7603	0.3000	7.52	7.50	0.3	20.0
Nitrobenzene	Ave	0.5138	0.5670	0.2000	8.28	7.50	10.4	20.0
N-Nitrosopiperidine	Ave	0.1971	0.1992		7.58	7.50	1.1	20.0
Isophorone	Ave	0.9080	0.9469	0.4000	7.82	7.50	4.3	20.0
2-Nitrophenol	Ave	0.1851	0.1766	0.1000	7.16	7.50	-4.6	20.0
2,4-Dimethylphenol	Ave	0.4248	0.4626	0.2000	8.17	7.50	8.9	20.0
o,o',o''-Triethylphosphorothioate	Ave	0.1492	0.1312		6.60	7.50	-12.0	20.0
Bis(2-chloroethoxy)methane	Ave	0.5817	0.6035	0.3000	7.78	7.50	3.7	20.0
Benzoic acid	Ave	0.2826	0.2279		8.06	10.0	-19.4	20.0
2,4-Dichlorophenol	Ave	0.2863	0.2646	0.2000	6.93	7.50	-7.6	20.0
1,2,4-Trichlorobenzene	Ave	0.2958	0.2716		6.89	7.50	-8.2	20.0
Naphthalene	Ave	1.131	1.098	0.7000	7.28	7.50	-2.9	20.0
4-Chloroaniline	Ave	0.4514	0.4659	0.0100	7.74	7.50	3.2	20.0
2,6-Dichlorophenol	Ave	0.2778	0.2579		6.96	7.50	-7.2	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1

SDG No.:

Lab Sample ID: CCVIS 410-51967/2 Calibration Date: 10/07/2020 16:54

Instrument ID: HP20296 Calib Start Date: 07/15/2020 13:18

GC Column: DB-5MS 20m 0.18 ID: 0.18(mm) Calib End Date: 07/15/2020 16:51

Lab File ID: LJ0201.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Hexachloropropene	Ave	0.1771	0.1531		6.48	7.50	-13.6	20.0
Hexachlorobutadiene	Ave	0.1553	0.1420	0.0100	6.86	7.50	-8.5	20.0
Quinoline	Ave	0.6967	0.6422		6.91	7.50	-7.8	20.0
Caprolactam	Ave	0.1107	0.1183	0.0100	8.01	7.50	6.8	20.0
N-Nitrosodi-n-butylamine	Ave	0.3623	0.4413		9.13	7.50	21.8*	20.0
4-Chloro-3-methylphenol	Ave	0.3717	0.3681	0.2000	7.43	7.50	-1.0	20.0
Safrole, Total	Ave	0.2533	0.2267		6.71	7.50	-10.5	20.0
2-Methylnaphthalene	Ave	0.7160	0.6777	0.4000	7.10	7.50	-5.3	20.0
1-Methylnaphthalene	Ave	0.6803	0.6499		7.17	7.50	-4.5	20.0
Hexachlorocyclopentadiene	Ave	0.3667	0.2437	0.0500	4.98	7.50	-33.5*	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5652	0.5716	0.0100	7.58	7.50	1.1	20.0
Isosafrole Peak 1	Ave	0.6427	0.5686		1.06	1.20	-11.5	20.0
2,4,6-Trichlorophenol	Ave	0.4053	0.4033	0.2000	7.46	7.50	-0.5	20.0
2,4,5-Trichlorophenol	Ave	0.4289	0.4210	0.2000	7.36	7.50	-1.8	20.0
Isosafrole Peak 2	Ave	0.6789	0.6860		6.37	6.30	1.0	20.0
1,1'-Biphenyl	Ave	1.809	1.976	0.0100	8.19	7.50	9.2	20.0
2-Chloronaphthalene	Ave	1.427	1.400	0.8000	7.36	7.50	-1.9	20.0
1-Chloronaphthalene	Ave	1.269	1.403		8.29	7.50	10.6	20.0
Diphenyl ether	Ave	0.9023	0.9167		7.62	7.50	1.6	20.0
2-Nitroaniline	Ave	0.4881	0.4971	0.0100	7.64	7.50	1.8	20.0
1,4-Naphthoquinone	Ave	0.5828	0.5628		7.24	7.50	-3.4	20.0
1,4-Dinitrobenzene	Ave	0.2158	0.2194		7.63	7.50	1.7	20.0
Dimethyl phthalate	Ave	1.578	1.561	0.0100	7.42	7.50	-1.0	20.0
1,3-Dinitrobenzene	Ave	0.2439	0.2415		7.43	7.50	-1.0	20.0
2,6-Dinitrotoluene	Ave	0.3468	0.3351	0.2000	7.25	7.50	-3.4	20.0
Acenaphthylene	Ave	2.048	2.100	0.9000	7.69	7.50	2.5	20.0
3-Nitroaniline	Ave	0.4085	0.4017	0.0100	7.38	7.50	-1.7	20.0
Acenaphthene	Ave	1.514	1.556	0.9000	7.71	7.50	2.8	20.0
2,4-Dinitrophenol	Ave	0.1870	0.1518	0.0100	8.12	10.0	-18.8	20.0
Pentachlorobenzene	Ave	0.4875	0.4933		7.59	7.50	1.2	20.0
4-Nitrophenol	Ave	0.2985	0.3873	0.0100	9.73	7.50	29.7*	20.0
Dibenzofuran	Ave	1.904	1.923	0.8000	7.58	7.50	1.0	20.0
2,4-Dinitrotoluene	Ave	0.4764	0.4580	0.2000	7.21	7.50	-3.9	20.0
1-Naphthylamine	Ave	1.534	1.555		7.60	7.50	1.4	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3072	0.2730	0.0100	6.67	7.50	-11.1	20.0
2-Naphthylamine	Ave	1.535	1.522		7.44	7.50	-0.8	20.0
Diethyl phthalate	Ave	1.665	1.716	0.0100	7.73	7.50	3.1	20.0
Fluorene	Ave	1.582	1.595	0.9000	7.56	7.50	0.8	20.0
Thionazin	Ave	0.3340	0.3854		8.65	7.50	15.4	20.0
4-Chlorophenyl-phenyl ether	Ave	0.6507	0.6342	0.4000	7.31	7.50	-2.5	20.0
5-Nitro-o-toluidine	Ave	0.4603	0.4336		7.06	7.50	-5.8	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1

SDG No.:

Lab Sample ID: CCVIS 410-51967/2 Calibration Date: 10/07/2020 16:54

Instrument ID: HP20296 Calib Start Date: 07/15/2020 13:18

GC Column: DB-5MS 20m 0.18 ID: 0.18(mm) Calib End Date: 07/15/2020 16:51

Lab File ID: LJ0201.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Nitroaniline	Ave	0.4475	0.4263	0.0100	7.14	7.50	-4.7	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1241	0.1149	0.0100	6.94	7.50	-7.4	20.0
N-Nitrosodiphenylamine	Ave	0.6965	0.7407	0.0100	7.98	7.50	6.3	20.0
1,2-Diphenylhydrazine	Ave	1.197	1.541		9.66	7.50	28.8*	20.0
Sulfotepp	Ave	0.1990	0.2471		9.31	7.50	24.2*	20.0
cis-Diallate	Ave	0.4862	0.5778		6.59	5.55	18.8	20.0
Phorate	Ave	0.7514	0.9181		9.16	7.50	22.2*	20.0
Phenacetin	Ave	0.5534	0.6516		8.83	7.50	17.7	20.0
4-Bromophenyl-phenylether	Ave	0.1947	0.1833	0.1000	7.06	7.50	-5.9	20.0
trans-Diallate	Ave	0.4964	0.5795		2.28	1.95	16.7	20.0
Hexachlorobenzene	Ave	0.2125	0.2283	0.1000	8.06	7.50	7.4	20.0
Dimethoate	Ave	0.4957	0.5591		8.46	7.50	12.8	20.0
Atrazine	Ave	0.2082	0.2366	0.0100	8.53	7.50	13.7	20.0
Pentachlorophenol	Ave	0.1397	0.1194	0.0500	6.41	7.50	-14.5	20.0
4-Aminobiphenyl	Ave	0.6595	0.6813		7.75	7.50	3.3	20.0
Pentachloronitrobenzene	Ave	0.0993	0.1056		7.97	7.50	6.3	20.0
Pronamide	Ave	0.4029	0.4080		7.59	7.50	1.3	20.0
Dinoseb	Ave	0.1820	0.1762		7.26	7.50	-3.2	20.0
Phenanthrene	Ave	1.216	1.240	0.7000	7.65	7.50	2.0	20.0
Anthracene	Ave	1.233	1.272	0.7000	7.74	7.50	3.1	20.0
Carbazole	Ave	1.156	1.185	0.0100	7.69	7.50	2.5	20.0
Methyl parathion	Ave	0.3920	0.4159		7.96	7.50	6.1	20.0
Di-n-butyl phthalate	Ave	1.651	1.723	0.0100	7.83	7.50	4.4	20.0
Parathion	Ave	0.2387	0.2776		8.72	7.50	16.3	20.0
4-Nitroquinoline-1-oxide	Ave	0.1464	0.0660			7.50	-54.9*	20.0
Octachlorostyrene	Ave	0.0997	0.1085		8.16	7.50	8.9	20.0
Isodrin	Ave	0.1461	0.1382		7.10	7.50	-5.4	20.0
Fluoranthene	Ave	1.251	1.274	0.6000	7.64	7.50	1.8	20.0
Benzidine	Ave	0.9427	0.9008		21.5	22.5	-4.4	20.0
Pyrene	Ave	1.390	1.418	0.6000	7.65	7.50	2.0	20.0
p-Dimethylamino azobenzene	Ave	0.2139	0.2081		7.30	7.50	-2.7	20.0
Chlorobenzilate	Ave	0.5306	0.6231		8.81	7.50	17.4	20.0
3,3'-Dimethylbenzidine	Ave	0.8906	0.8899		7.49	7.50	-0.0	20.0
Butylbenzylphthalate	Ave	0.7568	0.8693	0.0100	8.61	7.50	14.9	20.0
2-Acetylaminofluorene	Ave	0.5791	0.6637		8.60	7.50	14.6	20.0
3,3'-Dichlorobenzidine	Ave	0.4549	0.4806	0.0100	7.92	7.50	5.7	20.0
Benzo[a]anthracene	Ave	1.157	1.271	0.8000	8.24	7.50	9.8	20.0
4,4'-Methylene bis(2-chloroaniline)	Ave	0.2379	0.2666			7.50	12.1	20.0
Chrysene	Ave	1.159	1.239	0.7000	8.02	7.50	6.9	20.0
Bis(2-ethylhexyl) phthalate	Ave	1.139	1.251	0.0100	8.23	7.50	9.8	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1

SDG No.:

Lab Sample ID: CCVIS 410-51967/2 Calibration Date: 10/07/2020 16:54

Instrument ID: HP20296 Calib Start Date: 07/15/2020 13:18

GC Column: DB-5MS 20m 0.18 ID: 0.18(mm) Calib End Date: 07/15/2020 16:51

Lab File ID: LJ0201.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
6-Methylchrysene	Ave	0.8047	0.8653		8.06	7.50	7.5	20.0
Di-n-octyl phthalate	Ave	2.105	2.132	0.0100	7.60	7.50	1.3	20.0
7,12-Dimethylbenz(a)anthracene	Ave	0.5383	0.5320		7.41	7.50	-1.2	20.0
Benzo[b]fluoranthene	Ave	1.278	1.269	0.7000	7.45	7.50	-0.6	20.0
Benzo[k]fluoranthene	Ave	1.229	1.219	0.7000	7.44	7.50	-0.8	20.0
Benzo[a]pyrene	Ave	1.192	1.211	0.7000	7.62	7.50	1.6	20.0
3-Methylcholanthrene	Ave	0.5892	0.5621		7.15	7.50	-4.6	20.0
Dibenz[a,h]acridine	Ave	0.9203	0.9441		7.69	7.50	2.6	20.0
Dibenz[a,j]acridine	Ave	0.9402	0.9332		7.44	7.50	-0.7	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.110	1.151	0.5000	7.77	7.50	3.6	20.0
Dibenz(a,h)anthracene	Ave	1.113	1.118	0.4000	7.53	7.50	0.4	20.0
Benzo[g,h,i]perylene	Ave	1.129	1.116	0.5000	7.42	7.50	-1.1	20.0
2-Fluorophenol (Surr)	Ave	1.587	1.631		15.4	15.0	2.8	20.0
Phenol-d5 (Surr)	Ave	2.046	2.132		15.6	15.0	4.2	20.0
Nitrobenzene-d5 (Surr)	Ave	0.5061	0.5601		16.6	15.0	10.7	20.0
2-Fluorobiphenyl (Surr)	Ave	1.569	1.607		15.4	15.0	2.4	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.1988	0.2042		15.4	15.0	2.7	20.0
p-Terphenyl-d14 (Surr)	Ave	0.9044	0.8918		14.8	15.0	-1.4	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201007-12332.b\LJ0201.D
Lims ID: CCVIS L5
Client ID:
Sample Type: CCVIS
Inject. Date: 07-Oct-2020 16:54:48 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS L5
Misc. Info.: 410-0012332-002
Operator ID: kel10217 Instrument ID: HP20296
Sublist: chrom-MSSemi_HP20296*sub6

Method: \\chromfs\Lancaster\ChromData\HP20296\20201007-12332.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Oct-2020 22:19:27 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1010

First Level Reviewer: luttek Date: 07-Oct-2020 17:29:56

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	2.141	2.141	0.000	98	151973	7.50	8.73	
2 N-Nitrosodimethylamine	74	2.708	2.708	0.000	92	250319	7.50	9.29	
3 Pyridine	79	2.762	2.762	0.000	94	400083	7.50	8.38	
5 2-Picoline	93	3.938	3.938	0.000	95	417506	7.50	7.57	
6 N-Nitrosomethylethylamine	88	4.104	4.104	0.000	96	171242	7.50	7.74	
9 Methyl methanesulfonate	80	4.591	4.591	0.000	87	221158	7.50	9.00	
$ 10 2-Fluorophenol	112	4.831	4.831	0.000	95	687658	15.0	15.4	
11 N-Nitrosodiethylamine	102	5.163	5.163	0.000	93	169600	7.50	7.94	
13 Ethyl methanesulfonate	109	5.639	5.639	0.000	96	178403	7.50	7.53	
15 Benzaldehyde	77	6.094	6.094	0.000	89	369422	7.50	8.66	
$ 16 Phenol-d5	99	6.238	6.238	0.000	95	898756	15.0	15.6	
17 Phenol	94	6.260	6.260	0.000	87	524019	7.50	8.08	
18 Aniline	93	6.265	6.265	0.000	83	617044	7.50	7.80	
19 Bis(2-chloroethyl)ether	93	6.383	6.383	0.000	93	409067	7.50	7.68	
20 2-Chlorophenol	128	6.431	6.431	0.000	92	319681	7.50	7.39	
22 1,3-Dichlorobenzene	146	6.655	6.655	0.000	88	316224	7.50	6.82	
* 24 1,4-Dichlorobenzene-d4	152	6.746	6.746	0.000	94	140507	5.00	5.00	
25 1,4-Dichlorobenzene	146	6.773	6.773	0.000	85	321274	7.50	6.84	
27 Benzyl alcohol	108	6.982	6.982	0.000	87	235742	7.50	7.14	
29 1,2-Dichlorobenzene	146	6.998	6.998	0.000	89	308233	7.50	6.92	
30 Indene	115	7.131	7.131	0.000	87	548208	7.50	8.11	
31 2-Methylphenol	108	7.180	7.180	0.000	97	331636	7.50	7.58	
32 2,2'-oxybis[1-chloropropane]	45	7.196	7.196	0.000	91	509474	7.50	8.47	
34 N-Nitrosopyrrolidine	100	7.351	7.351	0.000	90	185683	7.50	7.63	
35 Acetophenone	105	7.377	7.377	0.000	91	574100	7.50	8.07	
37 N-Nitrosodi-n-propylamine	70	7.404	7.404	0.000	82	318581	7.50	8.01	
38 N-Nitrosomorpholine	56	7.415	7.415	0.000	83	253534	7.50	9.40	
36 4-Methylphenol	108	7.420	7.420	0.000	91	371592	7.50	8.06	
39 2-Toluidine	106	7.431	7.431	0.000	89	567604	7.50	7.31	
40 Hexachloroethane	117	7.511	7.511	0.000	88	160247	7.50	7.52	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	7.602	7.602	0.000	91	920635	15.0	16.6	
42 Nitrobenzene	77	7.629	7.629	0.000	88	465991	7.50	8.28	
44 N-Nitrosopiperidine	114	7.870	7.870	0.000	79	163744	7.50	7.58	
46 Isophorone	82	8.019	8.019	0.000	98	778182	7.50	7.82	
47 2-Nitrophenol	139	8.132	8.132	0.000	87	145148	7.50	7.16	
48 2,4-Dimethylphenol	107	8.244	8.244	0.000	98	380176	7.50	8.17	
49 o,o',o''-Triethylphosphorothioat	198	8.356	8.356	0.000	93	107841	7.50	6.60	
51 Bis(2-chloroethoxy)methane	93	8.394	8.394	0.000	98	495947	7.50	7.78	
50 Benzoic acid	105	8.399	8.399	0.000	54	249738	10.0	8.06	M
52 2,4-Dichlorophenol	162	8.522	8.522	0.000	88	217468	7.50	6.93	
54 1,2,4-Trichlorobenzene	180	8.645	8.645	0.000	88	223213	7.50	6.89	
* 55 Naphthalene-d8	136	8.725	8.725	0.000	99	547887	5.00	5.00	
56 Naphthalene	128	8.757	8.757	0.000	98	902625	7.50	7.28	
57 4-Chloroaniline	127	8.875	8.875	0.000	93	382920	7.50	7.74	
58 2,6-Dichlorophenol	162	8.880	8.880	0.000	88	211959	7.50	6.96	
59 Hexachloropropene	213	8.907	8.907	0.000	93	125833	7.50	6.48	
S 53 Dinitrotoluene	165				0		15.0	14.5	
60 Hexachlorobutadiene	225	8.982	8.982	0.000	88	116726	7.50	6.86	
62 Quinoline	129	9.303	9.303	0.000	92	527786	7.50	6.91	
64 Caprolactam	113	9.431	9.431	0.000	74	97184	7.50	8.01	
65 N-Nitrosodi-n-butylamine	84	9.453	9.453	0.000	92	362665	7.50	9.13	
S 63 Diallate	86				0		7.50	8.87	
66 4-Chloro-3-methylphenol	107	9.699	9.699	0.000	90	302542	7.50	7.43	
67 Safrole, Total	162	9.774	9.774	0.000	71	186280	7.50	6.71	
69 2-Methylnaphthalene	142	9.886	9.886	0.000	90	556937	7.50	7.10	
70 1-Methylnaphthalene	142	10.041	10.041	0.000	91	534108	7.50	7.17	
71 Hexachlorocyclopentadiene	237	10.153	10.153	0.000	91	82409	7.50	4.98	
72 1,2,4,5-Tetrachlorobenzene	216	10.159	10.159	0.000	89	193299	7.50	7.58	
73 Isosafrole Peak 1	162	10.250	10.250	0.000	68	30763	1.20	1.06	
74 2,4,6-Trichlorophenol	196	10.362	10.362	0.000	88	136364	7.50	7.46	
75 2,4,5-Trichlorophenol	196	10.421	10.421	0.000	82	142350	7.50	7.36	
$ 76 2-Fluorobiphenyl (Surr)	172	10.506	10.506	0.000	98	1086662	15.0	15.4	
77 Isosafrole Peak 2	162	10.619	10.619	0.000	75	194846	6.30	6.37	
79 1,1'-Biphenyl	154	10.662	10.662	0.000	97	668296	7.50	8.19	
80 2-Chloronaphthalene	162	10.672	10.672	0.000	97	473271	7.50	7.36	
81 1-Chloronaphthalene	162	10.699	10.699	0.000	93	474303	7.50	8.29	
82 Phenyl ether	170	10.838	10.838	0.000	83	309990	7.50	7.62	
83 2-Nitroaniline	138	10.859	10.859	0.000	71	168109	7.50	7.64	
84 1,4-Naphthoquinone	158	10.972	10.972	0.000	70	190312	7.50	7.24	
85 1,4-Dinitrobenzene	168	11.105	11.105	0.000	85	74199	7.50	7.63	
86 Dimethyl phthalate	163	11.196	11.196	0.000	95	527859	7.50	7.42	
87 1,3-Dinitrobenzene	168	11.223	11.223	0.000	79	81664	7.50	7.43	
88 2,6-Dinitrotoluene	165	11.277	11.277	0.000	75	113311	7.50	7.25	
90 Acenaphthylene	152	11.335	11.335	0.000	99	710126	7.50	7.69	
91 3-Nitroaniline	138	11.528	11.528	0.000	87	135825	7.50	7.38	
* 92 Acenaphthene-d10	164	11.565	11.565	0.000	96	225435	5.00	5.00	
93 Acenaphthene	153	11.614	11.614	0.000	98	526245	7.50	7.71	
94 2,4-Dinitrophenol	184	11.699	11.699	0.000	70	68432	10.0	8.12	
98 Pentachlorobenzene	250	11.811	11.811	0.000	92	166824	7.50	7.59	
96 4-Nitrophenol	109	11.828	11.828	0.000	92	130950	7.50	9.73	
100 Dibenzofuran	168	11.870	11.870	0.000	95	650314	7.50	7.58	
99 2,4-Dinitrotoluene	165	11.886	11.886	0.000	78	154887	7.50	7.21	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 1-Naphthylamine	143	11.983	11.983	0.000	97	525914	7.50	7.60	
102 2,3,4,6-Tetrachlorophenol	232	12.058	12.058	0.000	86	92324	7.50	6.67	
103 2-Naphthylamine	143	12.095	12.095	0.000	93	514798	7.50	7.44	
104 Diethyl phthalate	149	12.239	12.239	0.000	95	580389	7.50	7.73	
105 Fluorene	166	12.325	12.325	0.000	92	539272	7.50	7.56	
106 Thionazin	107	12.336	12.336	0.000	70	130316	7.50	8.65	
108 4-Chlorophenyl phenyl ether	204	12.352	12.352	0.000	87	214466	7.50	7.31	
107 N-Nitro-o-toluidine	152	12.357	12.357	0.000	84	146613	7.50	7.06	
109 4-Nitroaniline	138	12.368	12.368	0.000	76	144139	7.50	7.14	
110 4,6-Dinitro-2-methylphenol	198	12.416	12.416	0.000	57	67700	7.50	6.94	
111 N-Nitrosodiphenylamine	169	12.496	12.496	0.000	98	436334	7.50	7.98	
112 1,2-Diphenylhydrazine	77	12.539	12.539	0.000	97	907971	7.50	9.66	
$ 113 2,4,6-Tribromophenol	330	12.624	12.624	0.000	84	138096	15.0	15.4	
114 Sulfotepp	97	12.726	12.726	0.000	76	145553	7.50	9.31	
115 cis-Diallate	86	12.865	12.865	0.000	90	251858	5.55	6.59	
116 Phorate	75	12.870	12.870	0.000	94	540839	7.50	9.16	
117 Phenacetin	108	12.897	12.897	0.000	89	383847	7.50	8.83	
118 4-Bromophenyl phenyl ether	248	12.945	12.945	0.000	79	107969	7.50	7.06	
119 trans-Diallate	86	12.967	12.967	0.000	97	88750	1.95	2.28	
120 Hexachlorobenzene	284	12.999	12.999	0.000	89	134478	7.50	8.06	
121 Dimethoate	87	13.074	13.074	0.000	95	329339	7.50	8.46	
122 Atrazine	200	13.181	13.181	0.000	78	139405	7.50	8.53	
123 Pentachlorophenol	266	13.266	13.266	0.000	87	70347	7.50	6.41	
125 Pentachloronitrobenzene	237	13.272	13.272	0.000	54	62200	7.50	7.97	
124 4-Aminobiphenyl	169	13.272	13.272	0.000	93	401322	7.50	7.75	
126 Pronamide	173	13.373	13.373	0.000	90	240328	7.50	7.59	
* 127 Phenanthrene-d10	188	13.491	13.491	0.000	96	392722	5.00	5.00	
128 Dinoseb	211	13.518	13.518	0.000	85	103807	7.50	7.26	
129 Phenanthrene	178	13.523	13.523	0.000	98	730658	7.50	7.65	
130 Anthracene	178	13.593	13.593	0.000	99	749202	7.50	7.74	
131 Carbazole	167	13.817	13.817	0.000	97	698034	7.50	7.69	
132 Methyl parathion	109	14.020	14.020	0.000	88	245011	7.50	7.96	
133 Di-n-butyl phthalate	149	14.325	14.325	0.000	99	1014833	7.50	7.83	
134 Ethyl Parathion	109	14.566	14.566	0.000	79	163532	7.50	8.72	
135 4-Nitroquinoline-1-oxide	190	14.587	14.587	0.000	79	38901	7.50	3.38	
136 Octachlorostyrene	308	14.914	14.914	0.000	89	63924	7.50	8.16	
137 Isodrin	193	14.962	14.962	0.000	79	81409	7.50	7.10	
138 Fluoranthene	202	15.186	15.186	0.000	99	750238	7.50	7.64	
139 Benzidine	184	15.422	15.422	0.000	99	1489827	22.5	21.5	
* 140 Pyrene-d10 (IS)	212	15.502	15.502	0.000	99	367544	5.00	5.00	s
141 Pyrene	202	15.529	15.529	0.000	95	781788	7.50	7.65	
$ 142 p-Terphenyl-d14	244	15.818	15.818	0.000	96	983325	15.0	14.8	
143 p-Dimethylamino azobenzene	225	16.048	16.048	0.000	87	114741	7.50	7.30	
144 Chlorobenzilate	139	16.139	16.139	0.000	75	343500	7.50	8.81	
145 3,3'-Dimethylbenzidine	212	16.615	16.615	0.000	97	490628	7.50	7.49	
146 Butyl benzyl phthalate	149	16.673	16.673	0.000	92	479251	7.50	8.61	
147 2-Acetylaminofluorene	181	17.048	17.048	0.000	94	365922	7.50	8.60	
148 3,3'-Dichlorobenzidine	252	17.556	17.556	0.000	79	264960	7.50	7.92	
149 Benzo[a]anthracene	228	17.561	17.561	0.000	98	700700	7.50	8.24	
150 4,4'-Methylene bis(2-chloroanil	231	17.572	17.572	0.000	92	147002	7.50	8.41	
151 Chrysene	228	17.625	17.625	0.000	96	683100	7.50	8.02	
152 Bis(2-ethylhexyl) phthalate	149	17.743	17.743	0.000	94	689421	7.50	8.23	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
153 6-Methylchrysene	242	18.433	18.433	0.000	97	477033	7.50	8.06	
154 Di-n-octyl phthalate	149	18.914	18.914	0.000	99	1277609	7.50	7.60	
156 7,12-Dimethylbenz(a)anthracene	256	19.433	19.433	0.000	72	318772	7.50	7.41	
155 Benzo[b]fluoranthene	252	19.433	19.433	0.000	97	760572	7.50	7.45	
157 Benzo[k]fluoranthene	252	19.481	19.481	0.000	98	730343	7.50	7.44	
158 Benzo[a]pyrene	252	19.963	19.963	0.000	82	725533	7.50	7.62	
* 159 Perylene-d12	264	20.054	20.054	0.000	95	399443	5.00	5.00	s
160 3-Methylcholanthrene	268	20.540	20.540	0.000	93	336769	7.50	7.15	
161 Dibenz[a,h]acridine	279	21.359	21.359	0.000	92	565674	7.50	7.69	
162 Dibenz[a,j]acridine	279	21.434	21.434	0.000	95	559130	7.50	7.44	
163 Indeno[1,2,3-cd]pyrene	276	21.680	21.680	0.000	96	689475	7.50	7.77	M
164 Dibenz(a,h)anthracene	278	21.717	21.717	0.000	95	669602	7.50	7.53	
165 Benzo[g,h,i]perylene	276	22.076	22.076	0.000	95	668825	7.50	7.42	
S 166 Isosafrole	162				0		7.50	7.43	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_5_00008 Amount Added: 1.00 Units: mL

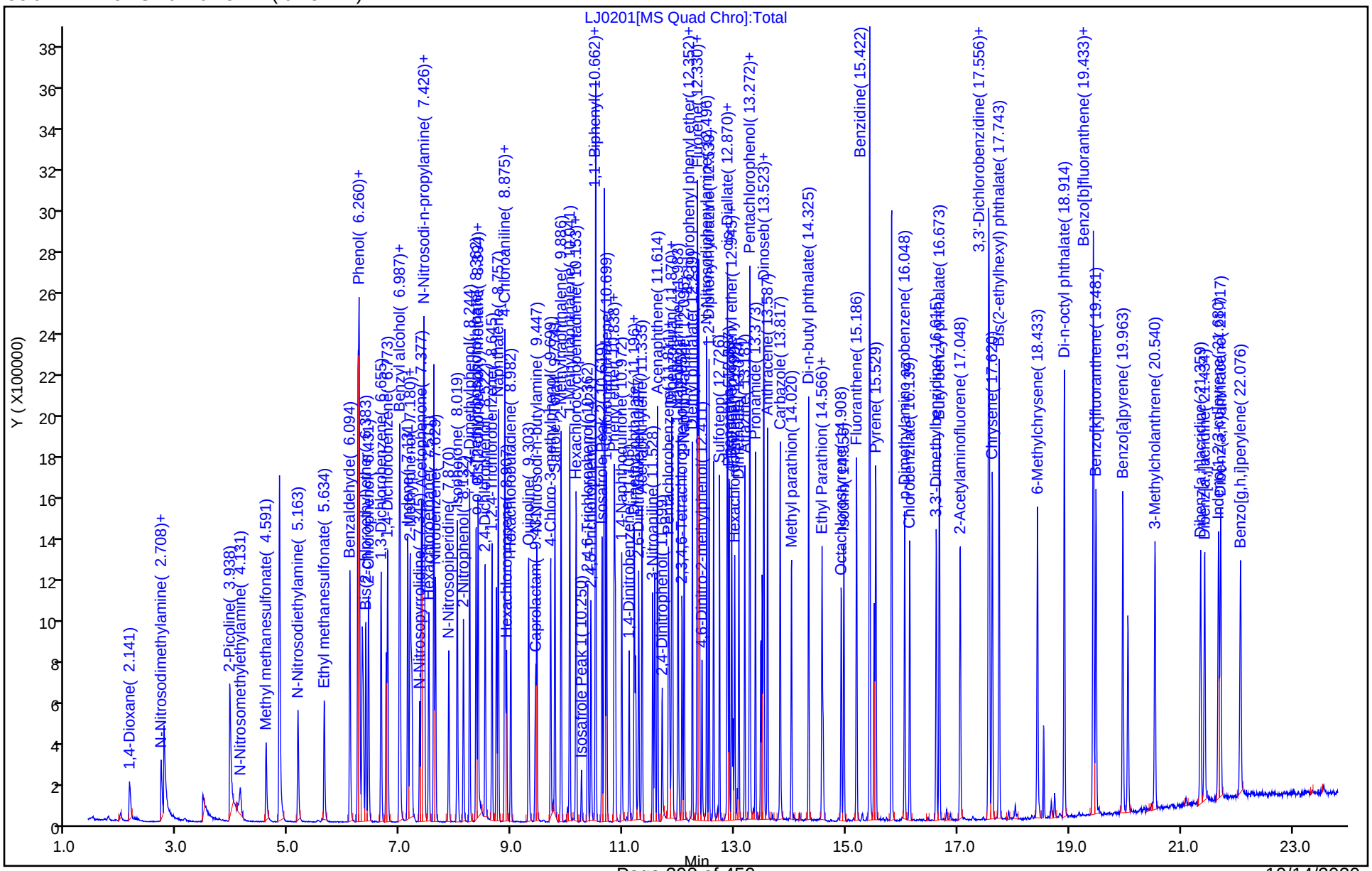
Report Date: 07-Oct-2020 22:19:29 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201007-12332.b\LJ0201.D

Injection Date:	07-Oct-2020 16:54:48	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	CCVIS L5			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

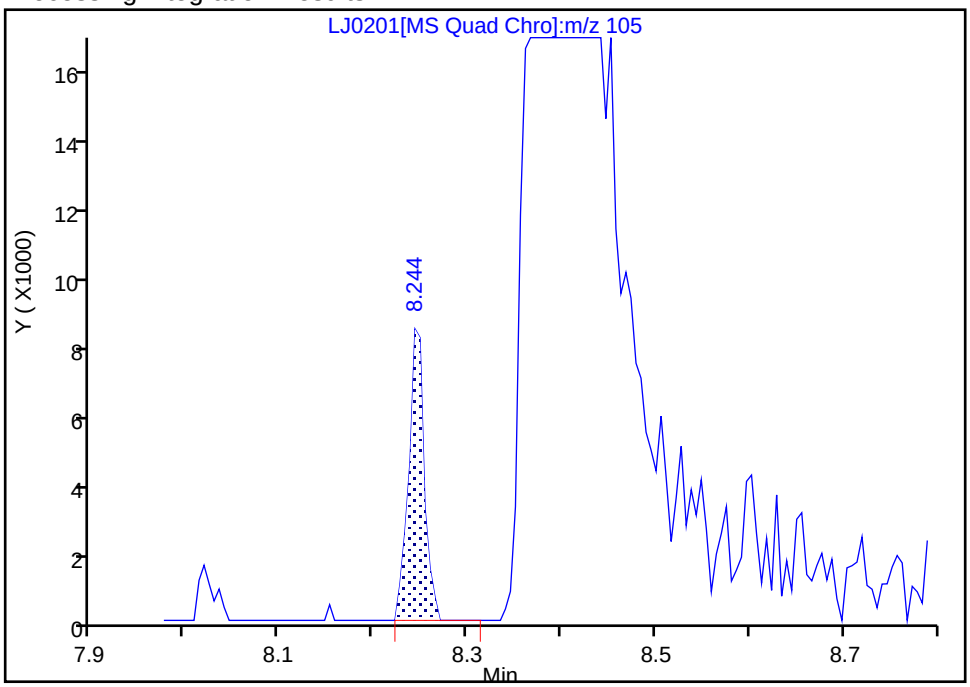
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201007-12332.b\LJ0201.D				
Injection Date:	07-Oct-2020 16:54:48	Instrument ID:	HP20296		
Lims ID:	CCVIS L5				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

50 Benzoic acid, CAS: 65-85-0

Signal: 1

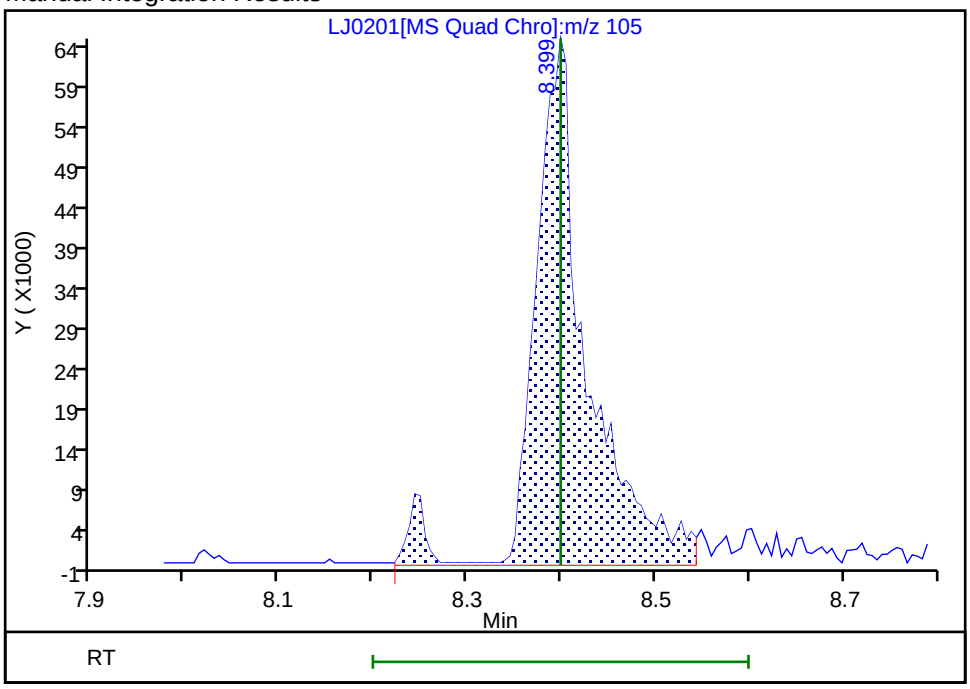
Processing Integration Results

RT: 8.24
Area: 9753
Amount: 0.314913
Amount Units: ug/ml



Manual Integration Results

RT: 8.40
Area: 249738
Amount: 8.063744
Amount Units: ug/ml



Reviewer: luttek, 07-Oct-2020 17:27:10

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

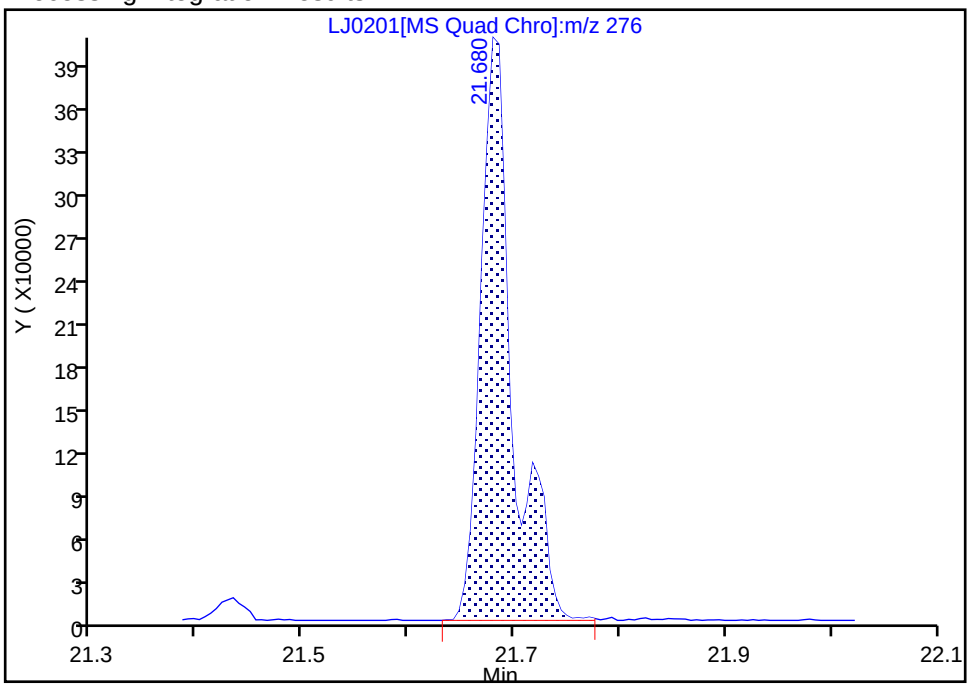
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201007-12332.b\LJ0201.D				
Injection Date:	07-Oct-2020 16:54:48	Instrument ID:	HP20296		
Lims ID:	CCVIS L5				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

163 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

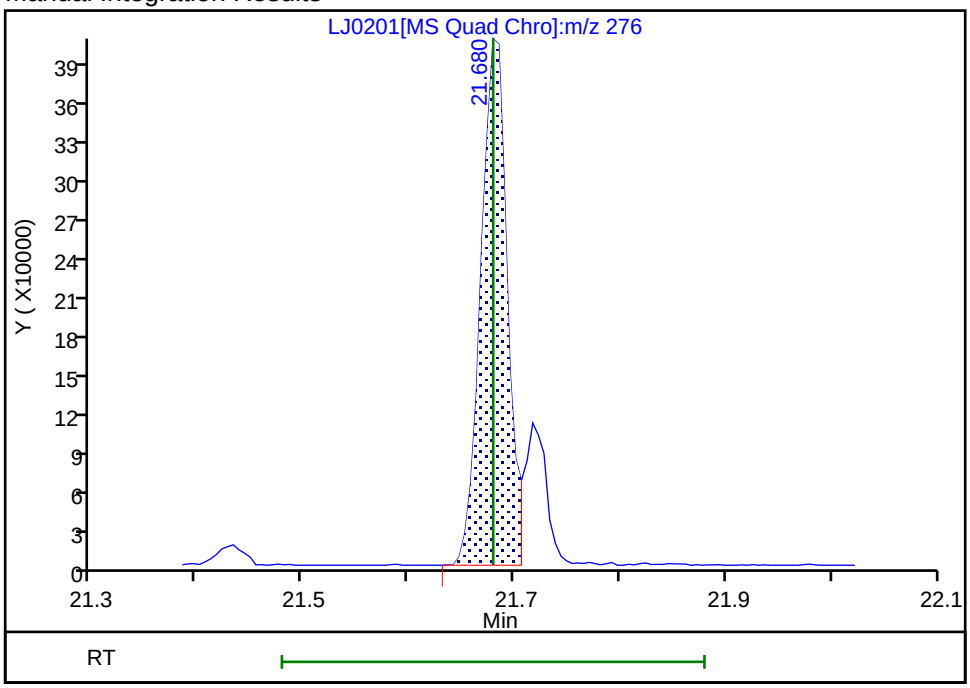
Processing Integration Results

RT: 21.68
Area: 841392
Amount: 9.484882
Amount Units: ug/ml



Manual Integration Results

RT: 21.68
Area: 689475
Amount: 7.772345
Amount Units: ug/ml



Reviewer: luttek, 07-Oct-2020 17:28:04
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0650z.D				
Lims ID:	DFTPP				
Client ID:					
Sample Type:	DFTPP				
Inject. Date:	15-Jul-2020 12:42:29	ALS Bottle#:	0	Worklist Smp#:	1
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	DFTPP				
Misc. Info.:	410-0005639-001				
Operator ID:	lmh00956	Instrument ID:	HP20296		
Method:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\MSSemi_HP20296.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	22-Jul-2020 14:43:24	Calib Date:	15-Jul-2020 16:51:20		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0658.D				
Column 1 :	DB-5MS 20m 0.18mm (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1017				
First Level Reviewer: molinec		Date:	22-Jul-2020 14:43:24		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 Pentachlorophenol_T	266	4.974	4.974	0.000	87	322394	NR	NR	
14 Benzidine_T	184	6.263	6.263	0.000	99	1991627	NR	NR	
178 DFTPP									
179 4,4'-DDE	246	6.424	6.424	0.000	1	1598		NR	
180 4,4'-DDD	235	6.723	6.723	0.000	54	2517		NR	
181 4,4'-DDT	235	7.001	7.001	0.000	95	789097	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

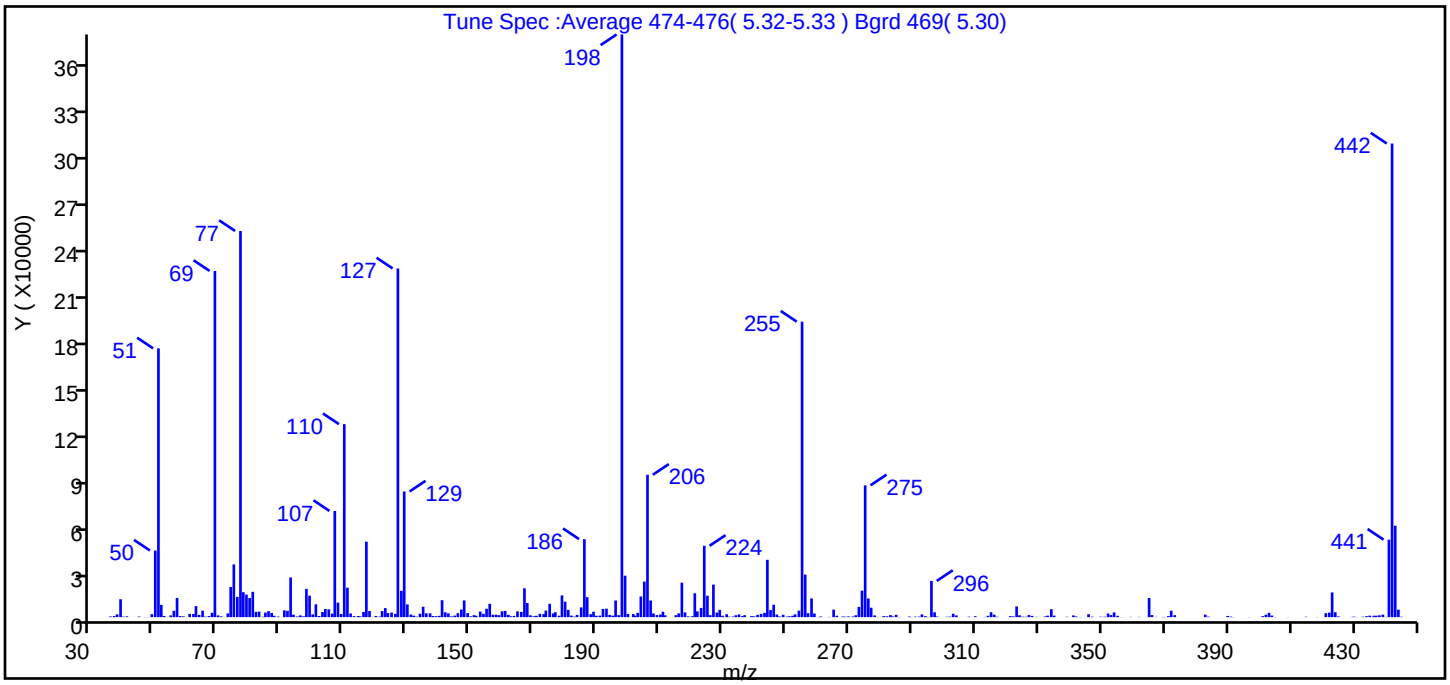
MSS_RVDFTPP_00004 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0650z.D
Injection Date: 15-Jul-2020 12:42:29 Instrument ID: HP20296
Lims ID: DFTPP
Client ID:
Operator ID: lmh00956 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI
Tune Method: DFTPP Method 8270D, BP 198

178 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (123.0)
51	10-80% of the base peak	46.1
68	<2% of mass 69	0.7 (1.2)
69	Present	59.4
70	<2% of mass 69	0.3 (0.5)
127	10-80% of the base peak	59.8
197	<2% of mass 198	0.3
199	5-9% of mass 198	7.1
275	10-60% of the base peak	22.6
365	>1% of mass 198	3.3
441	present but <24% of mass 442	13.3 (16.4)
442	base peak, or >50% of 198	81.3
443	15-24% of mass 442	15.7 (19.3)

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0650z.D\MSSemi_HP20296.rslt\spectra.d
Injection Date: 15-Jul-2020 12:42:29
Spectrum: Tune Spec :Average 474-476(5.32-5.33) Bgrd 469(5.30)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 328

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	458	127.00	222272	209.00	1337	301.00	219
37.00	747	128.00	16768	210.00	1632	302.00	333
38.00	1761	129.00	80080	211.00	3477	303.00	2191
39.00	11415	130.00	8128	212.00	1154	304.00	1120
40.00	296	131.00	1625	215.00	1240	308.00	319
41.00	509	132.00	961	216.00	2378	310.00	596
45.00	378	133.00	327	217.00	21960	313.00	124
47.00	102	134.00	2162	218.00	3028	314.00	864
48.00	87	135.00	6622	219.00	484	315.00	3147
49.00	1856	136.00	2471	220.00	605	316.00	1570
50.00	42456	137.00	2429	221.00	15221	317.00	276
51.00	171328	138.00	726	222.00	3659	321.00	621
52.00	7822	139.00	624	223.00	5882	322.00	500
53.00	774	140.00	820	224.00	45488	323.00	6833
55.00	1113	141.00	10789	225.00	13679	324.00	1195
56.00	4041	142.00	3136	226.00	1261	325.00	304
57.00	12252	143.00	2382	227.00	20720	326.00	257
58.00	713	144.00	480	228.00	2901	327.00	1336
59.00	483	145.00	982	229.00	4628	328.00	802
61.00	2070	146.00	2533	230.00	907	329.00	192
62.00	2044	147.00	4860	231.00	1832	332.00	427
63.00	7031	148.00	10644	232.00	307	333.00	935
64.00	1430	149.00	2557	233.00	379	334.00	5070
65.00	4104	150.00	547	234.00	1210	335.00	980
66.00	306	151.00	1262	235.00	1700	339.00	232
67.00	688	152.00	902	236.00	709	341.00	1105
68.00	2753	153.00	3550	237.00	1247	342.00	443
69.00	220672	154.00	2106	239.00	673	343.00	117
70.00	1112	155.00	5348	240.00	467	346.00	1870
71.00	494	156.00	8493	241.00	1435	347.00	311
73.00	2349	157.00	1502	242.00	2095	350.00	263
74.00	19192	158.00	1564	243.00	2751	351.00	273
75.00	33624	159.00	1260	244.00	36552	352.00	2306

Report Date: 22-Jul-2020 14:43:25 Chrom Revision: 2.3 30-Jun-2020 12:05:54
Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0650z.D\MSSemi_HP20296.rslt\spectra.d
Injection Date: 15-Jul-2020 12:42:29
Spectrum: Tune Spec :Average 474-476(5.32-5.33) Bgrd 469(5.30)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 328

m/z	Y	m/z	Y	m/z	Y	m/z	Y
76.00	12892	160.00	3705	245.00	4527	353.00	1299
77.00	246144	161.00	3976	246.00	7866	354.00	3006
78.00	15899	162.00	1476	247.00	1685	355.00	856
79.00	14360	163.00	556	248.00	443	356.00	91
80.00	12183	164.00	827	249.00	1494	359.00	166
81.00	16129	165.00	3694	250.00	345	362.00	159
82.00	3366	166.00	3325	251.00	558	365.00	12190
83.00	3535	167.00	18392	252.00	888	366.00	1347
84.00	240	168.00	9005	253.00	1735	367.00	152
85.00	2912	169.00	1170	254.00	4113	370.00	109
86.00	3831	170.00	589	255.00	188352	370.00	100
87.00	2665	171.00	883	256.00	27128	371.00	692
88.00	851	172.00	2132	257.00	2497	372.00	4128
89.00	385	173.00	1947	258.00	11938	373.00	1257
91.00	4327	174.00	4179	259.00	2296	383.00	1578
92.00	4018	175.00	8542	260.00	108	384.00	346
93.00	25296	176.00	2336	261.00	421	390.00	756
94.00	1556	177.00	3136	264.00	132	391.00	341
95.00	432	178.00	919	264.00	47	392.00	95
96.00	1135	179.00	13853	265.00	4801	397.00	114
97.00	526	180.00	9861	266.00	886	401.00	622
98.00	17992	181.00	4636	268.00	372	402.00	1548
99.00	13709	182.00	986	269.00	324	403.00	2768
100.00	1767	183.00	336	270.00	480	404.00	1006
101.00	8186	184.00	1425	271.00	414	405.00	102
102.00	712	185.00	6195	272.00	1188	409.00	86
103.00	3242	186.00	49728	273.00	6512	415.00	254
104.00	5223	187.00	12728	274.00	16872	418.00	83
105.00	4983	188.00	1876	275.00	84024	421.00	2528
106.00	2270	189.00	3452	276.00	11892	422.00	2863
107.00	67680	190.00	890	277.00	6002	423.00	15736
108.00	9267	191.00	979	278.00	1106	424.00	3129
109.00	2035	192.00	5225	279.00	117	425.00	468
110.00	123024	193.00	5403	281.00	668	429.00	117

Report Date: 22-Jul-2020 14:43:25 Chrom Revision: 2.3 30-Jun-2020 12:05:54
Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0650z.D\MSSemi_HP20296.rslt\spectra.d
Injection Date: 15-Jul-2020 12:42:29
Spectrum: Tune Spec :Average 474-476(5.32-5.33) Bgrd 469(5.30)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 328

m/z	Y	m/z	Y	m/z	Y	m/z	Y
111.00	18792	194.00	1434	282.00	551	430.00	306
112.00	2322	195.00	954	283.00	1323	431.00	84
113.00	643	196.00	10607	284.00	502	433.00	286
114.00	744	197.00	1293	285.00	1491	434.00	638
115.00	514	198.00	371392	286.00	127	435.00	943
116.00	3316	199.00	26416	289.00	377	436.00	903
117.00	48104	200.00	2006	290.00	96	437.00	952
118.00	3922	202.00	1972	291.00	326	438.00	1179
120.00	774	202.00	913	292.00	337	439.00	1603
121.00	363	203.00	2725	293.00	1766	440.00	94
122.00	3850	204.00	13175	294.00	642	441.00	49392
123.00	5757	205.00	22672	295.00	103	442.00	301888
124.00	2629	206.00	90752	296.00	23088	443.00	58272
125.00	2903	207.00	10591	297.00	3100	444.00	4775
126.00	2088	208.00	2377	298.00	386	445.00	241

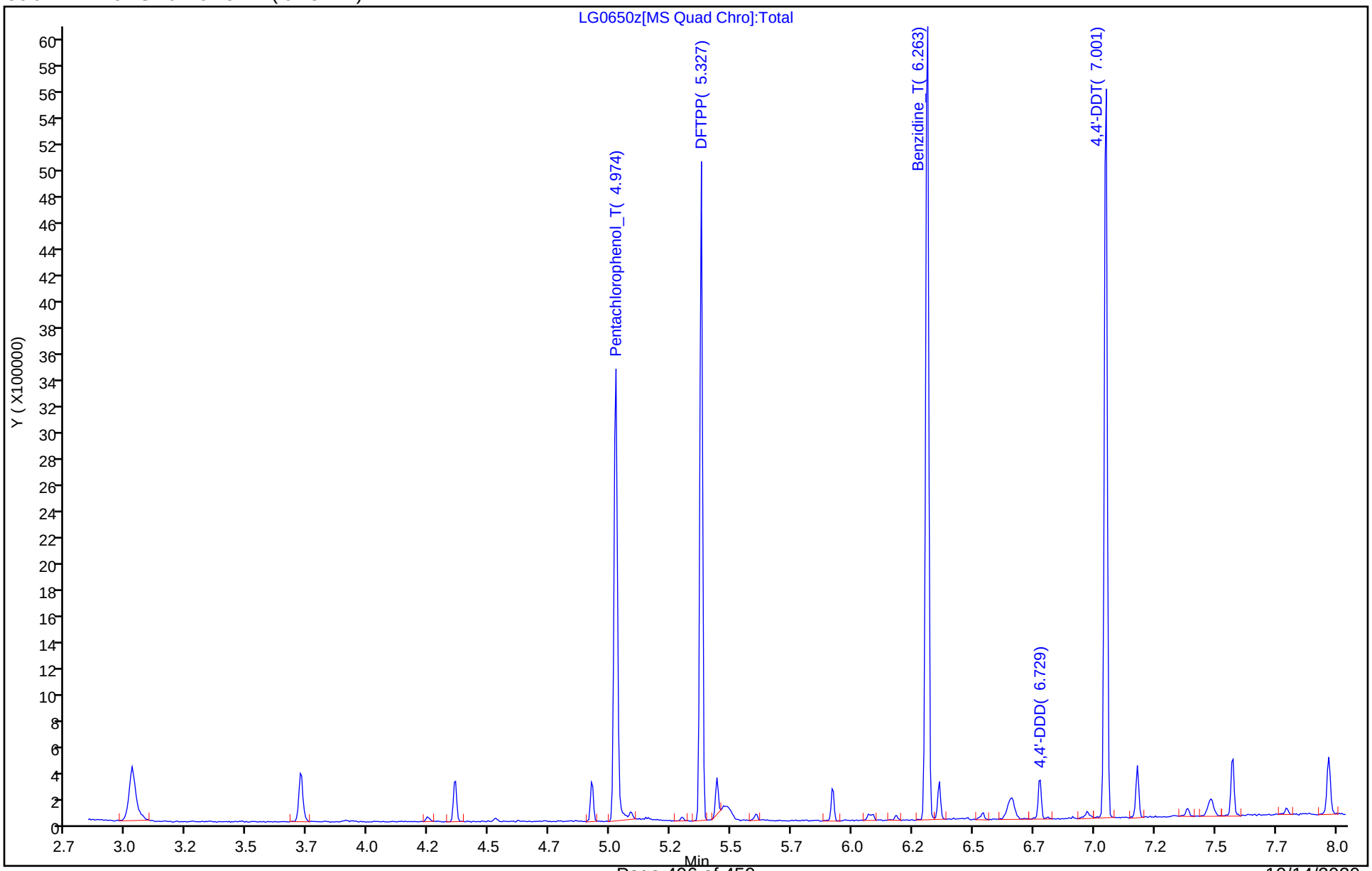
Report Date: 22-Jul-2020 14:43:25 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0650z.D

Injection Date:	15-Jul-2020 12:42:29	Instrument ID:	HP20296	Operator ID:	lmh00956
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



Breakdown Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0650z.D
Injection Date: 15-Jul-2020 12:42:29 Instrument ID: HP20296
Lims ID: DFTPP
Client ID:
Operator ID: lmh00956 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI

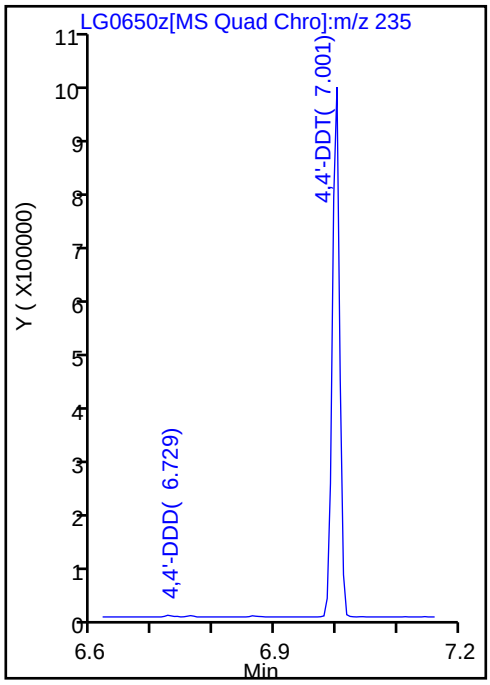
181 4,4'-DDT, Detector: MS Quad

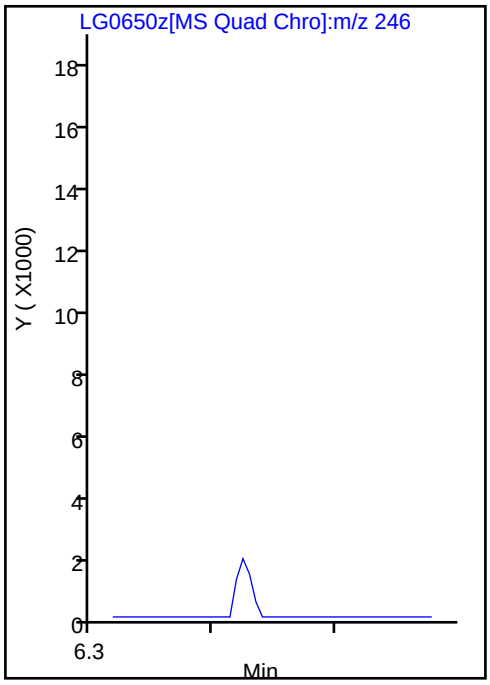
SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

181 4,4'-DDT, Area = 789097
180 4,4'-DDD, Area = 2517
179 4,4'-DDE, Area = 1598

%Breakdown: 0.52%, <= 20.00%
Passed





Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

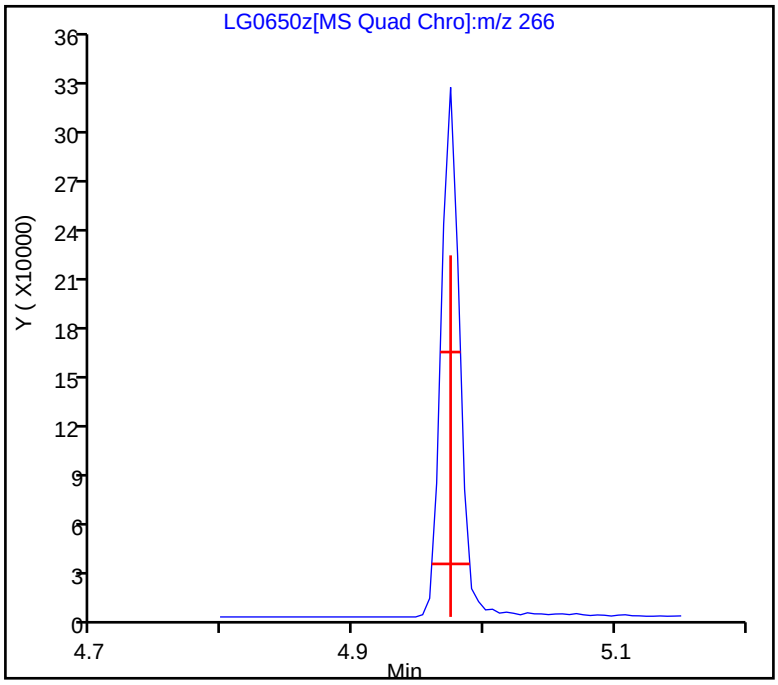
Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0650z.D
Injection Date: 15-Jul-2020 12:42:29 Instrument ID: HP20296
Lims ID: DFTPP
Client ID:
Operator ID: lmh00956 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI

8 Pentachlorophenol_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.015 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 1.1, Max. Tailing < 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

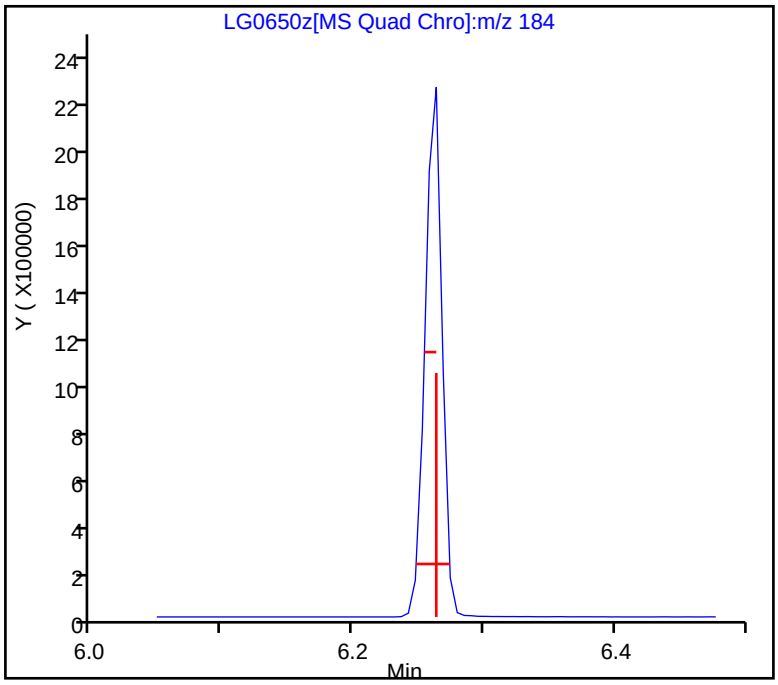
Data File: \\chromfs\Lancaster\ChromData\HP20296\20200715-5639.b\LG0650z.D
Injection Date: 15-Jul-2020 12:42:29 Instrument ID: HP20296
Lims ID: DFTPP
Client ID:
Operator ID: lmh00956 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI

14 Benzidine_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.010 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 0.7, Max. Tailing < 2.00
Passed



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0150.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 06-Oct-2020 17:57:12 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0012211-001
Operator ID: kel10217 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 06-Oct-2020 23:00:56 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1014

First Level Reviewer: luttek Date: 06-Oct-2020 18:11:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 Pentachlorophenol_T	266	4.632	4.632	0.000	81	156724	NR	NR	
14 Benzidine_T	184	5.916	5.916	0.000	99	855253	NR	NR	
178 DFTPP									
179 4,4'-DDE	246	6.082	6.082	0.000	1	1786		NR	
180 4,4'-DDD	235	6.371	6.371	0.000	70	6507		NR	
181 4,4'-DDT	235	6.643	6.643	0.000	92	427016	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

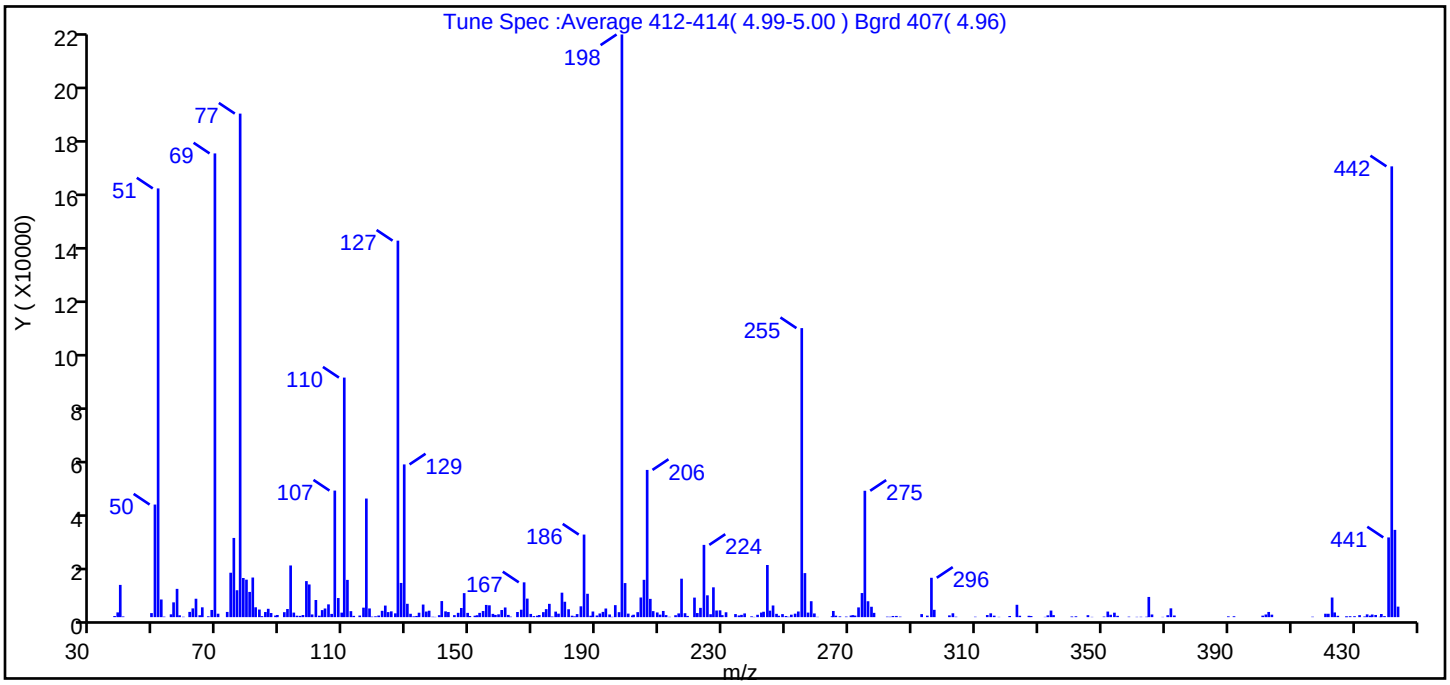
MSS_RVDFTPP_00005 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0150.D
Injection Date: 06-Oct-2020 17:57:12 Instrument ID: HP20296
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI
Tune Method: DFTPP Method 8270D, BP 198

178 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (129.3)
51	10-80% of the base peak	73.6
68	<2% of mass 69	1.2 (1.5)
69	Present	79.6
70	<2% of mass 69	0.6 (0.7)
127	10-80% of the base peak	64.6
197	<2% of mass 198	0.9
199	5-9% of mass 198	5.8
275	10-60% of the base peak	21.7
365	>1% of mass 198	3.5
441	present but <24% of mass 442	13.7 (17.7)
442	base peak, or >50% of 198	77.4
443	15-24% of mass 442	15.0 (19.4)

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0150.D\MSSemi_HP20296.rslt\spectra.d
Injection Date: 06-Oct-2020 17:57:12
Spectrum: Tune Spec :Average 412-414(4.99-5.00) Bgrd 407(4.96)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 291

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	412	125.00	2154	200.00	1303	285.00	447
38.00	1768	126.00	1408	201.00	585	286.00	187
39.00	11971	127.00	139776	202.00	894	293.00	1135
40.00	260	128.00	12693	203.00	1858	295.00	557
49.00	1504	129.00	56704	204.00	7295	296.00	14618
50.00	41800	130.00	4956	205.00	13860	297.00	2725
51.00	159168	131.00	1245	206.00	54656	302.00	654
52.00	6554	132.00	281	207.00	6784	303.00	1439
53.00	189	133.00	443	208.00	2238	304.00	164
55.00	1045	134.00	1646	209.00	1740	310.00	158
56.00	5491	135.00	4678	210.00	928	314.00	776
57.00	10498	136.00	2080	211.00	2296	315.00	1426
58.00	686	137.00	2389	212.00	749	316.00	553
59.00	151	138.00	148	213.00	127	318.00	107
61.00	1949	139.00	100	215.00	707	321.00	424
62.00	3252	140.00	730	216.00	1388	323.00	4588
63.00	6835	141.00	5968	217.00	14275	324.00	520
64.00	707	142.00	2144	218.00	1457	327.00	501
65.00	3648	143.00	1894	219.00	452	328.00	405
67.00	298	145.00	748	221.00	7254	332.00	106
68.00	2664	146.00	1597	222.00	1520	333.00	672
69.00	172160	147.00	3397	223.00	3446	334.00	2442
70.00	1274	148.00	8910	224.00	26832	335.00	746
73.00	1935	149.00	1583	225.00	8103	341.00	255
74.00	16488	150.00	428	226.00	1084	341.00	16
75.00	29408	151.00	526	227.00	11072	342.00	326
76.00	9992	152.00	697	228.00	2470	346.00	728
77.00	186944	153.00	1587	229.00	2524	347.00	97
78.00	14529	154.00	2269	230.00	741	351.00	214
79.00	13915	155.00	4536	231.00	1811	352.00	2074
80.00	9365	156.00	4398	234.00	1138	353.00	876
81.00	14708	157.00	1213	235.00	615	354.00	1654
82.00	3662	158.00	830	236.00	848	355.00	485

Report Date: 06-Oct-2020 23:00:56 Chrom Revision: 2.3 24-Sep-2020 19:22:38
Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0150.D\MSSemi_HP20296.rslt\spectra.d
Injection Date: 06-Oct-2020 17:57:12
Spectrum: Tune Spec :Average 412-414(4.99-5.00) Bgrd 407(4.96)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 291

m/z	Y	m/z	Y	m/z	Y	m/z	Y
83.00	2825	159.00	1046	237.00	1381	359.00	185
84.00	367	160.00	2646	239.00	291	361.00	116
85.00	1898	161.00	3587	240.00	88	362.00	141
86.00	3100	162.00	830	241.00	876	364.00	161
87.00	1526	163.00	198	242.00	1705	365.00	7500
88.00	596	165.00	1910	243.00	2003	366.00	993
89.00	804	166.00	2763	244.00	19360	369.00	96
91.00	1842	167.00	12923	245.00	2411	371.00	722
92.00	3018	168.00	6884	246.00	4332	372.00	3273
93.00	19184	169.00	1192	247.00	1229	373.00	605
94.00	1688	170.00	380	248.00	525	390.00	297
95.00	541	171.00	540	249.00	1125	392.00	336
96.00	473	172.00	791	250.00	414	401.00	560
97.00	781	173.00	1857	251.00	151	402.00	986
98.00	13383	174.00	2971	252.00	910	403.00	1925
99.00	12132	175.00	4938	253.00	1287	404.00	918
100.00	1001	176.00	231	254.00	2102	417.00	163
101.00	6363	177.00	2055	255.00	107304	421.00	1268
102.00	538	178.00	1292	256.00	16348	422.00	1257
103.00	2611	179.00	9086	257.00	1685	423.00	7285
104.00	3211	180.00	5715	258.00	5919	424.00	1744
105.00	4746	181.00	2930	259.00	1372	425.00	499
106.00	1203	182.00	534	260.00	115	428.00	215
107.00	46984	183.00	289	265.00	338	428.00	253
108.00	7097	184.00	1132	265.00	2290	429.00	349
109.00	1674	185.00	4024	266.00	543	430.00	354
110.00	88936	186.00	30656	267.00	287	432.00	743
111.00	13833	187.00	8679	269.00	210	433.00	250
112.00	2223	188.00	527	271.00	590	434.00	1037
113.00	473	189.00	2096	271.00	741	435.00	551
115.00	592	190.00	611	272.00	570	436.00	983
116.00	3522	191.00	1362	273.00	3618	437.00	807
117.00	44032	192.00	1944	274.00	8949	438.00	150
118.00	3231	193.00	3204	275.00	46920	439.00	1164

Report Date: 06-Oct-2020 23:00:56 Chrom Revision: 2.3 24-Sep-2020 19:22:38
Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0150.D\MSSemi_HP20296.rslt\spectra.d
Injection Date: 06-Oct-2020 17:57:12
Spectrum: Tune Spec :Average 412-414(4.99-5.00) Bgrd 407(4.96)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 291

m/z	Y	m/z	Y	m/z	Y	m/z	Y
119.00	197	194.00	993	276.00	5905	440.00	383
120.00	309	195.00	118	277.00	3850	441.00	29600
121.00	599	196.00	4454	278.00	1590	442.00	167360
122.00	2352	197.00	1846	282.00	186	443.00	32400
123.00	4296	198.00	216320	283.00	149	444.00	3898
124.00	1873	199.00	12647	284.00	434		

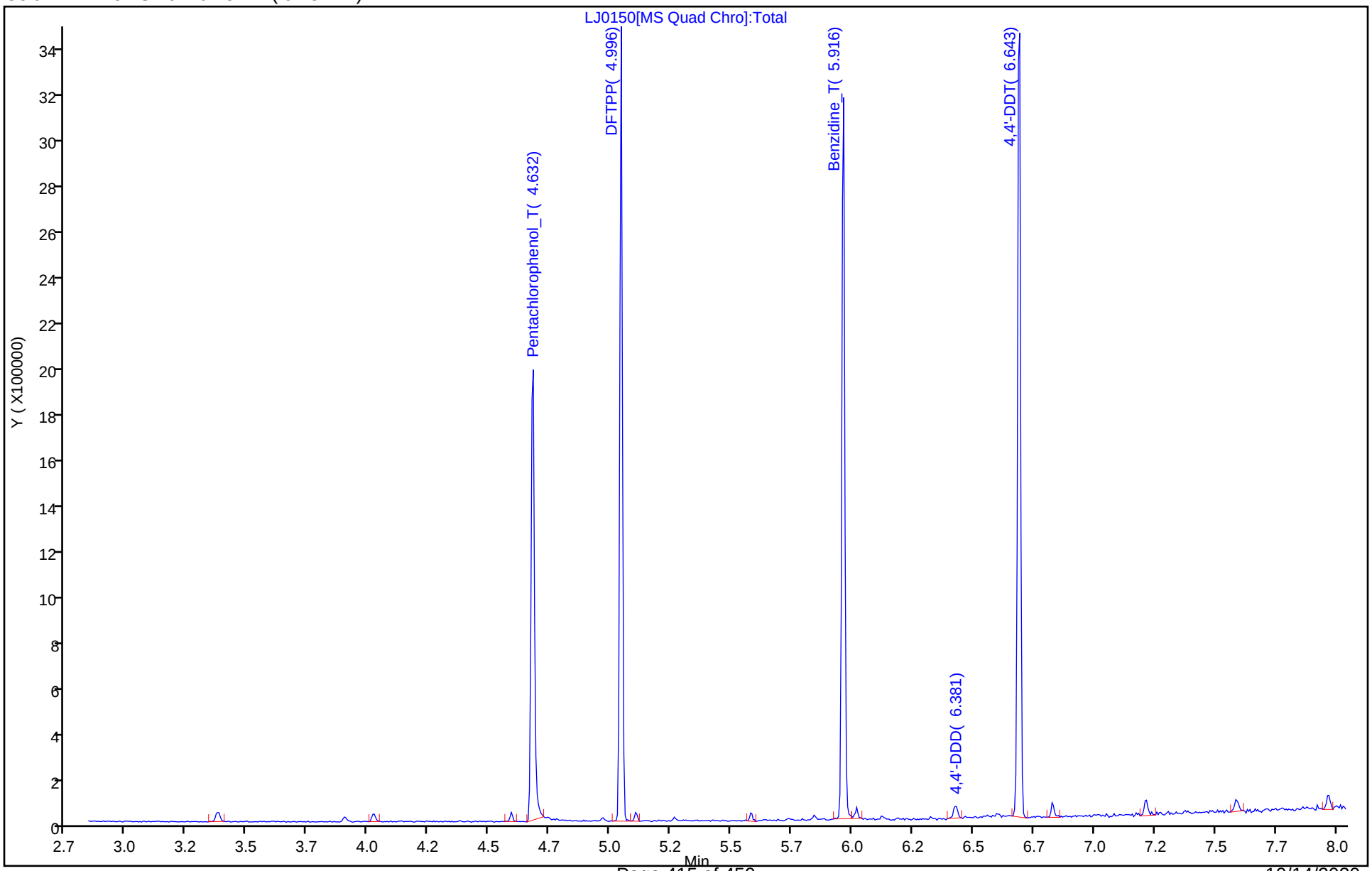
Report Date: 06-Oct-2020 23:00:56 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0150.D

Injection Date:	06-Oct-2020 17:57:12	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)

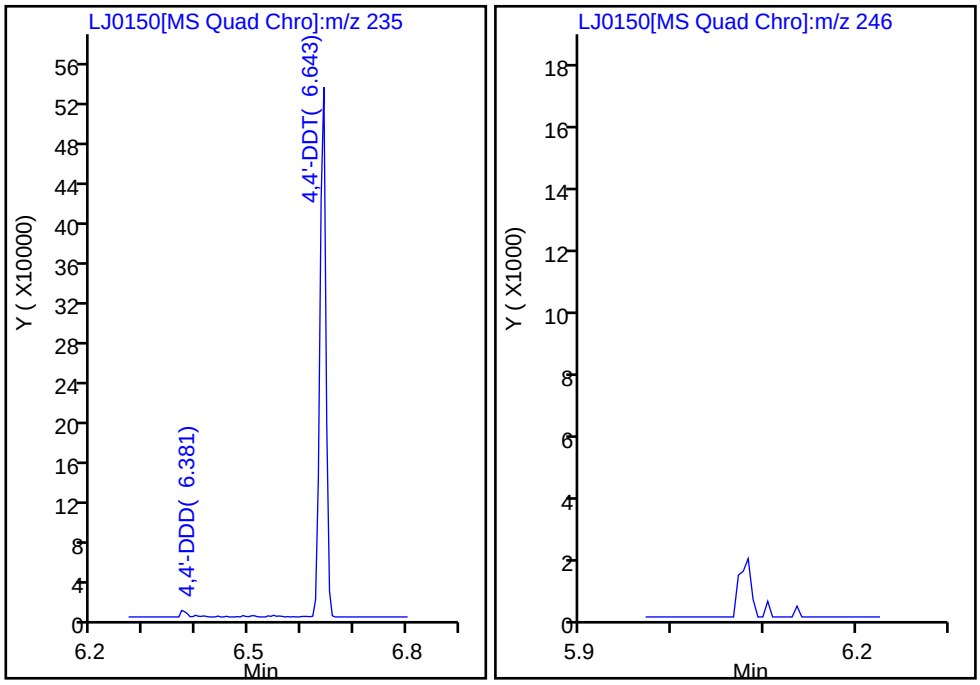


Breakdown Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0150.D				
Injection Date:	06-Oct-2020 17:57:12	Instrument ID:	HP20296		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	1
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

181 4,4'-DDT, Detector: MS Quad



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

181 4,4'-DDT, Area = 427016
180 4,4'-DDD, Area = 6507
179 4,4'-DDE, Area = 1786

%Breakdown: 1.91%, <= 20.00%
Passed

Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

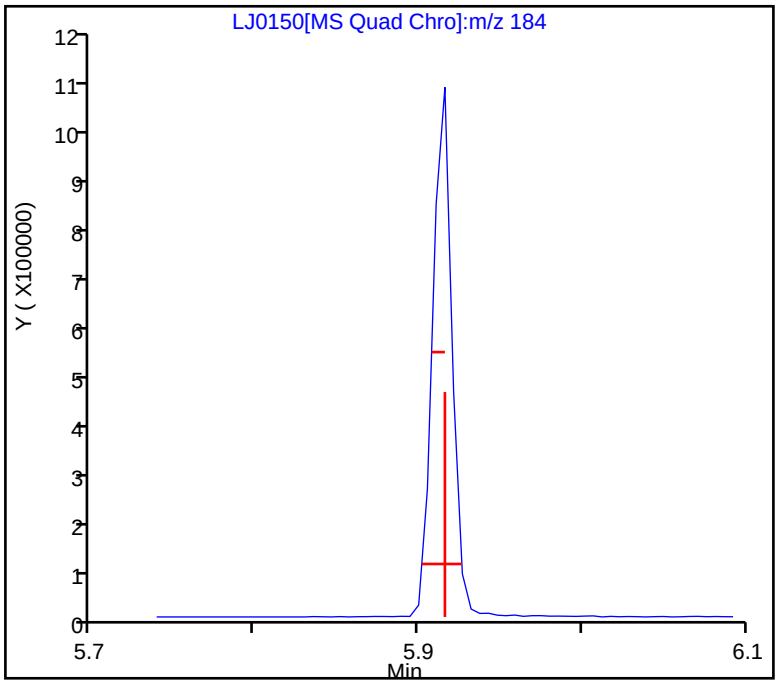
Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0150.D
Injection Date: 06-Oct-2020 17:57:12 Instrument ID: HP20296
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI

14 Benzidine_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.010 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 0.7, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

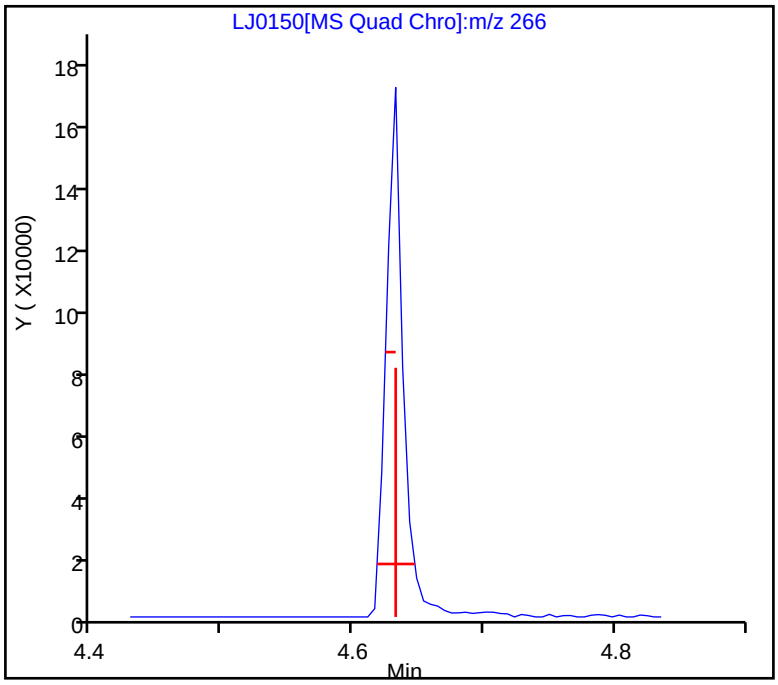
Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0150.D
Injection Date: 06-Oct-2020 17:57:12 Instrument ID: HP20296
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI

8 Pentachlorophenol_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.015 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 1.1, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201007-12251.b\LJ0180.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 07-Oct-2020 08:05:33 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0012251-001
Operator ID: knb25316 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201007-12251.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Oct-2020 09:22:15 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1017

First Level Reviewer: beckk Date: 07-Oct-2020 09:22:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 Pentachlorophenol_T	266	4.632	4.632	0.000	81	217040	NR	NR	
14 Benzidine_T	184	5.910	5.910	0.000	98	1148687	NR	NR	
178 DFTPP									
179 4,4'-DDE	246	6.071	6.071	0.000	1	1262		NR	
180 4,4'-DDD	235	6.360	6.360	0.000	54	11417		NR	
181 4,4'-DDT	235	6.622	6.622	0.000	93	570295	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

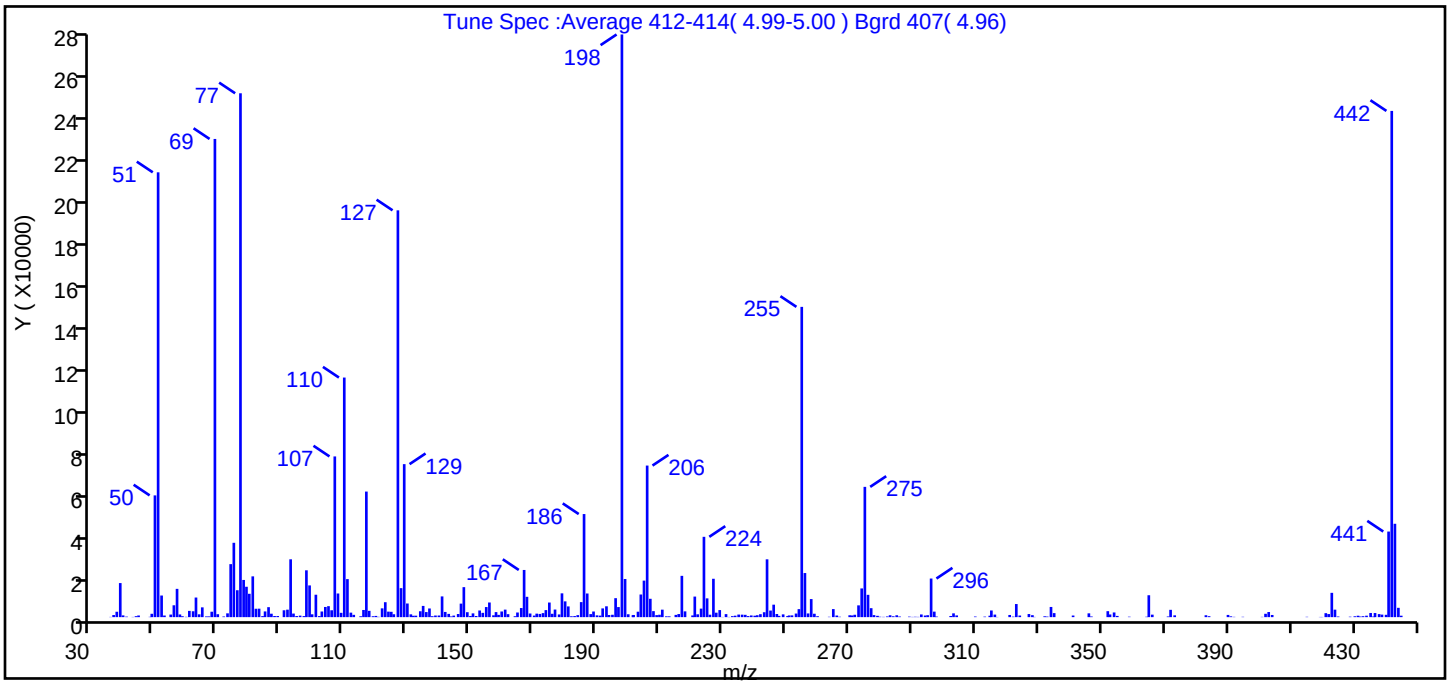
MSS_RVDFTPP_00005 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201007-12251.b\LJ0180.D
Injection Date: 07-Oct-2020 08:05:33 Instrument ID: HP20296
Lims ID: DFTPP
Client ID:
Operator ID: knb25316 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI
Tune Method: DFTPP Method 8270D, BP 198

178 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (115.1)
51	10-80% of the base peak	76.3
68	<2% of mass 69	0.9 (1.1)
69	Present	82.1
70	<2% of mass 69	0.5 (0.6)
127	10-80% of the base peak	69.8
197	<2% of mass 198	1.7
199	5-9% of mass 198	6.5
275	10-60% of the base peak	22.4
365	>1% of mass 198	3.8
441	present but <24% of mass 442	14.7 (16.9)
442	base peak, or >50% of 198	86.9
443	15-24% of mass 442	16.0 (18.4)

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201007-12251.b\LJ0180.D\MSSemi_HP20296.rslt\spectra.d
Injection Date: 07-Oct-2020 08:05:33
Spectrum: Tune Spec :Average 412-414(4.99-5.00) Bgrd 407(4.96)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 315

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	106	122.00	4113	202.00	1016	290.00	117
37.00	984	123.00	6990	203.00	2543	291.00	175
38.00	2524	124.00	2578	204.00	10595	292.00	125
39.00	15946	125.00	2501	205.00	17096	293.00	1257
40.00	816	126.00	1356	206.00	70944	294.00	757
41.00	242	127.00	190400	207.00	8589	295.00	909
43.00	96	128.00	13572	208.00	2811	296.00	18072
44.00	454	129.00	71608	209.00	952	297.00	2583
45.00	768	130.00	6387	210.00	1118	298.00	275
48.00	153	131.00	1309	211.00	3503	302.00	540
49.00	1572	132.00	647	212.00	379	303.00	1776
50.00	56984	133.00	687	213.00	371	304.00	806
51.00	208192	134.00	2752	215.00	1054	310.00	285
52.00	10118	135.00	5256	216.00	1445	313.00	245
53.00	755	136.00	2374	217.00	19328	315.00	670
55.00	1206	137.00	4058	218.00	2705	315.00	3121
56.00	5556	138.00	435	220.00	795	316.00	1191
57.00	13238	139.00	752	221.00	9626	317.00	88
58.00	1259	140.00	759	222.00	1322	321.00	1020
59.00	434	141.00	9703	223.00	3989	322.00	240
60.00	141	142.00	2438	224.00	37592	323.00	6135
61.00	2929	143.00	1524	225.00	8786	324.00	756
62.00	2754	144.00	322	226.00	1136	327.00	1455
63.00	9178	145.00	726	227.00	17960	328.00	922
64.00	1323	146.00	1459	228.00	2088	329.00	112
65.00	4581	147.00	6326	229.00	3306	332.00	393
66.00	336	148.00	14037	230.00	91	333.00	264
67.00	349	149.00	2310	231.00	1414	334.00	4765
68.00	2541	150.00	550	232.00	99	335.00	1887
69.00	223808	151.00	1764	233.00	469	341.00	757
70.00	1371	152.00	531	234.00	675	346.00	1781
72.00	304	153.00	3110	235.00	1203	347.00	308
73.00	1782	154.00	2010	236.00	1162	352.00	2795

Report Date: 07-Oct-2020 09:22:15 Chrom Revision: 2.3 06-Oct-2020 14:45:12
Data File: \\chromfs\Lancaster\ChromData\HP20296\20201007-12251.b\LJ0180.D\MSSemi_HP20296.rslt\spectra.d
Injection Date: 07-Oct-2020 08:05:33
Spectrum: Tune Spec :Average 412-414(4.99-5.00) Bgrd 407(4.96)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 315

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	24808	155.00	4720	237.00	1087	353.00	1254
75.00	34800	156.00	6856	238.00	495	354.00	2191
76.00	12599	157.00	858	239.00	790	355.00	575
77.00	245184	158.00	2363	240.00	670	359.00	210
78.00	17408	159.00	1067	241.00	894	364.00	199
79.00	14218	160.00	2652	242.00	1383	365.00	10249
80.00	10930	161.00	3516	243.00	2299	366.00	1168
81.00	19088	162.00	1393	244.00	27064	371.00	304
82.00	3930	164.00	426	245.00	3083	372.00	3427
83.00	3964	165.00	2173	246.00	5837	373.00	847
84.00	488	166.00	4257	247.00	1471	383.00	886
85.00	2675	167.00	22080	248.00	601	384.00	443
86.00	4668	168.00	9514	249.00	1296	390.00	1035
87.00	1606	169.00	1701	250.00	507	391.00	375
88.00	532	170.00	727	251.00	787	392.00	134
89.00	522	171.00	1637	252.00	822	395.00	157
91.00	3217	172.00	1499	253.00	1679	401.00	126
92.00	3500	173.00	1885	254.00	3749	402.00	1570
93.00	27072	174.00	3294	255.00	145216	403.00	2391
94.00	1678	175.00	6841	256.00	20640	404.00	1011
95.00	520	176.00	1570	257.00	1728	415.00	156
96.00	708	177.00	3557	258.00	8459	419.00	94
97.00	490	178.00	1264	259.00	1590	420.00	86
98.00	21920	179.00	11139	260.00	439	421.00	1861
99.00	14853	180.00	7383	264.00	167	422.00	1438
100.00	1326	181.00	5019	265.00	3772	423.00	11376
101.00	10494	182.00	408	266.00	757	424.00	3505
102.00	486	183.00	500	267.00	190	425.00	299
103.00	2644	184.00	939	270.00	879	429.00	218
104.00	4763	185.00	7034	271.00	788	430.00	402
105.00	5141	186.00	48248	272.00	1109	431.00	666
106.00	3217	187.00	11068	273.00	5514	432.00	275
107.00	75216	188.00	1423	274.00	13438	433.00	444
108.00	11070	189.00	2637	275.00	60976	434.00	682

Report Date: 07-Oct-2020 09:22:16 Chrom Revision: 2.3 06-Oct-2020 14:45:12
Data File: \\chromfs\Lancaster\ChromData\HP20296\20201007-12251.b\LJ0180.D\MSSemi_HP20296.rslt\spectra.d
Injection Date: 07-Oct-2020 08:05:33
Spectrum: Tune Spec :Average 412-414(4.99-5.00) Bgrd 407(4.96)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 315

m/z	Y	m/z	Y	m/z	Y	m/z	Y
109.00	2017	190.00	840	276.00	10442	435.00	1946
110.00	112136	191.00	716	277.00	4196	436.00	297
111.00	17800	192.00	4093	278.00	949	437.00	1926
112.00	2104	193.00	5072	279.00	617	438.00	1422
113.00	1078	194.00	1003	280.00	186	439.00	1185
115.00	401	195.00	1115	281.00	129	440.00	1096
116.00	3352	196.00	8880	282.00	321	441.00	40064
117.00	58776	197.00	4713	283.00	889	442.00	236928
118.00	2963	198.00	272704	284.00	408	443.00	43696
119.00	424	199.00	17856	285.00	880	444.00	4365
120.00	573	200.00	1348	286.00	297	445.00	672
121.00	153	202.00	913	289.00	248		

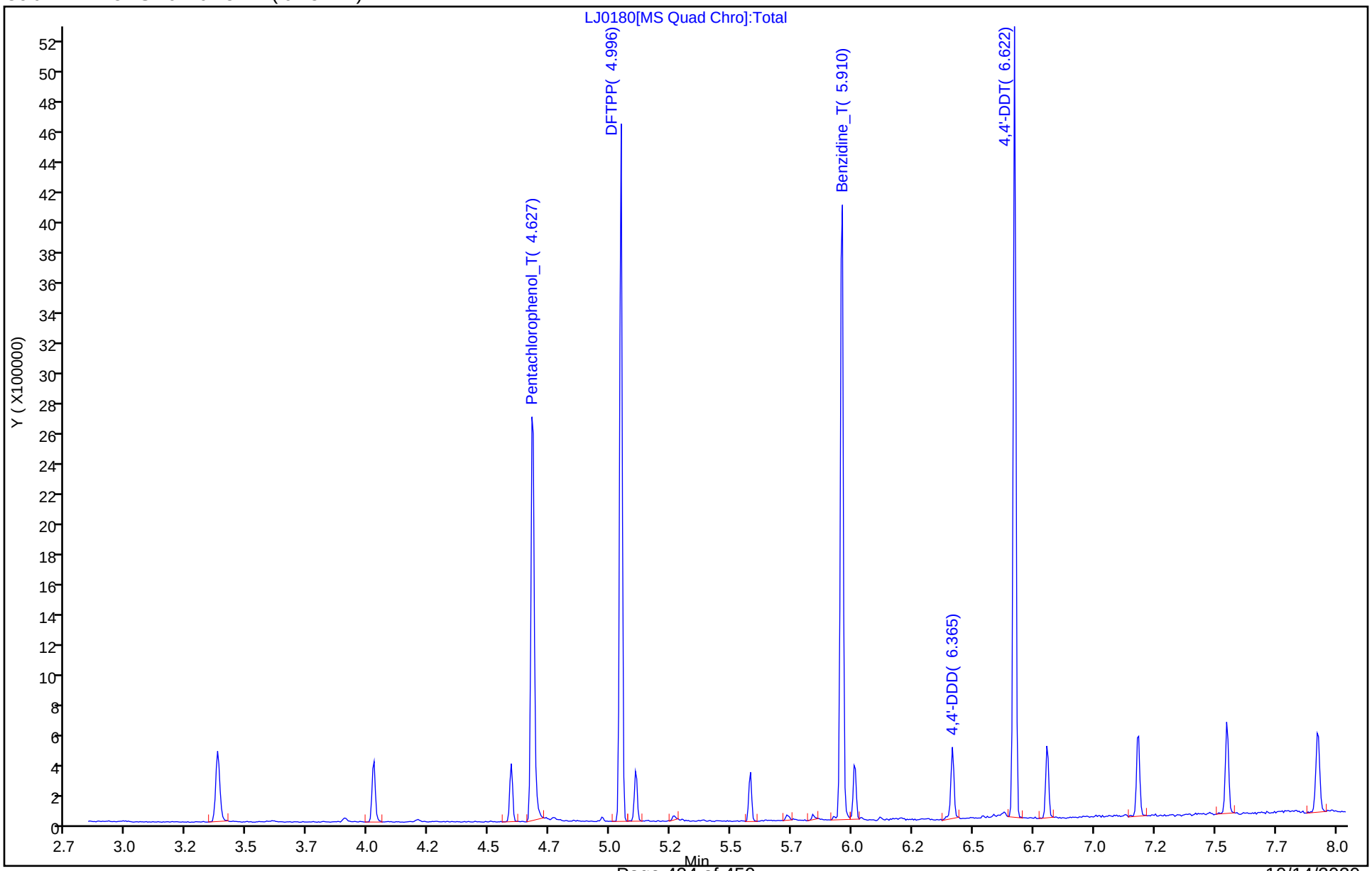
Report Date: 07-Oct-2020 09:22:16 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201007-12251.b\LJ0180.D

Injection Date:	07-Oct-2020 08:05:33	Instrument ID:	HP20296	Operator ID:	knb25316
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



Breakdown Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201007-12251.b\LJ0180.D
Injection Date: 07-Oct-2020 08:05:33 Instrument ID: HP20296
Lims ID: DFTPP
Client ID:
Operator ID: knb25316 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI

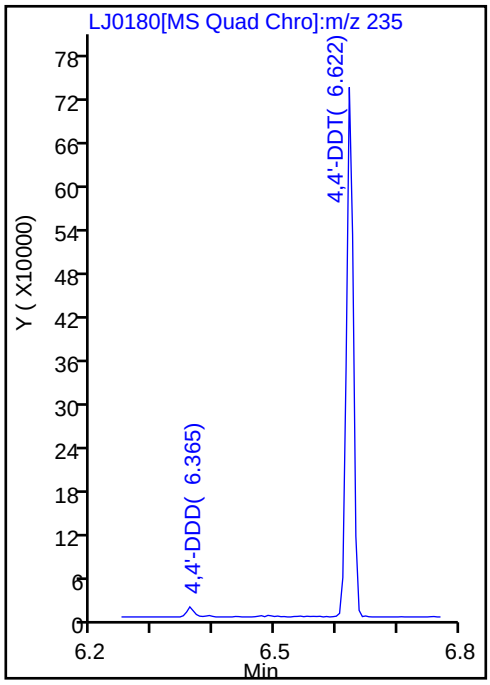
181 4,4'-DDT, Detector: MS Quad

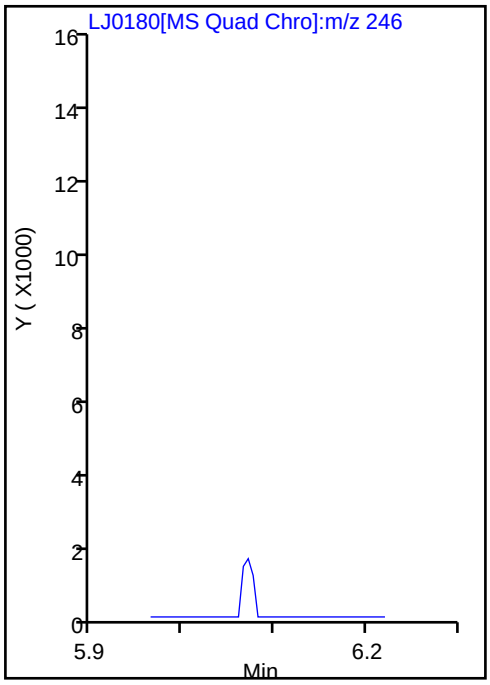
SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

181 4,4'-DDT, Area = 570295
180 4,4'-DDD, Area = 11417
179 4,4'-DDE, Area = 1262

%Breakdown: 2.17%, <= 20.00%
Passed





Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

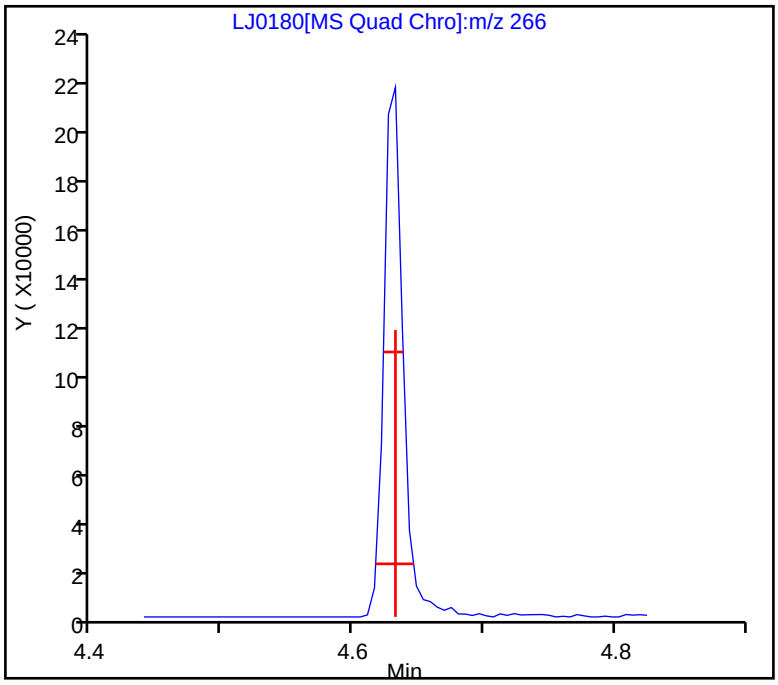
Data File: \\chromfs\Lancaster\ChromData\HP20296\20201007-12251.b\LJ0180.D
Injection Date: 07-Oct-2020 08:05:33 Instrument ID: HP20296
Lims ID: DFTPP
Client ID:
Operator ID: knb25316 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI

8 Pentachlorophenol_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.014 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 0.9, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

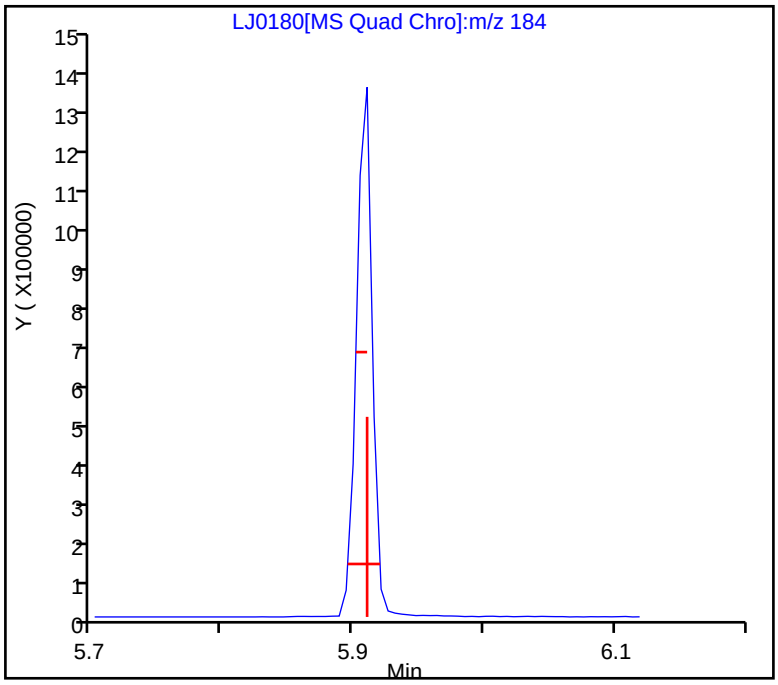
Data File: \\chromfs\Lancaster\ChromData\HP20296\20201007-12251.b\LJ0180.D
Injection Date: 07-Oct-2020 08:05:33 Instrument ID: HP20296
Lims ID: DFTPP
Client ID:
Operator ID: knb25316 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI

14 Benzidine_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.010 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 0.7, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201007-12332.b\LJ0200.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 07-Oct-2020 16:35:46 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0012332-001
Operator ID: kel10217 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201007-12332.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Oct-2020 22:19:24 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1010

First Level Reviewer: luttek Date: 07-Oct-2020 16:50:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 Pentachlorophenol_T	266	4.637	4.637	0.000	83	145208	NR	NR	
14 Benzidine_T	184	5.910	5.910	0.000	98	790981	NR	NR	
178 DFTPP									
179 4,4'-DDE	246	6.071	6.071	0.000	74	1923		NR	
180 4,4'-DDD	235	6.360	6.360	0.000	87	24088		NR	
181 4,4'-DDT	235	6.622	6.622	0.000	93	353068	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

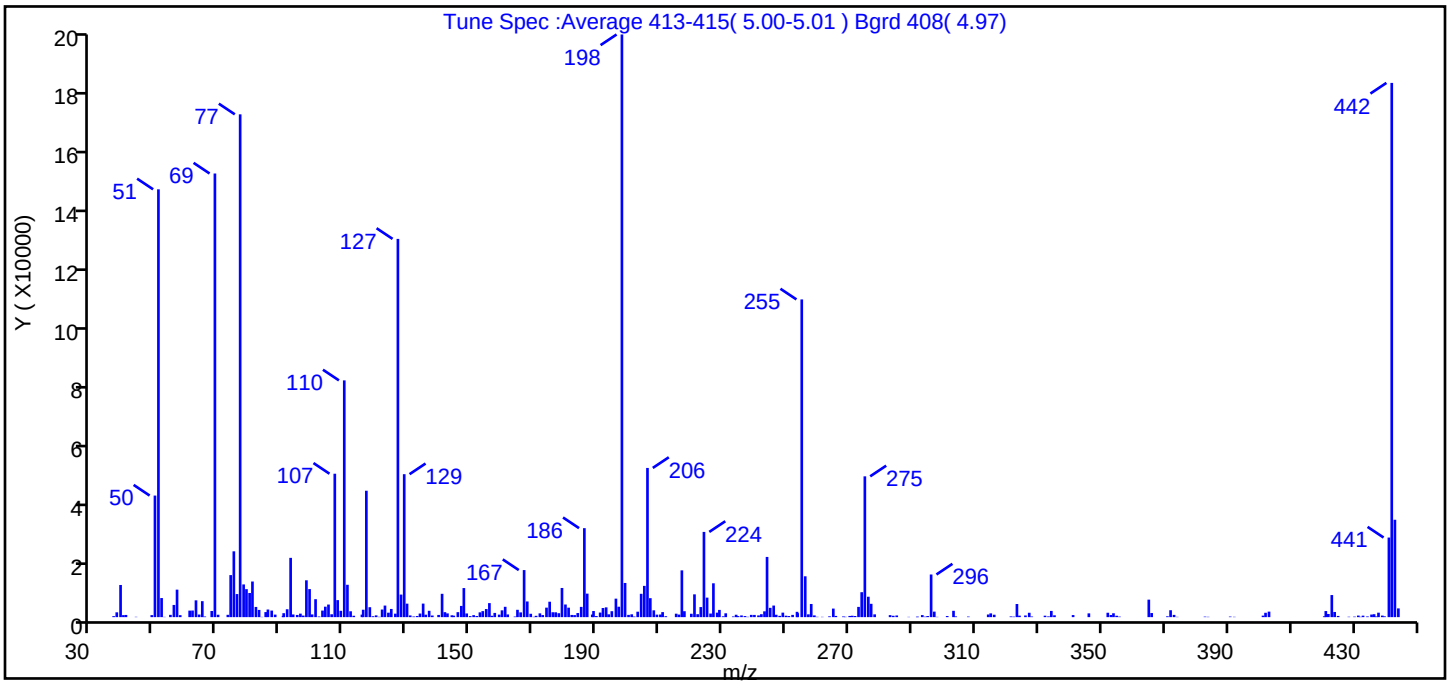
MSS_RVDFTPP_00005 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201007-12332.b\LJ0200.D
Injection Date: 07-Oct-2020 16:35:46 Instrument ID: HP20296
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI
Tune Method: DFTPP Method 8270D, BP 198

178 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (109.1)
51	10-80% of the base peak	73.4
68	<2% of mass 69	1.1 (1.4)
69	Present	76.1
70	<2% of mass 69	0.4 (0.5)
127	10-80% of the base peak	64.9
197	<2% of mass 198	1.8
199	5-9% of mass 198	5.9
275	10-60% of the base peak	24.2
365	>1% of mass 198	3.0
441	present but <24% of mass 442	13.7 (14.9)
442	base peak, or >50% of 198	91.7
443	15-24% of mass 442	16.7 (18.2)

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201007-12332.b\LJ0200.D\MSSemi_HP20296.rslt\spectra.d
Injection Date: 07-Oct-2020 16:35:46
Spectrum: Tune Spec :Average 413-415(5.00-5.01) Bgrd 408(4.97)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 291

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	328	124.00	1463	199.00	11201	283.00	661
38.00	1582	125.00	2687	200.00	744	284.00	449
39.00	10542	126.00	1139	201.00	931	285.00	549
40.00	662	127.00	123976	202.00	195	289.00	90
41.00	718	128.00	7396	203.00	1783	292.00	115
44.00	105	129.00	46856	204.00	7650	292.00	141
49.00	662	130.00	4419	205.00	10245	293.00	672
50.00	39848	131.00	564	206.00	48904	294.00	150
51.00	140224	132.00	208	207.00	6219	295.00	363
52.00	6258	133.00	370	208.00	2235	296.00	13980
53.00	88	134.00	1182	209.00	823	297.00	1812
55.00	750	135.00	4441	210.00	859	298.00	93
56.00	3996	136.00	804	211.00	1650	301.00	361
57.00	9012	137.00	2081	212.00	302	303.00	2078
58.00	647	138.00	532	215.00	1133	304.00	240
61.00	2139	140.00	726	216.00	842	308.00	185
62.00	2167	141.00	7648	217.00	15334	314.00	864
63.00	5511	142.00	1631	218.00	1942	315.00	1237
64.00	854	143.00	1226	220.00	1110	316.00	792
65.00	5235	144.00	605	221.00	7472	321.00	237
66.00	206	145.00	478	222.00	965	322.00	167
68.00	2020	146.00	1634	223.00	3304	323.00	4308
69.00	145408	147.00	3678	224.00	27936	324.00	493
70.00	791	148.00	9532	225.00	6397	326.00	544
73.00	764	149.00	1207	226.00	1178	327.00	1434
74.00	13778	150.00	338	227.00	11095	328.00	205
75.00	21576	151.00	657	228.00	1473	332.00	474
76.00	7568	152.00	366	229.00	2376	333.00	245
77.00	164800	153.00	1568	230.00	275	334.00	2040
78.00	10723	154.00	1977	231.00	1260	335.00	602
79.00	9172	155.00	2652	233.00	231	341.00	683
80.00	7910	156.00	4600	234.00	788	346.00	1238
81.00	11680	157.00	453	235.00	342	352.00	1440

Report Date: 07-Oct-2020 22:19:25 Chrom Revision: 2.3 06-Oct-2020 14:45:12
Data File: \\chromfs\Lancaster\ChromData\HP20296\20201007-12332.b\LJ0200.D\MSSemi_HP20296.rslt\spectra.d
Injection Date: 07-Oct-2020 16:35:46
Spectrum: Tune Spec :Average 413-415(5.00-5.01) Bgrd 408(4.97)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 291

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	3346	158.00	1385	236.00	557	353.00	703
83.00	2367	159.00	826	237.00	359	354.00	1274
84.00	84	160.00	2230	238.00	111	355.00	460
85.00	1659	161.00	3390	239.00	742	356.00	173
86.00	2499	162.00	884	240.00	729	365.00	5734
87.00	2148	164.00	193	241.00	562	366.00	1344
88.00	828	165.00	2408	242.00	965	371.00	272
91.00	423	166.00	1557	243.00	1907	372.00	2264
91.00	1298	167.00	15428	244.00	19736	373.00	738
92.00	2590	168.00	5139	245.00	3048	374.00	97
93.00	19432	169.00	1104	246.00	3797	383.00	171
94.00	881	170.00	110	247.00	786	384.00	108
95.00	724	171.00	437	248.00	424	391.00	189
96.00	1149	172.00	1240	249.00	1477	392.00	107
97.00	515	173.00	679	250.00	471	401.00	492
98.00	12077	174.00	3114	251.00	367	402.00	1430
99.00	9198	175.00	5054	252.00	737	403.00	1811
100.00	892	176.00	1606	254.00	1745	421.00	271
101.00	5885	177.00	1584	254.00	1295	421.00	1999
102.00	207	178.00	1289	255.00	104136	422.00	1035
103.00	2153	179.00	9560	256.00	13390	423.00	7238
104.00	3430	180.00	4145	257.00	922	424.00	1696
105.00	4128	181.00	3106	258.00	4315	425.00	398
106.00	942	182.00	720	259.00	574	428.00	130
107.00	47008	183.00	674	260.00	112	430.00	175
108.00	5580	184.00	1346	262.00	100	431.00	518
109.00	2076	185.00	3359	264.00	269	432.00	108
110.00	77600	186.00	29168	265.00	2806	433.00	487
111.00	10608	187.00	7704	266.00	396	434.00	231
112.00	1925	189.00	850	268.00	223	436.00	850
113.00	451	189.00	2006	269.00	112	436.00	962
116.00	828	190.00	357	270.00	389	437.00	225
116.00	2432	191.00	1499	271.00	458	438.00	1461
117.00	41432	192.00	2997	272.00	375	439.00	505

Report Date: 07-Oct-2020 22:19:25 Chrom Revision: 2.3 06-Oct-2020 14:45:12
Data File: \\chromfs\Lancaster\ChromData\HP20296\20201007-12332.b\LJ0200.D\MSSemi_HP20296.rslt\spectra.d
Injection Date: 07-Oct-2020 16:35:46
Spectrum: Tune Spec :Average 413-415(5.00-5.01) Bgrd 408(4.97)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 291

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	3258	193.00	3204	273.00	3358	440.00	276
119.00	297	194.00	926	274.00	8178	441.00	26088
120.00	578	195.00	1952	275.00	46152	442.00	175104
121.00	115	196.00	6060	276.00	6692	443.00	31920
122.00	2496	197.00	3415	277.00	4370	444.00	2870
123.00	3793	198.00	190976	278.00	918		

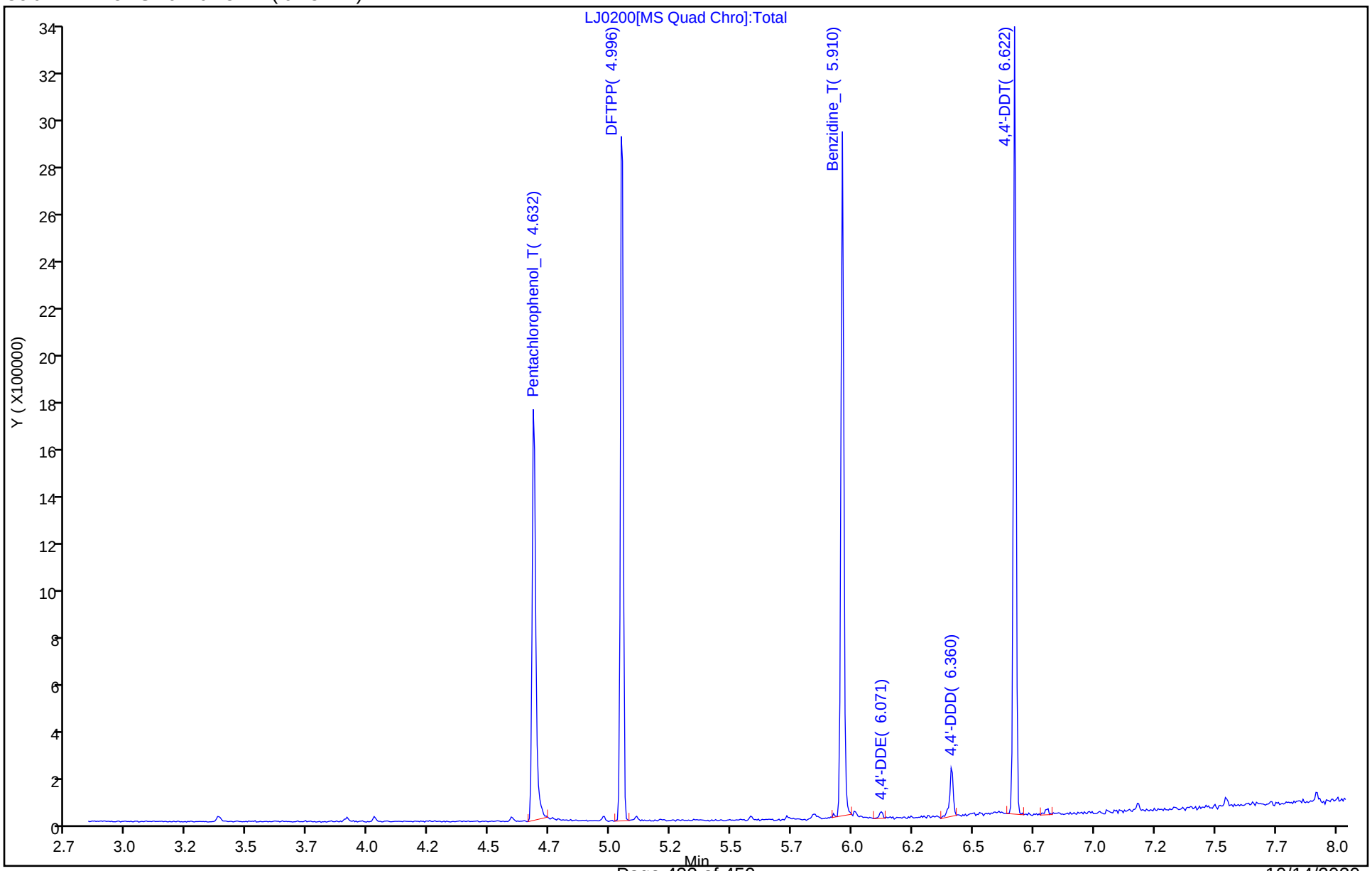
Report Date: 07-Oct-2020 22:19:25 Chrom Revision: 2.3 06-Oct-2020 14:45:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201007-12332.b\LJ0200.D

Injection Date:	07-Oct-2020 16:35:46	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



Breakdown Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201007-12332.b\LJ0200.D
Injection Date: 07-Oct-2020 16:35:46 Instrument ID: HP20296
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI

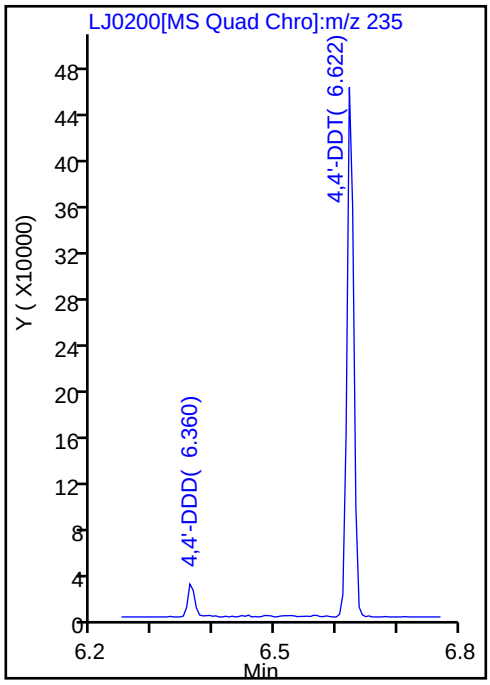
181 4,4'-DDT, Detector: MS Quad

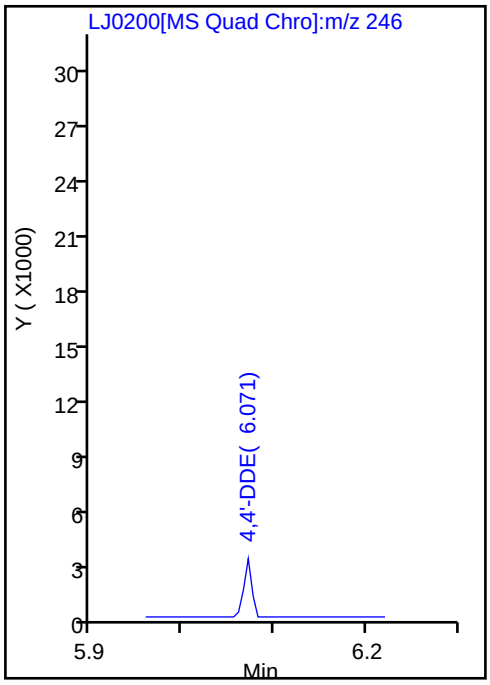
SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

181 4,4'-DDT, Area = 353068
180 4,4'-DDD, Area = 24088
179 4,4'-DDE, Area = 1923

%Breakdown: 6.86%, <= 20.00%
Passed





Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

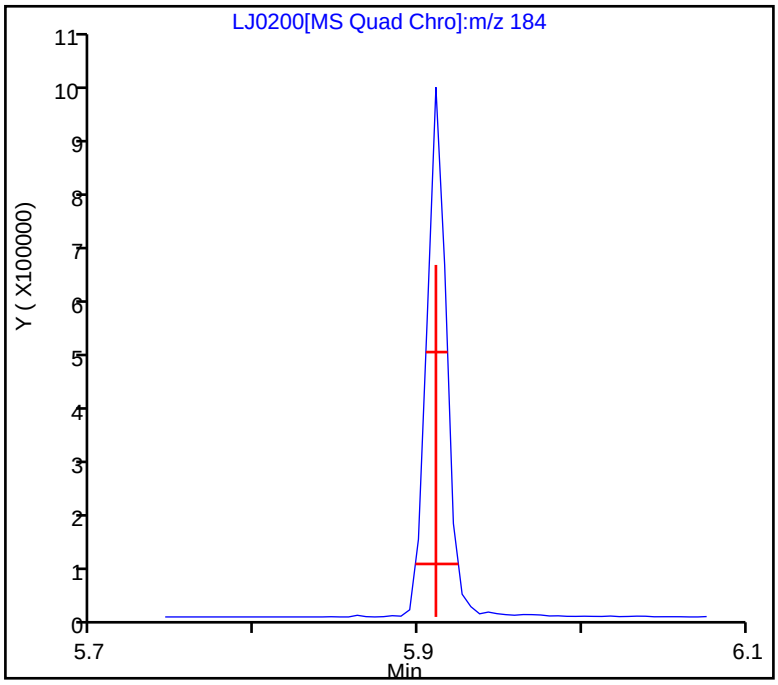
Data File: \\chromfs\Lancaster\ChromData\HP20296\20201007-12332.b\LJ0200.D
Injection Date: 07-Oct-2020 16:35:46 Instrument ID: HP20296
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI

14 Benzidine_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.014 (min.)
Front Width = 0.013 (min.)

Tailing Factor = 1.1, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

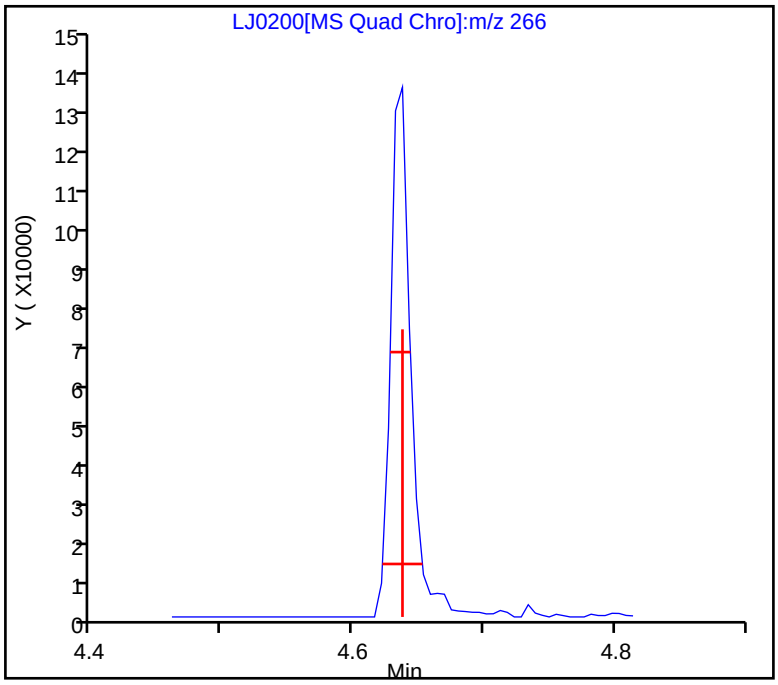
Data File: \\chromfs\Lancaster\ChromData\HP20296\20201007-12332.b\LJ0200.D
Injection Date: 07-Oct-2020 16:35:46 Instrument ID: HP20296
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP20296 Limit Group: MSSV - 8270D_E LVI

8 Pentachlorophenol_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.015 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 1.0, Max. Tailing <= 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-15639-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-51208/1-A

Matrix: Water Lab File ID: LJ0152.D

Analysis Method: 8270D Date Collected:

Extract. Method: 3510C Date Extracted: 10/06/2020 09:00

Sample wt/vol: 250(mL) Date Analyzed: 10/06/2020 19:02

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.: 51485 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.50	0.10
208-96-8	Acenaphthylene	ND		0.50	0.10
120-12-7	Anthracene	ND		0.50	0.10
56-55-3	Benzo[a]anthracene	ND		0.50	0.10
50-32-8	Benzo[a]pyrene	ND		0.50	0.10
205-99-2	Benzo[b]fluoranthene	ND		0.50	0.10
191-24-2	Benzo[g,h,i]perylene	ND		0.50	0.10
207-08-9	Benzo[k]fluoranthene	ND		0.50	0.10
218-01-9	Chrysene	ND		0.50	0.10
53-70-3	Dibenz(a,h)anthracene	ND		0.50	0.10
206-44-0	Fluoranthene	ND		0.50	0.10
86-73-7	Fluorene	ND		0.50	0.10
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.50	0.10
91-20-3	Naphthalene	ND		0.50	0.10
85-01-8	Phenanthrene	ND		0.50	0.10
129-00-0	Pyrene	ND		0.50	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	73		44-102
4165-60-0	Nitrobenzene-d5 (Surr)	88		38-113
1718-51-0	p-Terphenyl-d14 (Surr)	74		34-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0152.D
Lims ID: MB 410-51208/1-A
Client ID:
Sample Type: MB
Inject. Date: 06-Oct-2020 19:02:28 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-51208/1-A
Misc. Info.: 410-0012211-004
Operator ID: kel10217 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 06-Oct-2020 23:00:58 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1014

First Level Reviewer: luttek Date: 06-Oct-2020 22:52:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	4.815	4.815	0.000	94	950395	50.2	23.6	
$ 16 Phenol-d5	99	6.227	6.227	0.000	96	880577	50.2	17.0	
17 Phenol	94		6.249					ND	7
* 24 1,4-Dichlorobenzene-d4	152	6.730	6.730	0.000	95	126691	5.00	5.00	
32 2,2'-oxybis[1-chloropropane]	45		7.190					ND	7
40 Hexachloroethane	117		7.500					ND	
$ 41 Nitrobenzene-d5	82	7.586	7.591	-0.005	89	1157502	25.0	21.9	
46 Isophorone	82		8.008					ND	7
* 55 Naphthalene-d8	136	8.709	8.709	0.000	98	521919	5.00	5.00	
56 Naphthalene	128		8.746					ND	
69 2-Methylnaphthalene	142		9.875					ND	
$ 76 2-Fluorobiphenyl (Surr)	172	10.490	10.495	-0.005	98	1243377	25.1	18.2	
90 Acenaphthylene	152		11.325					ND	7
* 92 Acenaphthene-d10	164	11.555	11.555	0.001	96	217291	5.00	5.00	
93 Acenaphthene	153		11.603					ND	
105 Fluorene	166		12.319					ND	
$ 113 2,4,6-Tribromophenol	330	12.614	12.614	0.000	83	368854	50.2	42.7	
* 127 Phenanthrene-d10	188	13.480	13.485	-0.005	96	373731	5.00	5.00	
129 Phenanthrene	178		13.512					ND	7
130 Anthracene	178		13.582					ND	7
138 Fluoranthene	202		15.176					ND	
* 140 Pyrene-d10 (IS)	212	15.491	15.491	0.000	98	344639	5.00	5.00	
141 Pyrene	202		15.518					ND	7
$ 142 p-Terphenyl-d14	244	15.807	15.807	0.000	96	1158119	25.1	18.6	
149 Benzo[a]anthracene	228		17.545					ND	7
151 Chrysene	228		17.609					ND	7
152 Bis(2-ethylhexyl) phthalate	149		17.732					ND	7
155 Benzo[b]fluoranthene	252		19.422					ND	7
157 Benzo[k]fluoranthene	252		19.465					ND	7
158 Benzo[a]pyrene	252		19.952					ND	U
* 159 Perylene-d12	264	20.043	20.043	0.000	95	335410	5.00	5.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
163 Indeno[1,2,3-cd]pyrene	276		21.669					ND	
164 Dibenz(a,h)anthracene	278		21.706					ND	7
165 Benzo[g,h,i]perylene	276		22.059					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSS_RV8270_IS_00013 Amount Added: 20.00 Units: uL Run Reagent

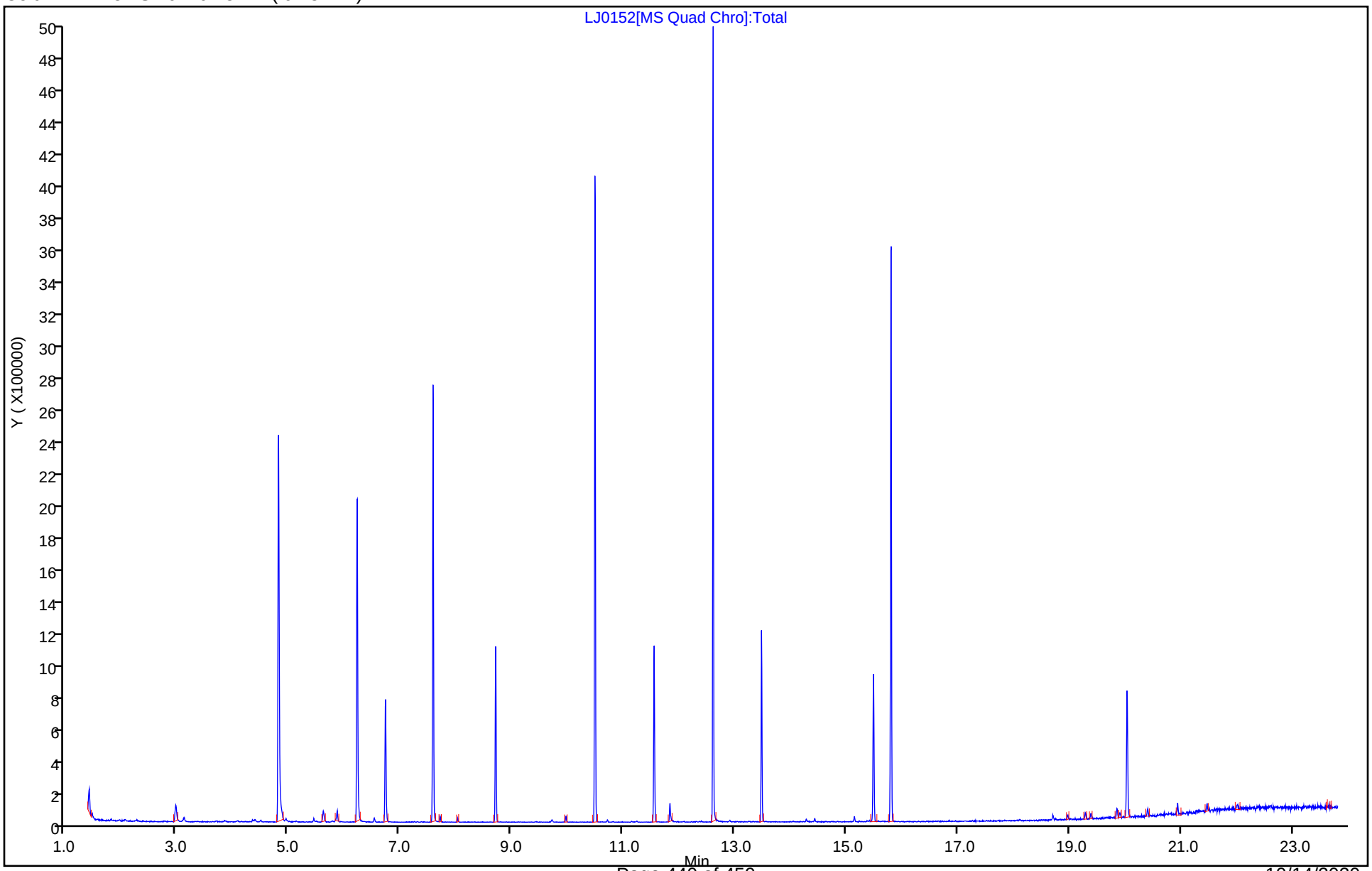
Report Date: 06-Oct-2020 23:01:11 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0152.D

Injection Date:	06-Oct-2020 19:02:28	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	MB 410-51208/1-A			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



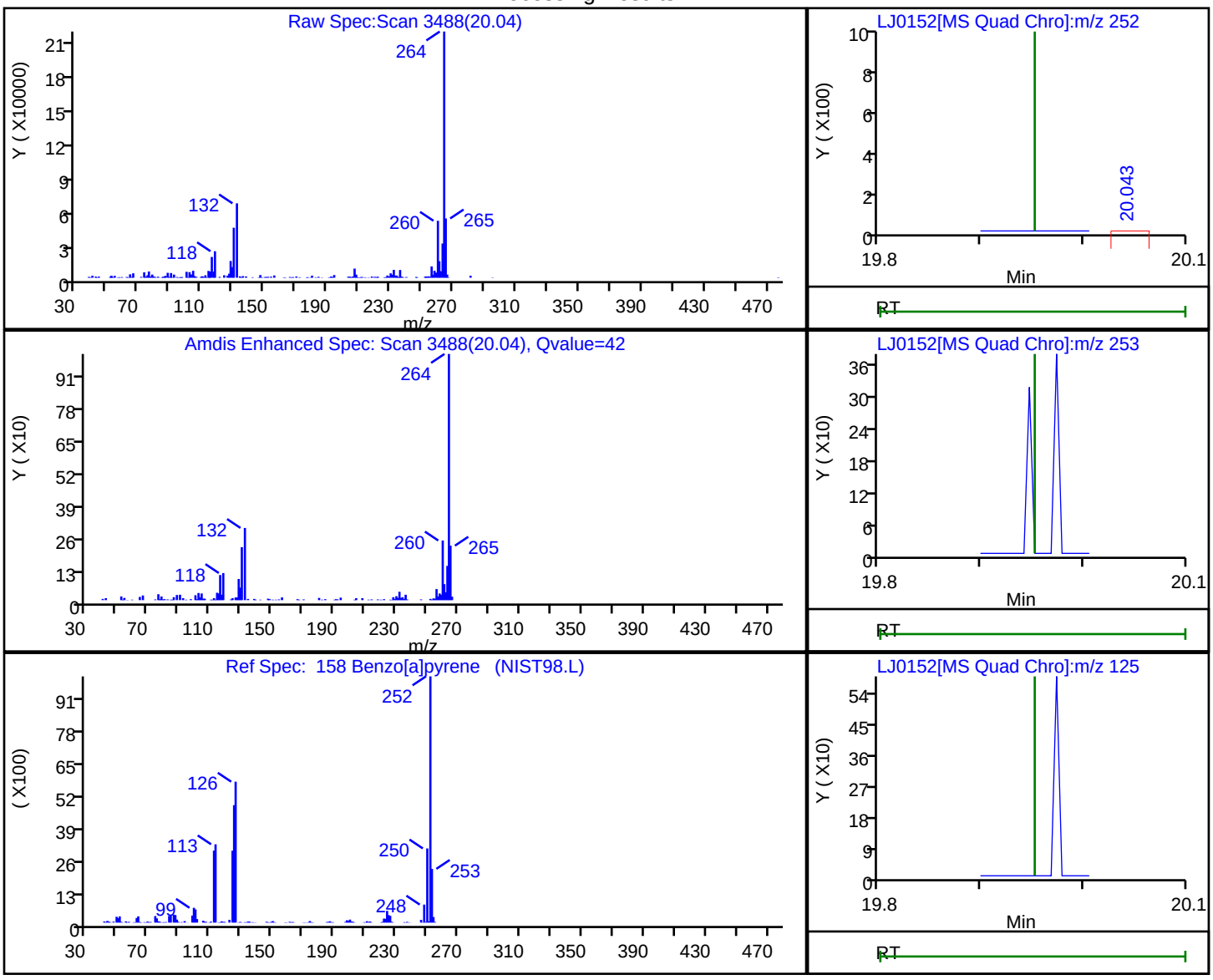
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0152.D				
Injection Date:	06-Oct-2020 19:02:28	Instrument ID:	HP20296		
Lims ID:	MB 410-51208/1-A				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

158 Benzo[a]pyrene, CAS: 50-32-8

Processing Results



RT	Mass	Response	Amount
20.04	252.00	1721	0.021525
20.05	253.00	632	
20.05	125.00	893	

Reviewer: luttek, 06-Oct-2020 22:52:08

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.: 410-15639-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-51208/2-A

Matrix: Water Lab File ID: LJ0153.D

Analysis Method: 8270D Date Collected:

Extract. Method: 3510C Date Extracted: 10/06/2020 09:00

Sample wt/vol: 250(mL) Date Analyzed: 10/06/2020 19:31

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.: 51485 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	43.8		0.50	0.10
208-96-8	Acenaphthylene	45.1		0.50	0.10
120-12-7	Anthracene	46.0		0.50	0.10
56-55-3	Benzo[a]anthracene	48.2		0.50	0.10
50-32-8	Benzo[a]pyrene	44.4		0.50	0.10
205-99-2	Benzo[b]fluoranthene	44.5		0.50	0.10
191-24-2	Benzo[g,h,i]perylene	48.9		0.50	0.10
207-08-9	Benzo[k]fluoranthene	45.2		0.50	0.10
218-01-9	Chrysene	44.3		0.50	0.10
53-70-3	Dibenz(a,h)anthracene	49.7		0.50	0.10
206-44-0	Fluoranthene	47.1		0.50	0.10
86-73-7	Fluorene	44.5		0.50	0.10
193-39-5	Indeno[1,2,3-cd]pyrene	47.5		0.50	0.10
91-20-3	Naphthalene	40.1		0.50	0.10
85-01-8	Phenanthrene	47.9		0.50	0.10
129-00-0	Pyrene	45.8		0.50	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	83		44-102
4165-60-0	Nitrobenzene-d5 (Surr)	95		38-113
1718-51-0	p-Terphenyl-d14 (Surr)	81		34-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0153.D
Lims ID: LCS 410-51208/2-A
Client ID:
Sample Type: LCS
Inject. Date: 06-Oct-2020 19:31:36 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-51208/2-A
Misc. Info.: 410-0012211-005
Operator ID: kel10217 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 06-Oct-2020 23:00:58 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1014

First Level Reviewer: luttek Date: 06-Oct-2020 22:52:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	4.837	4.815	0.022	95	1315218	50.2	29.8	
$ 16 Phenol-d5	99	6.233	6.227	0.006	96	1277903	50.2	22.4	
17 Phenol	94	6.249	6.249	0.000	79	419287	12.5	6.52	
* 24 1,4-Dichlorobenzene-d4	152	6.735	6.730	0.005	94	139195	5.00	5.00	
32 2,2'-oxybis[1-chloropropane]	45	7.201	7.190	0.011	91	709734	12.6	11.9	
40 Hexachloroethane	117	7.500	7.500	0.000	89	160165	12.6	7.59	
$ 41 Nitrobenzene-d5	82	7.591	7.591	0.000	90	1274837	25.0	23.8	
46 Isophorone	82	8.008	8.008	0.000	98	1164264	12.5	12.1	
* 55 Naphthalene-d8	136	8.709	8.709	0.000	99	528675	5.00	5.00	
56 Naphthalene	128	8.747	8.746	0.000	99	1198826	12.6	10.0	
69 2-Methylnaphthalene	142	9.870	9.875	-0.005	91	749706	12.5	9.90	
$ 76 2-Fluorobiphenyl (Surr)	172	10.496	10.495	0.001	99	1463050	25.1	20.7	
90 Acenaphthylene	152	11.325	11.325	0.000	98	1041479	12.5	11.3	
* 92 Acenaphthene-d10	164	11.555	11.555	0.001	97	225229	5.00	5.00	
93 Acenaphthene	153	11.603	11.603	0.000	98	746145	12.5	10.9	
105 Fluorene	166	12.319	12.319	0.000	91	792853	12.5	11.1	
$ 113 2,4,6-Tribromophenol	330	12.614	12.614	0.000	83	404124	50.2	45.1	
* 127 Phenanthrene-d10	188	13.480	13.485	-0.005	96	383617	5.00	5.00	
129 Phenanthrene	178	13.512	13.512	0.000	99	1116580	12.5	12.0	
130 Anthracene	178	13.576	13.582	-0.006	99	1088380	12.5	11.5	
138 Fluoranthene	202	15.176	15.176	0.000	99	1130811	12.5	11.8	
* 140 Pyrene-d10 (IS)	212	15.491	15.491	0.000	98	373104	5.00	5.00	
141 Pyrene	202	15.523	15.518	0.005	96	1187498	12.6	11.5	
$ 142 p-Terphenyl-d14	244	15.801	15.807	-0.006	96	1376421	25.1	20.4	
149 Benzo[a]anthracene	228	17.545	17.545	0.000	98	1040736	12.5	12.1	
151 Chrysene	228	17.609	17.609	0.000	96	957851	12.5	11.1	
152 Bis(2-ethylhexyl) phthalate	149	17.732	17.732	0.000	94	1050658	12.6	12.4	
155 Benzo[b]fluoranthene	252	19.422	19.422	0.000	95	1072447	12.5	11.1	
157 Benzo[k]fluoranthene	252	19.471	19.465	0.006	98	1047667	12.5	11.3	
158 Benzo[a]pyrene	252	19.952	19.952	0.000	81	998724	12.5	11.1	
* 159 Perylene-d12	264	20.043	20.043	0.000	93	377535	5.00	5.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
163 Indeno[1,2,3-cd]pyrene	276	21.669	21.669	0.000	97	996455	12.6	11.9	M
164 Dibenz(a,h)anthracene	278	21.706	21.706	0.000	96	1043815	12.5	12.4	
165 Benzo[g,h,i]perylene	276	22.059	22.059	0.000	94	1042031	12.5	12.2	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_IS_00013 Amount Added: 20.00 Units: uL Run Reagent

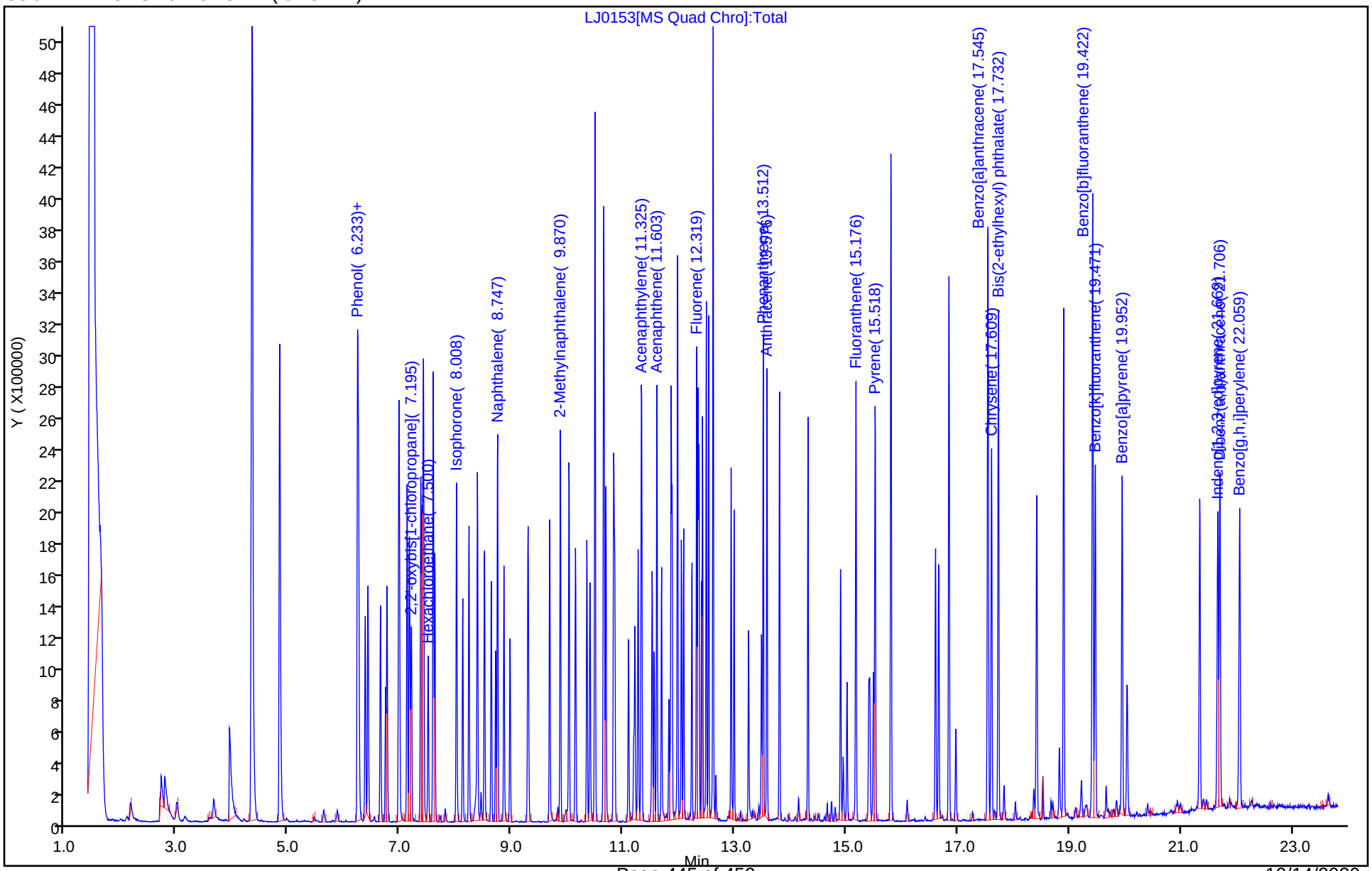
Report Date: 06-Oct-2020 23:01:12 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0153.D

Injection Date:	06-Oct-2020 19:31:36	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	LCS 410-51208/2-A			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

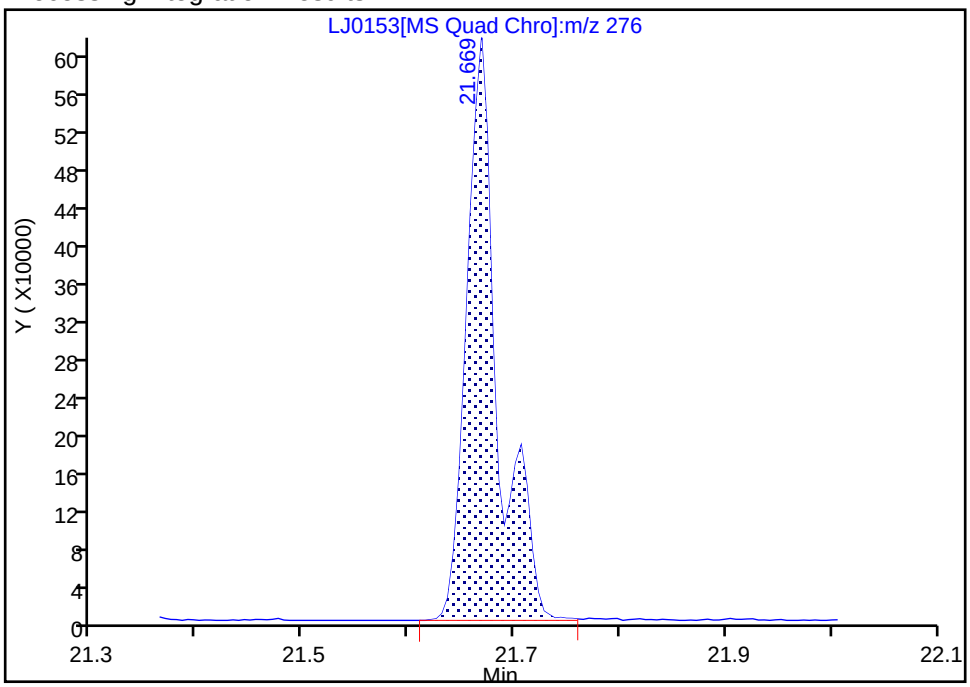
Data File:	\\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0153.D				
Injection Date:	06-Oct-2020 19:31:36	Instrument ID:	HP20296		
Lims ID:	LCS 410-51208/2-A				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.18mm (0.18 mm)	Detector	MS SCAN		

163 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

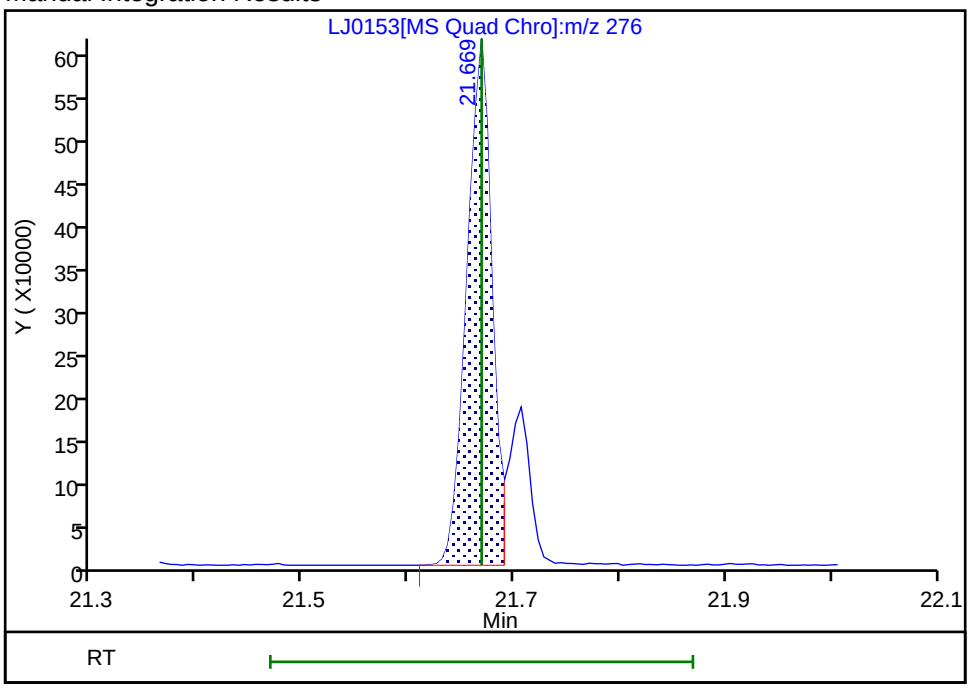
Processing Integration Results

RT: 21.67
Area: 1249998
Amount: 14.908723
Amount Units: ug/ml



Manual Integration Results

RT: 21.67
Area: 996455
Amount: 11.884716
Amount Units: ug/ml



Reviewer: luttek, 06-Oct-2020 22:52:46

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.: 410-15639-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-51208/3-A

Matrix: Water Lab File ID: LJ0154.D

Analysis Method: 8270D Date Collected:

Extract. Method: 3510C Date Extracted: 10/06/2020 09:00

Sample wt/vol: 250(mL) Date Analyzed: 10/06/2020 20:00

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.: 51485 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	41.4		0.50	0.10
208-96-8	Acenaphthylene	42.4		0.50	0.10
120-12-7	Anthracene	43.8		0.50	0.10
56-55-3	Benzo[a]anthracene	46.0		0.50	0.10
50-32-8	Benzo[a]pyrene	42.8		0.50	0.10
205-99-2	Benzo[b]fluoranthene	42.8		0.50	0.10
191-24-2	Benzo[g,h,i]perylene	47.1		0.50	0.10
207-08-9	Benzo[k]fluoranthene	43.4		0.50	0.10
218-01-9	Chrysene	43.3		0.50	0.10
53-70-3	Dibenz(a,h)anthracene	48.4		0.50	0.10
206-44-0	Fluoranthene	45.0		0.50	0.10
86-73-7	Fluorene	41.6		0.50	0.10
193-39-5	Indeno[1,2,3-cd]pyrene	45.8		0.50	0.10
91-20-3	Naphthalene	37.8		0.50	0.10
85-01-8	Phenanthrene	45.1		0.50	0.10
129-00-0	Pyrene	42.8		0.50	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	83		44-102
4165-60-0	Nitrobenzene-d5 (Surr)	95		38-113
1718-51-0	p-Terphenyl-d14 (Surr)	82		34-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0154.D
Lims ID: LCSD 410-51208/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 06-Oct-2020 20:00:40 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCSD 410-51208/3-A
Misc. Info.: 410-0012211-006
Operator ID: kel10217 Instrument ID: HP20296

Method: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\MSSemi_HP20296.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 06-Oct-2020 23:00:58 Calib Date: 17-Sep-2020 11:35:03
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP20296\20200917-10654.b\LI0905.D

Column 1 : DB-5MS 20m 0.18mm (0.18 mm) Det: MS SCAN
Process Host: CTX1014

First Level Reviewer: luttek Date: 06-Oct-2020 22:54:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	4.831	4.815	0.016	94	1191336	50.2	27.1	
$ 16 Phenol-d5	99	6.233	6.227	0.006	96	1126315	50.2	19.9	
17 Phenol	94	6.249	6.249	0.000	83	352535	12.5	5.52	
* 24 1,4-Dichlorobenzene-d4	152	6.736	6.730	0.006	93	138310	5.00	5.00	
32 2,2'-oxybis[1-chloropropane]	45	7.195	7.190	0.005	90	672786	12.6	11.4	
40 Hexachloroethane	117	7.500	7.500	0.000	89	143762	12.6	6.85	
$ 41 Nitrobenzene-d5	82	7.591	7.591	0.000	90	1281969	25.0	23.8	
46 Isophorone	82	8.008	8.008	0.000	99	1128518	12.5	11.7	
* 55 Naphthalene-d8	136	8.709	8.709	0.000	99	532407	5.00	5.00	
56 Naphthalene	128	8.747	8.746	0.001	98	1138999	12.6	9.46	
69 2-Methylnaphthalene	142	9.870	9.875	-0.005	90	712047	12.5	9.34	
$ 76 2-Fluorobiphenyl (Surr)	172	10.496	10.495	0.001	99	1486792	25.1	20.7	
90 Acenaphthylene	152	11.325	11.325	0.000	98	993205	12.5	10.6	
* 92 Acenaphthene-d10	164	11.555	11.555	0.001	97	228536	5.00	5.00	
93 Acenaphthene	153	11.603	11.603	0.000	98	716428	12.5	10.4	
105 Fluorene	166	12.314	12.319	-0.005	91	752834	12.5	10.4	
$ 113 2,4,6-Tribromophenol	330	12.614	12.614	0.000	85	428790	50.2	47.2	
* 127 Phenanthrene-d10	188	13.480	13.485	-0.005	97	388149	5.00	5.00	
129 Phenanthrene	178	13.512	13.512	0.000	99	1063098	12.5	11.3	
130 Anthracene	178	13.576	13.582	-0.006	99	1048362	12.5	11.0	
138 Fluoranthene	202	15.176	15.176	0.000	99	1091504	12.5	11.2	
* 140 Pyrene-d10 (IS)	212	15.491	15.491	0.000	97	374684	5.00	5.00	
141 Pyrene	202	15.518	15.518	0.000	95	1115430	12.6	10.7	
$ 142 p-Terphenyl-d14	244	15.801	15.807	-0.006	96	1400790	25.1	20.7	
149 Benzo[a]anthracene	228	17.545	17.545	0.000	98	997370	12.5	11.5	
151 Chrysene	228	17.609	17.609	0.000	95	941010	12.5	10.8	
152 Bis(2-ethylhexyl) phthalate	149	17.732	17.732	0.000	95	1013304	12.6	11.9	
155 Benzo[b]fluoranthene	252	19.422	19.422	0.000	95	1014706	12.5	10.7	
157 Benzo[k]fluoranthene	252	19.471	19.465	0.006	98	990246	12.5	10.9	
158 Benzo[a]pyrene	252	19.952	19.952	0.000	81	945638	12.5	10.7	
* 159 Perylene-d12	264	20.038	20.043	-0.005	95	370912	5.00	5.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
163 Indeno[1,2,3-cd]pyrene	276	21.669	21.669	0.000	98	942924	12.6	11.4	
164 Dibenz(a,h)anthracene	278	21.706	21.706	0.000	96	999171	12.5	12.1	
165 Benzo[g,h,i]perylene	276	22.059	22.059	0.000	94	986662	12.5	11.8	

QC Flag Legend

Processing Flags

Reagents:

MSS_RV8270_IS_00013 Amount Added: 20.00 Units: uL Run Reagent

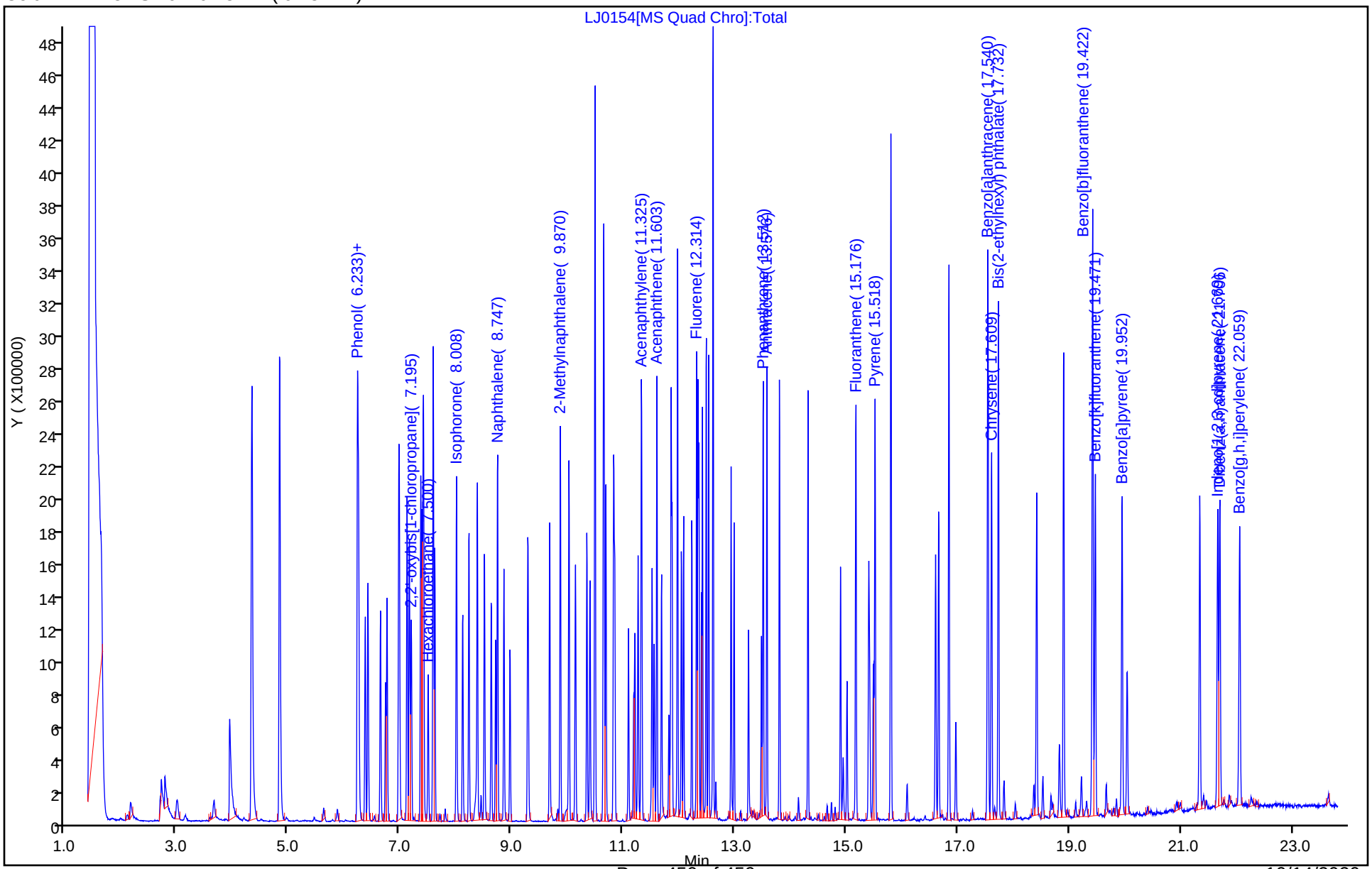
Report Date: 06-Oct-2020 23:01:14 Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP20296\20201006-12211.b\LJ0154.D

Injection Date:	06-Oct-2020 20:00:40	Instrument ID:	HP20296	Operator ID:	kel10217
Lims ID:	LCSD 410-51208/3-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSSemi_HP20296	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.18mm (0.18 mm)



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1

SDG No.:

Instrument ID: HP20296 Start Date: 07/15/2020 12:42

Analysis Batch Number: 22758 End Date: 07/15/2020 19:45

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-22758/1		07/15/2020 12:42	1	LG0650z.D	DB-5MS 20m 0.18 0.18(mm)
ICIS 410-22758/2		07/15/2020 13:18	1	LG0651.D	DB-5MS 20m 0.18 0.18(mm)
IC 410-22758/3		07/15/2020 13:56	1	LG0652.D	DB-5MS 20m 0.18 0.18(mm)
IC 410-22758/4		07/15/2020 14:26	1	LG0653.D	DB-5MS 20m 0.18 0.18(mm)
IC 410-22758/5		07/15/2020 14:55	1	LG0654.D	DB-5MS 20m 0.18 0.18(mm)
IC 410-22758/6		07/15/2020 15:24	1	LG0655.D	DB-5MS 20m 0.18 0.18(mm)
IC 410-22758/7		07/15/2020 15:53	1	LG0656.D	DB-5MS 20m 0.18 0.18(mm)
IC 410-22758/8		07/15/2020 16:22	1	LG0657.D	DB-5MS 20m 0.18 0.18(mm)
IC 410-22758/9		07/15/2020 16:51	1	LG0658.D	DB-5MS 20m 0.18 0.18(mm)
ICVL 410-22758/10		07/15/2020 17:20	1		DB-5MS 20m 0.18 0.18(mm)
ICVL 410-22758/11		07/15/2020 17:49	1		DB-5MS 20m 0.18 0.18(mm)
ICV 410-22758/12		07/15/2020 18:18	1	LG0661.D	DB-5MS 20m 0.18 0.18(mm)
ICV 410-22758/13		07/15/2020 18:47	1	LG0662.D	DB-5MS 20m 0.18 0.18(mm)
ICV 410-22758/14		07/15/2020 19:16	1	LG0663.D	DB-5MS 20m 0.18 0.18(mm)
ICV 410-22758/15		07/15/2020 19:45	1	LG0664.D	DB-5MS 20m 0.18 0.18(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1

SDG No.:

Instrument ID: HP20296 Start Date: 10/06/2020 17:57

Analysis Batch Number: 51485 End Date: 10/07/2020 05:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-51485/1		10/06/2020 17:57	1	LJ0150.D	DB-5MS 20m 0.18 0.18(mm)
CCVIS 410-51485/2		10/06/2020 18:15	1	LJ0151.D	DB-5MS 20m 0.18 0.18(mm)
MB 410-51208/1-A		10/06/2020 19:02	1	LJ0152.D	DB-5MS 20m 0.18 0.18(mm)
LCS 410-51208/2-A		10/06/2020 19:31	1	LJ0153.D	DB-5MS 20m 0.18 0.18(mm)
LCSD 410-51208/3-A		10/06/2020 20:00	1	LJ0154.D	DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/06/2020 20:29	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/06/2020 20:59	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/06/2020 21:28	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/06/2020 21:57	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/06/2020 22:26	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/06/2020 22:55	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/06/2020 23:25	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/06/2020 23:54	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/07/2020 00:23	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/07/2020 00:52	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/07/2020 01:21	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/07/2020 01:50	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/07/2020 02:20	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/07/2020 02:49	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/07/2020 03:18	1		DB-5MS 20m 0.18 0.18(mm)
410-15639-1	MW-11D-20200930	10/07/2020 03:47	1	LJ0170.D	DB-5MS 20m 0.18 0.18(mm)
410-15639-2	MW-3-20200930	10/07/2020 04:16	1	LJ0171.D	DB-5MS 20m 0.18 0.18(mm)
410-15639-3	MW-13S-20200930	10/07/2020 04:45	1	LJ0172.D	DB-5MS 20m 0.18 0.18(mm)
410-15639-4	MW-13D-20200930	10/07/2020 05:14	1	LJ0173.D	DB-5MS 20m 0.18 0.18(mm)
410-15639-6	DUP-20200930	10/07/2020 05:43	1	LJ0174.D	DB-5MS 20m 0.18 0.18(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1

SDG No.:

Instrument ID: HP20296 Start Date: 10/07/2020 08:05

Analysis Batch Number: 51653 End Date: 10/07/2020 15:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-51653/1		10/07/2020 08:05	1	LJ0180.D	DB-5MS 20m 0.18 0.18(mm)
CCVIS 410-51653/2		10/07/2020 08:26	1	LJ0181.D	DB-5MS 20m 0.18 0.18(mm)
ICVL 410-51653/3		10/07/2020 09:48	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/07/2020 10:17	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/07/2020 10:46	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/07/2020 11:15	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/07/2020 11:44	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/07/2020 12:14	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/07/2020 12:43	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/07/2020 13:12	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/07/2020 13:41	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/07/2020 14:11	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/07/2020 14:40	1		DB-5MS 20m 0.18 0.18(mm)
410-15639-2 DL	MW-3-20200930 DL	10/07/2020 15:09	10	LJ0193.D	DB-5MS 20m 0.18 0.18(mm)
410-15639-3 DL	MW-13S-20200930 DL	10/07/2020 15:38	10	LJ0194.D	DB-5MS 20m 0.18 0.18(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-15639-1

SDG No.:

Instrument ID: HP20296 Start Date: 10/07/2020 16:35

Analysis Batch Number: 51967 End Date: 10/07/2020 23:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-51967/1		10/07/2020 16:35	1	LJ0200.D	DB-5MS 20m 0.18 0.18(mm)
CCVIS 410-51967/2		10/07/2020 16:54	1	LJ0201.D	DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/07/2020 17:38	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/07/2020 18:08	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/07/2020 18:37	1		DB-5MS 20m 0.18 0.18(mm)
410-15639-6 DL	DUP-20200930 DL	10/07/2020 19:06	10	LJ0205.D	DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/07/2020 19:35	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/07/2020 20:05	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/07/2020 20:34	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/07/2020 21:03	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/07/2020 21:32	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/07/2020 22:02	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/07/2020 22:31	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/07/2020 23:00	1		DB-5MS 20m 0.18 0.18(mm)
ZZZZZ		10/07/2020 23:29	1		DB-5MS 20m 0.18 0.18(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-15639-1

SDG No.:

Batch Number: 51208 Batch Start Date: 10/06/20 09:00 Batch Analyst: Ruth, Joshua R

Batch Method: 3510C Batch End Date: 10/06/20 13:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	SecondAdjustpH	OP_MINIBNA_SS 00022
MB 410-51208/1		3510C, 8270D		250 mL	1 mL	n/a SU	>11 SU	<2 SU	1 mL
LCS 410-51208/2		3510C, 8270D		250 mL	1 mL	n/a SU	>11 SU	<2 SU	1 mL
LCSD 410-51208/3		3510C, 8270D		250 mL	1 mL	n/a SU	>11 SU	<2 SU	1 mL
410-15639-D-1	MW-11D-20200930	3510C, 8270D	T	243 mL	1 mL	n/a SU	>11 SU	<2 SU	1 mL
410-15639-D-2	MW-3-20200930	3510C, 8270D	T	246 mL	1 mL	n/a SU	>11 SU	<2 SU	1 mL
410-15639-D-3	MW-13S-20200930	3510C, 8270D	T	244 mL	1 mL	n/a SU	>11 SU	<2 SU	1 mL
410-15639-D-4	MW-13D-20200930	3510C, 8270D	T	248 mL	1 mL	n/a SU	>11 SU	<2 SU	1 mL
410-15639-D-6	DUP-20200930	3510C, 8270D	T	244 mL	1 mL	n/a SU	>11 SU	<2 SU	1 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	OP_MINLCS1_MS 00040	AnalysisComment				
MB 410-51208/1		3510C, 8270D			Tap H2O; Split with 51209				
LCS 410-51208/2		3510C, 8270D		1 mL	Tap H2O				
LCSD 410-51208/3		3510C, 8270D		1 mL	Tap H2O				
410-15639-D-1	MW-11D-20200930	3510C, 8270D	T		Tan Tint				
410-15639-D-2	MW-3-20200930	3510C, 8270D	T		Brown Tint				
410-15639-D-3	MW-13S-20200930	3510C, 8270D	T		Amber Cloudy				
410-15639-D-4	MW-13D-20200930	3510C, 8270D	T		Tan Tint				
410-15639-D-6	DUP-20200930	3510C, 8270D	T		Brown 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.: 410-15639-1

SDG No.:

Batch Number: 51208 Batch Start Date: 10/06/20 09:00 Batch Analyst: Ruth, Joshua R

Batch Method: 3510C Batch End Date: 10/06/20 13:50

Batch Notes	
Acid Used for pH Adjustment ID	H2SO4 194547
Balance ID	25996
Base Used to Adjust pH ID	NaOH 4005E31
Analyst ID - Concentration	JSR12366
Equipment ID - Concentration 1	RVAP 5, 3
Analyst ID - Extraction	JSR12366
Na2SO4 ID	20274A
Pipette/Syringe/Dispenser ID	1
Prep Solvent ID	MeCl2 205042
Prep Solvent Volume Used	90 mL
Analyst ID - Spike Analyst	JSR12366
Concentration 1 Uncorrected Temperature	90 Degrees C

Basis	Basis Description
T	Total/NA

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

Shipping and Receiving Documents

Environmental Analysis Reque dy

eurofins | Lancaster Laboratories Environmental

For Eurofi

Acct. # _____ Group _____

410-15639 Chain of Custody

COC # 613441

Client Information

Client: Brown and Caldwell	Acct. #:
Project Name/#: Patchogue	PWSID #:
Project Manager: Jim Marolda	P.O. #:
Sampler: RES / RNP	Quote #:
State where samples were collected: NY	For Compliance: Yes ☐ No ☐

For Lab Use Only
FSC:
SCR#: 263496

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 P=H_3PO_4
F=Field Filtered O=Other

Remarks

Sample Identification	Collected Date	Collected Time	Grab	Composite	Matrix: Soil ☐ Sediment ☐ Tissue ☐	Water: Potable ☐ Ground ☒ NPDES ☐ Surface ☐	Other: DI water	Total # of Containers	Analysis Requested: BETEX/MTBE (8260)	PAHs (8270 SIM)	H
MW-11D-20200930	9/30/20	0825	X			X		5	X	X	
MW-3-20200930		0916	X			X		5	X	X	
MW-13S-20200930		1005	X			X		5	X	X	
MW-13D-20200930		1047	X			X		5	X	X	
TB-20200930		—	X				X	5	X		

Turnaround Time (TAT) Requested (please circle)

Standard Rush

(Rush TAT is subject to laboratory approval and surcharge.)

Requested TAT in business days: _____

E-mail address: JMarolda@browncald.com

Data Package Options (circle if required)

Type I (EPA Level 3 Equivalent/non-CLP)
Type VI (Raw Data Only)
Type III (Reduced non-CLP)
NJ DKQP
TX TRRP-13
NYSDEC Category A or B
MA MCP
CT RCP

Relinquished by	Date	Time	Received by	Date	Time
[signature]	9/25/20	11:05			
Rachel Scandale	9/30/20	1500			
			[signature]	10/1/20	1035

EDD Required? Yes No
If yes, format: BCEquis

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier
UPS _____ FedEx X Other _____

Temperature upon receipt 1.4 °C

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 410-15639-1

Login Number: 15639
List Number: 1
Creator: Rivera, Tatiana

List Source: Eurofins Lancaster Laboratories Env

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=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.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	

Appendix C: Data Validator Qualifications

Jaclyn Lauer, P.E. S.C.

Experience Summary

Jaclyn Lauer started at Brown and Caldwell in the Columbia, SC office working with infrastructure, GIS, and condition asset management for municipal water and wastewater entities including sewer system evaluation studies. She then moved to the Atlanta, GA office where she worked many private sector clients and gained experience in data evaluation and assessment, compliance and permitting, project management, local limits evaluation studies, and database management. Ms. Lauer now works remotely in Lander, WY on many projects nationwide. In addition, she has led treatability laboratory studies and assisted in compliance reporting for a wide variety of clients. While at Clemson, she worked in the environmental laboratory for two years.

Assignment

Senior Engineer

Education

B.S. Environmental Engineering, Clemson University 2013

M.S. Environmental Engineering, Clemson University 2014

Clemson, SC

Registration

P.E., South Carolina #34670

Experience

5 years

Joined Firm

2014

Relevant Expertise

- *Data Evaluation*
- *Data Validation*
- *Data Usability*
- *Compliance and Permitting*
- *Infrastructure*
- *Water/wastewater Process Design*
- *GIS*
- *Field Work*
- *Mobile Data Collection*

Memberships

- *American Water Works Association (AWWA)*

Trainings

- *HAZWOPER 40 Hour*
- *Confined Space Certified*
- *Industrial Hygiene Health and Safety Certified*
- *Wetland Delineation Certified*

Publications

- *Lauer, Jaclyn, "The Use of Oxidants for NDMA Precursor Deactivation in Wastewater Treatment" (2014). All Theses. Paper 1905. http://tigerprints.clemson.edu/all_theses/1905*

Data Validation and Verification, Nationwide

Multiple On-going projects. Provides data validation for level I through IV laboratory reports including air, surface water, groundwater, soil, and soil gas samples. Verification, usability, and lab data management are provided for specialized projects. Provides training and mentorship to mid-level employees for data analysis. Trainings specifically for Organics and Inorganics along with PFAS and Explosives.

Environmental

Various Sampling, Multiple Clients, GA, FL, AL, OH, and SC

Field Scientist and Field Manager. Duties involve the sampling of air, surface water, groundwater, and subsurface at both hazardous and non-hazardous waste sites for biological, chemical, and physical parameters, and the coordination and safety of said sampling events. Conducted daily health and safety meetings discussing potential hazards of each site and summarizing health and safety plans to internal staff and external subcontractors. Field methods for collecting subsurface samples have included direct push drilling, hollow-stem augering, and various groundwater sampling techniques.

Ordot Landfill Closure, Guam

Project Engineer. Responsibilities include aiding in laboratory management. This includes sample orders, report validation, database management, and data usability. Also, assisted in establishing background concentrations and calculations. [2018 to present]

Vulcan Project Management, Georgia

Project Engineer. Responsibilities include aiding in on-call services for Vulcan for compliance and permitting, Stormwater, site surveying, and environmental assessments. [2016 to present]

Project Manager. Worked for the Vulcan Stockbridge Facility in Stockbridge, Georgia on a movie set to help develop an environmentally safe way to remove fake snow from the quarry pit. Responsibilities include managing the cleanup team and project and working with Vulcan and the client, Marvel, to ensure the product was removed and reused. [2017]

Project Engineer. Responsibilities include updating all SWPPPs for each plant in the state of Georgia. This included updating maps and reports, site inspections, and dye testing. [2017]

Walmart Environmental Site Inspections, Multiple Locations, Southeastern United States

Site Inspector. Responsibilities include Nightly auditing for ongoing construction at Walmart across the Southeast. Audits included interior and

exterior environmental, health, and safety inspections working with the site's general contractor. [2016 to 2017]

Groundwater Sampling, Former Manufactured Gas Plant, Confidential Client, Jacksonville, Florida

Project Engineer. Sampling of the groundwater for chemical and physical parameters, and the coordination safety of sampling events, and LNAPL and DNAPL delineation. Conducted daily health and safety meetings discussing potential hazards of each site and summarizing HASPs to internal staff and external subcontractors. Field methods included using peristaltic pumping to effectively collect samples.

Wetland Delineations and Stream Assessments, Multiple Locations, Southeastern United States

Project Manager. Conducted routine delineations of wetlands on properties ranging from 1 to 880 acres utilizing U.S. Army Corps of Engineers (USACE) protocols. Multiple project sites located in Georgia, Tennessee, South Carolina, Alabama, and Florida. [2017–Present]

Well Development, Groundwater Investigation, Oversight, Soil Investigation and Vapor Intrusion Sampling, Confidential Client, Covington, Georgia

Project Engineer. Well development of both on site and residential monitoring wells using field methods that include peristaltic pumping, geo-sub pumping, and waterra pumping. Conducted vapor intrusion sampling in residential houses using Summa canisters, interacting with residents. [KM Fountain Inn SC Environmental,

HMTF Site Closure, University of Georgia, Athens, Georgia

Project Engineer. Collected soil samples with a hand auger, following careful sample collection methods and decontamination methods. Provided oversight for decontamination and cleanup of facility then verified with wipe sampling following sample collection methods. Helped draft the closure report and aided in quality control of the laboratory data. Provided follow up sampling and decontamination including wipe and soil sampling. [2016 to present]

Industrial Water Reuse

Start-Up and Compliance Services, Confidential Pharmaceutical Client, Georgia

Process Engineer. Jaclyn provided on-demand regulatory compliance support and WWTP start-up services and a Covington, Georgia pharmaceutical facility. This includes creation and updates to the Standard Operating Procedure, and preparation of an O&M manual and operator training for the wastewater pretreatment system, designed and constructed by BC. Jaclyn spent time onsite performing inspections and aiding facility operators.

Reclaimed Water POTW, Confidential Refinery, Texas

Process Engineer. Conducted a study to consider using 4 MGD of POTW effluent from the city's WWTP. Responsibilities include the assessment for the addition of disinfection at the refinery including types of disinfection, location, and design. Additionally, designed and performed bench scale breakpoint chlorination and THM formation study to assess the chlorine demand and formation of THM in the effluent POTW. The main task for disinfection with chlorine is to combat peak day ammonia (5 ppm) bleed through from the POTW needs to be treated to <0.1 ppm and control water quality from the city's POTW. [BC Project # 146640]

Municipal Wastewater

Calculation and Evaluation of Local Limits, Fulton County Department of Public Works, Cherokee County Water & Sewer Authority, and Dekalb County Department of Watershed Management, Georgia

Project Engineer. Performed all data gathering, calculations, and regulatory review of the local limits developed for the wastewater treatment facilities in Dekalb, Fulton, and Cherokee Counties. For Fulton County, Local limits were individually developed for Johns Creek, Big Creek, and Camp Creek to review the old limits for industrial pretreatment. For Dekalb County, reviewed industrial and commercial data to determine source of FOG and developed recommendations to address sewer corrosion. For Cherokee County, reviewed scenarios for anticipated growth and calculated local limits that would allow for such growth.

City of Flagstaff, Local Limits Development and Pretreatment Program Assessment

Project Engineer. Conducted an interim Industrial Pretreatment Local Limits Evaluation to assess current limits for BOD and TSS to determine whether the City could accommodate additional industrial wastewater from breweries. Developed recommendations for future limits to protect the City's facilities but not limits industrial users.

HRSD WO7.6 Regionalized Rehab Program, HRSD, Virginia Beach, Virginia

Project Engineer. Responsibilities includes development of rehabilitation scopes, cost estimates, post-rehab I/I reduction estimates, and adjustment of hydrologic parameters in selected rehabilitation catchments in the HRSD service area. The Hampton Roads Sanitation District (HRSD) has taken regional responsibility to implement the EPA/Virginia DEQ mandated wet weather management plan (RWWMP), including identification and rehabilitation of cost-effective inflow/infiltration sources [BC Project # 146162]

Rocky Branch Basin SSES, City of Columbia, Columbia, South Carolina

Project Engineer. Responsibilities include providing technical engineering support to the City of Columbia for a Sewer System Evaluation Study (SSES) of a portion of the City's sanitary sewer system to identify problems that may lead to sanitary sewer overflows (SSOs). This includes investigations that are intended to identify structural, operations and maintenance, and infiltration and inflow (I/I) related problems. A full update to the City of Columbia's GIS will be provided at the end of the assessment. The intent of this project is to meet the requirements of the Continuing Sewer Assessment Program (CSAP) and the Infrastructure Rehabilitation Program (IRP) which are components of the Consent Decree under which the City is performing this work.

Appendix D: Data Usability Summary Report

DATA USABILITY SUMMARY REPORT
PATCHOGUE FORMER MGP SITE

Client: Brown and Caldwell, Albany, New York
SDGs: 410-15514-1
Laboratory: Eurofins Lancaster Laboratories, Lancaster, Pennsylvania
Site: Patchogue, NY
Date: October 20, 2020

Client Sample ID	Laboratory Sample ID	Matrix
MW-1-20200928	410-15514-1	Groundwater
MW-10S-20200928	410-15514-2	Groundwater
MW-10D-20200928	410-15514-3	Groundwater
MW-7S-20200928	410-15514-4	Groundwater
MW-7D-20200928	410-15514-5	Groundwater
MW-8S-20200928	410-15514-6	Groundwater
MW-8D-20200929	410-15514-7	Groundwater
MW-14S-20200929	410-15514-8	Groundwater
MW-14D-20200929	410-15514-9	Groundwater
FB-20200929	410-15514-10	Water
MW-12S-20200929	410-15514-11	Groundwater
MW-12D-20200929	410-15514-12	Groundwater
MW-4S-20200929	410-15514-13	Groundwater
MW-4D-20200929	410-15514-14	Groundwater
MW-11S-20200929	410-15514-15	Groundwater
TB-20200929	410-15514-16	Water

Data validation was performed on the analytical data for sixteen (16) samples collected on September 28 through 29, 2020 by Brown and Caldwell Associates at the Patchogue Site in New York. The samples were analyzed under the Environmental Protection Agency (USEPA) "Volatile Organic Compounds by Gas Chromatography/ Mass Spectrometry (GC/MS), SW-846 Method 8020C", August 2006, "Test Methods for Evaluating Solid Wastes, SW-846 Method 8270D (SIM), February 2007" and "Test Methods for Evaluating Solid Wastes, SW-846 Method 3510C, Rev 3", December 1996. Specific method references are as follows:

Analysis	*Method References*
Volatile Organic Compounds (VOCs)	USEPA SW-846 SW8260C
Semi Volatile Organic Compounds (SVOCs)	USEPA SW-846 SW8270D

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-34a, Revision 0, July 2015, Trace Volatile Data Validation;
- SOP Number HW-35a, Revision 0, June 2015, Semivolatile Data Validation;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

- Data Completeness
- Holding times and sample preservation
- Field Duplicate Accuracy
- Internal Standard Area and RT
- Surrogates
- Laboratory Control Sample (LCS) recoveries
- Matric Spike and Matrix Spike Duplicate Samples
- Method and field blank contamination
- Initial and continuing calibration summaries
- Compound Quantitation
- Reporting Limits
- Sample comments and Quality Control Summaries

Overall Usability Issues:

Overall, the data is acceptable for the intended purposes. No analytical or quality issues were noted.

Holding Times

- Holding times were achieved for all analyses.

Field Duplicate Accuracy

- There were no field duplicates collected in this dataset.

Internal Standard Areas

- All samples exhibited acceptable internal standard values.

Surrogates

- All samples exhibited acceptable surrogate recovery values.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries.

Matric Spike and Matrix Spike Duplicate (MS/MSD) Samples

- The MS/MSD samples were analyzed on MW-10D-20200928, and percent recoveries are within acceptable limits.

Method and Field Blanks

- The method, trip, and field blanks were free of contamination.

Initial Calibration

- All recoveries and/or correlation coefficient criteria were met.

Continuing Calibration

- All Percent Drift criteria were met.

Compound Quantitation

- All sample detections are appropriately qualified as estimated, J, by the laboratory.

Reporting Limits

- MW-1-20200928 and MW-11S-20200929 were diluted due to foaming at the time of purging during the original sample analysis. Elevated reporting limits are provided.
- All other laboratory reporting limits were met.

Please contact the undersigned if you have any questions or need further information.

Signed: Dated: October 20, 2020

Jaclyn Lauer, P.E.
Senior Staff Engineer
Brown and Caldwell

Data Qualifiers

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.

U = The analyte was analyzed for but was not detected above the sample reporting limit.

R = The sample results is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

Reason Codes

1	Holding time violation
2	Method blank contamination
3	Surrogate recovery
4	MS/MSD recovery
5	MS/MSD precision outside limits
6	LCS recovery
7	Field blank contamination
8	Field duplicate precision outside limits
9	Other deficiencies (including cooler temperature)
A	Absence of supporting QC
S	ICV, CCV or column performance check problem
Y	Initial and continuing calibration blank problem
M	Interference check samples problem
O	Post digestion spike outside of 85-115%
F	MSA correlation coefficient <0.995, or MSA not done
G	Serial dilution problem
K	DFTPP or BFB tuning problem
Q	Initial calibration problem
X	Internal standard recovery problem
V	Second source standard calibration verification problem
L	Low bias
Z	Retention time problem
N	Counting time error (radionuclide chemistry)
W	Detector instability (radionuclide chemistry)
C	Co-elution of compounds
E	Value exceeds linear calibration range
I	Interferences present during analysis
T	Trace level compound, poor quantitation
P	1C/2C precision outside limits
B	LCS/LCSD precision outside limits
D	Lab Dup/Rep precision outside limits
H	High bias

DATA USABILITY SUMMARY REPORT
PATCHOGUE FORMER MGP SITE

Client: Brown and Caldwell, Albany, New York
SDGs: 410-15639-1
Laboratory: Eurofins Lancaster Laboratories, Lancaster, Pennsylvania
Site: Patchogue, NY
Date: October 21, 2020

Client Sample ID	Laboratory Sample ID	Matrix
MW-11D-20200930	410-15639-1	Groundwater
MW-3-20200930	410-15639-2	Groundwater
MW-13S-20200930	410-15639-3	Groundwater
MW-13D-20200930	410-15639-4	Groundwater
TB-20200930	410-15639-5	Water
FD-20200930	410-15639-6	Groundwater

Data validation was performed on the analytical data for six (6) samples collected on September 30, 2020 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*
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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:

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- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

- Data Completeness
- Holding times and sample preservation
- Field Duplicate Accuracy
- Internal Standard Area and RT
- Surrogates
- Laboratory Control Sample (LCS) recoveries
- Matric Spike and Matrix Spike Duplicate Samples
- Method and field blank contamination
- Initial and continuing calibration summaries
- Compound Quantitation
- Reporting Limits
- Sample comments and Quality Control Summaries

Overall Usability Issues:

Overall, the data is acceptable for the intended purposes. No analytical or quality issues were noted.

Holding Times

- Holding times were achieved for all analyses.

Field Duplicate Accuracy

- DUP-20200930 is the field duplicate for sample MW-3-20200930. All relative percent differences are within guidance limits.

Internal Standard Areas

- All samples exhibited acceptable internal standard values.

Surrogates

- All samples exhibited acceptable surrogate recovery values.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries.

Matric Spike and Matrix Spike Duplicate (MS/MSD) Samples

- There were no MS/MSD samples analyzed on this dataset.

Method and Field Blanks

- The method and trip blanks were free of contamination.

Initial Calibration

- All recoveries and/or correlation coefficient criteria were met.

Continuing Calibration

- All Percent Drift criteria were met.

Compound Quantitation

- There were no qualifications due to compound quantitation.

Reporting Limits

- All laboratory reporting limits were met.

Please contact the undersigned if you have any questions or need further information.

Signed: Dated: October 21, 2020

Jaclyn Lauer, P.E.
Senior Staff Engineer
Brown and Caldwell

Data Qualifiers

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.

U = The analyte was analyzed for but was not detected above the sample reporting limit.

R = The sample results is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

Reason Codes

1	Holding time violation
2	Method blank contamination
3	Surrogate recovery
4	MS/MSD recovery
5	MS/MSD precision outside limits
6	LCS recovery
7	Field blank contamination
8	Field duplicate precision outside limits
9	Other deficiencies (including cooler temperature)
A	Absence of supporting QC
S	ICV, CCV or column performance check problem
Y	Initial and continuing calibration blank problem
M	Interference check samples problem
O	Post digestion spike outside of 85-115%
F	MSA correlation coefficient <0.995, or MSA not done
G	Serial dilution problem
K	DFTPP or BFB tuning problem
Q	Initial calibration problem
X	Internal standard recovery problem
V	Second source standard calibration verification problem
L	Low bias
Z	Retention time problem
N	Counting time error (radionuclide chemistry)
W	Detector instability (radionuclide chemistry)
C	Co-elution of compounds
E	Value exceeds linear calibration range
I	Interferences present during analysis
T	Trace level compound, poor quantitation
P	1C/2C precision outside limits
B	LCS/LCSD precision outside limits
D	Lab Dup/Rep precision outside limits
H	High bias

Appendix E: Evaluation of Potential Impact to River from Site Constituents in Groundwater – September 2020 Data

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.

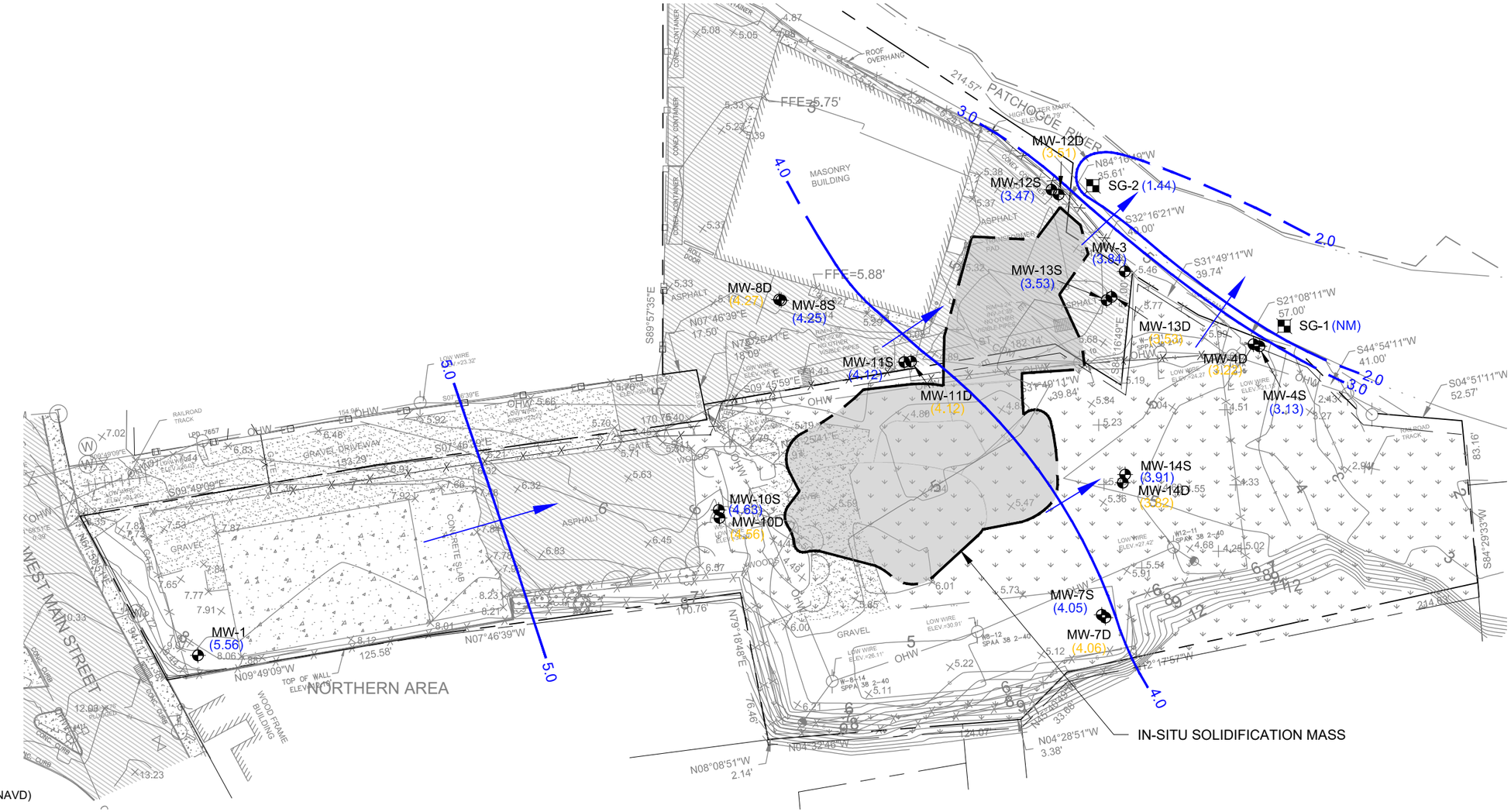
ft^3/s - cubic feet per second

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

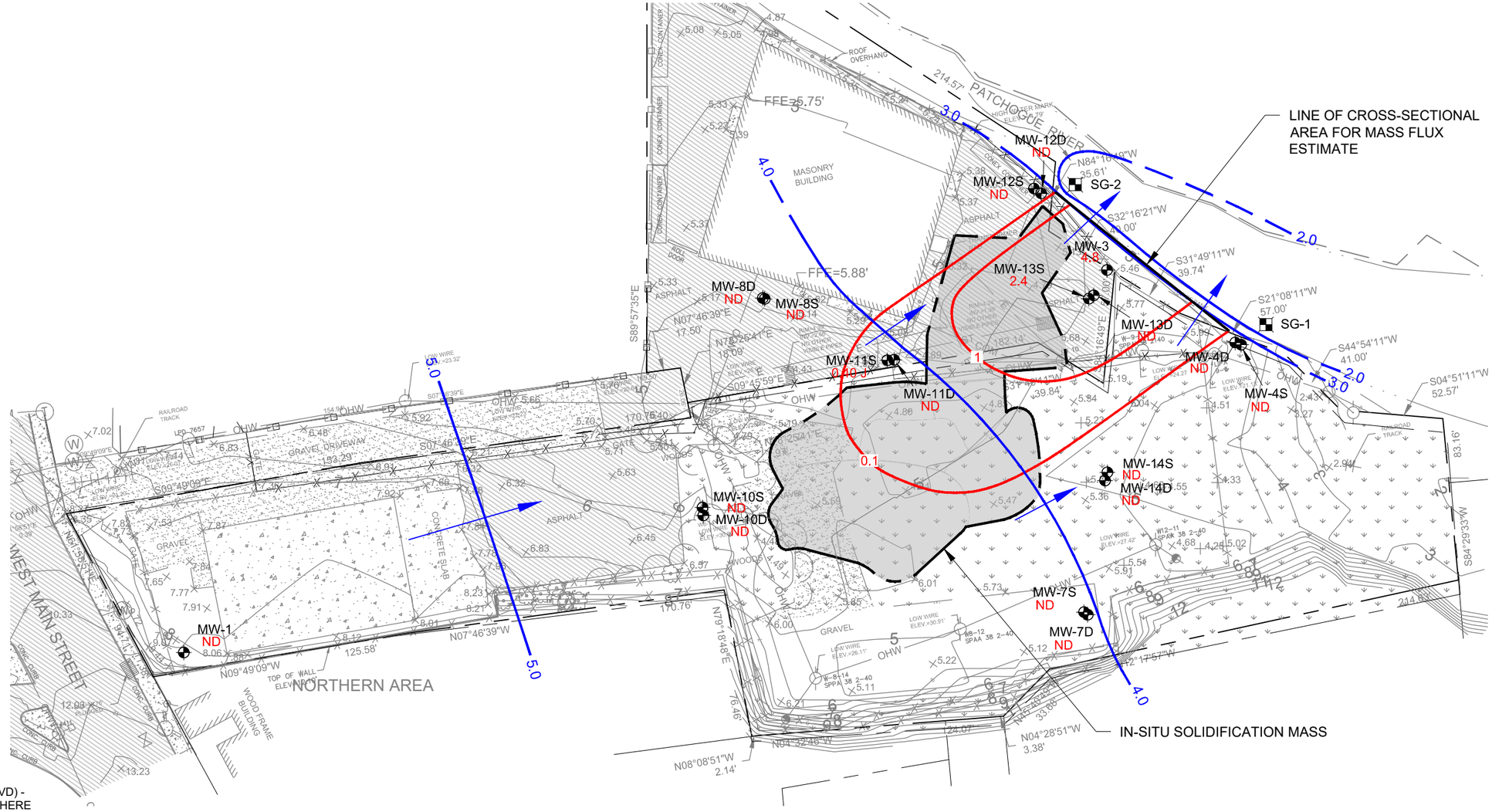
FIGURE

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.

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

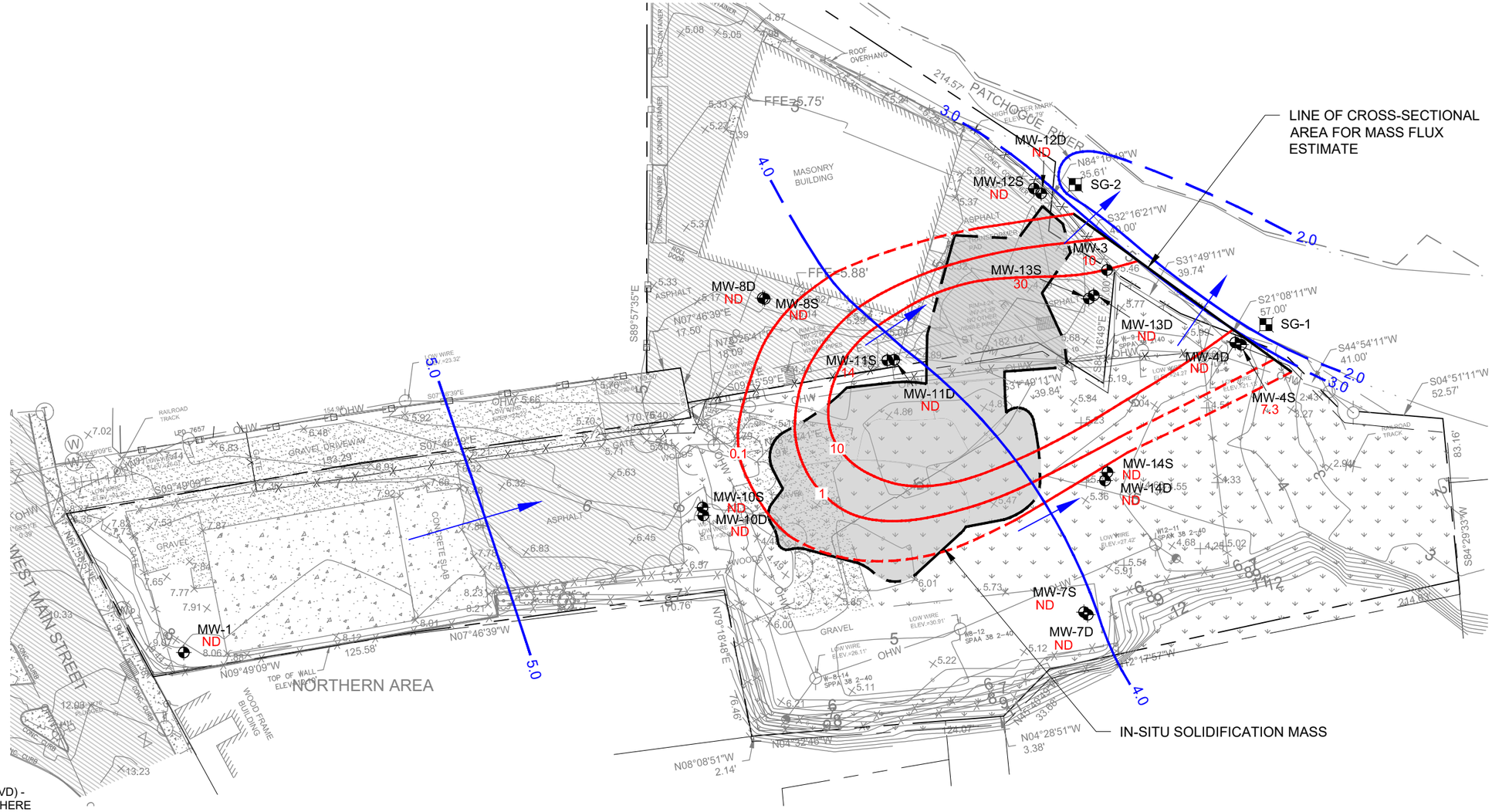
FIGURE

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.

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

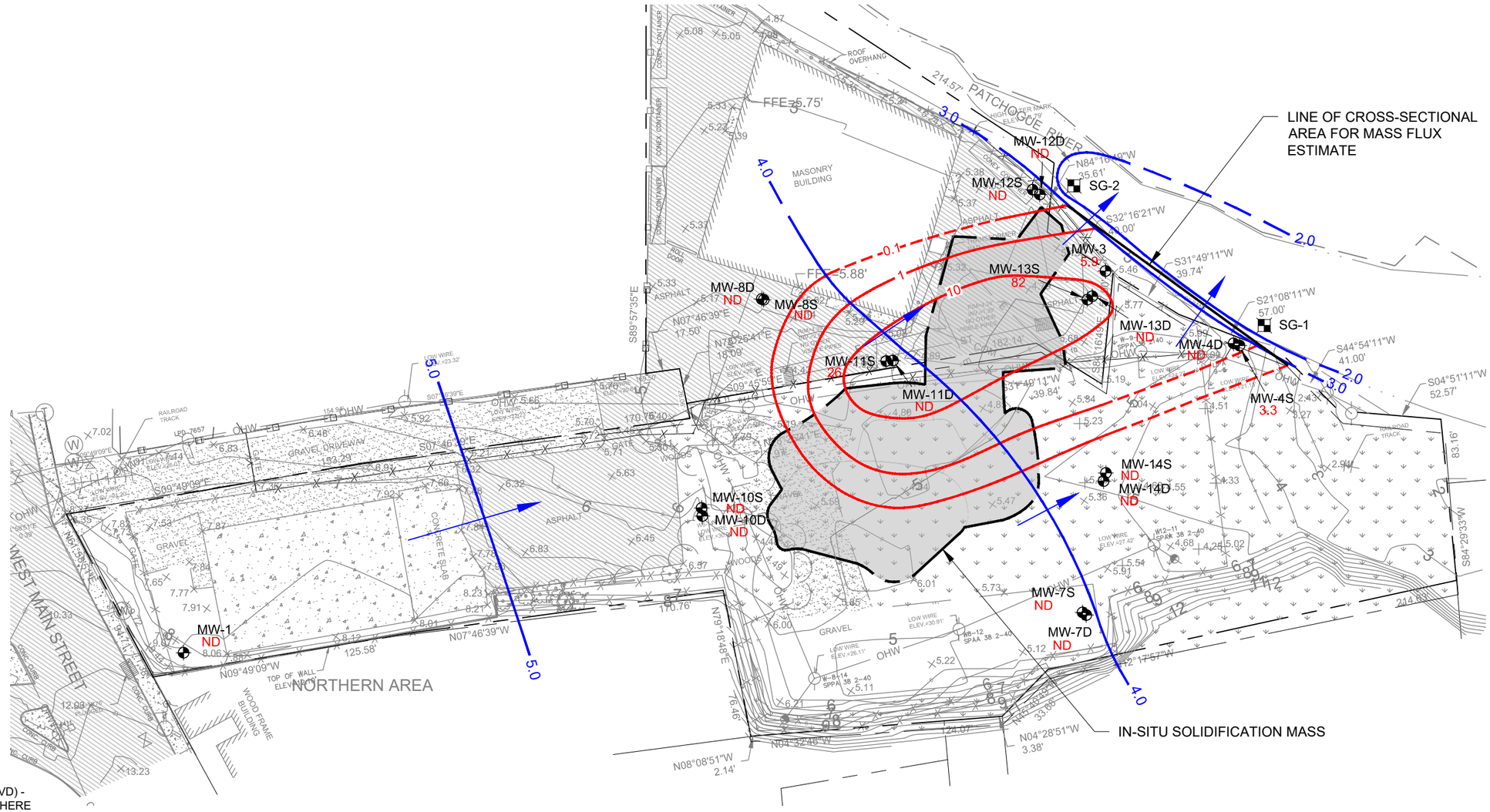
FIGURE

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

MW-1 ND
MW-3 35
MW-4D ND
MW-4S 4.4
MW-7D ND
MW-7S ND
MW-8D ND
MW-8S ND
MW-10D ND
MW-10S ND
MW-11D ND
MW-11S 7.0
MW-12D ND
MW-12S ND
MW-13D ND
MW-13S 17
MW-14D ND
MW-14S ND
SG-1
SG-2

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	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				
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 = $(\mu g/L)/1000 = \mu g/cm^3$

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/cm³	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/cm³	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/cm³	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					
C=	0.316227766	µg/L =	0.000316228	$µg/cm^3$	Geometric mean concentration between selected contours		1	0.32	19	18
L =	19	ft =	579.12	cm	Length of segment between selected contours [C]		10	3.16	45	18
b =	18	ft =	548.64	cm	Saturated thickness		35	18.71	85	18
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 F: Evaluation of Potential Impact to River from Site Constituents in Groundwater – March and June 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.

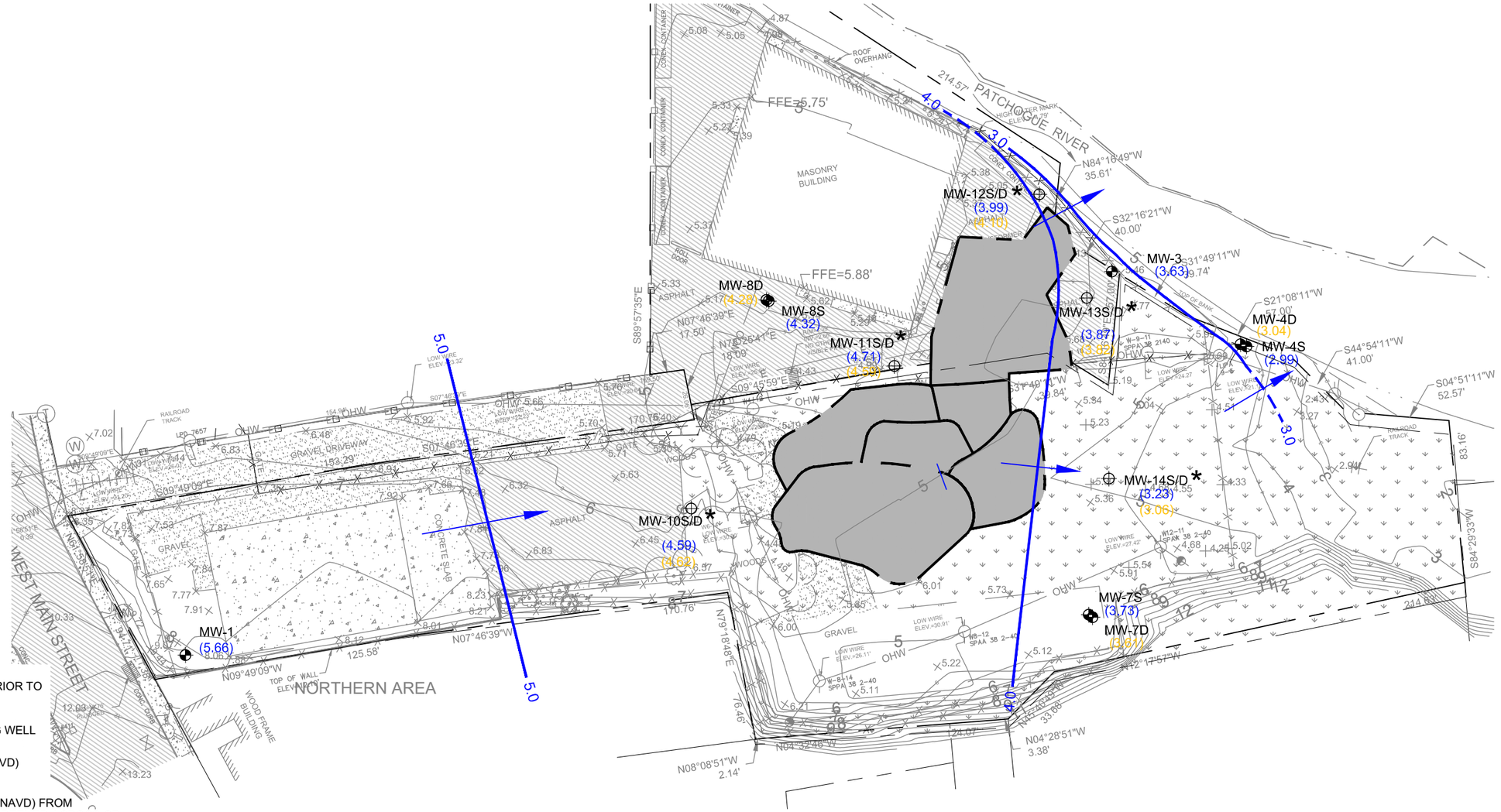
ft^3/s - cubic feet per second

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
- FENCE
- 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
- 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)
- ACENAPHTHENE 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.

LINE OF CROSS-SECTIONAL AREA FOR MASS FLUX ESTIMATE

MW-12S/D 0.10 ND
MW-8D ND
MW-8S 0.09
MW-11S/D 56 0.06
MW-10S/D ND ND
MW-1 ND
MW-3 5
MW-4D 0.01J
MW-4S 12
MW-13S/D 36 ND
MW-14S/D 0.4 ND
MW-7S 0.08
MW-7D ND

NORTHERN AREA

PATCHOGUE RIVER

WEST MAIN STREET

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

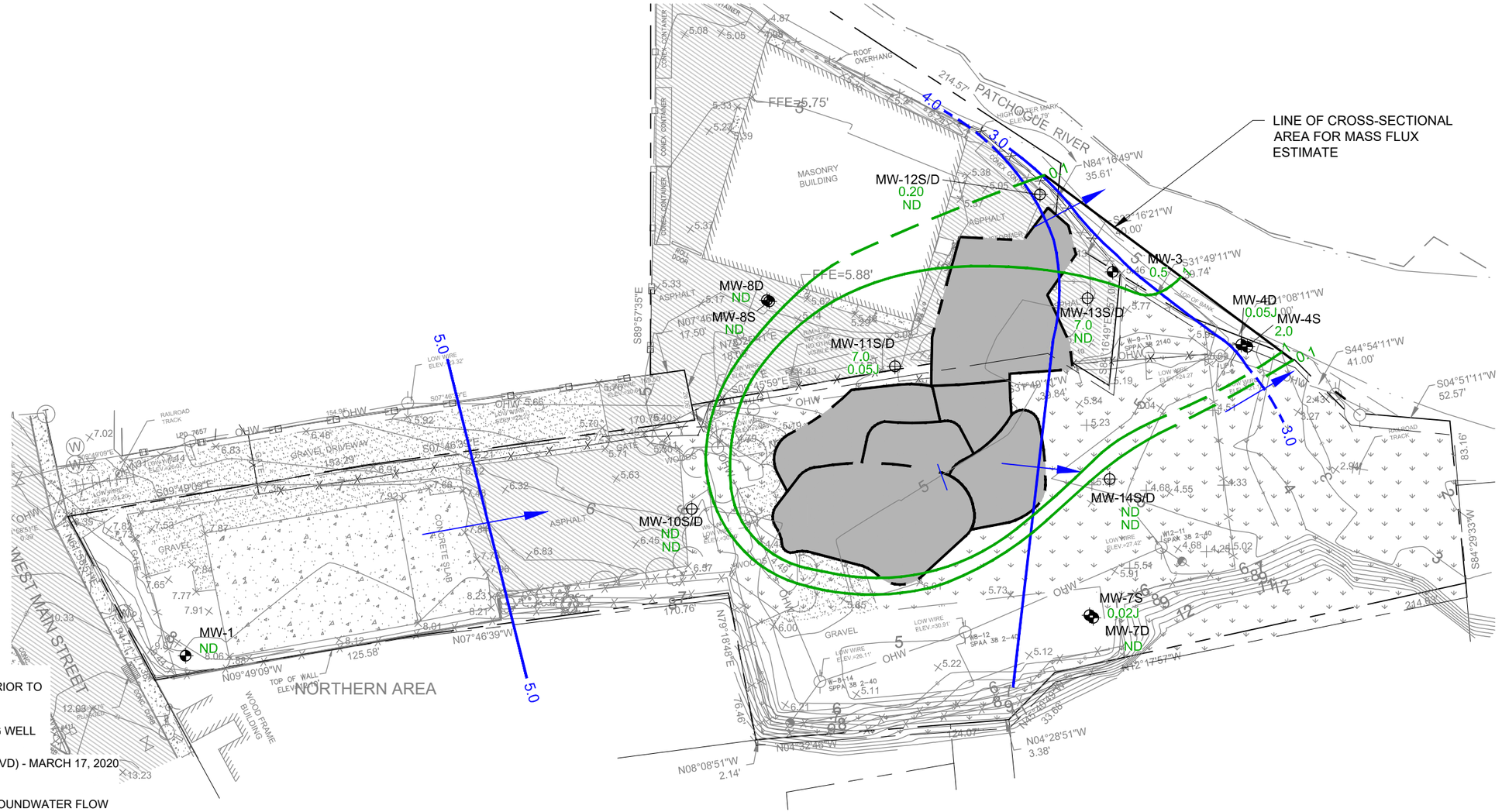
Path: \\bcusrfp01\Projects\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-E_3_fluorene_March2020 Plot Date: May 29, 2020 10:23 AM Cadd User: Alan Santiago

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
- x x FENCE
- 10 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)
- 5.0 PYRENE 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.

MW-1 ND 8.06

MW-8D ND

MW-8S ND

MW-10S/D 0.03J 0.05J

MW-11S/D 4.0 0.20

MW-12S/D 2.0 ND

MW-13S/D 8.0 ND

MW-3 5.0

MW-4D 0.02J

MW-4S 0.60

MW-14S/D ND ND

MW-7S ND

MW-7D ND

LINE OF CROSS-SECTIONAL AREA FOR MASS FLUX ESTIMATE

NORTHERN AREA

PATCHOGUE RIVER

WEST MAIN STREET

FFE=5.75'

FFE=5.88'

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

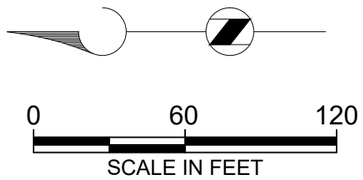
TABLE G-1
SUMMARY OF DATA USED TO CALCULATE 7Q10 FLOW IN PATCHOGUE RIVER
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

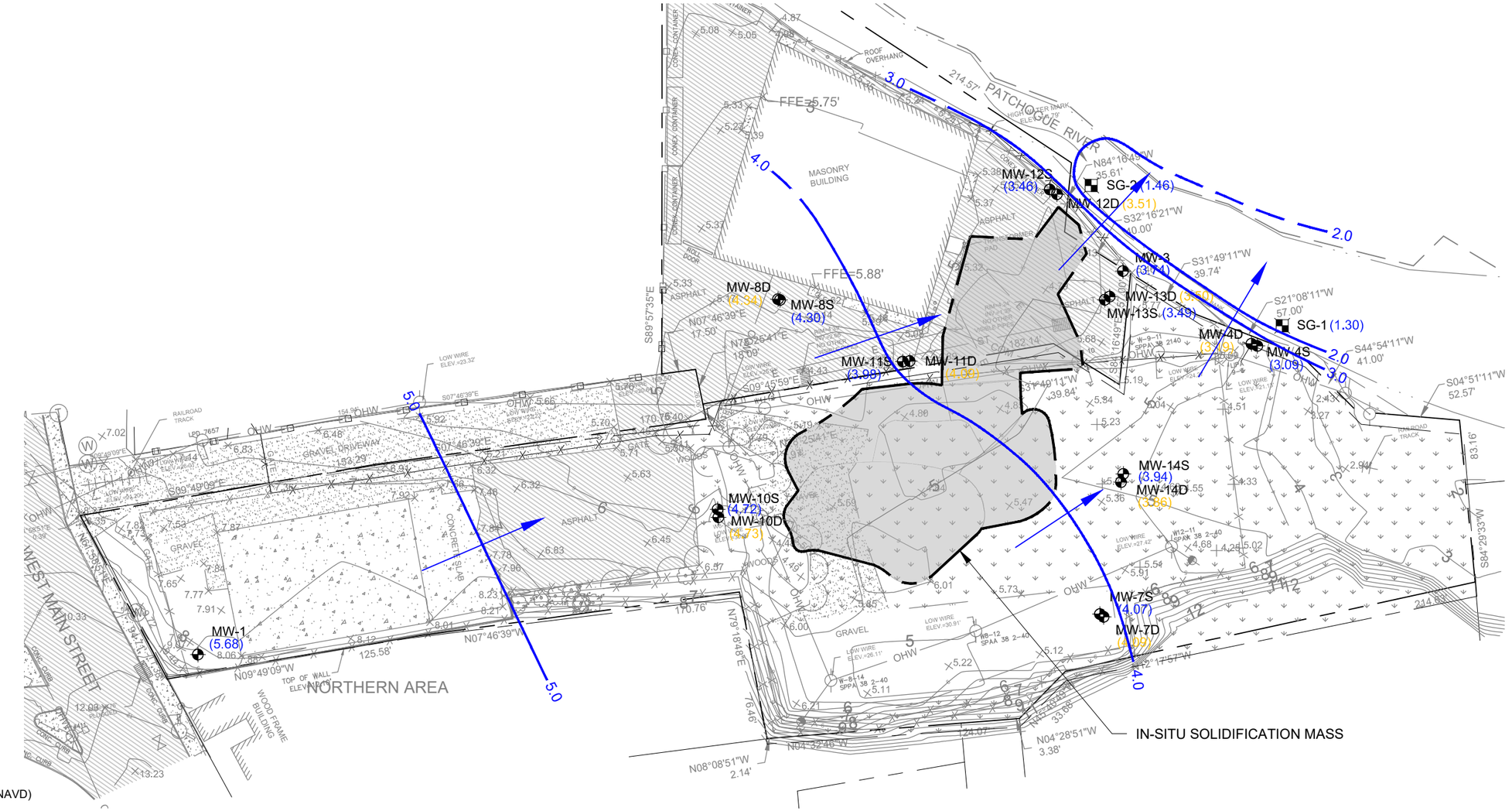
Water Year[(1)]	Low Flow (ft^3/s)	Rank	Probability
1961	20.1	1	0.091
1958	19.1	2	0.182
1960	16.9	3	0.273
1962	16.6	4	0.364
1959	16.0	5	0.455
1967	14.4	6	0.545
1964	13.6	7	0.636
1965	12.9	8	0.727
1963	12.4	9	0.818
1966	11.1	10	0.909

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





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

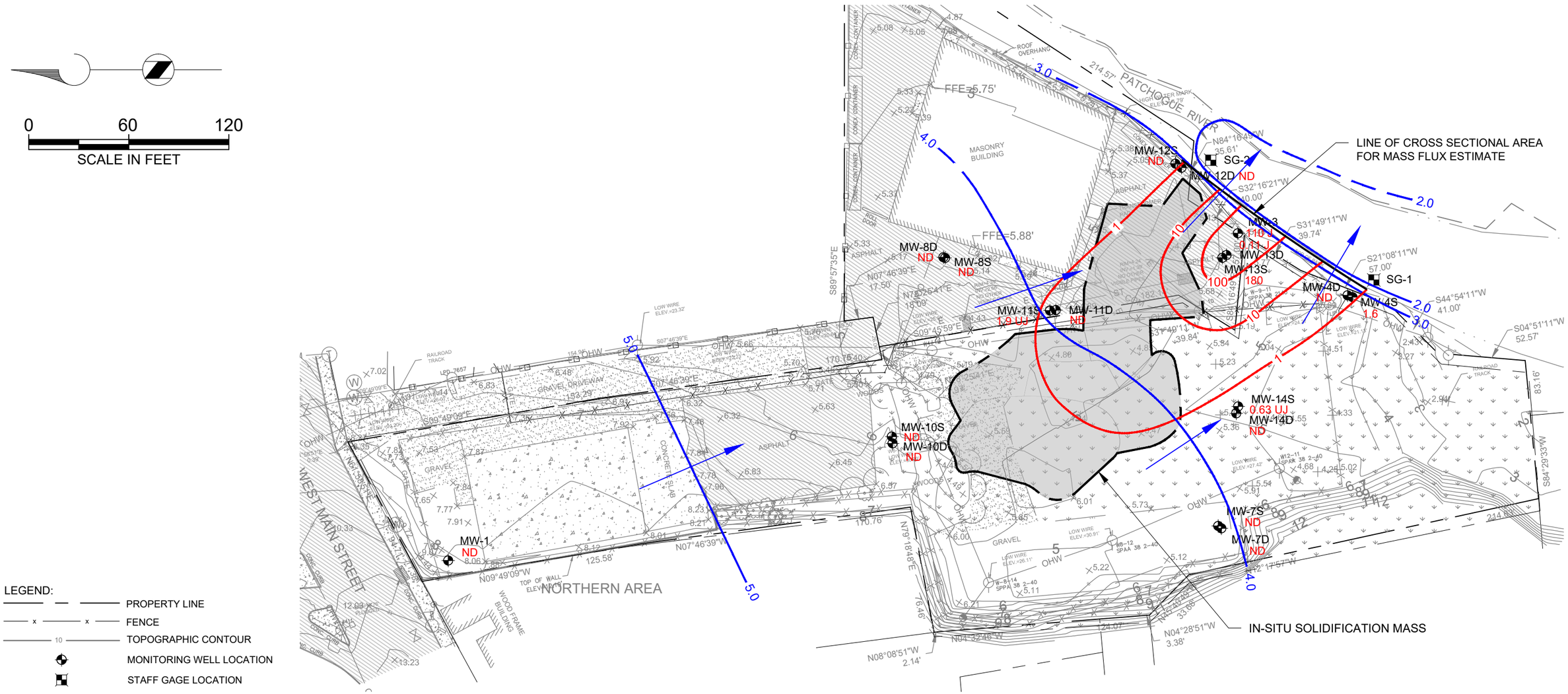
NATIONAL GRID
PATCHOGUE FORMER MGP SITE
VILLAGE OF PATCHOGUE, NEW YORK

WATER TABLE ELEVATION CONTOUR MAP
JUNE 29, 2020

FIGURE

G-1

Path: P:\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-1-(June-2020) Plot Date: September 16, 2020 1:43 PM Cadd User: Robert Near



Brown AND Caldwell

SCALE: 1" = 60'

153021

DATE: September 11, 2020

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

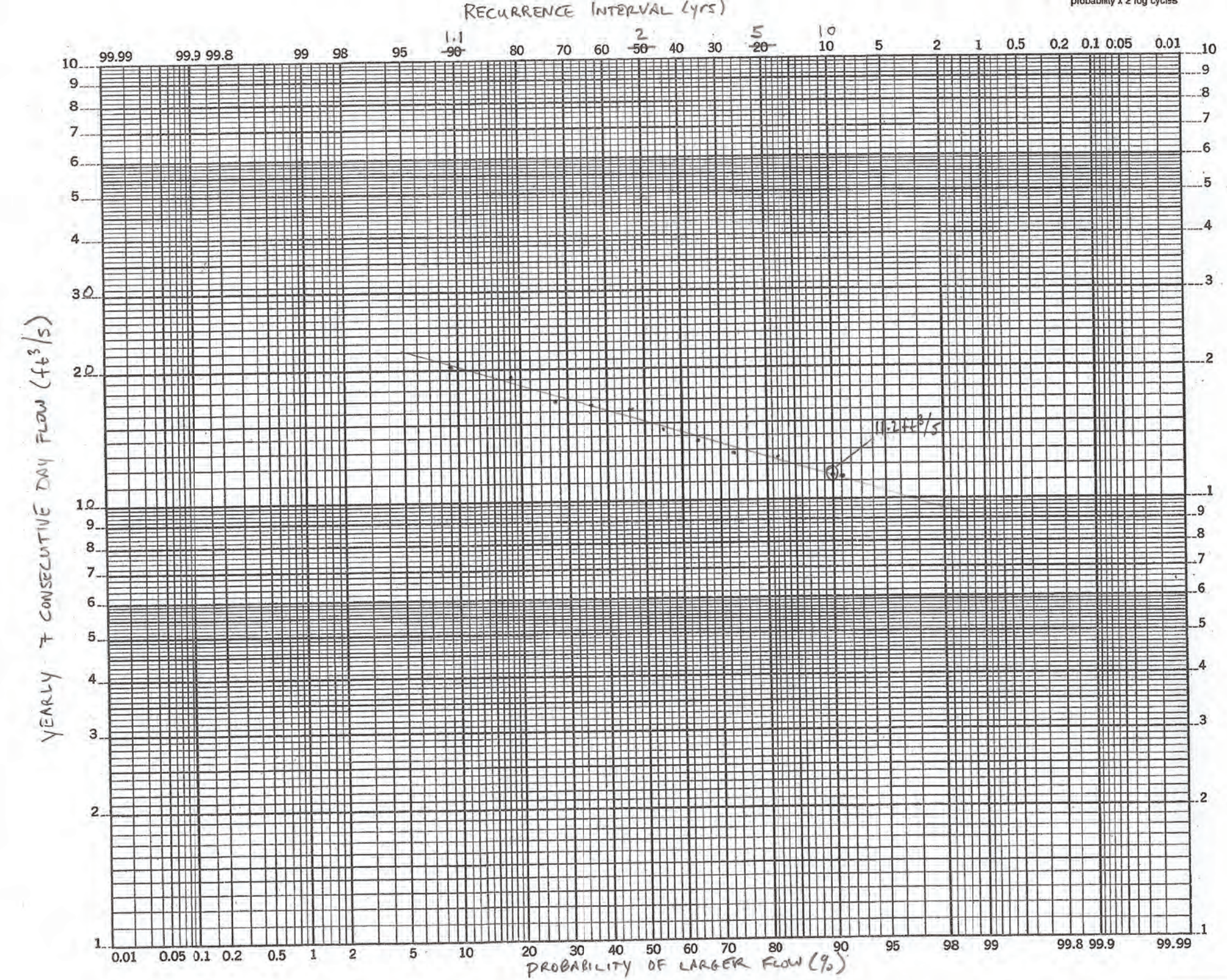
NAPHTHALENE IN GROUNDWATER JUNE 2020

FIGURE

G-2

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

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	Thickness
k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells	1			
i =	0.014	hydraulic gradient, dimensionless			Measured in vicinity of selected contours	10	3.16	66	18
C=	3.16 µg/L =		0.00316	µg/cm^3	Geometric mean concentration between selected contours	100	31.62	32	18
L =	66 ft =		2011.68	cm	Length of segment between selected contours [C]	110	104.88	30	18
b =	18 ft =		548.64	cm	Saturated thickness				
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