FINAL

Remedial Investigation and Final Report Pipeline Release PB 881 Dike Roadway - Point Breeze South Yard

Former Philadelphia Energy Solutions Refinery Facility ID No. 51-33620
3144 West Passyunk Avenue, Philadelphia, Pennsylvania

Prepared for

Philadelphia Energy Solutions Refining and Marketing LLC
3144 West Passyunk Avenue
Philadelphia, Pennsylvania

Prepared by

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terraphase engineering

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Acronyms and Abbreviations

25 Pa. Code	Title 25 Pennsylvania Code
Act 2	Pennsylvania Land Recycling and Environmental Remediation Standards Act
AOI	Area of Interest
AST	aboveground storage tank
ASTM	American Society for Testing and Material
BaA	benzo(a)anthracene
BaP	benzo(a)pyrene
BbF	benzo(b)fluoranthene
BghiP	benzo(g,h,i)perylene
bgs	below ground surface
COPC	constituent(s) of potential concern
Evergreen	Evergreen Resources Group, LLC; includes Sunoco, Inc. n/k/a ETC Sunoco Holdings LLC, Sunoco, Inc. (R&M) n/k/a Sunoco (R&M), LLC n/k/a Energy Transfer (R&M), LLC and Evergreen collectively referred to as “Evergreen”
the Facility	former Philadelphia Energy Solutions refinery facility
ft	feet or foot
ft^2	square feet
mg/kg	milligrams per kilogram
MSC	medium-specific concentration(s)
NIR	Notice of Intent to Remediate
Non-Res	non-residential
NorthStar	NorthStar Contracting Group, Inc.
PADEP	Pennsylvania Department of Environmental Protection
PESRM	Philadelphia Energy Solutions Refining and Marketing LLC
PID	photoionization detector
PIP	Public Involvement Plan
PQL	practical quantitation limit(s)
RI/Final Report	Remedial Investigation and Final Report
the Site	PB 881 Dike Roadway Release Area location within the former Philadelphia Energy Solutions refinery facility
SHS	Statewide Health Standard
SSS	Site-Specific Standard
SVOC	semi-volatile organic compound(s)
Terraphase	Terraphase Engineering Inc.

1,2,4-TMB	1,2,4-trimethylbenzene
1,3,5-TMB	1,3,5-trimethylbenzene
VISL	Vapor Intrusion Screening Level
VOC	volatile organic compound(s)
Yd^3	cubic yards
%	percent

Certification

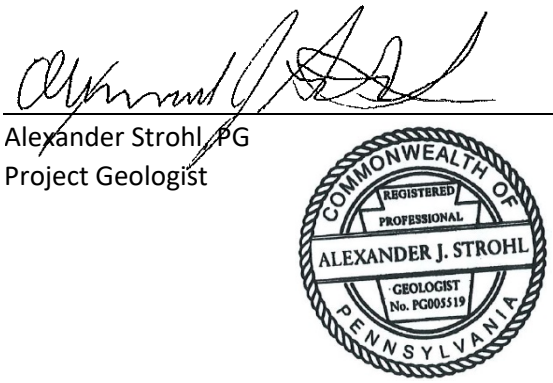
Pursuant to the requirements of the Pennsylvania Land Recycling and Environmental Remediation Standards Act (Act 2), adopted May 19, 1995, which states:

> *Interpretation of geologic and hydrogeologic data shall be prepared by a professional geologist licensed in this Commonwealth.*

I hereby attest that, as a Professional Geologist licensed in the Commonwealth of Pennsylvania, I am familiar with, and have reviewed and/or prepared the interpretation of the geology and hydrogeology presented in the attached report entitled:

> *Remedial Investigation and Final Report, Pipeline Release PB 881 Dike Roadway – Point Breeze South Yard, Former Philadelphia Energy Solutions Refinery Facility ID No. 51-33620 3144 West Passyunk Avenue, Philadelphia, Pennsylvania*, dated March 2024.

Based on the available data represented in the report, I believe that the geologic and hydrogeologic interpretations made herein are reasonable and accurate.



Alexander Strohl, PG
Project Geologist

March 1, 2024
Date

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Executive Summary

Terraphase Engineering Inc. (Terraphase) has prepared this Remedial Investigation and Final Report (RI/Final Report), on behalf of Philadelphia Energy Solutions Refining and Marketing LLC (PESRM), to detail the results of the environmental activities completed at the location of a release which occurred in November 2021 during the removal of overhead pipelines along an unpaved dike roadway just west of former aboveground storage tank (AST) PB 881 (the Site). The Site is located within the former Philadelphia Energy Solutions Refinery (the "Facility"), an approximately 1,300-acre property situated in a highly developed area of Philadelphia. The refinery ceased operations in 2019 and has since been undergoing demolition and closure activities.

A Notice of Intent to Remediate (NIR) for the Site was submitted to Pennsylvania Department of Environmental Protection (PADEP) on June 20, 2023 (eFacts 856437). The pipeline that caused the release was associated with ASTs that were formerly used to store crude oil and have been demolished. The release impacted three separate areas where soil remediation was conducted. The three separate release areas are approximately 640, 300, and 160 square feet (ft^2), respectively. NorthStar Contracting Group, Inc. (NorthStar) conducted a prompt interim response, including shallow soil excavations immediately following discovery of the release. As needed, additional excavations and sampling were performed in February 2022, May 2022, and November 2022.

Based on results of attainment soil sampling, the identified constituent concentrations in soil following excavation demonstrate attainment of the Statewide Health Standard (SHS). Terraphase concludes that all the requirements of the SHS have been met, and as such, PESRM qualifies for the cleanup liability protection for petroleum constituents associated with the pipeline release as detailed in Section 7 of this RI/Final Report.

1 Introduction

Terraphase has prepared this RI/Final Report, on behalf of PESRM, to detail the results of the environmental activities completed at the location of a release which occurred in November 2021 during the removal of overhead pipelines along an unpaved dike roadway just west of the Site. The Site is located within the Facility, an approximately 1,300-acre property situated in a highly developed area of Philadelphia. The refinery ceased operations in 2019 and has since been undergoing demolition and closure activities. The Site location is depicted on **Figure 1**. The environmental activities at the Site were performed in accordance with the applicable provisions of the *Land Recycling and Environmental Remediation Standard Act* (Act 2), Title 25 Pennsylvania Code (25 Pa. Code) Chapter 250 Section 204, administered by the PADEP, to obtain the associated release of environmental cleanup liability.

A NIR for the Site was submitted to PADEP on June 20, 2023 (eFacts 856437). A copy of the NIR was also submitted to the local municipality (City of Philadelphia) and a legal notification was published in the *Philadelphia Inquirer* with service to the area. The NIR indicates that soil at the Site will be remediated to the Site-Specific Standard (SSS). As such, the City of Philadelphia was notified of a 30-day public comment period. In response, the City requested a Public Involvement Plan (PIP). Terraphase did not receive any other comments from the general public. In addition, notification of this RI/Final Report submittal to PADEP was sent to the City of Philadelphia and a legal notification regarding this submittal was published in the *Philadelphia Inquirer* with service to the area. Copies of all notification documents are included in **Appendix A**. Although the NIR indicated that PESRM intended to remediate soil at the Site to attain the SSS, further evaluation subsequent to the submission of this NIR indicated that the attainment soil sample data set demonstrates attainment of the SHS.

The pipeline that caused the release was associated with ASTs that were formerly used to store crude oil. These ASTs have been demolished. The incident resulted in three separate impacted areas approximately 640, 300, and 160 ft^2, respectively. NorthStar conducted a prompt interim response, including shallow soil excavations immediately following discovery of the release.

This report was prepared in accordance with the PADEP (2021) *Land Recycling Program Technical Guidance Manual*. It provides a summary of the environmental investigation activities, soil remediation activities, and ecological evaluation conducted for the Site. Because the results demonstrate attainment of the SHS this submittal also includes a Final Report. The RI/Final Report is organized as follows:

- Section 2 details the site setting, including site topography, geology, and hydrogeology.
- Section 3 includes the selected standard and a summary of current and reasonably anticipated future land and groundwater use at and in the vicinity of the Site.
- Section 4 discusses the soil remediation (i.e., removal activities) and subsequent RI.
- Section 5 presents the Ecological Screening Evaluation.
- Section 6 details the public notifications completed for the Site.
- Section 7 summarizes the demonstration of attainment.
- Section 8 summarizes the conclusions of the RI/Final Report.
- Section 9 provides the references used in the preparation of this report.

2 Site Setting

This section presents the site setting and includes a description of the Site, the operational history, topography, geology, and hydrology of the Site and the surrounding area.

2.1 Site Description

The Facility, a former 1,300-acre refinery, is situated in a highly developed area of the City of Philadelphia, Philadelphia County, Pennsylvania (**Figure 1**). The Facility was developed with large tanks, buildings, pipelines, roads, and was formerly used as a petroleum refinery. The Site is the location of a release which occurred in November 2021 during the removal of overhead pipelines within the pipe rack located along an unpaved dike roadway just west of former AST PB 881 in the Point Breeze South Yard (39.91096, -75.19540). Remediation activities are being conducted at the Facility under Act 2 by both PESRM and Evergreen Resources Group, LLC (Evergreen)[1] in accordance with the 2012 Buyer-Seller Agreement and the 2020 First Amendment to that Agreement. The Site is also within the bounds of the Evergreen Area of Interest (AOI) 4. The nearest residential area is located approximately 0.25 miles east of the Site.

The Site is currently uncovered and without structures. Access to the Facility is controlled at the Facility perimeter. The Site can be accessed by authorized individuals at the Facility via an unpaved road connecting to Hartranft Street, approximately 550 ft to the north of the Site. There are no on-site surface water bodies, and the Schuylkill River is located approximately 0.5 miles to the west.

2.2 Operational History

The Facility operated as a petroleum refinery between 1860 and 2019. The refinery ceased operations in 2019 and since July 2020 has been undergoing demolition and closure activities. Multiple ASTs and associated pipelines were formerly present near the Site, and decommissioning of the ASTs and appurtenances began in May 2021. In the immediate vicinity of the Site, ASTs held primary products of crude oil and recovered oil. The pipeline involved in the release transported crude oil.

2.3 Topography

Topography at the Facility is generally flat, with the exception of tank containment dikes. Regional topography slopes gently to the west towards the Schuylkill River, the nearest surface water body, and

[1] Evergreen Resources Management Operations, a series of Evergreen Resources Group, LLC, is managing the legacy remedial work for Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC ("Evergreen") and Sunoco (R&M), LLC. For clarity, Sunoco, Inc. n/k/a ETC Sunoco Holdings LLC, Sunoco, Inc. (R&M) f/k/a Sunoco (R&M), LLC n/k/a Energy Transfer (R&M), LLC effective 4/19/2021 and Evergreen shall be referred to collectively as "Evergreen" in this Report.

to the south towards the Delaware River. The ground surface is approximately 15 ft above mean sea level[2].

2.4 Regional Geology and Hydrogeology

The Facility is located within the Atlantic Coastal Plain Physiographic Province of Pennsylvania. The Atlantic Coastal Plain is a physiographic province that is defined as having a flat topography, underlain by unconsolidated sediments that thicken to the southeast. The Coastal Plain deposits are sand, gravel, silt, and clay which drape over crystalline igneous and metamorphic rocks. In general, the resulting sediments are approximately 250 ft thick along the Delaware River. These sediments unconformably overlie much older, very complexly deformed rocks of the Piedmont physiographic province. The Coastal Plain deposits in the vicinity of the Facility consist of fill underlain by quaternary deposits.

Much of the Facility and surrounding area is underlain by fill material, which was placed for the purpose of reclaiming lowlands along the banks of the tidal Delaware and Schuylkill Rivers during industrialization. Below the fill material, sediments consist of gray, muddy deposits with occasional sand, gravel, and organic-rich lenses. These sediments were deposited in floodplain, channel, and marsh environments through the Holocene. The most recent deposits are poorly consolidated and below the water table, as a result of their relatively young geologic age and position along the Schuylkill River (tributaries and creeks). Below the Holocene deposits is Pleistocene glacial outwash, commonly referred to as the "Trenton Gravel" along the Delaware River valley. Cretaceous-age sand and clay units making up the Potomac-Raritan-Magothy aquifer system underly the Pleistocene deposits.

The sedimentary record near the Facility consists of a complex series of water-bearing sand units which can comprise one or more hydrostatic units. Previous investigations conducted at the Facility have identified two saturated zones, including an unconfined shallow groundwater unit (occurring within the Holocene and Trenton Gravel deposits) and a deep groundwater unit known as the Farrington Sand, which is part of the Potomac-Raritan-Magothy aquifer system. The deeper groundwater unit is separated by a clay unit; as such, the deeper groundwater has been classified as a semi-confined aquifer. Groundwater is first encountered generally at the Facility at a depth approximately 15 to 25 ft below ground surface (bgs).

2.5 Local Geology and Hydrogeology

Local geology is generally consistent with the regional geology described above. Investigations in the vicinity of the Site (in Tank Group 04) indicated the presence of fill up to 11 ft thick. Soil beneath the fill layer generally consists of brown to brownish red gravelly sand, clay, and silt. During investigation and excavation activities for the Site, soils observed from the surface to a depth of 4 ft bgs were reported to consist of sandy fill material with gravel and silt.

During previous investigations in the area, unconfined aquifer groundwater has been encountered at a depth of approximately 13 to 20 ft bgs.

[2] Philadelphia City Datum

Groundwater at the refinery has historically been interpreted to flow to the south toward the convergence of the Delaware and Schuylkill Rivers. Groundwater was not encountered during soil removal and RI activities.

3 Selection of Standards

This section discusses planned land and groundwater use at the Site. It also discusses the standard selected by PESRM for the Site and which Media Specific Concentrations (MSCs) have been identified as applicable based upon current and reasonably anticipated future land and groundwater use.

3.1 Land and Groundwater Use

Currently, the Facility (which includes the Site) is undergoing decommissioning, demolition, environmental investigation, and predevelopment activities. The land is zoned for Industrial Use[3]. The Site is currently uncovered and lightly vegetated. It is generally flat except for berms constructed around some of the former tank areas.

As noted in the parcel map included in **Appendix B** and as captured in the conceptual imagery developed by Hilco Redevelopment Partners (https://www.thebellwetherdistrict.com/), the area encompassing the Site is being redeveloped into a state-of-the-art, multimodal industrial park and innovation campus with ancillary rail infrastructure, energy infrastructure, marine capabilities, and commercial uses. Current and reasonably anticipated future land use in the area of the Site is commercial/industrial. Following redevelopment, much of the area is also expected to be covered by hardscape (e.g., building pads, drive aisles, parking lots, roadways) or other features that will function as barriers to direct contact exposure. Once redevelopment plans have been finalized, additional investigation and/or evaluation of potential vapor intrusion pathways will be conducted to further evaluate whether conditions could pose an unacceptable risk to future building occupants such that risk management action (e.g., remediation, vapor mitigation) is warranted.

Stemming from several efforts to assess the potential for current and reasonably anticipated future use of groundwater at and in the vicinity of the Facility, Evergreen has documented no confirmed drinking water supply wells within 1 mile of the Facility. These efforts have included several well searches, field verification, and a review of the City of Philadelphia's ordinances. In 2021, Evergreen supplemented these efforts by reviewing the City of Philadelphia's publicly available information concerning potable drinking water intakes, contacting PADEP's Safe Drinking Water Program, contacting the City of Philadelphia's Health Department, contacting the City of Philadelphia Water Department, contacting the City of Philadelphia Department of Parks and Recreation, conducting updated database searches (paGWIS and eMapPA), coordinating with the PADEP to obtain information from the New Jersey Department of Environmental Protection, and providing additional documentation concerning the institutional controls at the Site which prohibit groundwater use (Evergreen 2021). As a result,

[3] https://openmaps.phila.gov/.

groundwater on-facility and off-facility is not a current or reasonably anticipated future source of potable or nonpotable water.

3.2 Selected Standard

PESRM has selected the SHS[4] for the Site. Based upon current and reasonably anticipated future land and groundwater use at and in the vicinity of the Site, the following MSCs have been used to evaluate the results of soil sampling conducted at the Site. Concentrations in soil were compared against the:

- Non-residential (Non-Res) Direct Contact Numeric Values for Surface Soil (0-2 ft bgs)
- Non-Res Direct Contact Numeric Values for Subsurface Soil (2-15 ft bgs)
- Non-Res Soil-to-Groundwater (S-GW) Numeric Values for Used Aquifers [TDS ≤ 2,500]
- Non-Res Soil Vapor Intrusion Screening Level (VISL)[5]

4 Release, Soil Removal, and Remedial Investigation

The following sections describe the release which occurred at the Site, the soil removal activities, and the remedial investigation.

4.1 Release and Response

The release occurred on November 16, 2021 during decommissioning activities involving the removal of overhead pipelines adjacent to and west of AST PB 881. The pipeline that caused the release was associated with ASTs that were formerly used to store crude oil and was out of service for a decade or longer. The release resulted in three separate impacted areas approximately 640, 300, and 160 ft^2, respectively (**Appendix C**). In this RI/Final Report, these areas are referred to as Area 1, Area 2, and Area 3, respectively (**Figure 2**). Within these three areas, NorthStar documented that an estimated 500 gallons of water and oil was released in Area 1, 280 gallons in Area 2, and 350 gallons in Area 3 (**Appendix C**).

[4] The NIR indicated that PESRM intended to remediate soil at the Site in order to attain the SSS. Further evaluation subsequent to the submission of this NIR indicated that the attainment soil sample data set demonstrates attainment of the SHS.

[5] As noted in Section 3.1, potential future vapor intrusion exposure will be evaluated once redevelopment plans have been finalized. Because there is no current vapor intrusion exposure in the area, the pathway is incomplete and the results of the comparison of soil concentrations to VISLs does not impact attainment of the SHS. In accordance with Sections III.E.3, IV.A, and IV.H of the *Technical Guidance Manual* (2021), in attaining the SHS, PESRM will continue to maintain the SHS by establishing institutional controls and, as needed, engineering controls to ensure no unacceptable vapor intrusion exposure to occupants of future buildings on the property.

NorthStar notified PESRM of the release on November 16, 2021 and conducted a prompt interim response, including shallow soil excavations in each area. Surficial soil (between 1 and 2 ft bgs) was removed using an excavator and screened for signs of impact. Impacted soil was identified using a photoionization detector (PID), olfactory evidence, and visual staining as indicators. Organic stabilization agent (i.e., saw dust) was placed over the excavated surfaces. Excavated soil was stockpiled on the roadway on heavy liner and covered with reinforced polyethylene sheeting. Waste characterization samples were taken from the stockpile before disposal. Approximately 95 tons (approximately 63 cubic yards [yds^3]) of soil were excavated and transported off-site for disposal at the Pure Soil Technologies facility in Jackson, New Jersey. Confirmation samples in each area were collected as described in Sections 4.2 and 4.3. Documentation NorthStar provided during the notification, including the estimated dimensions of impact and photos of the excavations, are included in **Appendix C**. Disposal documentation is provided in **Appendix D**. Field notes detailing the interim soil removal and subsequent sampling are provided in **Appendix E**.

4.2 Sampling Procedure

Location of each area impacted by the release event (NorthStar)

Sections 4.3.1, 4.3.2, and 4.3.3, describe the sampling performed in Areas 1, 2, and 3, respectively in order to demonstrate attainment of the SHS. Pursuant to 25 Pa. Code Sections 250.703(d) and 250.707(b)(1)(i), attainment sampling was performed within the excavation areas. Sampling locations were selected using PADEP's Systematic Random Sampling Workbook, an Excel spreadsheet developed by PADEP to determine random sampling points within an area or volume subject to attainment evaluation. Grab soil samples were taken from the top half foot of soil from each designated location.

The samples were submitted for the following list of constituents: benzene, cumene, ethyl benzene, toluene, 1,2,4-trimethylbenze (1,2,4-TMB), 1,3,5-trimethylbenzene (1,3,5-TMB), xylenes (total),

anthracene, benzo(a)anthracene (BaA), benzo(a)pyrene (BaP), benzo(b)fluoranthene (BbF), benzo(g,h,i)perylene (BghiP), chrysene, fluorene, naphthalene, phenanthrene, and pyrene. These constituents are consistent with PADEP's Short Lists of Petroleum Products inventory (Table III-5 of the *Land Recycling Program Technical Guidance Manual* [PADEP 2021]) excluding 1,2-dibromoethane, 1,2-dichloroethane, methyl tert-butyl ether, and lead. These four constituents were excluded from analysis as they would not be present in a release involving crude oil or water in contact with crude oil (PADEP 2014, ITRC 2018).

Soil samples submitted for analysis were placed directly into laboratory provided glassware and stored on ice in a cooler under appropriate chain of custody protocol. Soil samples collected were analyzed for volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) by methods United States Environmental Protection Agency 8260B and 8270C, respectively. Laboratory analytical services were provided by Alpha Analytical, Inc. of Westborough, Massachusetts and Eurofins of Edison, New Jersey, both of which are PADEP-certified laboratories. Copies of the laboratory data deliverables are included as **Appendix F**.

4.3 Soil Removal and Remedial Investigation

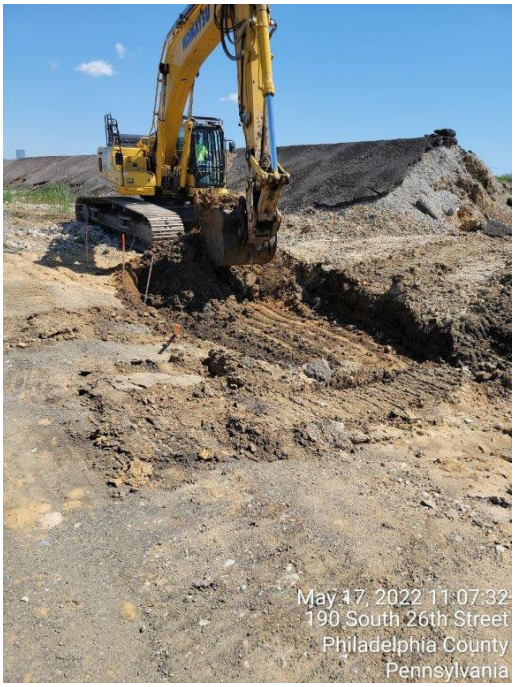
4.3.1 Area 1

In the release area designated as Area 1 (**Figure 3a**), surficial soil (between 1 and 2 ft bgs) was removed during the initial soil excavation conducted by NorthStar on November 16, 2021. As discussed in Section 4.1, the area over which soil was removed was guided by PID screening, olfactory evidence, and visual observations of the extent of staining. As shown on **Figure 3a**, using PADEP's Systematic Random Sampling tool, eight post-excavation sampling locations were determined and sampled on November 19, 2021. The post-excavation soil samples were collected from the base of the excavation. The results of the soil sampling did not identify any constituents in soil at concentrations greater than the applicable MSCs (**Figure 3b**). The SHS have been attained in this area.

Analytical results from the soil sampling performed are provided in **Table 1**. Laboratory results are provided in **Appendix F.** Outputs of PADEP's Systematic Random Sampling Workbook are included in **Appendix G**.

4.3.2 Area 2

In the release area designated as Area 2 (**Figure 4a**), surficial soil (between 1 and 2 ft bgs) was removed during the initial soil excavation activities conducted by NorthStar on November 16, 2021. As discussed in Section 4.1, the area over which soil was removed was guided by PID screening, olfactory evidence, and visual observations of the extent of staining. As shown on **Figure 4a**, using PADEP's Systematic Random Sampling tool, eight post-excavation sampling locations were determined and sampled on November 19, 2021. The post-excavation soil samples were collected from the base of the excavation. The results of the soil sampling indicated three locations (i.e., DRA2-SB03, DRA2-SB04, and DRA2-SB07) with concentrations of benzene greater than the Non-Res S-GW MSCs (**Figure 4b**). In accordance with 25 Pa. Code Section 250.707(b)(1)(i), Terraphase evaluated whether the benzene soil sampling results attain SHS using the 75 percent (%)/10x rule. The rule requires that 75% of all samples collected for attainment purposes must be equal to or less than the standard and no individual sample can exhibit a concentration more than ten times the standard. While none of the samples exhibited benzene at a concentration greater than ten times the Non-Res S-GW MSC of 0.5 milligrams per kilogram (mg/kg), only five out of the eight samples (63%) were equal to or less than this MSC.



May 2022 Excavation, Area 2 (NorthStar)

These results indicated that the initial excavation in Area 2 did not result in conditions which attain the SHS. Because the exceedances of SHS occurred in a localized area, additional characterization and remediation were conducted in accordance with 25 Pa. Code Section 250.703(c). Soil sampling was conducted on February 11, 2022, to help define the extent of benzene in soil (horizontally and vertically) at concentrations greater than the Non-Res S-GW MSC in the area (**Figure 4c**). Based on the results of this additional soil sampling, an additional excavation was performed in the area. This effort involved the removal of an additional 1.5 ft of soil to a depth up to approximately 2.5 to 3.5 ft. As shown on **Figure 4d**, using PADEP's Systematic Random Sampling tool, eight post-excavation sampling

May 2022 Excavation, Area 2 (NorthStar)

locations were determined and sampled on May 17, 2022. The post-excavation soil samples were collected from the base or sidewalls of the excavation. The results of this soil sampling indicated three locations (i.e., DRA2-SB17, DRA2-SB19, and DRA2-SB20) with concentrations of benzene greater than the Non-Res S-GW MSC (**Figure 4e**). An evaluation of the soil sampling results using the 75%/10x rule indicated that the remaining soil concentrations did not attain the SHS. Only five out of the eight samples (63%) were equal to or less than the Non-Res S-GW MSC and one of the samples exceeded ten times the Non-Res S-GW MSC.

November 2022 Excavation, Area 2 (Ransom)

Based on the results of the May 2022 attainment sampling and in accordance with 25 Pa. Code Section 250.703(c), a third excavation was performed in November 2022. PID readings were taken at one-foot intervals. The bottoms of the excavation were determined when PID readings reached background. As shown in **Figure 4g**, in the northern section of the excavation the excavation was completed to a depth of 4 feet below the original surrounding ground surface once field screening resulted in PID readings at or near background concentrations. Based on field screening results, the center section was excavated to 8 ft below the original surrounding ground surface. The southern section was excavated to a depth of 7 ft below the original surrounding ground surface. As shown on **Figure 4f**, using PADEP's Systematic Random Sampling tool, eight post-excavation sampling locations were determined and sampled on November 8, 2022. The post-excavation soil samples were collected from the base or sidewalls of the excavation. The results of this soil sampling indicated two locations (i.e., DRA2-SB27 and DRA2-SB29) with concentrations of benzene greater than the Non-Res S-GW MSC (**Figure 4g**). Using the 75%/10x rule, the results attain the SHS for the area. Six out of the eight samples (75%) were equal to or less than the Non-Res S-GW MSC and none of the samples exceeded ten times the Non-Res S-GW MSC of 0.5 mg/kg for benzene. The second and third excavations resulted in the removal of an additional 128 tons (approximately 85 yds^3) of soil, which was transported off-site for disposal at the Pure Soil Technologies facility in Jackson, New Jersey.

Pursuant to 25 Pa. Code Sections 250.707(b)(1)(i) and 250.703(c), additional excavation and random grid sampling were conducted following each of the two unsuccessful 75%/10x rule attainment demonstration attempts. As specified in 25 Pa. Code Section 250.703(c) additional excavation was performed to remove a localized area of contamination following each unsuccessful 75%/10x rule attainment demonstration attempt, and each excavation removed the areas containing exceedances in the prior attainment demonstration attempt. As specified in 25 Pa. Code Section 250.707(b)(1)(i), eight

post-excavation samples were collected during a single event following each excavation. The third and final excavation and post-excavation sampling event were successful in demonstrating attainment of the SHS in Area 2.

Analytical results from the soil sampling performed are provided in **Tables 2a through 2d**. Disposal documentation is provided in **Appendix D**. Laboratory results are provided in **Appendix F.** Outputs of PADEP's Systematic Random Sampling Workbook are included in **Appendix G**. Calculations of the 75%/10x rule are provided in **Appendix H**.

4.3.3 Area 3

In the release area designated as Area 3 (**Figure 5a**), surficial soil (between 1 and 2 ft bgs) was removed during the soil excavation conducted by NorthStar on November 16, 2021. As shown on **Figure 5a**, using PADEP's Systematic Random Sampling tool, eight post-excavation sampling locations were determined and sampled on November 19, 2021. The post-excavation soil samples were collected from the base of the excavation. The results of the soil sampling did not identify any constituents in soil at concentrations greater than the applicable MSCs (**Figure 5b**)**.** The SHS have been attained in this area.

Analytical results from the soil sampling performed are provided in **Table 3**. Laboratory results are provided in **Appendix F.** Outputs of PADEP's Systematic Random Sampling Workbook are included in **Appendix G**.

4.4 Analytical Limits Evaluation

For non-detect constituents of potential concern (COPC), practical quantitation limits (PQL) were evaluated against the SHS MSC and VISL. The maximum PQL for one COPC, benzene, was above the VISL, as summarized below.

Chemical	**Max Analytical Limit** (mg/kg)	**Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSC** (mg/kg)	**Non-Res Soil Vapor Intrusion Screening Level** (mg/kg)
Benzene	0.4	< MSC	0.13

As shown in the table, the maximum reported analytical limit for benzene is 0.4 mg/kg, which exceeds the Non-Res VISL of 0.13 mg/kg. Although benzene exceeds the VISL, there is no current vapor intrusion exposure in the area and the results of the comparison of soil concentrations to VISLs does not impact attainment of the SHS. As noted in Section 3.1, potential future vapor intrusion exposure will be evaluated once redevelopment plans have been finalized. Because there is no current vapor intrusion exposure in the area, the pathway is incomplete and the results of the comparison of soil concentrations to VISLs does not impact attainment of the SHS. In accordance with Sections III.E.3, IV.A, and IV.H of the *Technical Guidance Manual* (2021), in attaining the SHS, PESRM will continue to maintain the SHS by

establishing institutional controls and, as needed, engineering controls to ensure no unacceptable vapor intrusion exposure to occupants of future buildings on the property.

5 Ecological Screening Evaluation

The following describes the ecological screening evaluation that was performed for the Site. This evaluation was conducted in accordance with Section II.B.5 of the *Land Recycling Program Technical Guidance Manual* (PADEP 2021). The regulatory framework for conducting an ecological screening evaluation under the SHS is outlined in Section II.B.2(e) and summarized in the Ecological Screening Flow Chart provided in Figure II-16 of the *Land Recycling Program Technical Guidance Manual* (PADEP 2021). The key elements of the screening procedure are comprised of nine steps.

The initial screening phase of the process consists of Steps 1 and 2, as follows:

- Step 1: Presence of Light Petroleum Product Constituents; and
- Step 2: Site Size.

As indicated on Figure II-16 of the *Land Recycling Program Technical Guidance Manual* (PADEP 2021), after completion of the initial screen (Steps 1 and 2), the remediator may be able to determine that no further ecological screening is required.

Step 1: Presence of Light Petroleum Product Constituents

The first step in the ecological screening process is to determine whether the constituents present in on-site surface soil (soil at a depth of up to 2 ft) or sediment are related only to light petroleum products (i.e., gasoline, jet fuel A, kerosene, #2 fuel oil/diesel fuel), which have relatively low polycyclic aromatic hydrocarbon content (American Society for Testing and Material [ASTM] International E1739-95[6]). If light petroleum product constituents (including benzene, toluene, ethyl benzene, and xylene) are the only constituents detected on-site, then the screening process moves to Step 9 (Final Report: No Further Ecological Evaluation Required). Although light petroleum product constituents are present in the post-excavation soil samples, sampling results also indicate the presence of other constituents. The screening process continues to Step 2 (Site Size).

Step 2: Site Size

The second step in the ecological screening process is determining the area of exposed and contaminated surface soil (soil at a depth of up to 2 ft) and sediment that are of potential ecological concern. The minimum areas are: 2 acres of exposed and contaminated surface soil or 1,000 ft^2 of contaminated sediment. If the area of the site is smaller than the specified minimum areas, then the screening process moves to Step 9 (Final Report: No Further Ecological Evaluation Required).

[6] ASTM International, Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites, 2015.

Because no sediment is present at the Site and the area of the impact encompassed (0.035 acres) is less than the minimum 2 acres, no further ecological evaluation is required.

6 Public Notifications

Terraphase submitted a NIR to PADEP on June 20, 2023 (eFACTS No. 856437). A copy of the NIR and notification of this Final Report submittal to PADEP were sent to the local municipality (City of Philadelphia) and a legal notification was published in *The Philadelphia Inquirer* with service to the area. The NIR indicated that PESRM intended to remediate soil at the Site in order to attain the SSS. Copies of the notification documents are included in **Appendix A**. Further evaluation subsequent to the submission of this NIR indicated that the attainment soil sample data set demonstrates attainment of the SHS.

Act 2 affords the municipality of any site being remediated to the SSS the opportunity to request a PIP. In accordance with the applicable provisions of Pa Code 35 P.S. § 6026.304(o), the City of Philadelphia requested public involvement for the Site. While PESRM is now demonstrating attainment of the SHS, PESRM has provided copies of this RI/Final Report in advance of submission to the PADEP. Additionally, in accordance with the PIP, PESRM submitted a written public notice to the Department of Public Health to inform the community 30-days in advance of the public information session, provided public access to the RI/Final Report at two local libraries closest to the Facility, accepted comments for a 30-day period, and held a public information session on February 12, 2024 with the City and public to discuss the results of this RI/Final Report. A copy of the PIP, the outcome of the public information session, and associated documentation are included in **Appendix I**.

7 Demonstration of Attainment

This section provides a summary of the constituents detected in soil at the Site based on the characterization activities and how the efforts to remediate soil have resulted in conditions which attain the SHS. As discussed in Section 4, attainment sampling conducted subsequent to soil removal activities has resulted in the attainment of SHS for each of the constituents for which soil was analyzed. PESRM has demonstrated attainment of the SHS for the following constituents:

Volatile Organic Compounds	Semi-Volatile Organic Compounds
• Benzene	• Anthracene
• Cumene	• BaA
• Ethyl Benzene	• BaP
• 1,2,4-TMB	• BbF
• 1,3,5-TMB	• BghiP

Volatile Organic Compounds	Semi-Volatile Organic Compounds
• Toluene • Xylenes (total)	• Chrysene • Fluorene • Naphthalene • Phenanthrene • Pyrene

Area 1

The post-excavation soil samples were collected from the base of the excavation. The results of the soil sampling did not identify any constituents in soil at concentrations greater than the applicable MSCs. As such, these data demonstrate attainment of the SHS in Area 1.

Area 2

The initial post-excavation soil samples were collected from the base of the excavation. The results of the soil sampling identified benzene in soil at concentrations greater than the applicable MSCs. No other constituents were identified at concentrations greater than the applicable MSCs.

As specified in 25 Pa. Code Section 250.703(c) additional excavation was performed to remove a localized area of benzene contamination following each unsuccessful 75%/10x rule attainment demonstration attempt, and each excavation removed the areas containing exceedances in the prior attainment demonstration attempt. As specified in 25 Pa. Code Section 250.707(b)(1)(i), eight post-excavation samples were collected during a single event following each excavation. The third and final excavation and post-excavation sampling event were successful in demonstrating attainment of the SHS for benzene via the 75%/10x rule in Area 2. No other constituents were identified at concentrations greater than the applicable MSCs during any of the Area 2 soil sampling. As such, these data demonstrate attainment of the SHS for the other constituents in Area 2.

Area 3

The post-excavation soil samples were collected from the base of the excavation. The results of the soil sampling did not identify any constituents in soil at concentrations greater than the applicable MSCs. As such, these data demonstrate attainment of the SHS in Area 3.

8 Post-Remediation Care Plan

In accordance with Sections III.E.3, IV.A, and IV.H of the *Land Recycling Program Technical Guidance Manual* (PADEP 2021), institutional and, as needed, engineering controls will be implemented as part of a post-remediation care plan to maintain attainment of the SHS, in the event that occupied buildings are planned in proximity to the Site.

The 2020 First Amendment to the 2012 Buyer-Seller Agreement, requires PESRM to install vapor barriers or other vapor mitigation controls as part of constructing any buildings or structures at the Site, or, alternatively, to conduct sampling and analysis to demonstrate that such controls are not needed to mitigate potential vapor intrusion into such buildings or structures in accordance with PADEP guidance.

9 Summary and Conclusions

Terraphase has prepared this RI/Final Report, on behalf of PESRM, to detail the soil removal and RI undertaken at the Site. The activities described in this RI/Final Report were performed in accordance with the applicable provisions of 25 Pa. Code Section 250.

Following the initial release along the unpaved dike roadway near tank PB 881 a prompt interim response, including shallow surface soil excavations, was completed. Additional excavation and sampling were performed in January and February 2022, May 2022, and November 2022. Based on results of attainment soil sampling, the identified constituent concentrations in soil following excavation demonstrate attainment of the SHS. Terraphase concludes that all the requirements of the SHS have been met, and as such, PESRM qualifies for the cleanup liability protection for petroleum constituents associated with the pipeline release.

10 References

Evergreen. 2021. Letter to Ms. Lisa Strobridge. *RE: PADEP Comments – Public Involvement Remedial Investigation Report*. eFACTS PF No. 780190. August 28.

Interstate Technology & Regulatory Council (ITRC). 2018. *TPH Risk Evaluation at Petroleum-Contaminated Sites. Chapter 4 TPH Fundamentals*.

Pennsylvania Department of Environmental Protection (PADEP). 2014. *RE: Program Clarification, Common Constituents for Oil and Gas Related Spills and Releases*. October 3.

_ _ _. 2021. *Land Recycling Program Technical Guidance Manual*. March 27.

Tables

Table 1
Post Excavation Soil Analytical Results - Area 1
Philadelphia Energy Solutions Refining and Marketing LLC, Philadelphia, PA

Location Field Sample ID Collection Depth Sample Method Sample Date Comments	Non-Residential Direct Contact Surface Soil (0-2 ft) MSCs	Non-Residential Direct Contact Subsurface Soil (2-15 ft) MSCs	Non-Residential Used Aquifer (TDS ≤ 2500) Soil-to-Groundwater MSCs	Non-Residential Vapor Intrusion Screening Values	DRA1-SB01 DRA1-SB01 Base of Excavation Grab - Attainment 11/19/2021	DRA1-SB02 DRA1-SB02 Base of Excavation Grab - Attainment 11/19/2021	DRA1-SB03 DRA1-SB03 Base of Excavation Grab - Attainment 11/19/2021	DRA1-SB04 DRA1-SB04 Base of Excavation Grab - Attainment 11/19/2021	DRA1-SB05 DRA1-SB05 Base of Excavation Grab - Attainment 11/19/2021	DRA1-SB06 DRA1-SB06 Base of Excavation Grab - Attainment 11/19/2021	DRA1-SB07 DRA1-SB07 Base of Excavation Grab - Attainment 11/19/2021	DRA1-SB08 DRA1-SB08 Base of Excavation Grab - Attainment 11/19/2021
Volatile Organic Compounds												
Benzene	280	330	0.5	0.13	0.053 J (0.27)	ND (0.3)	ND (0.27)	ND (0.4)	ND (0.28)	ND (0.31)	ND (0.28)	ND (0.25)
Cumene	10000	10000	2500	2500	0.28 (0.27)	0.36 (0.3)	0.067 J (0.27)	0.035 J (0.4)	0.29 (0.28)	1.7 (0.31)	0.89 (0.28)	0.13 J (0.25)
Ethyl Benzene	880	1000	70	46	0.085 J (0.27)	0.029 J (0.3)	0.024 J (0.27)	ND (0.4)	ND (0.28)	0.03 J (0.31)	ND (0.28)	ND (0.25)
Toluene	10000	10000	100	44	0.14 J (0.27)	ND (0.3)	ND (0.27)	ND (0.4)	ND (0.28)	ND (0.31)	ND (0.28)	ND (0.25)
1,2,4-Trimethylbenzene	4700	5400	300	35	0.76 (0.27)	0.26 J (0.3)	0.19 J (0.27)	ND (0.4)	ND (0.28)	0.13 J (0.31)	ND (0.28)	ND (0.25)
1,3,5-Trimethylbenzene	4700	5400	93	210	0.36 (0.27)	0.086 J (0.3)	0.067 J (0.27)	ND (0.4)	ND (0.28)	0.049 J (0.31)	ND (0.28)	ND (0.25)
Xylenes (total)	7900	9100	1000	990	0.8 (0.54)	0.23 J (0.61)	0.2 J (0.55)	ND (0.8)	ND (0.57)	0.13 J (0.61)	ND (0.55)	ND (0.51)
Semivolatile Organic Compounds												
Anthracene	190000	190000	350	--	ND (0.2)	ND (0.41)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.21)	ND (0.2)	ND (0.19)
Benzo(a)anthracene	130	190000	340	--	ND (0.2)	0.49 (0.41)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.21)	ND (0.2)	ND (0.19)
Benzo(a)pyrene	91	190000	46	--	ND (0.2)	ND (0.41)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.21)	ND (0.2)	ND (0.19)
Benzo(b)fluoranthene	76	190000	170	--	0.064 J (0.2)	0.57 (0.41)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.21)	ND (0.2)	ND (0.19)
Benzo(g,h,i)perylene	190000	190000	180	--	ND (0.2)	0.38 J (0.41)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.21)	ND (0.2)	ND (0.19)
Chrysene	760	190000	230	--	ND (0.2)	1.3 (0.41)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.21)	ND (0.2)	ND (0.19)
Fluorene	130000	190000	3800	--	0.23 (0.2)	2 (0.41)	ND (0.2)	0.1 J (0.2)	0.34 (0.2)	0.26 (0.21)	0.64 (0.2)	0.39 (0.19)
Naphthalene	66	77	25	25	ND^c (0.27)	ND^c (0.3)	ND^c (0.27)	ND^c (0.4)	ND^c (0.28)	ND^c (0.31)	ND^c (0.28)	ND^c (0.25)
Phenanthrene	190000	190000	10000	--	0.5 (0.2)	2.9 (0.41)	0.1 J (0.2)	0.33 (0.2)	0.59 (0.2)	0.55 (0.21)	1.3 (0.2)	0.79 (0.19)
Pyrene	96000	190000	2200	--	ND (0.2)	1 (0.41)	ND (0.2)	0.11 J (0.2)	ND (0.2)	ND (0.21)	0.16 J (0.2)	ND (0.19)

Notes:
1 All concentrations reported in mg/kg (ppm); detection limits in parentheses.
2 No concentrations exceed the Non-Residential Direct Contact Surface Soil (0-2 ft) MSCs.
3 No concentrations exceed the Non-Residential Direct Contact Subsurface Soil (2-15 ft) MSCs.
4 No concentrations exceed the Non-Residential Used Aquifer (TDS ≤ 2500) Soil-to-Groundwater MSCs.
5 No concentrations exceed the Non-Residential Vapor Intrusion Screening Values.

Abbreviations:
ND - Not Detected
J - Estimated Concentration
^c -- Continuing calibration verification (CCV) Recovery is outside acceptance limits.

Table 2a
Initial Soil Analytical Results - Area 2
Philadelphia Energy Solutions Refining and Marketing LLC, Philadelphia, PA

Location Field Sample ID Collection Depth Sample Method Sample Date Comments	Non-Residential Direct Contact Surface Soil (0-2 ft) MSCs	Non-Residential Direct Contact Subsurface Soil (2-15 ft) MSCs	Non-Residential Used Aquifer (TDS ≤ 2500) Soil-to-Groundwater MSCs	Non-Residential Vapor Intrusion Screening Values	DRA2-SB01 DRA2-SB01 Base of Excavation Grab - Attainment 11/19/2021	DRA2-SB02 DRA2-SB02 Base of Excavation Grab - Attainment 11/19/2021	DRA2-SB03 DRA2-SB03 Base of Excavation Grab - Attainment 11/19/2021 Excavated May 2022	DRA2-SB04 DRA2-SB04 Base of Excavation Grab - Attainment 11/19/2021 Excavated May 2022	DRA2-SB05 DRA2-SB05 Base of Excavation Grab - Attainment 11/19/2021 Excavated May 2022	DRA2-SB06 DRA2-SB06 Base of Excavation Grab - Attainment 11/19/2021	DRA2-SB07 DRA2-SB07 Base of Excavation Grab - Attainment 11/19/2021 Excavated May 2022	DRA2-SB08 DRA2-SB08 Base of Excavation Grab - Attainment 11/19/2021
Volatile Organic Compounds												
Benzene	280	330	0.5	0.13	**0.17 J (0.26)**	ND (0.24)	**<u>3.8 (0.3)</u>**	**<u>4.1 (0.26)</u>**	**0.33 (0.26)**	ND (0.26)	**<u>3.1 (0.33)</u>**	**0.33 (0.26)**
Cumene	10000	10000	2500	2500	1.7 (0.26)	ND (0.24)	6.6 (0.3)	7.7 (0.26)	0.5 (0.26)	ND (0.26)	22 (3.3)	2.5 (0.26)
Ethyl Benzene	880	1000	70	46	1 (0.26)	ND (0.24)	3.3 (0.3)	4.6 (0.26)	0.28 (0.26)	ND (0.26)	17 (0.33)	1.8 (0.26)
Toluene	10000	10000	100	44	1.8 (0.26)	ND (0.24)	9.5 (0.3)	6.8 (0.26)	ND (0.26)	ND (0.26)	43 (3.3)	3.4 (0.26)
1,2,4-Trimethylbenzene	4700	5400	300	35	6.5 (0.26)	ND (0.24)	15 (0.3)	26 (2.6)	1.6 (0.26)	ND (0.26)	**110 (3.3)**	11 (0.26)
1,3,5-Trimethylbenzene	4700	5400	93	210	2.4 (0.26)	ND (0.24)	6.7 (0.3)	10 (0.26)	0.19 J (0.26)	ND (0.26)	42 (3.3)	3.9 (0.26)
Xylenes (total)	7900	9100	1000	990	8.9 (0.53)	ND (0.48)	25 (0.6)	38 (0.52)	1.4 (0.51)	ND (0.52)	170 (6.5)	17 (0.52)
Semivolatile Organic Compounds												
Anthracene	190000	190000	350	--	ND (0.19)	ND (0.19)	ND (0.21)	ND (0.2)	0.056 (0.019)	ND (0.019)	ND (0.41)	ND (0.19)
Benzo(a)anthracene	130	190000	340	--	ND (0.19)	ND (0.19)	ND (0.21)	ND (0.2)	ND (0.019)	0.045 (0.019)	ND (0.41)	ND (0.19)
Benzo(a)pyrene	91	190000	46	--	ND (0.19)	ND (0.19)	ND (0.21)	ND (0.2)	0.025 (0.019)	0.045 (0.019)	ND (0.41)	ND (0.19)
Benzo(b)fluoranthene	76	190000	170	--	ND (0.19)	ND (0.19)	ND (0.21)	ND (0.2)	0.025 (0.019)	0.063 (0.019)	ND (0.41)	0.14 J (0.19)
Benzo(g,h,i)perylene	190000	190000	180	--	ND (0.19)	ND (0.19)	ND (0.21)	ND (0.2)	0.02 (0.019)	0.031 (0.019)	0.17 J (0.41)	ND (0.19)
Chrysene	760	190000	230	--	ND (0.19)	ND (0.19)	0.41 (0.21)	0.3 (0.2)	0.075 (0.019)	0.068 (0.019)	0.88 (0.41)	0.47 (0.19)
Fluorene	130000	190000	3800	--	0.32 (0.19)	0.079 J (0.19)	0.72 (0.21)	0.88 (0.2)	0.2 (0.019)	0.043 (0.019)	2.7 (0.41)	ND (0.19)
Naphthalene	66	77	25	25	0.88 ^c (0.26)	0.11 J^c (0.24)	2.5 ^c (0.3)	3.9 ^c (0.26)	0.58 ^c (0.26)	ND^c (0.26)	6.9 ^c (0.33)	3 ^c (0.26)
Phenanthrene	190000	190000	10000	--	0.7 (0.19)	0.32 (0.19)	1.7 (0.21)	1.8 (0.2)	0.49 (0.019)	0.12 (0.019)	5.8 (0.41)	0.29 (0.19)
Pyrene	96000	190000	2200	--	0.11 J (0.19)	0.079 J (0.19)	ND (0.21)	0.24 (0.2)	0.094 (0.019)	0.076 (0.019)	0.85 (0.41)	0.32 (0.19)

Notes:
1 All concentrations reported in mg/kg (ppm); detection limits in parentheses.
2 No concentrations exceed the Non-Residential Direct Contact Surface Soil (0-2 ft) MSCs.
3 No concentrations exceed the Non-Residential Direct Contact Subsurface Soil (2-15 ft) MSCs.
4 Gray-shading indicates that the soils were excavated after the samples were collected.
5 Underlined concentrations exceed the Non-Residential Used Aquifer (TDS ≤ 2500) Soil-to-Groundwater MSCs.
6 Boldfaced concentrations exceed the Non-Residential Vapor Intrusion Screening Values.

Abbreviations:
ND - Not Detected
NA - Not Analyzed
J - Estimated Concentration
^c -- Continuing calibration verification (CCV) Recovery is outside acceptance limits.

Table 2b
Site Characterization Soil Analytical Results - Area 2
Philadelphia Energy Solutions Refining and Marketing LLC, Philadelphia, PA

Location					DRA2-SB03R	DRA2-SB03R	DRA2-SB04R	DRA2-SB04R	DRA2-SB07R	DRA2-SB07R	DRA2-SB09
Field Sample ID	Non-Residential Direct Contact Surface Soil (0-2 ft) MSCs	Non-Residential Direct Contact Subsurface Soil (2-15 ft) MSCs	Non-Residential Used Aquifer (TDS ≤ 2500) Soil-to-Groundwater MSCs	Non-Residential Vapor Intrusion Screening Values	DRA2-SB03R	DRA2-SB03R	DRA2-SB04R	DRA2-SB04R-2.5-3.0	DRA2-SB07R-0.5-1.0	DRA2-SB07R-2.0-2.5	DRA2-SB09-0.5-1.0
Collection Depth (feet)					0.5 - 1.0 Below Base of Excavation	2.0 - 2.5 Below Base of Excavation	1.5 - 2.0 Below Base of Excavation	2.5 - 3.0 Below Base of Excavation	0.5 - 1.0 Below Base of Excavation	2.0 - 2.5 Below Base of Excavation	0.5 - 1.0 Below Original Ground Surface
Sample Method					Grab - Boring	Grab - Boring	Grab - Boring	Grab - Boring	Grab - Boring	Grab - Boring	Grab - Boring
Sample Date					2/11/2022	2/11/2022	2/11/2022	2/11/2022	2/11/2022	2/11/2022	2/11/2022
Comments					Excavated Nov. 2022				Excavated Nov. 2022	Excavated Nov. 2022	
Volatile Organic Compounds											
Benzene	280	330	0.5	0.13	0.00019 J (0.0005)	ND (0.00054)	ND (0.00044)	ND (0.00054)	0.00078 (0.00053)	ND (0.0005)	ND (0.00044)
Cumene	10000	10000	2500	2500	ND (0.001)	ND (0.0011)	ND (0.00089)	ND (0.0011)	ND (0.001)	ND (0.001)	ND (0.00088)
Ethyl Benzene	880	1000	70	46	ND (0.001)	ND (0.0011)	ND (0.00089)	ND (0.0011)	ND (0.001)	ND (0.001)	ND (0.00088)
Toluene	10000	10000	100	44	ND (0.001)	ND (0.0011)	ND (0.00089)	ND (0.0011)	ND (0.001)	ND (0.001)	ND (0.00088)
1,2,4-Trimethylbenzene	4700	5400	300	35	ND (0.002)	ND (0.0021)	ND (0.0018)	ND (0.0021)	ND (0.0021)	ND (0.002)	ND (0.0018)
1,3,5-Trimethylbenzene	4700	5400	93	210	ND (0.002)	ND (0.0021)	ND (0.0018)	ND (0.0021)	ND (0.0021)	ND (0.002)	ND (0.0018)
Xylenes (total)	7900	9100	1000	990	ND (0.001)	ND (0.0011)	ND (0.00089)	ND (0.0011)	ND (0.001)	ND (0.001)	ND (0.00088)

Notes:
1 All concentrations reported in mg/kg (ppm); detection limits in parentheses.
2 No concentrations exceed the Non-Residential Direct Contact Surface Soil (0-2 ft) MSCs.
3 No concentrations exceed the Non-Residential Direct Contact Subsurface Soil (2-15 ft) MSCs.
4 Gray-shading indicates that the soils were excavated after the samples were collected.
5 Underlined concentrations exceed the Non-Residential Used Aquifer (TDS ≤ 2500) Soil-to-Groundwater MSCs.
6 Boldfaced concentrations exceed the Non-Residential Vapor Intrusion Screening Values.

Abbreviations:
ND - Not Detected
NA - Not Analyzed
J - Estimated Concentration

Table 2b
Site Characterization Soil Analytical Results - Area 2
Philadelphia Energy Solutions Refining and Marketing LLC, Philadelphia, PA

Location					DRA2-SB10	DRA2-SB11	DRA2-SB12	DRA2-SB13	DRA2-SB14
Field Sample ID	Non-Residential Direct Contact Surface Soil (0-2 ft) MSCs	Non-Residential Direct Contact Subsurface Soil (2-15 ft) MSCs	Non-Residential Used Aquifer (TDS ≤ 2500) Soil-to-Groundwater MSCs	Non-Residential Vapor Intrusion Screening Values	DRA2-SB10-0.5-1.0	DRA2-SB11-1.0-1.5	DRA2-SB12-0.5-1.0	DRA2-SB13-1.0-1.5	DRA2-SB14-0.5-1.0
Collection Depth (feet)					0.5 - 1.0 Below Original Ground Surface	1.0 - 1.5 Below Original Ground Surface	0.5 - 1.0 Below Original Ground Surface	1.0 - 1.5 Below Original Ground Surface	0.5 - 1.0 Below Original Ground Surface
Sample Method					Grab - Boring	Grab - Boring	Grab - Boring	Grab - Boring	Grab - Boring
Sample Date					2/11/2022	2/11/2022	2/11/2022	2/11/2022	2/11/2022
Comments					Excavated Nov. 2022				
Volatile Organic Compounds									
Benzene	280	330	0.5	0.13	**0.14 (0.031)**	ND (0.00076)	ND (0.00048)	ND (0.00048)	ND (0.00049)
Cumene	10000	10000	2500	2500	0.3 (0.062)	0.00021 J (0.0015)	ND (0.00097)	ND (0.00096)	ND (0.00098)
Ethyl Benzene	880	1000	70	46	0.17 (0.062)	ND (0.0015)	ND (0.00097)	ND (0.00096)	ND (0.00098)
Toluene	10000	10000	100	44	0.36 (0.062)	ND (0.0015)	ND (0.00097)	ND (0.00096)	ND (0.00098)
1,2,4-Trimethylbenzene	4700	5400	300	35	1.2 (0.12)	0.0013 J (0.003)	ND (0.0019)	ND (0.0019)	ND (0.002)
1,3,5-Trimethylbenzene	4700	5400	93	210	0.57 (0.12)	0.0071 (0.003)	ND (0.0019)	ND (0.0019)	ND (0.002)
Xylenes (total)	7900	9100	1000	990	1.7 (0.062)	ND (0.0015)	ND (0.00097)	ND (0.00096)	ND (0.00098)

Notes:
1 All concentrations reported in mg/kg (ppm); detection limits in parentheses.
2 No concentrations exceed the Non-Residential Direct Contact Surface Soil (0-2 ft) MSCs.
3 No concentrations exceed the Non-Residential Direct Contact Subsurface Soil (2-15 ft) MSCs.
4 Gray-shading indicates that the soils were excavated after the samples were collected.
5 Underlined concentrations exceed the Non-Residential Used Aquifer (TDS ≤ 2500) Soil-to-Groundwater MSCs.
6 Boldfaced concentrations exceed the Non-Residential Vapor Intrusion Screening Values.

Abbreviations:
ND - Not Detected
NA - Not Analyzed
J - Estimated Concentration

Table 2c

Post Excavation Soil Analytical Results - Area 2 (May 2022 Excavation)

Philadelphia Energy Solutions Refining and Marketing LLC, Philadelphia, PA

Location	Non-Residential Direct Contact Surface Soil (0-2 ft) MSCs	Non-Residential Direct Contact Subsurface Soil (2-15 ft) MSCs	Non-Residential Used Aquifer (TDS ≤ 2500) Soil-to-Groundwater MSCs	Non-Residential Vapor Intrusion Screening Values	DRA2-SB15	DRA2-SB16	DRA2-SB17	DRA2-SB18	DRA2-SB19	DRA2-SB20	DRA2-SB21	DRA2-SB22
Field Sample ID					DRA2-SB15	DRA2-SB16	DRA2-SB17	DRA2-SB18	DRA2-SB19	DRA2-SB20	DRA2-SB21	DRA2-SB22
Collection Depth (ft bgs)					Sidewall of Excavation	Sidewall of Excavation	Base of Excavation	Base of Excavation	Base of Excavation	Sidewall of Excavation	Base of Excavation	Base of Excavation
Sample Method					Grab - Attainment	Grab - Attainment	Grab - Attainment	Grab - Attainment	Grab - Attainment	Grab - Attainment	Grab - Attainment	Grab - Attainment
Sample Date					5/17/2022	5/17/2022	5/17/2022	5/17/2022	5/17/2022	5/17/2022	5/17/2022	5/17/2022
Comments							Excavated Nov. 2022	Excavated Nov. 2022	Excavated Nov. 2022	Excavated Nov. 2022		
Volatile Organic Compounds												
Benzene	280	330	0.5	0.13	ND (0.0011)	ND (0.0011)	**1.2 (0.12)**	**0.44 (0.001)**	**3.4 (0.11)**	**80 (1.2)**	ND (0.001)	ND (0.0011)
Cumene	10000	10000	2500	2500	ND (0.0011)	ND (0.0011)	NA	NA	NA	NA	ND (0.001)	ND (0.0011)
Ethyl Benzene	880	1000	70	46	ND (0.0011)	ND (0.0011)	NA	NA	NA	NA	ND (0.001)	0.00074 J (0.0011)
Toluene	10000	10000	100	44	ND (0.0011)	ND (0.0011)	NA	NA	NA	NA	ND (0.001)	ND (0.0011)
1,2,4-Trimethylbenzene	4700	5400	300	35	0.00041 J (0.0011)	ND (0.0011)	NA	NA	NA	NA	ND (0.001)	ND (0.0011)
1,3,5-Trimethylbenzene	4700	5400	93	210	ND (0.0011)	ND (0.0011)	NA	NA	NA	NA	ND (0.001)	ND (0.0011)
Xylenes (total)	7900	9100	1000	990	0.00037 J (0.0021)	ND (0.0022)	NA	NA	NA	NA	ND (0.0021)	0.0054 (0.0021)

Notes:

1 All concentrations reported in mg/kg (ppm); detection limits in parentheses.

2 No concentrations exceed the Non-Residential Direct Contact Surface Soil (0-2 ft) MSCs.

3 No concentrations exceed the Non-Residential Direct Contact Subsurface Soil (2-15 ft) MSCs.

4 Gray-shading indicates that the soils were excavated after the samples were collected.

5 Underlined concentrations exceed the Non-Residential Used Aquifer (TDS ≤ 2500) Soil-to-Groundwater MSCs.

6 Boldfaced concentrations exceed the Non-Residential Vapor Intrusion Screening Values.

Abbreviations:

ND - Not Detected

NA - Not Analyzed

J - Estimated Concentration

Table 2d

Post Excavation Soil Analytical Results - Area 2 (November 2022 Excavation)

Philadelphia Energy Solutions Refining and Marketing LLC, Philadelphia, PA

Location Field Sample ID Collection Depth Sample Method Sample Date Comments	Non-Residential Direct Contact Surface Soil (0-2 ft) MSCs	Non-Residential Direct Contact Subsurface Soil (2-15 ft) MSCs	Non-Residential Used Aquifer (TDS ≤ 2500) Soil-to-Groundwater MSCs	Non-Residential Vapor Intrusion Screening Values	DRA2-SB23 DRA2-SB23 Base of Excavation Grab - Attainment 11/8/2022	DRA2-SB24 DRA2-SB24 Base of Excavation Grab - Attainment 11/8/2022	DRA2-SB25 DRA2-SB25 Sidewall of Excavation Grab - Attainment 11/8/2022	DRA2-SB26 DRA2-SB26 Base of Excavation Grab - Attainment 11/8/2022	DRA2-SB27 DRA2-SB27 Base of Excavation Grab - Attainment 11/8/2022	DRA2-SB28 DRA2-SB28 Sidewall of Excavation Grab - Attainment 11/8/2022	DRA2-SB29 DRA2-SB29 Base of Excavation Grab - Attainment 11/8/2022	DRA2-SB30 DRA2-SB30 Sidewall of Excavation Grab - Attainment 11/8/2022
Volatile Organic Compounds												
Benzene	280	330	0.5	0.13	0.0012 (0.0005)	0.0078 (0.00056)	ND (0.00055)	0.0096 (0.00052)	**2.9 (0.034)**	0.0022 (0.00051)	**1.6 (0.04)**	0.0033 (0.00053)
Cumene	10000	10000	2500	2500	0.00058 J (0.001)	0.0076 (0.0011)	ND (0.0011)	0.0098 (0.001)	0.085 (0.068)	0.004 (0.001)	0.042 J (0.08)	0.016 (0.0011)
Ethyl Benzene	880	1000	70	46	0.00024 J (0.001)	0.0032 (0.0011)	ND (0.0011)	0.0059 (0.001)	0.11 (0.068)	0.0013 (0.001)	0.054 J (0.08)	0.011 (0.0011)
Toluene	10000	10000	100	44	ND (0.001)	0.0029 (0.0011)	ND (0.0011)	0.0086 (0.001)	0.54 (0.068)	0.0023 (0.001)	0.31 (0.08)	0.0086 (0.0011)
1,2,4-Trimethylbenzene	4700	5400	300	35	0.0013 J (0.002)	0.018 (0.0022)	ND (0.0022)	0.029 (0.0021)	0.096 J (0.14)	0.0088 (0.002)	0.055 J (0.16)	0.1 (0.0021)
1,3,5-Trimethylbenzene	4700	5400	93	210	0.00045 J (0.002)	0.0059 (0.0022)	ND (0.0022)	0.01 (0.0021)	0.025 J (0.14)	0.0031 (0.002)	ND (0.16)	0.036 (0.0021)
Xylenes (total)	7900	9100	1000	990	0.0018 J (0.001)	0.019 (0.0011)	ND (0.0011)	0.028 (0.001)	0.55 (0.068)	0.012 (0.001)	0.29 (0.08)	0.12 (0.0011)

Notes:

1 All concentrations reported in mg/kg (ppm); detection limits in parentheses.

2 No concentrations exceed the Non-Residential Direct Contact Surface Soil (0-2 ft) MSCs.

3 No concentrations exceed the Non-Residential Direct Contact Subsurface Soil (2-15 ft) MSCs.

4 Underlined concentrations exceed the Non-Residential Used Aquifer (TDS ≤ 2500) Soil-to-Groundwater MSCs.

5 Boldfaced concentrations exceed the Non-Residential Vapor Intrusion Screening Values.

Abbreviations:

ND - Not Detected

NA - Not Analyzed

J - Estimated Concentration

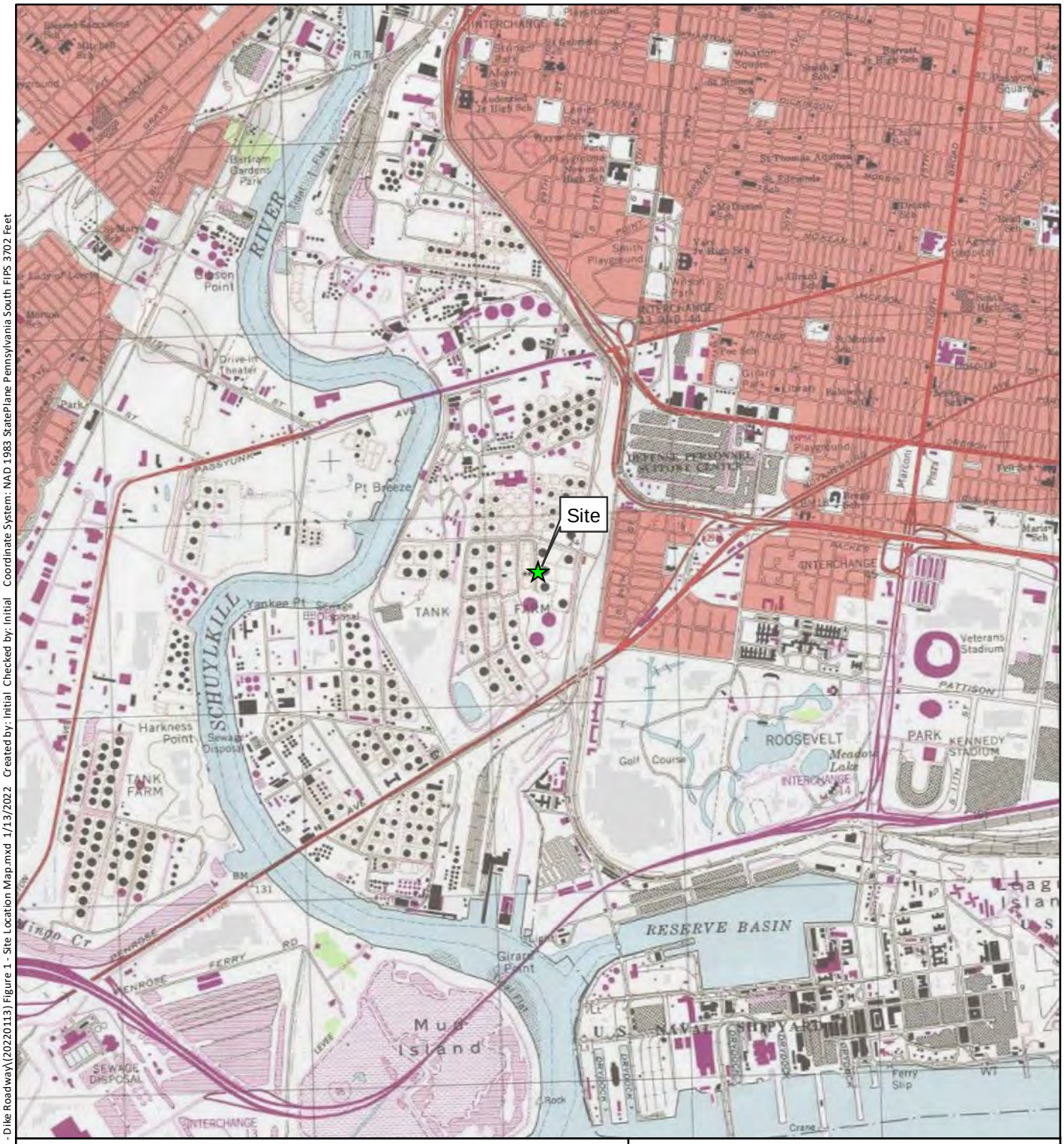
Table 3
Post Excavation Soil Analytical Results - Area 3
Philadelphia Energy Solutions Refining and Marketing LLC, Philadelphia, PA

Location Field Sample ID Collection Depth (ft bgs) Sample Method Sample Date Comments	Non-Residential Direct Contact Surface Soil (0-2 ft) MSCs	Non-Residential Direct Contact Subsurface Soil (2-15 ft) MSCs	Non-Residential Used Aquifer (TDS ≤ 2500) Soil-to-Groundwater MSCs	Non-Residential Vapor Intrusion Screening Values	DRA3-SB01 DRA3-SB01 Base of Excavation Grab - Attainment 11/19/2021	DRA3-SB02 DRA3-SB02 Base of Excavation Grab - Attainment 11/19/2021	DRA3-SB03 DRA3-SB03 Base of Excavation Grab - Attainment 11/19/2021	DRA3-SB04 DRA3-SB04 Base of Excavation Grab - Attainment 11/19/2021	DRA3-SB05 DRA3-SB05 Base of Excavation Grab - Attainment 11/19/2021	DRA3-SB06 DRA3-SB06 Base of Excavation Grab - Attainment 11/19/2021	DRA3-SB07 DRA3-SB07 Base of Excavation Grab - Attainment 11/19/2021	DRA3-SB08 DRA3-SB08 Base of Excavation Grab - Attainment 11/19/2021
Volatile Organic Compounds												
Benzene	280	330	0.5	0.13	ND (0.28)	**0.28 J (0.32)**	ND (0.29)	0.002 J^c (0.0048)	0.052 J (0.28)	0.052 J (0.33)	0.05 J (0.28)	0.051 J (0.28)
Cumene	10000	10000	2500	2500	ND (0.28)	0.25 J (0.32)	ND (0.29)	0.00064 J (0.0048)	2.3 (0.28)	0.13 J (0.33)	0.98 (0.28)	2.3 (0.28)
Ethyl Benzene	880	1000	70	46	ND (0.28)	0.26 J (0.32)	0.03 J (0.29)	0.00039 J (0.0048)	0.61 (0.28)	0.056 J (0.33)	0.16 J (0.28)	0.11 J (0.28)
Toluene	10000	10000	100	44	ND (0.28)	0.94 (0.32)	ND (0.29)	0.0018 J (0.0048)	0.19 J (0.28)	0.073 J (0.33)	0.11 J (0.28)	0.076 J (0.28)
1,2,4-Trimethylbenzene	4700	5400	300	35	0.052 J (0.28)	1.1 (0.32)	0.072 J (0.29)	0.0054 (0.0048)	7.2 (0.28)	0.2 J (0.33)	1.2 (0.28)	1.8 (0.28)
1,3,5-Trimethylbenzene	4700	5400	93	210	ND (0.28)	0.4 (0.32)	ND (0.29)	0.0024 J (0.0048)	3.3 (0.28)	0.052 J (0.33)	0.39 (0.28)	0.7 (0.28)
Xylenes (total)	7900	9100	1000	990	ND (0.57)	2.1 (0.64)	0.11 J (0.58)	0.0034 J (0.0097)	1.5 (0.56)	0.34 J (0.65)	0.6 (0.56)	0.84 (0.55)
Semivolatile Organic Compounds												
Anthracene	190000	190000	350	--	0.011 J (0.02)	0.068 (0.021)	0.045 (0.02)	0.33 (0.2)	NDFH (0.2)	0.17 (0.02)	0.12 (0.02)	0.22 (0.02)
Benzo(a)anthracene	130	190000	340	--	0.1 (0.02)	0.18 (0.021)	0.097 (0.02)	0.55 (0.2)	0.24 (0.2)	0.15 (0.02)	0.17 (0.02)	0.11 (0.02)
Benzo(a)pyrene	91	190000	46	--	0.11 (0.02)	0.2 (0.021)	0.098 (0.02)	0.36 (0.2)	ND (0.2)	0.23 (0.02)	0.26 (0.02)	0.12 (0.02)
Benzo(b)fluoranthene	76	190000	170	--	0.15 (0.02)	0.3 (0.021)	0.14 (0.02)	0.47 (0.2)	0.2 (0.2)	0.23 (0.02)	0.25 (0.02)	0.12 (0.02)
Benzo(g,h,i)perylene	190000	190000	180	--	0.086 (0.02)	0.18 (0.021)	0.11 (0.02)	0.26 (0.2)	0.2 (0.2)	0.17 (0.02)	0.2 (0.02)	0.1 (0.02)
Chrysene	760	190000	230	--	0.11 (0.02)	0.23 (0.021)	0.15 (0.02)	0.49 (0.2)	0.93 (0.2)	0.24 (0.02)	0.35 (0.02)	0.32 (0.02)
Fluorene	130000	190000	3800	--	0.0067 J (0.02)	0.096 (0.021)	0.074 (0.02)	0.48 (0.2)	1 (0.2)	0.37 (0.02)	0.29 (0.02)	0.67 (0.02)
Naphthalene	66	77	25	25	0.33 ^c (0.28)	0.18 J^c (0.32)	ND^c (0.29)	0.0024 J (0.0048)	1.5 ^c (0.28)	ND^c (0.33)	0.14 J^c (0.28)	0.15 J^c (0.28)
Phenanthrene	190000	190000	10000	--	0.071 (0.02)	0.34 (0.021)	0.26 (0.02)	1.5 (0.2)	1.8 FHF2 (0.2)	0.82 (0.02)	0.61 (0.02)	1.3 (0.02)
Pyrene	96000	190000	2200	--	0.13 (0.02)	0.27 (0.021)	0.18 (0.02)	1 (0.2)	0.82 (0.2)	0.21 (0.02)	0.3 (0.02)	0.28 (0.02)

Notes:
1 All concentrations reported in mg/kg (ppm); detection limits in parentheses.
2 FHF2 is an unknown qualifier.
3 No concentrations exceed the Non-Residential Direct Contact Surface Soil (0-2 ft) MSCs.
4 No concentrations exceed the Non-Residential Direct Contact Subsurface Soil(2-15 ft) MSCs.
5 No concentrations exceed the Non-Residential Used Aquifer (TDS ≤ 2500) Soil-to-Groundwater MSCs.
6 Boldfaced concentrations exceed the Non-Residential Vapor Intrusion Screening Values.

Abbreviations:
ND - Not Detected
J - Estimated Concentration
^c -- Continuing calibration verification (CCV) Recovery is outside acceptance limits.

Figures



0 2,500 5,000 Feet

1 inch = 2,500 feet

N

Legend

Site Location

Base Map: USGS Philadelphia (1995) 7.5 Minute Quadrangle.

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CLIENT: Philadelphia Energy Solutions Refining and Marketing LLC

PROJECT: Pipeline Release Adjacent and West of PB 881 Dike Wall

PROJECT NUMBER: P044.001.005

Site Location Map

Figure 1

File: N:\GIS\Prj\P044.001_PESRM-PES\MXDs\Pipeline Release - Dike Roadway\(20220113) Figure 1 - Site Location Map.mxd 1/13/2022 Created by: Initial Checked by: Initial Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet

Note: Aerial imagery source Maxar 10/19/2019

0 60 120 Feet

1 inch = 60 feet

N

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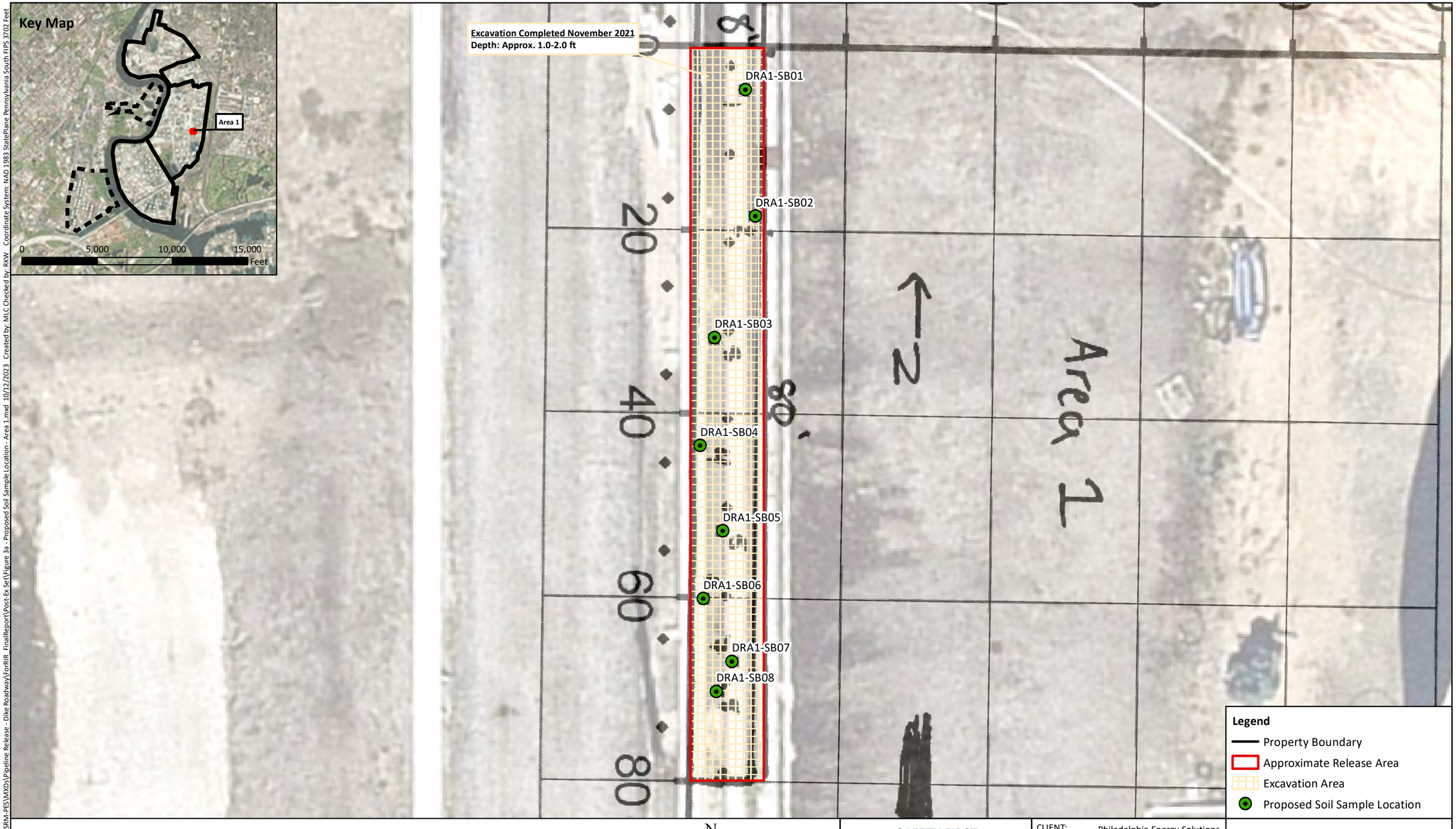
CLIENT:	Philadelphia Energy Solutions Refining and Marketing LLC
PROJECT:	Pipeline Release Adjacent and West of PB 881 Dike Wall
PROJECT NUMBER:	P044.001.005

Site Layout

Figure 2

File: N:\GIS\Pr\P044.001_PESRM-PES\MXDs\Pipeline Release - Dike Roadway\ForPIP\Figure 2 - Site Layout.mxd 7/14/2023 Created by: MLC Checked by: RKW Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet



Note:
Aerial imagery source NearMap 11/17/2021

0 10 20 Feet

1 inch = 10 feet

N

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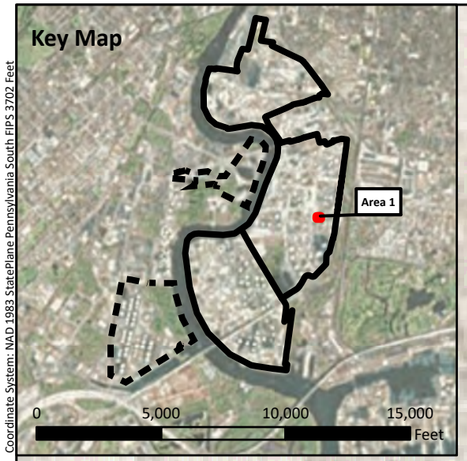
CLIENT:	Philadelphia Energy Solutions Refining and Marketing LLC
PROJECT:	Pipeline Release Adjacent and West of PB 881 Dike Wall
PROJECT NUMBER:	P044.001.005

Proposed Soil Sampling Locations Area 1

Figure 3a

File: N:\GIS\Prj\P044.001_PESRM-PES\MXDs\Pipeline Release - Dike Roadway\ForRIR_FinalReport\Post-Ex Set\Figure 3a - Proposed Soil Sample Location - Area 1.mxd 10/12/2023 Created by: MLC Checked by: RKW Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet



Excavation Completed November 2021
Depth: 0.1 ft

DRA1-SB01
DRA1-SB02
DRA1-SB03
DRA1-SB04
DRA1-SB05
DRA1-SB06
DRA1-SB07
DRA1-SB08

Legend
- Property Boundary
- Approximate Release Area
- Excavation Area

PESRM Soil Sample Location
- No Exceedances

Note:
Aerial imagery source NearMap 11/17/2021

0 10 20 Feet
1 inch = 10 feet

N

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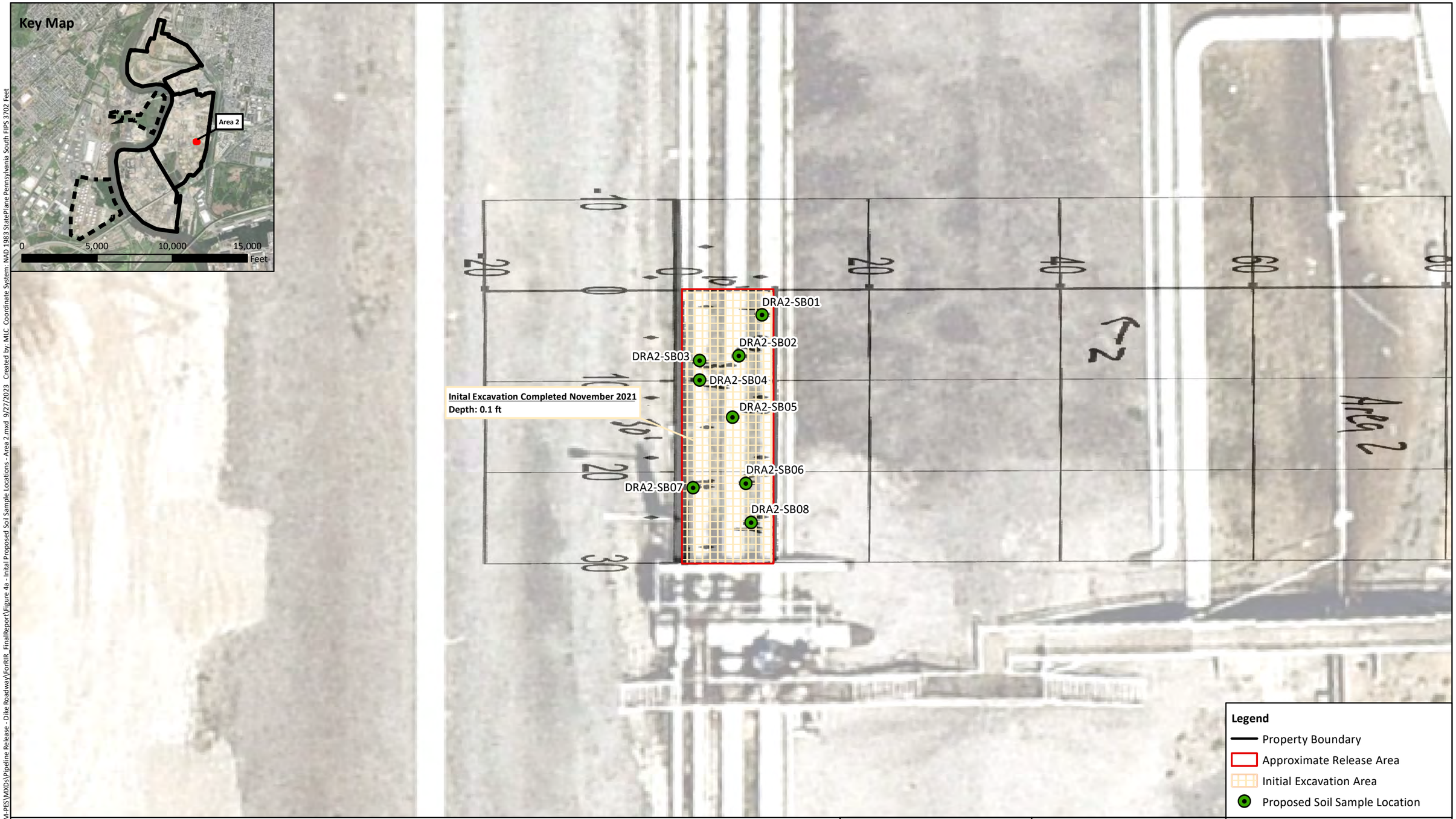
CLIENT:	Philadelphia Energy Solutions Refining and Marketing LLC
PROJECT:	Pipeline Release Adjacent and West of PB 881 Dike Wall
PROJECT NUMBER:	P044.001.005

Post Excavation Soil Analytical Results Area 1

Figure 3b

File: N:\GIS\Prj\P044.001_PESRM-PES\MXDs\Pipeline Release - Dike Roadway\ForRIR_FinalReport\Figure 3b - Post Excavation Analytical Results - Area 1.mxd 10/18/2023 Created by: MLC Checked by: RKW Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet



Note:
Aerial imagery source NearMap 11/17/2021

0 10 20 Feet

1 inch = 10 feet

N

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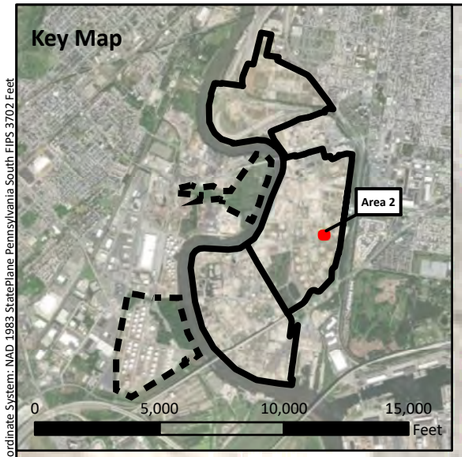
CLIENT:	Philadelphia Energy Solutions Refining and Marketing LLC
PROJECT:	Pipeline Release Adjacent and West of PB 881 Dike Wall
PROJECT NUMBER:	P044.001.005

Initial Proposed Soil Sampling Locations Area 2

Figure 4a

File: N:\GIS\Prj\P044.001_PESRM-PES\MXDs\Pipeline Release - Dike Roadway\ForRIR_FinalReport\Figure 4a - Inital Proposed Soil Sample Locations - Area 2.mxd 9/27/2023 Created by: MLC Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet



DRA2-SB03	Base of Excavation
VOCs	
Benzene	**3.8 {CD}**

DRA2-SB01	Base of Excavation
VOCs	
Benzene	**0.17 J {D}**

DRA2-SB02	Base of Excavation
VOCs	
Benzene	0.24 U

DRA2-SB04	Base of Excavation
VOCs	
Benzene	**4.1 {CD}**

DRA2-SB05	Base of Excavation
VOCs	
Benzene	**0.33 {D}**

DRA2-SB07	Base of Excavation
VOCs	
Benzene	**3.1 {CD}**

DRA2-SB06	Base of Excavation
VOCs	
Benzene	0.26 U

DRA2-SB08	Base of Excavation
VOCs	
Benzene	**0.33 {D}**

DRA2-SB01
DRA2-SB03
DRA2-SB02
DRA2-SB04
DRA2-SB05
DRA2-SB06
DRA2-SB07
DRA2-SB08

Inital Excavation Completed November 2021
Depth: Approx. 1.0-2.0 ft

Legend
- Property Boundary
- Approximate Release Area
- Initial Excavation Area

PESRM Soil Sample Location
- Exceeds VI SL
- Exceeds S-GW MSC
- No Exceedances

Qualifiers:
U -- Not Detected
J -- Estimated Concentration

Abbrievations:
DC -- Direct Contact
MSC -- Medium Specific Concentration
S-GW -- Soil-to-Groundwater
SL -- Screening Level
VI -- Vapor Intrusion

Exceedance Codes:
{A} Greater than NonRes Surface DC MSC
{B} Greater than NonRes Subsurface DC MSC
{C} Greater than NonRes Used Aquifer S-GW MSC
{D} Greater than NonRes VI SL

Notes:
1. All concentrations are presented in mg/kg.
2. Results exceeding the MSCs are gray-shaded.
3. Sample locations symbolizing NonRes DC exceedances indicate that either a surface sample exceeds the NonRes DC Surface MSC (0-2 ft) or a subsurface sample exceeds the NonRes DC Subsurface MSC (2-15 ft).
4. Aerial imagery source NearMap 11/17/2021.

Chemical	{A} PADEP Non-Res Direct Contact with Surface Soil (0-2 ft) MSCs (mg/kg)	{B} PADEP Non-Res Direct Contact with Subsurface Soil (2-15 ft) MSCs (mg/kg)	{C} PADEP Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSCs (mg/kg)	{D} PADEP Non-Res Vapor Intrusion Screening Levels (mg/kg)
VOCs				
Benzene	280	330	0.5	0.13

DRA2-SB10	0.5-1(ft)
VOCs	
Benzene	**0.14 {D}**

Sample Location
Sampling Depth
Result/MSC Exceed

0 10 20 Feet
1 inch = 10 feet

N

SAFETY FIRST

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CLIENT: Philadelphia Energy Solutions Refining and Marketing LLC

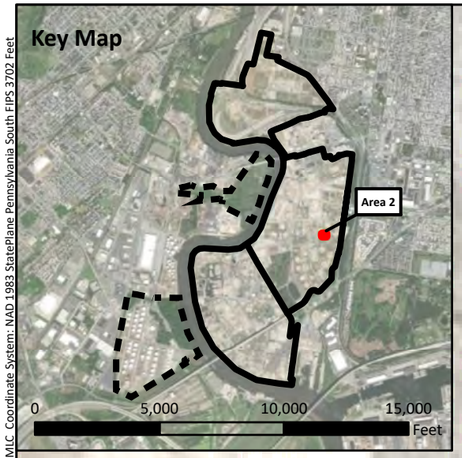
PROJECT: Pipeline Release Adjacent and West of PB 881 Dike Wall

PROJECT NUMBER: P044.001.005

Initial Soil Analytical Results Area 2

Figure 4b

File: N:\GIS\Prj\P044.001_PESRM-PES\MXDs\Pipeline Release - Dike Roadway\ForRIR_FinalReport\20231017-UpdatedDepthInfo\Figure 4b - Initial Soil Sampling Results.mxd 10/18/2023 Created by: MLC Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet



DRA2-SB03	Base of Excavation	0.5 -1(ft) Below Base of Excavation	2-2.5(ft) Below Base of Excavation
VOCs Benzene	**3.8 {CD}**	0.00019 J	0.00054 U

DRA2-SB13	1-1.5(ft) Below Original Ground Surface
VOCs Benzene	0.00048 U

DRA2-SB01	Base of Excavation
VOCs Benzene	**0.17 J {D}**

DRA2-SB09	0.5 -1(ft) Below Original Ground Surface
VOCs Benzene	0.00044 U

DRA2-SB02	Base of Excavation
VOCs Benzene	0.24 U

DRA2-SB11	1-1.5(ft) Below Original Ground Surface
VOCs Benzene	0.00076 U

DRA2-SB04	Base of Excavation	1.5-2(ft) Below Base of Excavation	2.5-3(ft) Below Base of Excavation
VOCs Benzene	**4.1 {CD}**	0.00044 U	0.00054 U

DRA2-SB05	Base of Excavation
VOCs Benzene	**0.33 {D}**

DRA2-SB07	Base of Excavation	0.5 -1(ft) Below Base of Excavation	2-2.5(ft) Below Base of Excavation
VOCs Benzene	**3.1 {CD}**	0.00078	0.0005 U

DRA2-SB06	Base of Excavation
VOCs Benzene	0.26 U

DRA2-SB12	0.5 -1(ft) Below Original Ground Surface
VOCs Benzene	0.00048 U

DRA2-SB10	0.5 -1(ft) Below Original Ground Surface
VOCs Benzene	**0.14 {D}**

DRA2-SB08	Base of Excavation
VOCs Benzene	**0.33 {D}**

DRA2-SB14	0.5 -1(ft) Below Original Ground Surface
VOCs Benzene	0.00049 U

DRA2-SB13
DRA2-SB01
DRA2-SB03
DRA2-SB09
DRA2-SB02
DRA2-SB04
DRA2-SB11
DRA2-SB05
DRA2-SB07
DRA2-SB06
DRA2-SB12
DRA2-SB10
DRA2-SB08
DRA2-SB14

Inital Excavation Completed November 2021
Depth: Approx. 1.0-2.0 ft

Chemical	{A} PADEP Non-Res Direct Contact with Surface Soil (0-2 ft) MSCs (mg/kg)	{B} PADEP Non-Res Direct Contact with Subsurface Soil (2-15 ft) MSCs (mg/kg)	{C} PADEP Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSCs (mg/kg)	{D} PADEP Non-Res Vapor Intrusion Screening Levels (mg/kg)
VOCs Benzene	280	330	0.5	0.13

Legend
- Property Boundary
- Approximate Release Area
- Initial Excavation Area

PESRM Soil Sample Location
- Exceeds VI SL
- Exceeds S-GW MSC
- No Exceedances

Qualifiers:
U -- Not Detected
J -- Estimated Concentration

Abbrievations:
DC -- Direct Contact
MSC -- Medium Specific Concentration
S-GW -- Soil-to-Groundwater
SL -- Screening Level
VI -- Vapor Intrusion

Exceedance Codes:
{A} Greater than NonRes Surface DC MSC
{B} Greater than NonRes Subsurface DC MSC
{C} Greater than NonRes Used Aquifer S-GW MSC
{D} Greater than NonRes VI SL

Notes:
1. All concentrations are presented in mg/kg.
2. Results exceeding the MSCs are gray-shaded.
3. Sample locations symbolizing NonRes DC exceedances indicate that either a surface sample exceeds the NonRes DC Surface MSC (0-2 ft) or a subsurface sample exceeds the NonRes DC Subsurface MSC (2-15 ft).
4. Aerial imagery source NearMap 11/17/2021.

DRA2-SB10	0.5-1(ft)
VOCs Benzene	**0.14 {D}**

Sample Location
Sampling Depth
Result/MSC Exceed

0 10 20 Feet
1 inch = 10 feet

N

SAFETY FIRST

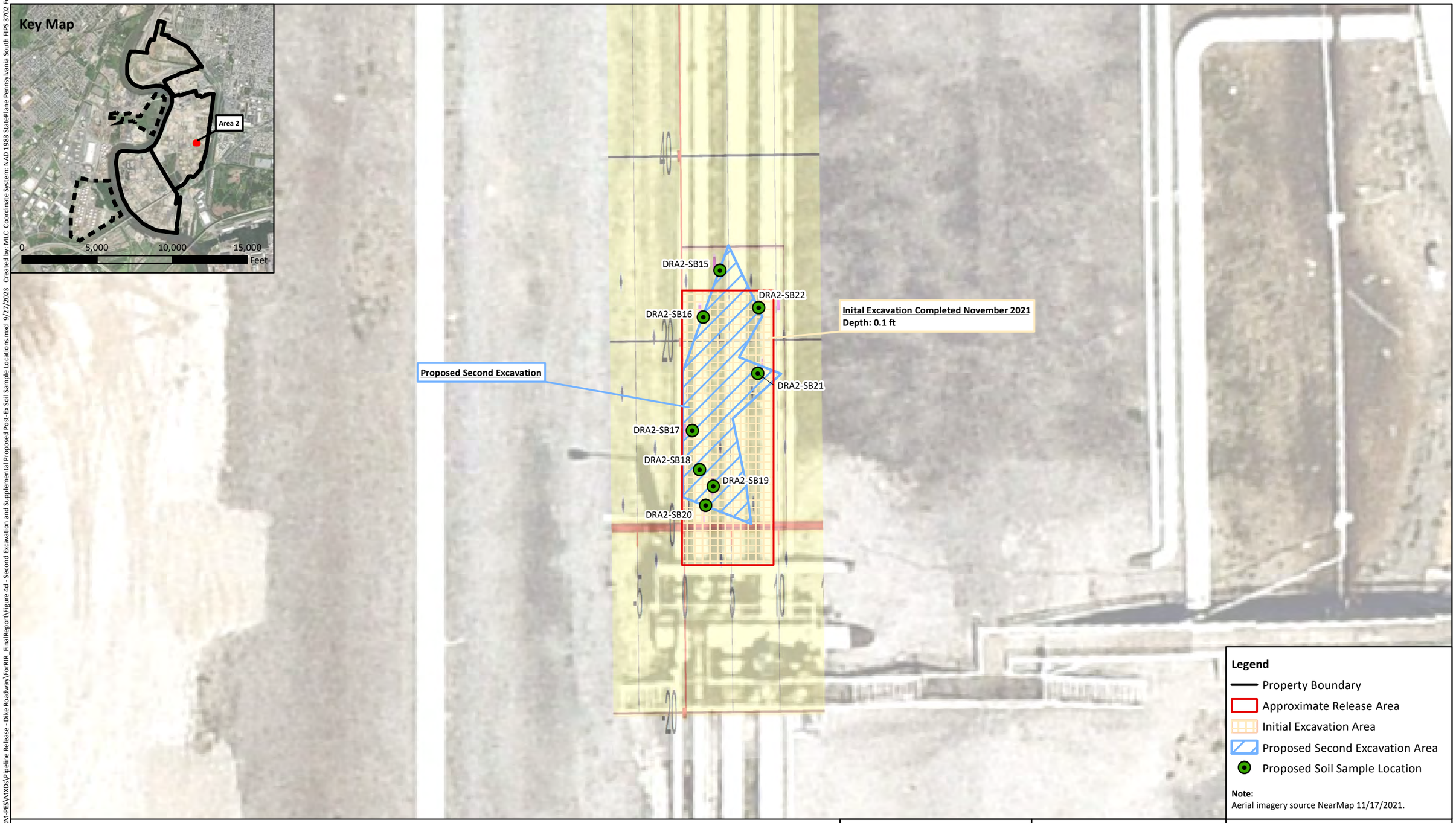
terraphase engineering

CLIENT: Philadelphia Energy Solutions Refining and Marketing LLC
PROJECT: Pipeline Release Adjacent and West of PB 881 Dike Wall
PROJECT NUMBER: P044.001.005

Site Characterization Soil Analytical Results Area 2

Figure 4c

File: N:\GIS\Proj\P044.001_PESRM-PES\MXDs\Pipeline Release - Dike Roadway\ForRIR_FinalReport\20231017-UpdatedDepthInfo\Figure 4c - Supplemental Soil Sampling Results.mxd 10/18/2023 Created by: MLC Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet



SAFETY FIRST

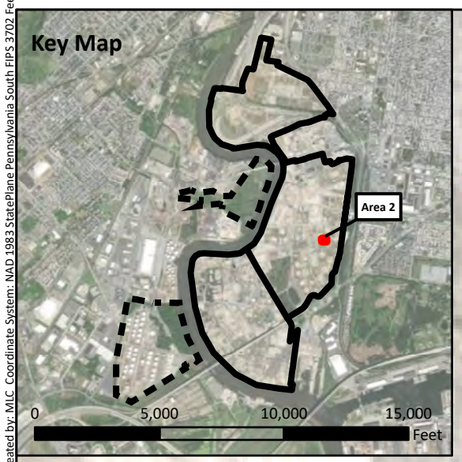
terraphase engineering

CLIENT:	Philadelphia Energy Solutions Refining and Marketing LLC
PROJECT:	Pipeline Release Adjacent and West of PB 881 Dike Wall
PROJECT NUMBER:	P044.001.005

Post Excavation Soil Sample Locations
Area 2
(May 2022 Excavation)

Figure 4d

File: N:\GIS\Pr\P044.001_PESRM-PES\MXDs\Pipeline Release - Dike Roadway\ForRIR_FinalReport\Figure 4d - Second Excavation and Supplemental Proposed Post-Ex Soil Sample Locations.mxd 9/27/2023 Created by: MLC Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet



DRA2-SB16	Sidewall of Excavation
VOCs	
Benzene	0.0011 U

DRA2-SB15	Sidewall of Excavation
VOCs	
Benzene	0.0011 U

DRA2-SB22	Base of Excavation
VOCs	
Benzene	0.0011 U

Inital Excavation Completed November 2021
Depth: Approx. 1.0-2.0 ft

Second Excavation Completed May 2022
Depth: Approx. 1.5 ft

DRA2-SB15
DRA2-SB22
DRA2-SB16
DRA2-SB21
DRA2-SB17
DRA2-SB18
DRA2-SB19
DRA2-SB20

DRA2-SB17	Base of Excavation
VOCs	
Benzene	**1.2 {CD}**

DRA2-SB21	Base of Excavation
VOCs	
Benzene	0.001 U

DRA2-SB19	Base of Excavation
VOCs	
Benzene	**3.4 {CD}**

DRA2-SB18	Base of Excavation
VOCs	
Benzene	**0.44 {D}**

DRA2-SB20	Sidewall of Excavation
VOCs	
Benzene	**80 {CD}**

Legend
- Property Boundary
- Approximate Release Area
- Initial Excavation Area
- Second Excavation Area

PESRM Soil Sample Location
- Exceeds VI SL
- Exceeds S-GW MSC
- No Exceedances

Qualifiers:
U -- Not Detected
J -- Estimated Concentration

Abbrievations:
DC -- Direct Contact
MSC -- Medium Specific Concentration
S-GW -- Soil-to-Groundwater
SL -- Screening Level
VI -- Vapor Intrusion

Exceedance Codes:
{A} Greater than NonRes Surface DC MSC
{B} Greater than NonRes Subsurface DC MSC
{C} Greater than NonRes Used Aquifer S-GW MSC
{D} Greater than NonRes VI SL

Notes:
1. All concentrations are presented in mg/kg.
2. Results exceeding the MSCs are gray-shaded.
3. Sample locations symbolizing NonRes DC exceedances indicate that either a surface sample exceeds the NonRes DC Surface MSC (0-2 ft) or a subsurface sample exceeds the NonRes DC Subsurface MSC (2-15 ft).
4. Aerial imagery source NearMap 11/17/2021.

Chemical	{A} PADEP Non-Res Direct Contact with Surface Soil (0-2 ft) MSCs (mg/kg)	{B} PADEP Non-Res Direct Contact with Subsurface Soil (2-15 ft) MSCs (mg/kg)	{C} PADEP Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSCs (mg/kg)	{D} PADEP Non-Res Vapor Intrusion Screening Levels (mg/kg)
VOCs				
Benzene	280	330	0.5	0.13

DRA2-SB10	0.5-1(ft)
VOCs	
Benzene	**0.14 {D}**

Sample Location
Sampling Depth
Result/MSC Exceed

0 10 20 Feet
1 inch = 10 feet

N

SAFETY FIRST

terraphase engineering

CLIENT: Philadelphia Energy Solutions Refining and Marketing LLC

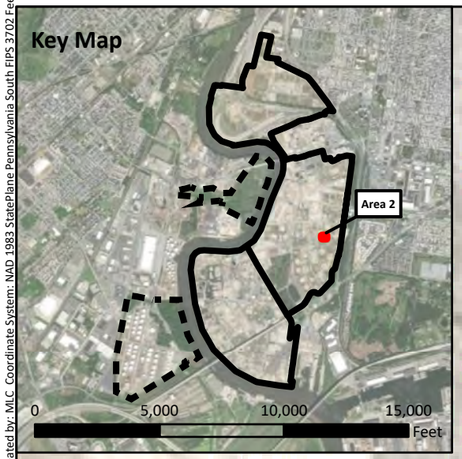
PROJECT: Pipeline Release Adjacent and West of PB 881 Dike Wall

PROJECT NUMBER: P044.001.005

Post Excavation Soil Analytical Results Area 2 (May 2022 Excavation)

Figure 4e

File: N:\GIS\Prj\P044.001_PESRM-PES\MXDs\Pipeline Release - Dike Roadway\ForRIR_FinalReport\20231017-UpdatedDepthInfo\Figure 4e - Post Second Excavation Soil Sampling Results.mxd 10/18/2023 Created by: MLC Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet



Inital Excavation Completed November 2021
Depth: 0.1 ft

Second Excavation Completed May 2022
Depth: Approx. 1.5 ft

Proposed Third Excavation

DRA2-SB23
DRA2-SB24
DRA2-SB25
DRA2-SB27
DRA2-SB26
DRA2-SB28
DRA2-SB29
DRA2-SB30

Legend

- Property Boundary
- Approximate Release Area
- Initial Excavation Area
- Second Excavation Area
- Proposed Third Excavation Area
- Proposed Soil Sample Location

Note:
Aerial imagery source NearMap 11/17/2021

0 10 20 Feet

1 inch = 10 feet

N

SAFETY FIRST

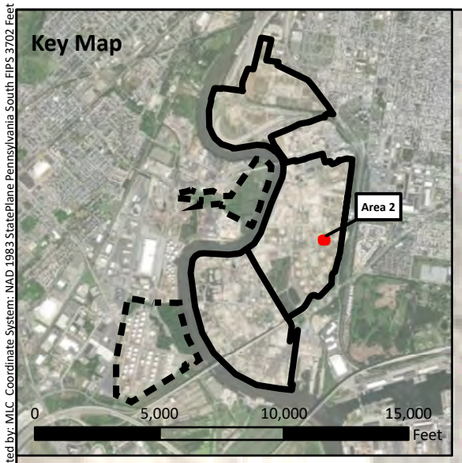
terraphase engineering

CLIENT:	Philadelphia Energy Solutions Refining and Marketing LLC
PROJECT:	Pipeline Release Adjacent and West of PB 881 Dike Wall
PROJECT NUMBER:	P044.001.005

Post Excavation Soil Sample Locations
Area 2
(November 2022 Excavation)

Figure 4f

File: N:\GIS\Prj\P044.001_PESRM-PES\MXDs\Pipeline Release - Dike Roadway\ForRIR_FinalReport\Figure 4f - Third Excavation and Supplemental Proposed Post-Ex Soil Sample Locations.mxd 10/18/2023 Created by: MLC Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet



Inital Excavation Completed November 2021
Depth: Approx. 1.0-2.0 ft

Second Excavation Completed May 2022
Depth: Approx. 1.5 ft

Third Excavation Completed November 2022
Northern Depth: Approx. 4 ft
Central Depth: Approx. 8 ft
Southern Depth: Approx. 7 ft

DRA2-SB24	Base of Excavation
VOCs Benzene	0.0078

DRA2-SB25	Sidewall of Excavation
VOCs Benzene	0.00055 U

DRA2-SB26	Base of Excavation
VOCs Benzene	0.0096

DRA2-SB27	Base of Excavation
VOCs Benzene	**2.9 {CD}**

DRA2-SB29	Base of Excavation
VOCs Benzene	**1.6 {CD}**

DRA2-SB23	Base of Excavation
VOCs Benzene	0.0012

DRA2-SB28	Sidewall of Excavation
VOCs Benzene	0.0022

DRA2-SB30	Sidewall of Excavation
VOCs Benzene	0.0033

DRA2-SB23
DRA2-SB24
DRA2-SB25
DRA2-SB26
DRA2-SB27
DRA2-SB28
DRA2-SB29
DRA2-SB30

Chemical	{A} PADEP Non-Res Direct Contact with Surface Soil (0-2 ft) MSCs (mg/kg)	{B} PADEP Non-Res Direct Contact with Subsurface Soil (2-15 ft) MSCs (mg/kg)	{C} PADEP Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSCs (mg/kg)	{D} PADEP Non-Res Vapor Intrusion Screening Levels (mg/kg)
VOCs				
Benzene	280	330	0.5	0.13

Legend
- Property Boundary
- Approximate Release Area
- Initial Excavation Area
- Second Excavation Area
- Third Excavation Area

PESRM Soil Sample Location
- Exceeds VI SL
- Exceeds S-GW MSC
- Soil Sample Location

Qualifiers:
U -- Not Detected
J -- Estimated Concentration

Abbrievations:
DC -- Direct Contact
MSC -- Medium Specific Concentration
S-GW -- Soil-to-Groundwater
SL -- Screening Level
VI -- Vapor Intrusion

Exceedance Codes:
{A} Greater than NonRes Surface DC MSC
{B} Greater than NonRes Subsurface DC MSC
{C} Greater than NonRes Used Aquifer S-GW MSC
{D} Greater than NonRes VI SL

Notes:
1. All concentrations are presented in mg/kg.
2. Results exceeding the MSCs are shaded.
3. Sample locations symbolizing NonRes DC exceedances indicate that either a surface sample exceeds the NonRes DC Surface MSC (0-2 ft) or a subsurface sample exceeds the NonRes DC Subsurface MSC (2-15 ft).
4. Aerial imagery source NearMap 11/17/2021

DRA2-SB10	0.5-1(ft)
VOCs Benzene	**0.14 {D}**

Sample Location
Sampling Depth
Result/MSC Exceed

0 10 20 Feet
1 inch = 10 feet

N

SAFETY FIRST

terraphase engineering

CLIENT: Philadelphia Energy Solutions Refining and Marketing LLC

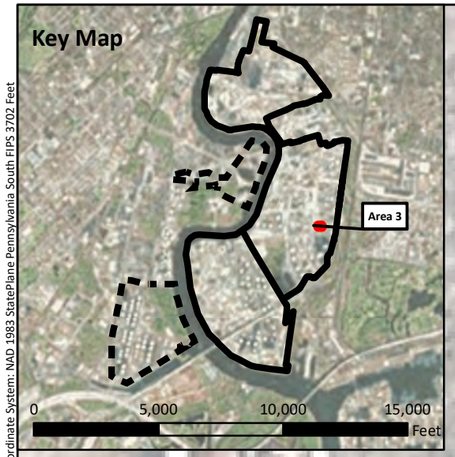
PROJECT: Pipeline Release Adjacent and West of PB 881 Dike Wall

PROJECT NUMBER: P044.001.005

Post Excavation Soil Analytical Results Area 2 (Novemeber 2022 Excavation)

Figure 4g

File: N:\GIS\Prj\P044.001_PESRM-PES\MXDs\Pipeline Release - Dike Roadway\ForRIR_FinalReport\20231017-UpdatedDepthInfo\Figure 4g - Post Third Excavation Soil Sampling Results.mxd 10/18/2023 Created by: MLC Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet



Note:
Aerial imagery source NearMap 11/17/2021

0 10 20 Feet

1 inch = 10 feet

N

Legend
- Property Boundary
- Approximate Release Area
- Excavation Area
- Proposed Soil Sample Location

SAFETY FIRST

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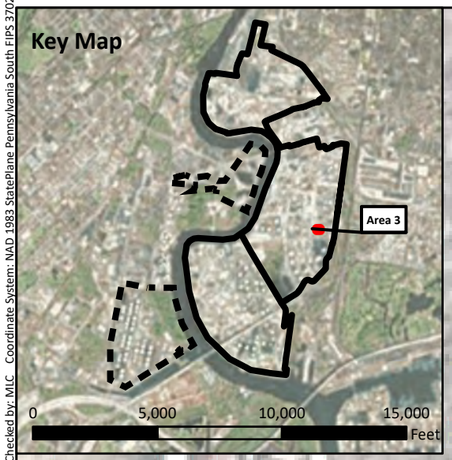
CLIENT:	Philadelphia Energy Solutions Refining and Marketing LLC
PROJECT:	Pipeline Release Adjacent and West of PB 881 Dike Wall
PROJECT NUMBER:	P044.001.005

Proposed Soil Sampling Locations Area 3

Figure 5a

File: N:\GIS\Pr\P044.001_PESRM-PES\MXDs\Pipeline Release - Dike Roadway\ForRIR_FinalReport\Figure 5a - Proposed Soil Sample Location - Area 3.mxd 9/21/2023 Created by: MMI Checked by: MLC Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet



DRA3-SB01	Base of Excavation
VOCs	
Benzene	0.28 U

DRA3-SB02	Base of Excavation
VOCs	
Benzene	**0.28 J {D}**

DRA3-SB03	Base of Excavation
VOCs	
Benzene	0.29 U

DRA3-SB04	Base of Excavation
VOCs	
Benzene	0.002 J^c

DRA3-SB05	Base of Excavation
VOCs	
Benzene	0.052 J

DRA3-SB01
DRA3-SB02
DRA3-SB03
DRA3-SB04
DRA3-SB05
DRA3-SB07
DRA3-SB06
DRA3-SB08

Excavation Completed November 2021
Depth: Approx. 1.0-2.0 ft

DRA3-SB07	Base of Excavation
VOCs	
Benzene	0.05 J

DRA3-SB06	Base of Excavation
VOCs	
Benzene	0.052 J

DRA3-SB08	Base of Excavation
VOCs	
Benzene	0.051 J

Legend
- Property Boundary
- Approximate Release Area
- Excavation Area

PESRM Soil Sample Location
- Exceeds VI SL
- No Exceedances

Qualifiers:
U -- Not Detected
J -- Estimated Concentration
^c -- Continuing calibration verification (CCV) Recovery is outside acceptance limits

Abbrievations:
DC -- Direct Contact
MSC -- Medium Specific Concentration
S-GW -- Soil-to-Groundwater
SL -- Screening Level
VI -- Vapor Intrusion

Exceedance Codes:
{A} Greater than NonRes Surface DC MSC
{B} Greater than NonRes Subsurface DC MSC
{C} Greater than NonRes Used Aquifer S-GW MSC
{D} Greater than NonRes VI SL

Notes:
1. All concentrations are presented in mg/kg.
2. Results exceeding the MSCs are shaded.
3. Sample locations symbolizing NonRes DC exceedances indicate that either a surface sample exceeds the NonRes DC Surface MSC (0-2 ft) or a subsurface sample exceeds the NonRes DC Subsurface MSC (2-15 ft).
4. Aerial imagery source NearMap 11/17/2021

Chemical	{A} PADEP Non-Res Direct Contact with Surface Soil (0-2 ft) MSCs (mg/kg)	{B} PADEP Non-Res Direct Contact with Subsurface Soil (2-15 ft) MSCs (mg/kg)	{C} PADEP Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW MSCs (mg/kg)	{D} PADEP Non-Res Vapor Intrusion Screening Values (mg/kg)
VOCs				
Benzene	280	330	0.5	0.13

DRA2-SB10	0.5-1(ft)
VOCs	
Benzene	**0.14 {D}**

Sample Location
Sampling Depth
Result/MSC Exceed

0 10 20 Feet
1 inch = 10 feet

N

SAFETY FIRST

terraphase engineering

CLIENT: Philadelphia Energy Solutions Refining and Marketing LLC

PROJECT: Pipeline Release Adjacent and West of PB 881 Dike Wall

PROJECT NUMBER: P044.001.005

Post Excavation Soil Analytical Results Area 3

Figure 5b

File: N:\GIS\Prj\P044.001_PESRM-PES\MXDs\Pipeline Release - Dike Roadway\ForRIR_FinalReport\20231017-UpdatedDepthInfo\Figure 5b - Soil Sampling Results - Area 3.mxd 10/18/2023 Created by: MMI Checked by: MLC Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet

Appendix A

Notification Documentation

2610-FM-BECB0010 6/2014

pennsylvania DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF ENVIRONMENTAL CLEANUP AND BROWNFIELDS

For DEP Use Only
PF #_____
Rem ID #_____

NOTICE OF INTENT TO REMEDIATE

Act 1995-2 requires four general information items to be included in the NIR: the general location, listing of contaminants, intended use of property, and proposed remediation measures. In addition, indicate the standard(s) to be obtained (if known) and attach a scaled site map (if available).

Property Name PB 881 Dike Roadway Release

Former Name(s) / AKA Portion of the Former Philadelphia Energy Solutions Refinery

Address / Location 3144 West Passyunk Avenue

City Philadelphia Zip Code 19153

Municipality(s) Philadelphia County(ies) Philadelphia County

Latitude 39 º (deg). 54 ‘ (min) 40 “ (sec) Longitude 75 º (deg). 11 ‘ (min) 43 “ (sec)

Horizontal Collection Method GIS

Horizontal Reference Datum NAD83 Reference Point see Figure 1 attached

☐ Wish to participate in the DEP/EPA MOA. Contact the Land Recycling Program Manager at landrecycling@pa.gov for details.

EPA ID#, if known

DEP ID#(s), if known 51-33620, eFACTS: 856437
(i.e., eFACTS site ID#, storage tank facility ID#, water quality permit #, watershed permit, air quality permit #, etc.)

Date Release Occurred (if known) November 16, 2021

Provide a brief description of the site contamination in plain language (e.g. fuel oil spill, historical chemical industrial area contamination), the names of any know primary contaminants to be addressed, and the intended future use of the property.

On November 16th, 2021, three releases occurred to soils in small adjacent areas during the removal of overhead pipelines within the pipe rack located along the dike roadway west of the PB 881 tank dike. The pipeline that caused the release was associated with aboveground storage tanks (ASTs) that were formerly used to store crude oil. The three separate release areas are approximately 640 square feet, 300 square feet, and 160 square feet, respectively. The future use of the property is expected to be non-residential.

Provide a general description of proposed remediation measures.

A prompt interim response, including a limited soil excavation, was conducted immediately following discovery of the release. The soil was staged in a roll-off container and transported to Pure Soil Technologies in Jackson, NJ for recycling. Additional soil sampling and excavation have been conducted to remediate the site. The site will attain the site-specific standard.

Remediation Standard(s) planned (if known at this time):

☐ Unknown at this time	☐ Soil	☐ Groundwater
☐ Background Contaminants:	☐ Soil	☐ Groundwater
☐ Statewide Health - Residential Contaminants:	☐ Soil	☐ Groundwater
☐ Statewide Health – Non-Residential Contaminants:	☐ Soil	☐ Groundwater
☒ Site Specific Contaminants: Benzene, cumene, ethylbenzene, toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, xylenes, lead, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, chrysene, fluorene, naphthalene, phenathrene, pyrene	☒ Soil	☐ Groundwater
☐ Special Industrial Area* Contaminants:	☐ Soil	☐ Groundwater

*NOTE: Specific standard or Special Industrial Area require a 30-day municipal comment period

Remediator / Property Owner / Consultant. Complete the form below for ***each*** recipient obtaining a release of liability upon approval of the final report. Attach additional sheets as necessary.

Remediator

Contact Person/Title Anne R. Garr / Assistant Secretary — eFACTS Client ID* Facility No. 51-33620

Relationship to Site Owner — Client Type* LLC
(e.g. owner, remediator, participant in cleanup, consultant, etc.)

Phone Number (312) 283-4469 — Email Address agarr@hilcoglobal.com

Company Name Philadelphia Energy Solutions Refining and Marketing LLC — EIN or Federal ID #

Address (street, city, state, zip) 111 S Wacker Dr, Suite 3000, Chicago, IL, 60606

Property Owner

Contact Person/Title Anne R. Garr / Assistant Secretary — eFACTS Client ID* Facility No. 51-33620

Relationship to Site Owner — Client Type* LLC
(e.g. owner, remediator, participant in cleanup, consultant, etc.)

Phone Number (312) 283-4469 — Email Address agarr@hilcoglobal.com

Company Name Philadelphia Energy Solutions Refining and Marketing LLC — EIN or Federal ID #

Address (street, city, state, zip) 111 S Wacker Dr, Suite 3000, Chicago, IL, 60606

Consultant

Contact Person/Title Kevin Long / Principal Consultant — eFACTS Client ID*

Relationship to Site Consultant — Client Type* Corporation
(e.g. owner, remediator, participant in cleanup, consultant, etc.)

Phone Number 609-236-8171, ext 93 — Email Address kevin.long@terraphase.com

Company Name Terraphase Engineering Inc. — EIN or Federal ID # 27-3543127

Address (street, city, state, zip) 100 Canal Pointe Blvd, Suite 110, Princeton, NJ 08540

*Include eFACTS Client ID (if known) – "Client Types" below:

Association/Organization	Limited Liability company	Partnership-General
Authority	Limited Liability Partnership	Partnership-Limited
County	Municipality	School District
Estate/Trust	Non-Pennsylvania Government	Sole Proprietorship
Federal Agency	Other (Non-Government)	State Agency
Individual	Pennsylvania Corporation	

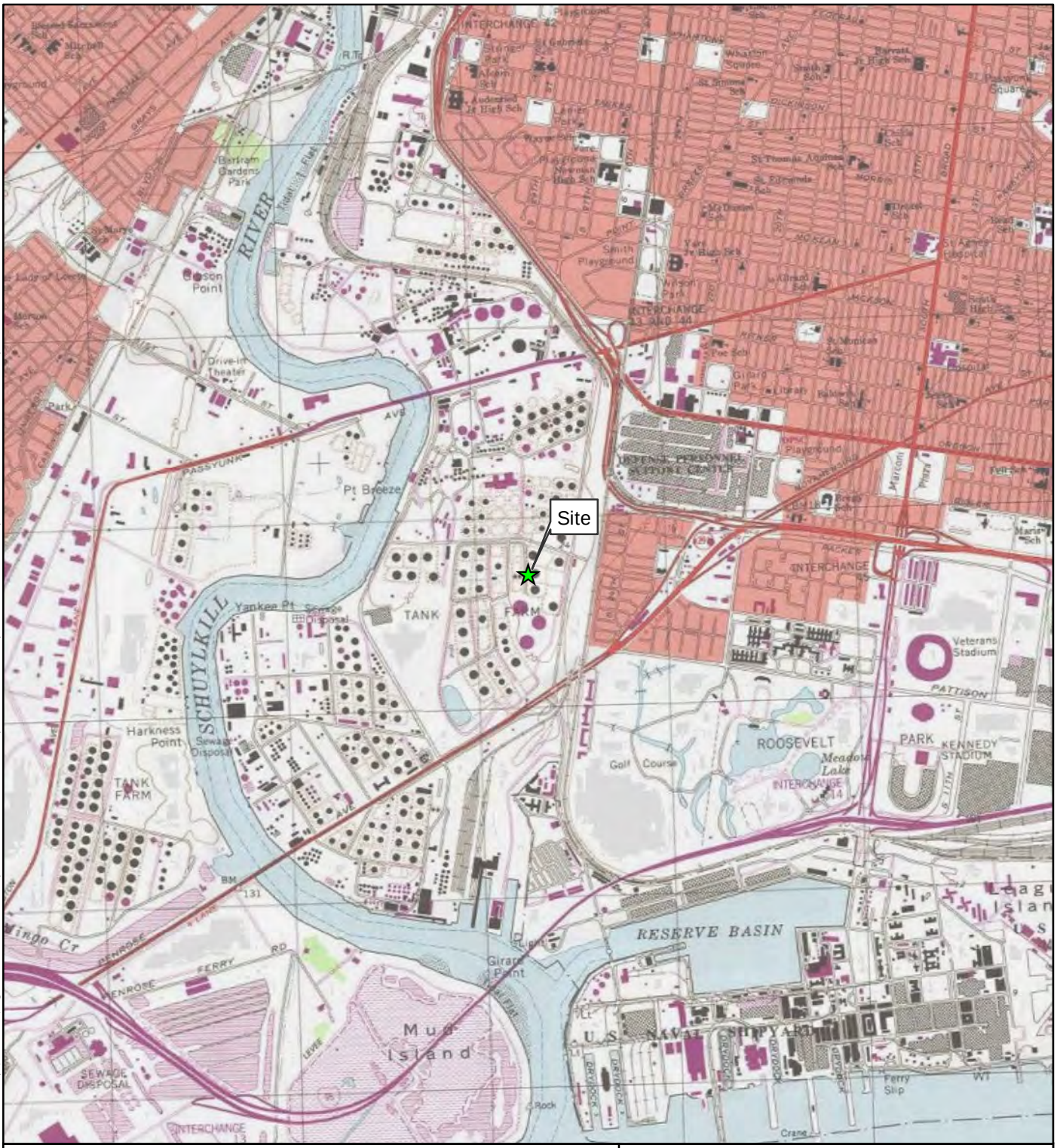
Preparer of Notice of Intent to Remediate

Name Kevin Long / Principal Consultant — Title Principal Consultant

Phone Number 609-236-8171, ext 93 — Email Address kevin.long@terraphase.com

Company Name Terraphase Engineering Inc. eFACTS Client ID

Address (street, city, state, zip) 100 Canal Pointe Blvd, Suite 110, Princeton, NJ 08540



0 2,500 5,000 Feet

1 inch = 2,500 feet

N

Legend

Site Location

Base Map: USGS Philadelphia (1995) 7.5 Minute Quadrangle.

SAFETY FIRST

terraphase engineering

CLIENT: Philadelphia Energy Solutions Refining and Marketing LLC

PROJECT: PB 881 Dike Roadway Release

PROJECT NUMBER: P044.001.005

Site Location Map

FIGURE 1

File: N:\GIS\Prj\P044.001_PESRM-PES\MXDs\Pipeline Release - Dike Roadway\(20220113) Figure 1 - Site Location Map.mxd 1/13/2022 Created by: Initial Checked by: Initial Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet

Notice of an Intent
to Remediate to an Environmental Standard
(Sections 302(e)(1)(ii), 303(h)(1)(ii),
304(n)(1)(i), and 305(c)(1))

Pursuant to the Land Recycling and Environmental Remediation Standards Act, the act of May 19, 1995, P.L. 4, No. 1995-2., notice is hereby given that Philadelphia Energy Solutions Refining and Marketing LLC (PESRM) will submit to the Pennsylvania Department of Environmental Protection a Notice of Intent to Remediate a site located at 3144 West Passyunk Avenue, Philadelphia. This Notice of Intent to Remediate states the site is an approximately 0.025-acre area referred to as the PB 881 Dike Roadway Release at the Former Philadelphia Energy Solutions Refinery. The site has been found to be contaminated with petroleum constituents in soil. PESRM has indicated the site-specific standard will be attained. The proposed future use of the property will be non-residential for commercial/industrial use.

The Act provides for a 30-day public comment period for site-specific standard remediations. The 30-day comment period is initiated with the publication of this notice. Until July 15, 2023, the City of Philadelphia may submit a request to PESRM to develop and implement a public involvement plan involving the municipality in the development of the remediation and reuse plans for the site. Copies of these requests and of any comments should also be submitted to Lisa Strobridge at the Department of Environmental Protection at 2 E. Main St, Norristown, PA 19401.

The Philadelphia Inquirer
100 S. INDEPENDENCE MALL W, STE 600, PHILADELPHIA, PA 19106

Affidavit of Publication

On Behalf of:
TERRAPHASE ENGINEERING
1100 E HECTOR ST
SUITE 416
CONSHOHOCKEN, PA 19428

STATE OF PENNSYLVANIA COUNTY OF PHILADELPHIA:

Before the undersigned authority personally appeared the undersigned who, on oath represented a and say: that I am an employee of The Philadelphia Inquirer, LLC, and am authorized to make this affidavit of publication, and being duly sworn, I depose and say:

1. The Philadelphia Inquirer, LLC is the publisher of the Philadelphia Inquirer, with its headquarters at 100 S. Independence Mall West, Suite 600, Philadelphia, PA 19106.
2. The Philadelphia Inquirer is a newspaper that which was established in in the year 1829, since which date said daily newspaper has been continuously published and distributed daily in the City of Philadelphia, count and state aforesaid.
3. The printed notice or publication attached hereto set forth on attached
hereto was published in all regular print editions of
The Philadelphia Inquirer on

Legal Notices

as published in **Inquirer Legals** in the issue(s) of:

6/15/2023

4. Under oath, I state that the following is true and correct, and that neither I nor The Philadelphia Inquirer, LLC have any is interest in the subject matter of the aforesaid notice or advertisement.

Helene Sweeney

Kathrine V. Harley
Notary Public

My Commission Expires:

Commonwealth of Pennsylvania - Notary Seal
KATHERINE V. HARLEY, Notary Public
Philadelphia County
My Commission Expires May 25, 2025
Commission Number 1312829

Ad No: 138413
Customer No: 104799

COPY OF ADVERTISEMENT

Notice of an Intent
to Remediate to an Environmental Standard
(Sections 302(e)(1)(ii), 303(h)(1)(ii),
304(n)(1)(i), and 305(c)(1))

Pursuant to the Land Recycling and Environmental Remediation Standards Act, the act of May 19, 1995, P.L. 4, No. 1995-2., notice is hereby given that Philadelphia Energy Solutions Refining and Marketing LLC (PESRM) will submit to the Pennsylvania Department of Environmental Protection a Notice of Intent to Remediate a site located at 3144 West Passyunk Avenue, Philadelphia. This Notice of Intent to Remediate states the site is an approximately 0.025-acre area referred to as the PB 881 Dike Roadway Release at the Former Philadelphia Energy Solutions Refinery. The site has been found to be contaminated with petroleum constituents in soil. PESRM has indicated the site-specific standard will be attained. The proposed future use of the property will be non-residential for commercial/industrial use.
The Act provides for a 30-day public comment period for site-specific standard remediations. The 30-day comment period is initiated with the publication of this notice. Until July 15, 2023, the City of Philadelphia may submit a request to PESRM to develop and implement a public involvement plan involving the municipality in the development of the remediation and reuse plans for the site. Copies of these requests and of any comments should also be submitted to Lisa Strobridge at the Department of Environmental Protection at 2 E. Main St, Norristown, PA 19401.

June 13, 2023

Ms. Leigh Anne Rainford
Philadelphia Department of Public Health
Environmental Health Services
321 University Avenue – 2nd Floor
Philadelphia, PA 19104

sent via UPS, Proof of Delivery Requested

Subject: **Notice of Intent to Remediate**
0.025 Acre Area at the Former Philadelphia Energy Solutions Refinery
PB 881 Dike Roadway Release
3144 West Passyunk Ave.
Philadelphia, PA 19153

Dear Ms. Rainford:

The Land Recycling and Environmental Remediation Standards Act (Act 2) requires that a Notice of Intent to Remediate (NIR) be provided to the municipality in which the site is located. Act 2 also provides that when a site is in a Special Industrial Area or is being remediated to a site-specific standard, the municipality is afforded a 30-day comment period. In accordance with the provisions of the Act, we are formally notifying you of our intent to remediate the subject site, which is an approximately 0.025-acre area at the Former Philadelphia Energy Solutions Refinery. A copy of the NIR, which has been sent to the Department of Environmental Protection (DEP), is enclosed. This notice will be published in the Pennsylvania Bulletin, and a summary of the notice will appear in a local newspaper.

Publication of this notice in a local newspaper initiates the 30-day public and municipal comment period. During this time, your municipality may request a public involvement plan for the community to be involved in the development of the remediation and reuse plans for the site. If the municipality wishes to be involved in this project, please send your comments to Julianna Connolly of Philadelphia Energy Solutions Refining and Marketing LLC (PESRM) at jconnolly@hilcoglobal.com with copies submitted to Lisa Strobridge at the Department of Environmental Protection at 2 E. Main St, Norristown, PA 19401 or lstrobridg@pa.gov.

Should you have any questions or comments regarding the proposed remediation, please contact me at kevin.long@terraphase.com or 609-236-8171, ext. 93.

Sincerely,

for Terraphase Engineering Inc.

Kevin L. Long
Principal Consultant

KL:cs

Enclosure: Notice of Intent to Remediate

cc: Julianna Connolly (jconnolly@hilcoglobal.com)
Joseph Jeray (jjeray@hilcoglobal.com)

Proof of Delivery

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number
1Z75YA671338339189

Weight
0.50 LBS

Service

UPS Next Day Air Saver®

Shipped / Billed On
06/13/2023

Delivered On

06/20/2023 11:20 A.M.

Delivered To
PHILADELPHIA, PA, US

Received By

JOSE RAMO

Please print for your records as photo and details are only available for a limited time.

Sincerely,

UPS

Tracking results provided by UPS: 06/20/2023 11:27 A.M. EST

C I T Y O F P H I L A D E L P H I A

OFFICE OF THE HEALTH COMMISSIONER
1101 Market Street, Suite 1320
Philadelphia, Pennsylvania 19107
Tel: (215) 686-9009
Fax: (215) 686-5212

Cheryl Bettigole, MD, MPH
Health Commissioner

July 7, 2023

Kevin Long
Terraphase Engineering, Inc.
100 Canal Pointe Boulevard
Suite 108
Princeton, New Jersey 08540

Mr. Long:

Recently, the City of Philadelphia Department of Public Health, Environmental Engineering Unit received a Notice of Intent to Remediate (NIR) from your firm, under the provisions of the Pennsylvania Land Recycling and Environmental Remediation Standards Act (Act 2) regarding the property located at **3144 West Passyunk Avenue** Philadelphia, Pennsylvania (19153).

Through the Notice of Intent (NIR) provisions of Act 2, the City of Philadelphia hereby requests that you develop a Public Involvement Plan (PIP) for this site. This request is made in accordance with the internal procedures first developed by the City in 2003 for this purpose. These procedures recommend our municipality request a PIP if the project is in close proximity or adjacent to residential, educational (schools/daycare), medical, religious, recreational and park properties. Since this property is in close proximity to residential properties, we are obligated to request a PIP. In addition to the reason above, members of the interdepartmental review team which reviews NIRs submitted to the City have recommended a PIP in this instance.

The venue for this PIP will be an appropriately publicized meeting of interested parties (impacted community and businesses) you will host to discuss this site, to be held at a suitable location and time, allowing interested parties to attend. An approximate 30 days advance notice of the meeting must be provided, during which time all relevant sampling and background investigation material should be made available for public inspection at a suitable location, such as the nearest school or public library.

The meeting would focus on the following:

- Identity, location and concentration of contaminants and hazardous substances found in sampling events at the site;
- Any potential health effects of those contaminants, based on locations and concentrations noted;
- Measures to be taken to protect the community, workers and recreation areas from possible exposure;
- Further definition of the remediation methodology to be employed;
- Discussion of specific procedures, such as dust control, sedimentation, and erosion control.

Following the meeting, all supplemental material, which will include presentation materials, attendance list, and questions and answers will append the material provided earlier, which will be given to PA DEP, with a copy to the City.

Please notify the Department of Public Health in writing of the date, time and location of the public meeting, and the location of the document depository as noted above.

Please note that this PIP request has nothing to do with the perceived value and need of this development for the community and the City. We assume that you have already had several meetings with the community, elected officials, and others on the benefits of this development. This PIP request is specifically concerned with final questions regarding the proposed remediation to be employed on the site in its current condition. Accordingly, your presentation can be geared specifically to the remediation strategy, and the questions noted above.

Should you have any questions, please contact Leigh Anne Rainford of our Department's Environmental Engineering section at 215-685-7497 or at LeighAnne.Rainford@Phila.gov.

Best regards,

Cheryl Bettigole, MD, MPH
Health Commissioner

cc: C. David Brown, PA DEP
Dawn Kiesewetter, Acting Director, Environmental Health Services
Vijya Patel, Divisional Deputy City Solicitor

2610-FM-BECB0011 Rev. 12/2015

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF ENVIRONMENTAL CLEANUP AND BROWNFIELDS

For DEP Use Only
PF #_____
Rem ID #_____

FINAL REPORT SUMMARY

The Final Report Summary (FRS) is a brief report consisting of set of data required in addition to the Act 2 Final Report. The summary is used in part as a reference to the Final Report Approval Letter which conveys liability relief to the remediator and other applicable persons. It is of value long after the remediation to be used by the public and Department in understanding key information about the site and remediation.

This use is increased by the fact that it will ultimately be merged into the Department's eFACTS system, which allows the public to have the ease of computer access to environmental information at sites. For more information, see www.ahs.dep.pa.gov/eFACTSWeb/default.aspx. Finally, the summary will be used by the Department to help to better assess the status and the level of success of the program. In the past, numbers of sites remediated has been tracked. With the inclusion of this summary information, progress can be tracked in many specific ways, including identification of individual chemical constituents, and the mass treated, removed or managed safely in place.

Identification

Property Name PB 881 Dike Roadway Release Area - Point Breeze South Yard

Property Descriptor Former Philadelphia Energy Solutions Refinery

Address / Location

Address 3144 West Passyunk Ave

City Philadelphia Zip Code 19153

Municipality(s)Philadelphia County(ies) Philadelphia County

Latitude 39 º (deg). 54 ‘ (min) 40 “ (sec) Longitude 75 º (deg). 11 ‘ (min) 43 “ (sec)

Horizontal Collection Method GIS

Horizontal Reference Datum NAD83 Reference Point See Figure 1 attached

Property Specifics

Size of Property 1,300-acre Number of Sites 1

Combined acreage of sites 0.0095

Remediation

Standards attained or special industrial area attainment. (Check all that apply. Can use multiple.)

☐ Background ☒ Statewide Health ☐ Site-Specific ☐ Special Industrial Area

Proposed future property use - scenario for which the attainment of Statewide Health standard is demonstrated

☐ Residential ☒ Non-residential

List of contaminants

Soils

Chemical Name	CAS Number	Mass Contaminant Treated or Removed (lbs.)	Mass Contaminant Managed on Site (lbs.)
Benzene	71-43-2	4.05	
cumene	98-82-8	2.33	
Ethylbenzene	100-41-4	1.59	
1,2,4-trimethylbenzene	95-63-6	9.67	
1,3,5-trimethylbenzene	108-67-8	3.74	
toluene	108-88-3	3.75	
Xylenes	1330-20-7	9.97	
Anthracene	120-12-7	0.007	
Benzo(a)anthracene	56-55-3	0	
Benzo(a)pyrene	50-32-8	0.003	

Groundwater

Chemical Name	CAS Number	Mass Contaminant Treated or Removed (lbs.)	Mass Contaminant Managed on Site (lbs.)
Soils Continued:			
Benzo(b)fluoranthene	205-99-2	0.003	
Benzo(g,h,i)perylene	191-24-2	0.024	
Chrysene	218-01-9	0.209	
Fluorene	86-73-7	0.566	
Naphthalene	91-20-3	1.746	
Phenanthrene	85-01-8	1.232	
Pyrene	129-00-0	0.149	

Remediation

Number of sampling rounds for groundwater attainment: NA

Special Features

Non-use aquifer approval date: NA

Area-wide background approval date: NA

Amount of waste removed other than soil or groundwater (cubic yards): NA

☐ **Municipal ordinance prohibiting groundwater use:**

☒ **Post remediation care plan:**

In accordance with Sections III.E.3, IV.A, and IV.H of the Land Recycling Program Technical Guidance Manual (PADEP 2021), institutional and, as needed, engineering controls will be implemented as part of a post-remediation care plan to maintain attainment of the SHS, in the event that occupied buildings are planned in proximity to the Site. The 2020 First Amendment to the 2012 Buyer-Seller Agreement, requires PESRM to install vapor barriers or other vapor mitigation controls as part of constructing any buildings or structures at the Site, or, alternatively, to conduct sampling and analysis to demonstrate that such controls are not needed to mitigate potential vapor intrusion into such buildings or structures in accordance with PADEP guidance.

Other Programs

☐ Key Site

☐ Multi-site Agreement; Date: _____

☐ Enterprise Zone

☒ Keystone Opportunity Zone

Administrative

☒ Municipality request for public involvement plan

Deed notification

☐ Deed acknowledgment:

☐ Environmental covenant:

Cleanup cost ($): 50,000

Jobs created/saved: NA

Narrative: Provide property history and description, site characterization findings, site description, summary of remediation, summary of attainment demonstration, description of pathway elimination, engineering and institutional controls, and benefits of land reuse, when applicable.

A release occurred on November 16, 2021 during decommissioning activities involving the removal of overhead pipelines adjacent to and west of AST PB 881. The pipeline that caused the release was associated with ASTs that were formerly used to store crude oil and was out of service for a decade or longer. The release resulted in three separate impacted areas approximately 640, 300, and 160 ft2, respectively. Following the initial release a prompt interim response, including shallow surface soil excavations, was completed. Additional excavation and sampling were performed in January and February 2022, May 2022, and November 2022. A total of 148 cubic yards of soil were removed from the Site for off-Site disposal. Based on results of attainment soil sampling, the identified constituent concentrations in soil following excavation demonstrate attainment of the nonresidential SHS via the 75%/10x method.

Remediator / Property Owner / Consultant. Complete the form below for *each* recipient obtaining a release of liability upon approval of the final report. Attach additional sheets as necessary.

Remediator

Contact Person/Title Anne R. Garr/Assistant Secretary | eFACTS Client ID* Facility ID No. 51-33620

Relationship to Site Owner | Client Type* LLC
(e.g. owner, remediator, participant in cleanup, consultant, etc.)

Phone Number (312) 283-4469 | Email Address agarr@hilcoglobal.com

Company Name Philadelphia Energy Solutions Refining and Marketing LLC | EIN or Federal ID #

Street Address 3144 W. Passyunk Avenue

City Philadelphia | State PA | Zip Code 19153

Property Owner

Contact Person/Title Anne R. Garr/Assistant Secretary | eFACTS Client ID* Facility ID No. 51-33620

Relationship to Site Owner | Client Type* LLC
(e.g. owner, remediator, participant in cleanup, consultant, etc.)

Phone Number (312) 283-4469 | Email Address agarr@hilcoglobal.com

Company Name Philadelphia Energy Solutions Refining and Marketing LLC | EIN or Federal ID #

Street Address 3144 W. PAssyunk Avenue

City Philadelphia | State PA | Zip Code 19153

Consultant

Contact Person/Title Kevin Long / Principal Consultant | eFACTS Client ID*

Relationship to Site Consultant | Client Type* Corporation
(e.g. owner, remediator, participant in cleanup, consultant, etc.)

Phone Number 609-236-8171, ext 93 | Email Address kevin.long@terraphase.com

Company Name Terraphase Engineering Inc. | EIN or Federal ID # *27-3543127*

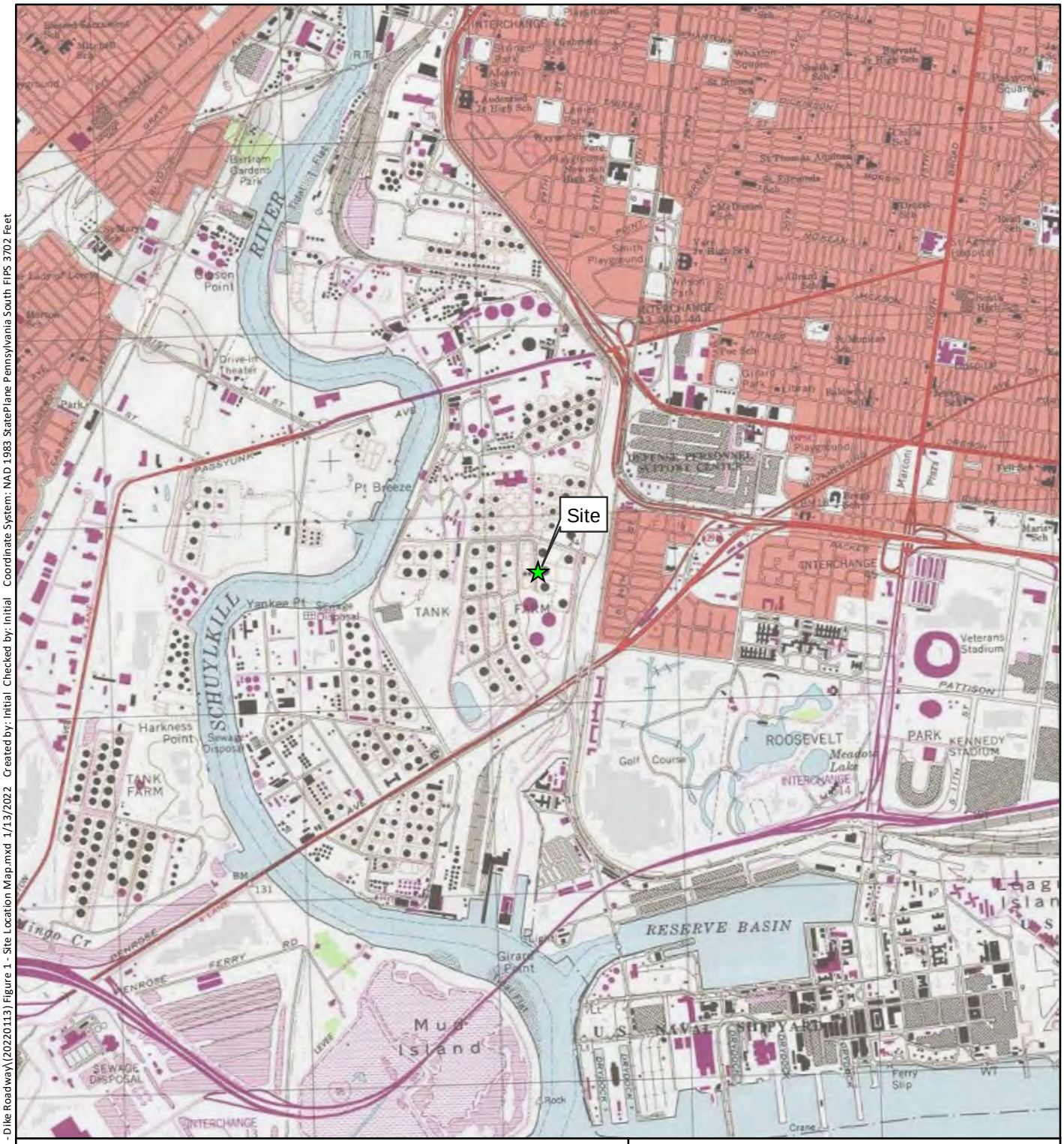
Street Address 100 Canal Pointe Blvd, Suite 110

City Princeton | State NJ | Zip Code 08540

*Include eFACTS Client ID (if known) – "Client Types" below:

Association/Organization	Limited Liability Company	Partnership-General
Authority	Limited Liability Partnership	Partnership-Limited
County	Municipality	School District
Estate/Trust	Non-Pennsylvania Government	Sole Proprietorship
Federal Agency	Other (Non-Government)	State Agency
Individual	Pennsylvania Corporation	

Attachments: In addition to the data entered in this FRS, the Department requests scanned image(s) of a map view of the site indicating, at a minimum, the boundaries of the "site" relative to the locations of the adjacent property boundaries. The location of the site (as defined by Act 2) is that which will receive the liability relief conveyed by Act 2, Chapter 5. The maps may portray other features but should clearly show the Act 2 site boundaries. You may also attach other applicable image files or attachments. These files should be in Adobe Acrobat (*.pdf), GIF (*.gif) or JPEG file interchange format (*.jpg).



0 2,500 5,000 Feet

1 inch = 2,500 feet

N

Legend

Site Location

Base Map: USGS Philadelphia (1995) 7.5 Minute Quadrangle.

SAFETY FIRST

terraphase engineering

CLIENT: Philadelphia Energy Solutions Refining and Marketing LLC

PROJECT: Pipeline Release Adjacent and West of PB 881 Dike Wall

PROJECT NUMBER: P044.001.005

Site Location Map

Figure 1

File: N:\GIS\Prj\P044.001_PESRM-PES\MXDs\Pipeline Release - Dike Roadway\(20220113) Figure 1 - Site Location Map.mxd 1/13/2022 Created by: Initial Checked by: Initial Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet

Note: Aerial imagery source Maxar 10/19/2019

0 60 120 Feet

1 inch = 60 feet

N

SAFETY FIRST

terraphase engineering

CLIENT:	Philadelphia Energy Solutions Refining and Marketing LLC
PROJECT:	Pipeline Release Adjacent and West of PB 881 Dike Wall
PROJECT NUMBER:	P044.001.005

Site Layout

Figure 2

File: N:\GIS\Pr\P044.001_PESRM-PES\MXDs\Pipeline Release - Dike Roadway\ForPIP\Figure 2 - Site Layout.mxd 7/14/2023 Created by: MLC Checked by: RKW Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet

DRAFT

Notification of Receipt of a Remedial Investigation and Final Report
(for Statewide health standard).
(Sections 302(e)(2), 303(h)(2))

Notice is hereby given that Philadelphia Energy Solutions Refining and Marketing LLC will submit a remedial investigation and final report to the Pennsylvania Department of Environmental Protection, Southeast Regional Office, to demonstrate attainment of the Statewide health standard for the Pipeline Release PB 881 Dike Roadway area (eFACTS 856437) within the Former Philadelphia Refinery located at 3144 West Passyunk Avenue, Philadelphia, Pennsylvania. Philadelphia Energy Solutions Refining and Marketing LLC has indicated that the remediation measures taken have attained compliance with the Statewide health cleanup standard established under the Land Recycling and Environmental Remediation Standards Act.

This notice is made under the provision of the Land Recycling and Environmental Remediation Standards Act, the Act of May 19, 1995, P.L. #4, No. 2.

The Philadelphia Inquirer
100 S. INDEPENDENCE MALL W, STE 600, PHILADELPHIA, PA 19106

Affidavit of Publication

On Behalf of:
TERRAPHASE ENGINEERING
1100 E HECTOR ST
SUITE 416
CONSHOHOCKEN, PA 19428

STATE OF PENNSYLVANIA COUNTY OF PHILADELPHIA:

Before the undersigned authority personally appeared the undersigned who, on oath represented a and say: that I am an employee of The Philadelphia Inquirer, LLC, and am authorized to make this affidavit of publication, and being duly sworn, I depose and say:

1. The Philadelphia Inquirer, LLC is the publisher of the Philadelphia Inquirer, with its headquarters at 100 S. Independence Mall West, Suite 600, Philadelphia, PA 19106.
2. The Philadelphia Inquirer is a newspaper that which was established in in the year 1829, since which date said daily newspaper has been continuously published and distributed daily in the City of Philadelphia, count and state aforesaid.
3. The printed notice or publication attached hereto set forth on attached
hereto was published in all regular print editions of
The Philadelphia Inquirer on

Legal Notices

as published in **Inquirer Legals** in the issue(s) of:

2/29/2024

4. Under oath, I state that the following is true and correct, and that neither I nor The Philadelphia Inquirer, LLC have any is interest in the subject matter of the aforesaid notice or advertisement.

Helene Sweeney

Nancy S. Fisher

Notary Public

My Commission Expires:

Commonwealth of Pennsylvania - Notary Seal
Nancy S Fisher, Notary Public
Philadelphia County
My Commission Expires June 27, 2027
Commission Number 1433937

Ad No: 157780
Customer No: 104799

COPY OF ADVERTISEMENT

Notification of Receipt of a Remedial Investigation and Final Report
(for Statewide health standard).
(Sections 302(e)(2), 303(h)(2))

Notice is hereby given that Philadelphia Energy Solutions Refining and Marketing LLC will submit a remedial investigation and final report to the Pennsylvania Department of Environmental Protection, Southeast Regional Office, to demonstrate attainment of the Statewide health standard for the Pipeline Release PB 881 Dike Roadway area (eFACTS 856437) within the Former Philadelphia Refinery located at 3144 West Passyunk Avenue, Philadelphia, Pennsylvania. Philadelphia Energy Solutions Refining and Marketing LLC has indicated that the remediation measures taken have attained compliance with the Statewide health cleanup standard established under the Land Recycling and Environmental Remediation Standards Act.

This notice is made under the provision of the Land Recycling and Environmental Remediation Standards Act, the Act of May 19, 1995, P.L. #4, No. 2.

terraphase engineering

February 28, 2024

Ms. Leigh Anne Rainford
Program Manager
Philadelphia Department of Public Health
Public Health Services
321 University Avenue – 2nd Floor
Philadelphia, PA 19104

sent via email to LeighAnne.Rainford@Phila.gov and UPS, Proof of Delivery Requested

Subject: **Notice of Remedial Investigation and Final Report Submission (eFACTS 856437)**
Pipeline Release PB 881 Dike Roadway – Point Breeze South Yard
Former Philadelphia Energy Solutions Refinery
3144 West Passyunk Avenue
Philadelphia, PA 19153

Dear Ms. Rainford:

This letter provides notice that Terraphase Engineering Inc. (Terraphase), on behalf of Philadelphia Energy Solutions Refining and Marketing LLC (PESRM), will submit a remedial investigation and final report to the Department of Environmental Protection for the Pipeline Release PB 881 Dike Roadway area (eFACTS 856437) within the Former Philadelphia Refinery located at 3144 West Passyunk Avenue, Philadelphia, Pennsylvania. The remedial investigation and final report indicates that the remediation performed has attained compliance with the Statewide health cleanup standard.

This notice is made under the provision of the Land Recycling and Environmental Remediation Standards Act, the Act of May 19, 1995, P.L. 4, No. 2.

Sincerely,

for Terraphase Engineering Inc.

Kevin L. Long
Principal Consultant

KL:cs

cc: Julianna Connolly (jconnolly@hilcoglobal.com)
Amy Piccone (apiccone@hilcoglobal.com)

Proof of Delivery

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number

1Z75YA670124103758

Weight

0.50 LBS

Service

UPS Next Day Air®

Shipped / Billed On

02/27/2024

Delivered On

02/29/2024 10:23 A.M.

Delivered To

PHILADELPHIA, PA, US
Received By

BROWN

Please print for your records as photo and details are only available for a limited time.

Sincerely,

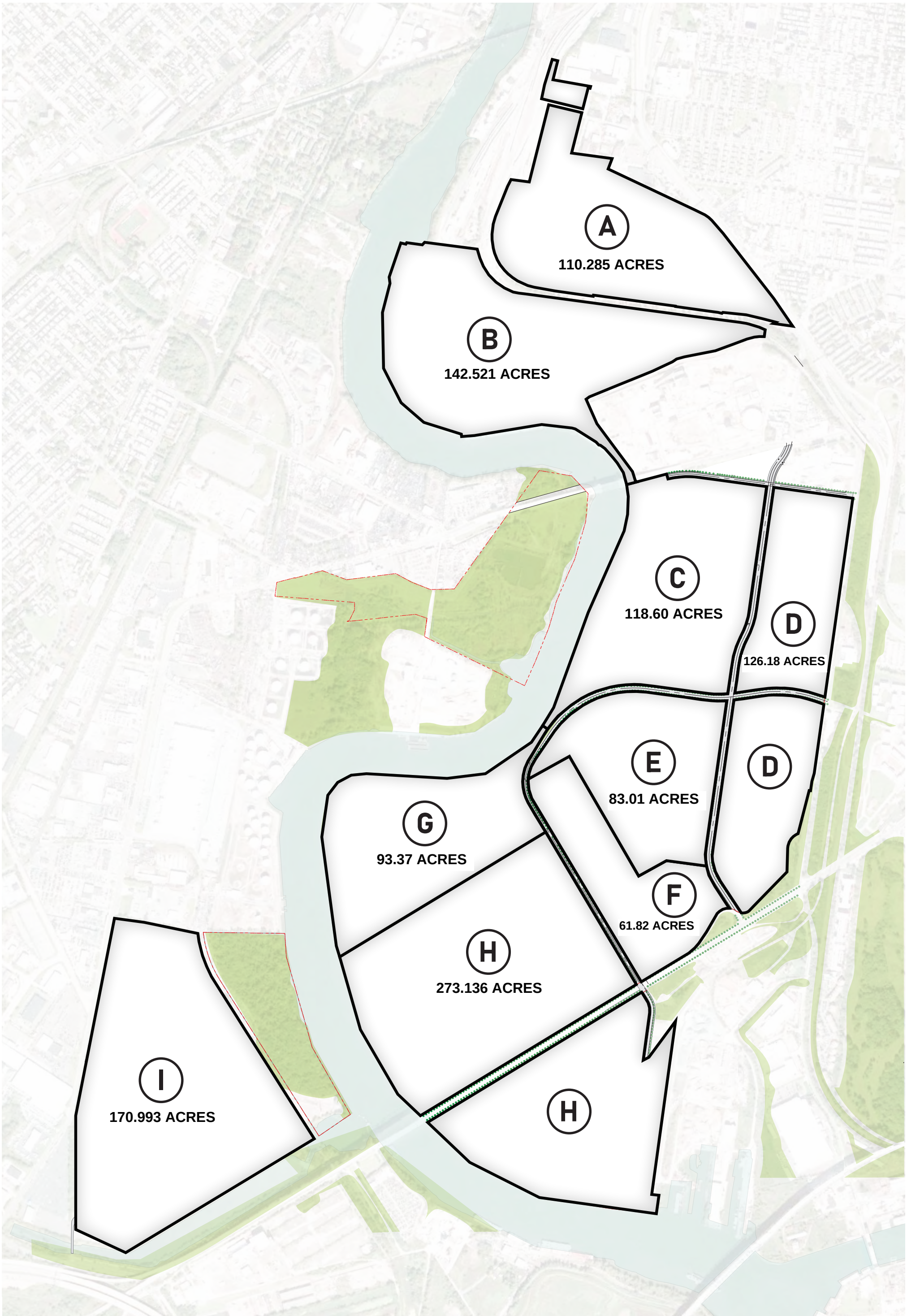
UPS

Tracking results provided by UPS: 02/29/2024 1:03 P.M. EST

Appendix B

Parcel Map

INDIVIDUAL PARCEL MAP



HRP

The Bellwether District
AN HRP PROJECT

Appendix C

NorthStar Interim Response Documentation

Arial view of the areas impacted by the release

= AST Registration permit application submitted to amend the AST to “R” Removed Status.

DATE 11/16/2021

AREA Adjacent to and west of AST PB-881 Dike Wall & contained in gutter between Dike Roadway

Release emanated from what is understood to be a pipeline understood to be out of service for a decade or longer

ESTIMATE THE LENGTH AND WIDTH OF THE SPILL IN FEET

AREA 1

LENGTH in feet	8.00
WIDTH in feet	80.00
DEPTH in inches	1.25000

FORMULA							
LENGTH	X	WIDTH	X	DEPTH(IN) / 12	X	7.48	= GALLONS
8		80		0.104166667		7.48	498.67

AREA 2

LENGTH in feet	30.00
WIDTH in feet	10.00
DEPTH in inches	1.5000

FORMULA							
LENGTH	X	WIDTH	X	DEPTH(IN) / 12	X	7.48	= GALLONS
30		10		0.125		7.48	280.50

AREA 3

LENGTH in feet	8.00
WIDTH in feet	20.00
DEPTH in inches	3.5000

FORMULA							
LENGTH	X	WIDTH	X	DEPTH(IN) / 12	X	7.48	= GALLONS
8		20		0.291666667		7.48	349.07

Dimensional Perspective

If dipping a known length (such as a ruler) into the liquid is not feaasible the following information can be used as a reference for estimating the depth of liquid.

1/32 ”	= 0.03125”	a film of hydrocarbons
1/16 ”	= 0.0625”	thickness of a penny
3/16 ”	= 0.1875”	width of a typical ball point pen
1/2 ”	= 0.5”	length of a thumbnail

Note: PB 881 = Reg. # 011A & AMS # P-599(PB)

1128.23 TOTAL GALLONS

26.86 TOTAL BBLS

Photograph 1:

- November 2021 Excavation, Suspected Area 1 Release (NorthStar)
- Photo appears to have been taken facing north, with tank berms to the east. The debris from Photograph 2 is not visible, so this is assumed to be north of Area 2
- File name: Solocator-2021-11-16-13-03-00.jpg

Date: [November 16, 2021]

Photograph 2:

- November 2021 Excavation, Area 2 Release (NorthStar)
- File name: Solocator-2021-11-16-12-58-12 (1).jpg

Date: [November 16, 2021]

Photograph 3:

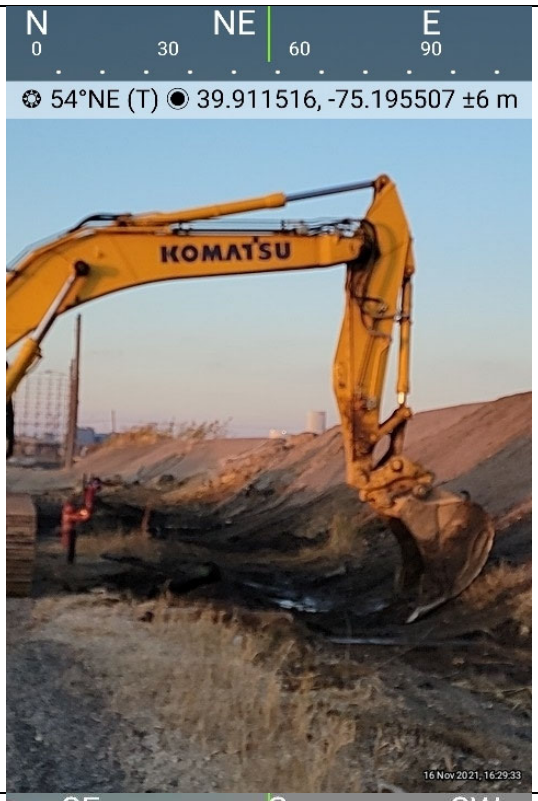
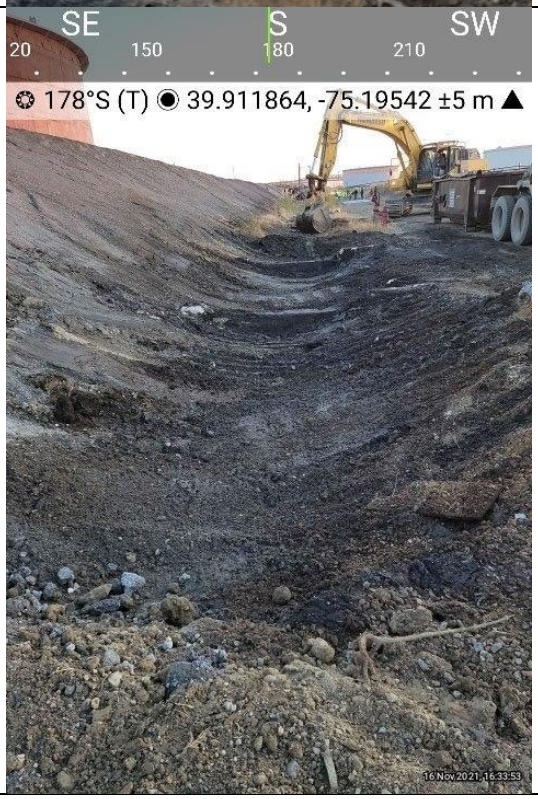
- November 2021 Excavation, Unknown Area Release (NorthStar)
- File name: Solocator-2021-11-16-13-03-07.jpg

Date: [November 16, 2021]

Photograph 4:

- November 2021 Excavation, Unknown Area Release (NorthStar)
- File name: Solocator-2021-11-16-13-03-07.jpg

Date: [November 16, 2021]

		**Photograph 5:** • November 2021 Excavation, Area 1 Excavation (NorthStar) • File name: Solocator-2021-11-16-16-29-33 (1).jpg Date: [November 16, 2021]
		**Photograph 6:** • November 2021 Excavation, Area 1 Excavation (NorthStar) • File name: Solocator-2021-11-16-16-33-53 (1).jpg Date: [November 16, 2021]

Photograph 7:

- November 2021 Excavation, Suspected Area 1 Excavation (NorthStar)
- Photo appears to have been taken facing north, with the 870 Unit to the west. Appears to be the northernmost excavation
- File name: TimePhoto_20211118_165318

Date: [November 18, 2021]

Photograph 8:

- November 2021 Excavation, Suspected Area 3 Excavation (NorthStar)
- Photo appears to be taken facing south, showing Platt bridge. Not suspected to be Area 1 because Photograph 7 does not show a concrete block in the berm.
- File name: Solocator-2021-11-18-16-26-00.jpg

Date: [November 18, 2021]

Photograph 9:

- November 2021 Excavation, Area 2 Excavation (NorthStar)
- File name: Solocator-2021-11-18-16-24-40 (1).jpg

Date: [November 18, 2021]

Photograph 10:

- November 2021 Excavation, Area 2 Excavation (NorthStar)
- File name: Solocator-2021-11-16-17-31-34 (1).jpg

Date: [November 16, 2021]

Photograph 11:

- November 2021 Excavation, Unknown Area Soil Staging
- File name: Solocator-2021-11-16-17-12-02.jpg

Date: [November 16, 2021]

Photograph 12:

- November 2021 Excavation, Area 1 Soil Sampling Location
- File name: 20211119_123029.jpg

Date: [November 19, 2021]

Photograph 13:

- November 2021 Excavation, Area 2 Soil Sampling Location
- File name: 20211119_123633.jpg

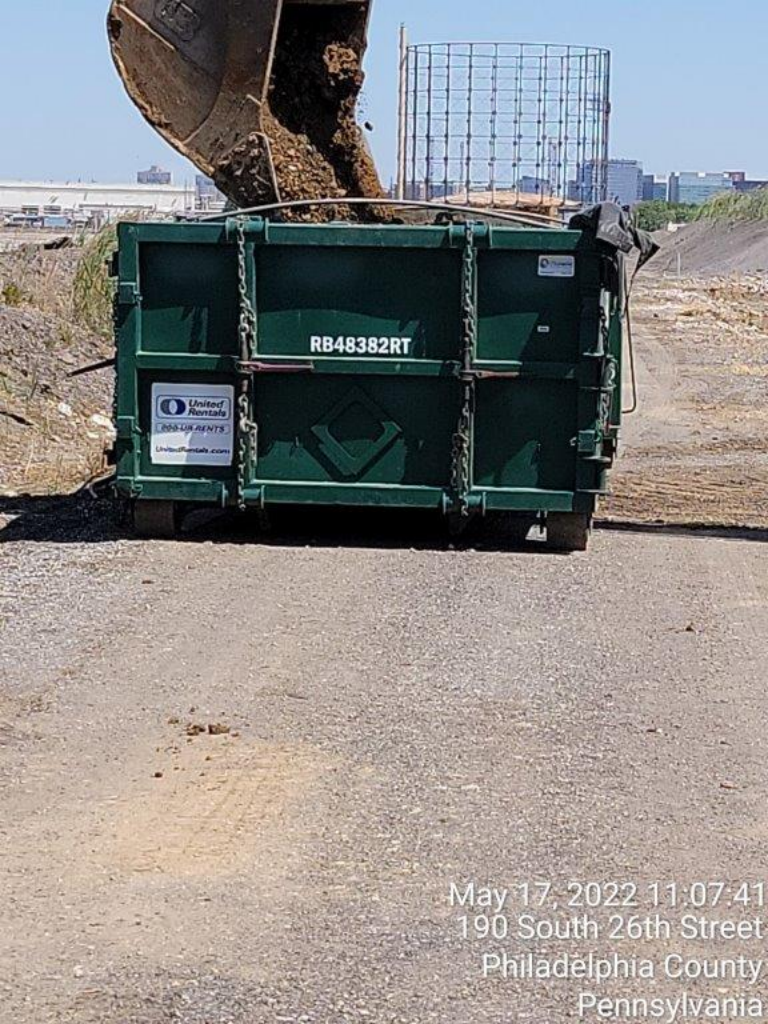
Date: [November 19, 2021]

Photograph 14:

- November 2021 Excavation, Area 2 Soil Sampling Location
- File name: 20211119_123715.jpg

Date: [November 19, 2021]


May 17, 2022 11:07:32
190 South 26th Street
Philadelphia County
Pennsylvania


RB48382RT
United Rentals
May 17, 2022 11:07:41
190 South 26th Street
Philadelphia County
Pennsylvania


May 17, 2022 11:13:56
2604R Penrose Avenue
Philadelphia County
Pennsylvania

DAILY REPORT #5122005-06

Report Number:	06	**Project Number:**	5122005	**Today's Weather:**		**Date:**	Tuesday, November 8, 2022
Project Name:	PESRM LLC (Crude Release - Remedial Action)			**Wind Direction:**	West 12mph	**Site Phone:**	215-339-5400
Location of Work:	3144 Passyunk Avenue, Philadelphia. PA 19145			**High Temperature:**	58	**Description:**	sunny, N winds 10-15mph gusting to 25
Project Manager:	Bob Armstrong			**Low Temperature:**	38	**Branch Manager:**	Gary Bowman

NorthStar Personnel:

Employee / Title:	Hours	Employee:	Hours		Comments / Remarks
Bob Armstrong / Sr. PM	10				
Chris Dolan / Asst. PM	8				
James Galloway / EO	8				
Carlos Aponte Sierra / Laborer	8				
Mike Lamp / Site H&S Manager	6				
Josh Suboyu / Lab Tech	2			**Total Daily Man Hrs.**	
				42	

Subcontractors:

Subcontractor Name:	# Personnel on Site	Hours	Daily Hrs.		Comments / Remarks
Ransom	1	8		**Total Daily Man Hrs.**	**Hrs. only reflect excavation and sample collection activities. (does not include sample preparation time)**
				0	

Equipment:

Equipment #	Description	Owned	Rental	Comments / Remarks
Ford 1/2 ton	Rental Vehicle		X	
26	Pick-up 1/2 ton	X		
PU-30	Pick-up 1/2 ton	X		
RO-2	Roll-Off Truck (straight frame)	X		
PC 210	Komatsu Excavator	X		
RB48457RT	25 yd^3 Roll-off		X	Roll-off rent starts on 11/8/22
RBR251673	25 yd^3 Roll-off		X	Roll-off rent starts on 11/8/22
RB36576RT	25 yd^3 Roll-off		X	Roll-off rent starts on 11/8/22
RB471856RT	25 yd^3 Roll-off		X	Roll-off rent starts on 11/8/22

Backfill / Aggregate

Type	Gross	Tare	Net	Ticket #	Comments / Remarks
	0.00	0.00	0.00		
	0.00	0.00	0.00		
	0.00	0.00	0.00		
	0.00	0.00	0.00		

Analytical Samples Collected:

Type	Collected By	Matrix	Sample ID	Comments / Remarks
Waste Charaterization	JS	Soil	DRA3-3-RB48457RT-WC-2022-11-9	**Each roll-off is a separate sample. Each sample is a composite from within that roll-off with 5 representative grabs collected and homogenized from each corner and the middle of the container**
Waste Charaterization	JS	Soil	DRA3-3-RBR252673-WC-2022-11-9	
Waste Charaterization	JS	Soil	DRA3-3-RB36576RT-WC-2022-11-9	
Waste Charaterization	JS	Soil	DRA3-3-RB47185RT-WC-2022-11-9	
Confirmation Samples	Ransom	soil	See COC from Ransom	Ransom collected terracore samples for confirmation and sent them to Alpha under their account.

Work Performed Today by NorthStar:

Mobilized equipment and crew from other site activities to the site of the Crude oil release that occurred initially on 11/16/2021

Met with Ransom field tech and reviewed the area outlined for further excavation

Area was to be excavated to an additional depth of 2' from grade. (grade being the base of the previous two excavatons that took place during the intial remedial action and then again in May of 2022

The area was excavated to tan additional depth of 6' to 12' as directed by Ransom Field Tech and was based on his field screenings for Benzene, the only analyte with a level above state cleanup criteria

4 roll-off containers were loaded with the excavated soils staged in the area adjacent to Tank GP-273 , samples collected and will be sent to the lab for waste characterization

11/11/2022 installed poly to mitigate effect of forecast rain event

Health and Safety

Discussed Slips trips and falls, safe excavation procedures, swing radius of the excavator and proper roll-off loadfing and use of a ground guide while backing the roll-off truck into the area to drop the container for loading.

Equipment inspections were completed as well as a review of the current emergency procedures and phone numbers to be used in the event ofd an injury or incident

Work Performed Today by Lower-Tier Subcontractors or Others:

Ransom: provided delineation of the excavation area and field screening. Upon completion of the excavation Ransom collected confirmation samples, prepared and shipped to the lab for analysis.

Requests for Information / Verbal Instructions Received today:

PM Armstrong rtequested guidance from A. Piicone regarding wheterh to provide a poly sheeting barrier over the exposed surface of the excavation to prevent contact with stormwater runnoff from during forecated rain events for 11/11/ and 11/12/2022. / A. Piccone will speak with J. Jeray and revert. Poly installation wastentatively scheduled for Friday maonring before the rain event

Daily Inspections

Type	Y/N	Comments	Type	Y/N	Comments
Equipment Inspection	**Y**	No deficiencies noted			

Materials Received / Consumables

Product / Description	Qty	UOM	Type	Received	UOM

Work Compl;eted / Work Planned

The work is not completed. Additional excavation may be required based on the confirmation samnple results. If results are acceptable the area will be backfilled.

Report completed by : Bob Armstrong **Sign:** _____ **Date: 11/8/202** **Report Invoiced:** _____ **Invoice #:**_____ **Invoice Date:**_____

Sign

Crude Line Release adjacent to PB 881
3rd Remedial Excavation
Job # 5122005

PESRM LLC
Photo Log 11-08-2022

Looking west

Looking West

Crude Line Release adjacent to PB 881
3rd Remedial Excavation
Job # 5122005

PESRM LLC
Photo Log 11-08-2022

Looking North

Poly insalled in advance of rain event keyed in and sloped to prevent runoff into excavation

Appendix D

Disposal Documentation

R&B DEBRIS, LLC

5900 Sylon Blvd
Hainesport, NJ 08036

Invoice

Date	Invoice #
1/24/2022	26008

Bill To

NorthStar Contracting Group, Inc
Attn:Accounts Payable
2250 E. Adams Avenue
Philadelphia, PA 19124

Approved
5120108-6013

Project	P.O. No.	Terms	Due Date
	5120101023	Net 60	3/25/2022

Date	Description	Tcktt/Manifest	Landfill Tckt	Qty	Rate	Amount
1/18/2022	Transportation of Non Hazardous Petroleum contaminated soil for recyling	151261	299190	1	650.00	650.00
1/18/2022	Recycling of Non Hazardous Petroleum contaminated soil			17.27	40.00	690.80
1/18/2022	Transportation of Non Hazardous Petroleum contaminated soil for recyling	151260	299221		650.00	650.00
1/18/2022	Recycling of Non Hazardous Petroleum contaminated soil			13.37	40.00	534.80
1/19/2022	Transportation of Non Hazardous Petroleum contaminated soil for recyling	151267	299263	1	650.00	650.00
1/19/2022	Recycling of Non Hazardous Petroleum contaminated soil			17.22	40.00	688.80

Please remit payment to R&B Debris LLC

Phone #	Fax #	E-mail
609-261-8036	609-667-7968	kthomas@rbdebris.com

Total	$3,864.40
Payments/Credits	$0.00
Balance Due	$3,864.40

PURE SOIL TECHNOLOGIES
P.O. Drawer 43
Farmingdale, NJ 07727
Phone: 732.308.1113 Fax: 732.462.9626

151261

Weigh Scale Ticket #
 # escala de boleto

NON-HAZARDOUS MATERIAL MANIFEST

You must return 4 copies of this manifest upon delivery.

SITE INFORMATION

Site Name: PES
Address: 3144 PASSYUNK AVE
City, State, Zip: PHILADELPHIA, PA 19145

AGENT / CONSULTANT

Name: R&B DEBRIS LLC
Contact Name: PATRICK DURIA
Phone: (609) 261-8036

Approval Number	Description of Material	** *Must be Initialed By Authorized Agent.*	SITE	**INITIALS
2112037	Non-Haz Contaminated Soil (DRA 1-4) Truck # 81 Roll-off # RB36777RT	Time Arrive:		
		Time Depart:		

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Joshua Suboyv — Generator/Authorized Agent Name (Print)
Authorized Agent for PESRM LLC
Signature
01-18-22. — Shipment Date

TRANSPORTER

Transporter Name: Liberty Waste
Address: 876-N Lelona NJ
City, State, Zip: Moorestown NJ 08057

Driver Name (Print): Steve Diaz
Vehicle License No/State/EPA No.: NJ (AU625T)
Truck Number: 81

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Signature — 1/18/2022 — Date

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature — 1/18/2022 — Date

DESTINATION

Site Name: PURE SOIL TECHNOLOGIES
Phone: (732) 657-8651
Address: 655 SOUTH HOPE CHAPEL ROAD, JACKSON, NJ 08527

Business hours are: Monday through Friday 7 AM to 5 PM. Saturday By Appointment Only.

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent
Signature
1/18/22 — Receipt Date

Form: PST CB

BILLING COPY

puresoil

Pure Soil Technologies
655 SOUTH HOPE CHAPEL RD
JACKSON, NJ O8527
732-657-8551

CUSTOMER NO: 3860

TICKET NO: **299190**
DATE: 01/18/22
TIME: 09:27 AM

CUSTOMER:
R&B DEBRIS LLC
5900 SYLON BLVD
HAINESPORT NJ 08060
609-261-8036

JOB NO: 2112037
QUOTE NO: 2112-039

MANIFEST NO: 151261

JOB NAME:
PES
3144 PASSYUNK AVE
PHILADELPHIA PA 19145

PRODUCT: JR66
JR66 SOIL

CARRIER: LIBERTY WASTE
TRUCK NO: LIB81
LIC. PLATE: AU625T

DAILY LOADS	METRIC	TONNAGE	METRIC (MG)		ENGLISH (TN)
1	15.67	17.27	33.52 Mg	GROSS	36.95 TN
TO-DATE LOADS	METRIC	TONNAGE	17.85 Mg	TARE	19.68 TN
7	73.04	80.51	15.67 Mg	NET	17.27 TN

*= manual weight

RATE: $0.00
TAX: $0.00

TOTAL: $0.00

RECIEVED BY: _____
WEIGHMASTER: JAMES MATTHEWS NJWMS #31489

PURE SOIL TECHNOLOGIES
P.O. Drawer 43
Farmingdale, NJ 07727
Phone: 732.308.1113 Fax: 732.462.9626

151260

Weigh Scale Ticket #
 # escala de boleto

NON-HAZARDOUS MATERIAL MANIFEST

You must return 4 copies of this manifest upon delivery.

SITE INFORMATION

Site Name: PES
Address: 3144 PASSYUNK AVE
City, State, Zip: PHILADELPHIA, PA 19145

AGENT / CONSULTANT

Name: R&B DEBRIS LLC
Contact Name: PATRICK DURIA
Phone: (609) 261-8036

Approval Number	Description of Material	** *Must be Initialed By Authorized Agent.*	SITE	**INITIALS
2112037	Non-Haz Contaminated Soil (PRA 1-2) Truck # 81 Roll-off # RB44047RT	Time Arrive:		
		Time Depart:		

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Robert Amsden — Generator/Authorized Agent Name (Print)
Authorized Agent for PESRM LLC — Signature
01/18/2022 — Shipment Date

TRANSPORTER

Transporter Name: Liberty Waste
Address: 876 N Kenola Rd
City, State, Zip: Moorestown NJ

Driver Name (Print): Steven Dilly
Vehicle License No/State/EPA No.: AV 625T / NJ
Truck Number: 81

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Signature — Date: 1/18/22

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature — Date: 1/18/22

DESTINATION

Site Name: PURE SOIL TECHNOLOGIES
Phone: (732) 867-8661
Address: 655 SOUTH HOPE CHAPEL ROAD, JACKSON, NJ 08527

Business hours are: Monday through Friday 7 AM to 5 PM. Saturday By Appointment Only.

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent — Signature — Receipt Date: 1/18/22

Form: PST CB

BILLING COPY

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 15267A

Date: 01-18-22

Scrap

Sold to: L

Location:

Carrier:

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade
- ☐ Other Alloy, Grade
- ☐ Mixed
- ☐ Other:

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:

Scale Ticket #:

Gross Weight: 65600 lbs.

Tare Weight: lbs

Net Weight: lbs

NorthStar Rep. Signature:

Received By:

Non-Haz / ACM / Special Waste

Activity Location: Laydown Area

Waste Stream

Oil Contaminated Soil

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: Pure Soil Tech.

Carrier: Liberty

Truck #: 81

Container #: RB44047RT

Manifest #: 151260

Profile / Approval #: 2112037.

Scale Info

Scale Ticket #:

Gross Weight: 65000 lbs

Tare weight: 35000 lbs

Net weight: 30600 lbs.

Net Kilogram Conversion (PCB Only):

NorthStar Rep. Signature:

puresoil

Pure Soil Technologies
655 SOUTH HOPE CHAPEL RD
JACKSON, NJ O8527
732-657-8551

CUSTOMER NO: 3860

TICKET NO: **299221**
DATE: 01/18/22
TIME: 01:30 PM

CUSTOMER:
R&B DEBRIS LLC
5900 SYLON BLVD
HAINESPORT NJ 08060
609-261-8036

JOB NO: 2112037 QUOTE NO: 2112-039

MANIFEST NO: 151260
PRODUCT: JR66
JR66 SOIL

JOB NAME:
PES
3144 PASSYUNK AVE
PHILADELPHIA PA 19145

CARRIER: LIBERTY WASTE TRUCK NO: LIB81 LIC. PLATE: AU625T

			METRIC (MG)		ENGLISH (TN)
DAILY LOADS	METRIC	TONNAGE	29.77 Mg	GROSS	32.81 TN
2	27.80	30.64	17.64 Mg	TARE	19.44 TN
TO-DATE LOADS	METRIC	TONNAGE	12.13 Mg	NET	13.37 TN
8	85.17	93.88			

*= manual weight

RATE: $0.00
TAX: $0.00

TOTAL: $0.00

RECIEVED BY: _____
WEIGHMASTER: JAMES MATTHEWS NJWMS #31489

PURE SOIL TECHNOLOGIES
P.O. Drawer 43
Farmingdale, NJ 07727
Phone: 732.308.1113 Fax: 732.462.9626

151267

Weigh Scale Ticket #
 # escala de boleto

NON-HAZARDOUS MATERIAL MANIFEST

You must return 4 copies of this manifest upon delivery.

SITE INFORMATION

Site Name: PES
Address: 3144 PASSYUNK AVE
City, State, Zip: PHILADELPHIA, PA 19145

AGENT / CONSULTANT

Name: R&B DEBRIS LLC
Contact Name: PATRICK DURDA
Phone: (609) 261-8035

Approval Number	Description of Material
2112037	Non-Haz Contaminated Soil RA (PA #3-5) Truck # Roll Off #RB3677ART

** *Must be Initialed By Authorized Agent.*

	SITE	**INITIALS
Time Arrive:		
Time Depart:		

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Robert Durda — Signature — 01-19-22
Generator/Authorized Agent Name (Print) — Shipment Date
Authorized Agent for PESEM LLC

TRANSPORTER

Transporter Name: Liberty Waste
Address: 476 N Lenola Rd
City, State, Zip: Moorestown NJ 08057

Driver Name (Print): S Dicks
Vehicle License No/State/EPA No.: AV 625T
Truck Number: 81

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Signature — 01/19/22 Date

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature — 01/19 Date

DESTINATION

Site Name: PURE SOIL TECHNOLOGIES
Phone: (732) 657-8551
Address: 855 SOUTH HOPE CHAPEL ROAD, JACKSON, NJ 08527

Business hours are: Monday through Friday 7 AM to 5 PM. Saturday By Appointment Only.

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent — Signature — Receipt Date

puresoil

Pure Soil Technologies
655 SOUTH HOPE CHAPEL RD
JACKSON, NJ 08527
732-657-8551

CUSTOMER
R&B DEBRIS LLC
5900 SYLON BLVD
HAINESPORT NJ 08060
609-261-8036

CUSTOMER NO: 3860

TICKET NO: 299263
DATE: 01/19/22
TIME: 02:02 PM

JOB NAME
PES
3144 PASSYUNK AVE
PHILADELPHIA PA 19145

JOB NO: 2112037

QUOTE NO: 2112-039

MANIFEST NO: 151267
PRODUCT: JR66
JR66 SOIL

CARRIER: LIBERTY WASTE

TRUCK NO: LIB81

LIC PLATE: AU625T

DAILY LOADS	METRIC	TONNAGE
1	15.62	17.22
TO-DATE LOADS	METRIC	TONNAGE
9	100.79	111.10

	METRIC (MG)		ENGLISH (TN)
	33.46 Mg	GROSS	36.88 TN
	17.84 Mg	TARE	19.66 TN
	15.62 Mg	NET	17.22 TN

* = manual weight

RATE: $0.00
TAX: $0.00

TOTAL: $0.00

RECIEVED BY: _____

WEIGHMASTER: JAMES MATTHEWS NJWMS #31489

Approved 02/02/2022
5120108-6013

R&B DEBRIS, LLC

5900 Sylon Blvd
Hainesport, NJ 08036

Invoice

Date	Invoice #
1/27/2022	26078

Bill To

NorthStar Contracting Group, Inc
Attn:Accounts Payable
2250 E. Adams Avenue
Philadelphia, PA 19124

Project	P.O. No.	Terms	Due Date
PES - 5120101023	5120101023	Net 90	4/27/2022

Date	Description	Tcktt/Manifest	Landfill Tckt	Qty	Rate	Amount
1/24/2022	Transportation of Non Hazardous Petroleum contaminated soil for recyling	151266	299409	1	650.00	650.00
1/24/2022	Recycling of Non Hazardous Petroleum contaminated soil			12.22	40.00	488.80

Please remit payment to R&B Debris LLC

Phone #	Fax #	E-mail
609-261-8036	609-667-7968	kthomas@rbdebris.com

Total	$1,138.80
Payments/Credits	$0.00
Balance Due	$1,138.80

PURE SOIL TECHNOLOGIES
P.O. Drawer 43
Farmingdale, NJ 07727
Phone: 732.308.1113 Fax: 732.462.9626

151266

Weigh Scale Ticket #
escala de boleto

NON-HAZARDOUS MATERIAL MANIFEST

You must return 4 copies of this manifest upon delivery.

SITE INFORMATION

Site Name: PES
Address: 3144 PASSYUNK AVE
City, State, Zip: PHILADELPHIA, PA 19145

AGENT / CONSULTANT

Name: R&B DEBRIS LLC
Contact Name: PATRICK DURIA
Phone: (609) 261-8036

Approval Number	Description of Material	** Must be Initialed By Authorized Agent.
2112037	Non-Haz Contaminated Soil ~~(885 Release)~~ RIA (PRA2-1) Truck # 81 ~~R/1654~~ # AB44779RT	SITE / **INITIALS Time Arrive: ____ ____ Time Depart: ____ ____

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Robert Armsby — Generator/Authorized Agent Name (Print)
Authorized Agent for PESRM LLC
[signature] — Signature
01-24-22 — Shipment Date

TRANSPORTER

Transporter Name: Liberty Waste
Address: 876 N Lenola Rd
City, State, Zip: Moorestown NJ 08057

Driver Name (Print): Steve Dicy
Vehicle License No/State/EPA No.: AU625T
Truck Number: 81

I hereby certify that the above named material was picked-up at the generator site listed above.

[signature] — Driver Signature
01/15/22 — Date
01-24-22

I hereby certify that the above named material was delivered without incident to the destination listed below.

[signature] — Driver Signature
1/19/22 — Date
01-24-22

DESTINATION

Site Name: PURE SOIL TECHNOLOGIES
Phone: (732) 657-8551
Address: 655 SOUTH HOPE CHAPEL ROAD, JACKSON, NJ 08527

Business hours are: Monday through Friday 7 AM to 5 PM. Saturday By Appointment Only.

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent
[signature] — **Signature**
1/24/22 — **Receipt Date**

Form: PST CB

PROFILE COPY

puresoil

Pure Soil Technologies
655 SOUTH HOPE CHAPEL RD
JACKSON, NJ O8527
732-657-8551

CUSTOMER:
R&B DEBRIS LLC
5900 SYLON BLVD
HAINESPORT NJ 08060
609-261-8036

CUSTOMER NO: 3860

TICKET NO: ***299409***
DATE: 01/24/22
TIME: 10:31 AM

JOB NAME:
PES
3144 PASSYUNK AVE
PHILADELPHIA PA 19145

JOB NO: 2112037

QUOTE NO: 2112-039

MANIFEST NO: 151266
PRODUCT: JR66
JR66 SOIL

CARRIER: LIBERTY WASTE

TRUCK NO: LIB60

LIC. PLATE: AU678X

DAILY LOADS	METRIC	TONNAGE	METRIC (MG)		ENGLISH (TN)
1	11.09	12.22	27.25 Mg	GROSS	30.04 TN
TO-DATE LOADS	METRIC	TONNAGE	16.17 Mg	TARE	17.82 TN
10	111.88	123.32	11.09 Mg	NET	12.22 TN

*= manual weight

RATE: $0.00
TAX: $0.00

TOTAL: $0.00

RECIEVED BY: _____

WEIGHMASTER: JAMES MATTHEWS NJWMS #31489

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 15422A

Date: 01-24-22.

Scrap

Sold to: _____

Location: _____

Carrier: _____

Steel / Ferrous

- ☐ No. 1 P&S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other _____

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade _____
- ☐ Other Alloy, Grade _____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other: _____

Scale Ticket #: _____

Gross Weight: _____

Tare Weight: _____

Net Weight: _____

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: Laydown Area

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Oil Contaminated Soil

Disposal Facility: Pure Soil Tech

Carrier: Liberty

Truck #: 81

Container #: RB44779RT

Manifest #: 151766

Profile / Approval #: 2112037

Scale Info

Scale Ticket #: _____

Gross Weight: 60740 lbs

Tare weight: 35000 lbs

Net weight: 25740 lbs.

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____

Approved
02/07/2022
5120108-6013

R&B DEBRIS, LLC

5900 Sylon Blvd
Hainesport, NJ 08036

Invoice

Date	Invoice #
2/7/2022	26146

Bill To

NorthStar Contracting Group, Inc
Attn:Accounts Payable
2250 E. Adams Avenue
Philadelphia, PA 19124

Project	P.O. No.	Terms	Due Date
PES - 5120101023	5120101023	Net 60	4/8/2022

Date	Description	Tcktt/Manifest	Landfill Tckt	Qty	Rate	Amount
2/3/2022	Transportation of Non Hazardous Petroleum contaminated soil for recyling	151259	300022	1	650.00	650.00
2/3/2022	Recycling of Non Hazardous Petroleum contaminated soil			15.2	40.00	608.00
2/4/2022	Transportation of Non Hazardous Petroleum contaminated soil for recyling	151257	300022	1	650.00	650.00
2/4/2022	Recycling of Non Hazardous Petroleum contaminated soil			15.43	40.00	617.20

Please remit payment to R&B Debris LLC

Phone #	Fax #	E-mail
609-261-8036	609-667-7968	kthomas@rbdebris.com

Total	$2,525.20
Payments/Credits	$0.00
Balance Due	$2,525.20

NorthStar
Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 15792

Date: 02-03-22.

Scrap

Sold to: _____

Location: _____

Carrier: _____

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other _____

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade _____
- ☐ Other Alloy, Grade _____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)

Non-Haz / ACM / Special Waste

Activity Location: Laydown Area.

Waste Stream

Oil Contaminated Soil

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: _____

Carrier: Liberty

Truck #: 158

Container #: RB48382RT

Manifest #: 151259.

Profile / Approval #: 211037.

PURE SOIL TECHNOLOGIES
P.O. Drawer 43
Farmingdale, NJ 07727
Phone: 732.308.1113 Fax: 732.462.9626

151259

Weigh Scale Ticket #
escala de boleto

NON-HAZARDOUS MATERIAL MANIFEST

You must return 4 copies of this manifest upon delivery.

SITE INFORMATION

Site Name: ~~PES~~
Address: ~~3144 PASSYUNK AVE~~
City, State, Zip: ~~PHILADELPHIA, PA 19145~~

AGENT / CONSULTANT

Name: ~~R&B DEBRIS LLC~~
Contact Name: ~~PATRICK DURIA~~
Phone: ~~(609) 281-6836~~

Approval Number	Description of Material	** Must be Initialed By Authorized Agent.	SITE	**INITIALS
2112037	Non-Haz Contaminated Soil Roll off # RB4838287 DRAI-5	Time Arrive:		
		Time Depart:		

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Authorized Agent for PESEM LLC
Robert Auer
Generator/Authorized Agent Name (Print)

Signature

2/3/22
Shipment Date

TRANSPORTER

Transporter Name: Liberty Waste
Address: 576 Lords Rd
City, State, Zip: Moorestown NJ 08057

Driver Name (Print): Steve D.
Vehicle License No/State/EPA No.: [illegible]
Truck Number: 158

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Signature

2/3/22
Date

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature

2/3/22
Date

DESTINATION

Site Name: PURE SOIL TECHNOLOGIES
Phone: ~~(732) 857-2561~~
Address: ~~855 SOUTH HOPE CHAPEL ROAD, JACKSON, NJ 08527~~

Business hours are: Monday through Friday 7 AM to 5 PM. Saturday By Appointment Only.

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent

Signature

2/3/22
Receipt Date

Form: PST CB

TRANSPORTER COPY

puresoil

Pure Soil Technologies
655 SOUTH HOPE CHAPEL RD
JACKSON, NJ 08527
732-657-8551

CUSTOMER:
R&B DEBRIS LLC
5900 SYLON BLVD
HAINESPORT NJ 08060
609-261-8036

CUSTOMER NO: 3860

TICKET NO: ***299980***
DATE: 02/03/22
TIME: 12:29 PM

JOB NAME:
PES
3144 PASSYUNK AVE
PHILADELPHIA PA 19145

JOB NO: 2112037
QUOTE NO: 2112-039

MANIFEST NO: 151259
PRODUCT: JR66
JR66 SOIL

CARRIER: LIBERTY WASTE
TRUCK NO: LIB158
LIC. PLATE: AX992P

DAILY LOADS	METRIC	TONNAGE
1	13.79	15.20
TO-DATE LOADS	**METRIC**	**TONNAGE**
11	125.67	138.52

METRIC (MG)		ENGLISH (TN)
31.75 Mg	GROSS	35.00 TN
17.96 Mg	TARE	19.80 TN
13.79 Mg	NET	15.20 TN

*= manual weight

RATE: $0.00
TAX: $0.00

TOTAL: $0.00

RECIEVED BY: _____
WEIGHMASTER: JAMES MATTHEWS NJWMS #31489

PES Project Load Ticket

Load Ticket: 15816

Date: 02-03-22

Scrap

Sold to:

Location:

Carrier:

Steel / Ferrous

- ☐ No. 1 H-3
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other:

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade:
- ☐ Other Alloy, Grade:
- ☐ Mixed
- ☐ Other:

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other:

Scale Ticket #:

Gross Weight:

Tare Weight:

Net Weight:

NorthStar Rep. Signature:

Received By:

Non-Haz / ACM / Special Waste

Activity Location: Laydown Area

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Oil Contaminated Soil

Disposal Facility:

Carrier: Liberty

Truck #: 158

Container #: RR 44057 RT

Manifest #: 151257

Profile / Approval #: 2112037

Scale Info

Scale Ticket #:

Gross Weight: 71780 lbs

Tare weight: 39000 lbs

Net weight: 32780 lbs

Net Kilogram Conversion (PCB Only):

NorthStar Rep. Signature: CD

PURE SOIL TECHNOLOGIES
P.O. Drawer 43
Farmingdale, NJ 07727
Phone: 732.308.1113 Fax: 732.462.9626

151257

Weigh Scale Ticket #
escala de boleto

NON-HAZARDOUS MATERIAL MANIFEST

You must return 4 copies of this manifest upon delivery.

SITE INFORMATION

Site Name: FEB
Address: 8144 PASSYUNK AVE
City, State, Zip: PHILADELPHIA, PA 19148

AGENT / CONSULTANT

Name: [illegible]
Contact Name: [illegible]
Phone: [illegible]

Approval Number	Description of Material	** Must be Initialed By Authorized Agent.	SITE	**INITIALS
2112037	Non-Haz Contaminated Soil Roll off #RB4405?RT DRA 2-2	Time Arrive:		
		Time Depart:		

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Authorized Agent
Robert [illegible]
Generator/Authorized Agent Name (Print) — [signature] Signature — 2/3/22 Shipment Date

TRANSPORTER

Transporter Name: Liberty Waste
Address: 876 N Lenola Rd
City, State, Zip: Moorestown NJ 08057

Driver Name (Print): [illegible]
Vehicle License No/State/EPA No.: [illegible]
Truck Number: 158

I hereby certify that the above named material was picked up at the generator site listed above.

[signature] Driver Signature — 02/3/22 Date

I hereby certify that the above named material was delivered without incident to the destination listed below.

[signature] Driver Signature — 02/3/22 Date

DESTINATION

Site Name: PURE SOIL TECHNOLOGIES
Phone: [illegible]
Address: 656 SOUTH HOPE CHAPEL ROAD, JACKSON, NJ [illegible]

Business hours are: Monday through Friday 7 AM to 5 PM. Saturday By Appointment Only.

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent — [signature] Signature — 2/3/22 Receipt Date

Form: PST CB

TRANSPORTER COPY

puresoil

Pure Soil Technologies
655 SOUTH HOPE CHAPEL RD
JACKSON, NJ 08527
732-657-8551

CUSTOMER | CUSTOMER NO 3860 | TICKET NO **300022**
R&B DEBRIS LLC
5900 SYLON BLVD
HAINESPORT NJ 08060
609-261-8036

DATE 02/04/22
TIME 08:38 AM

JOB NAME | JOB NO 2112037 | QUOTE NO 2112-039 | MANIFEST NO 151257
PES
3144 PASSYUNK AVE
PHILADELPHIA PA 19145

PRODUCT JR66
JR66 SOIL

CARRIER LIBERTY WASTE | TRUCK NO LB158 | LIC PLATE AX992P

DAILY LOADS	METRIC	TONNAGE
1	14.91	16.43
TO-DATE LOADS	**METRIC**	**TONNAGE**
13	140.57	154.95

METRIC (MG)		ENGLISH (TN)
32.67 Mg	GROSS	36.01 TN
17.76 Mg	TARE	19.58 TN
14.91 Mg	NET	16.43 TN

*= manual weight

RATE $0.00
TAX $0.00

TOTAL $0.00

RECIEVED BY ____________________

WEIGHMASTER JAMES MATTHEWS NJWMS #31485

R&B DEBRIS, LLC

5900 Sylon Blvd
Hainesport, NJ 08036

Invoice

Date	Invoice #
2/23/2022	26289

Approved
5120108-6013
2/23/22

Bill To
NorthStar Contracting Group, Inc Attn:Accounts Payable 2250 E. Adams Avenue Philadelphia, PA 19124

Project	P.O. No.	Terms	Due Date
PES - 5120101023	5120101023	Net 60	4/24/2022

Date	Description	Tcktt/Manifest	Landfill Tckt	Qty	Rate	Amount
2/3/2022	Transportation of Non Hazardous Petroleum contaminated soil for recyling	151258	301023	1	650.00	650.00
2/3/2022	Recycling of Non Hazardous Petroleum contaminated soil			2.9	40.00	116.00

Please remit payment to R&B Debris LLC

Phone #	Fax #	E-mail
609-261-8036	609-667-7968	kthomas@rbdebris.com

Total	$766.00
Payments/Credits	$0.00
Balance Due	$766.00

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 18153

Date: 02-11-22.

Scrap

Sold to: _____

Location: _____

Carrier: _____

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other _____

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade _____
- ☐ Other Alloy, Grade _____
- ☐ Mixed
- ☐ Other: _____

ndition

- Prepared
- Unprepared
- Green Waste
- Concrete
- Masonry
- Mixed Masonry
- Wood Only
- Demo Debris (C&D)
- Dirt / Fill
- Sand Fill
- Crushed Stone
- Other: _____

ale Ticket #: _____

ross Weight: _____

are Weight: _____

Net Weight: _____

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: Laydown Area

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☐ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Oil contaminated Dirt

Disposal Facility: Pure Soil Technologies.

Carrier: Liberty

Truck #: 81

Container #: RB 34959RT

Manifest #: 151258

Profile / Approval #: 2112037

Scale Info

Scale Ticket #: _____

Gross Weight: 44860 lbs

Tare weight: 35000 lbs

Net weight: 9860 lbs

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____

puresoil

Pure Soil Technologies
655 SOUTH HOPE CHAPEL RD
JACKSON, NJ 08527
732-657-8551

CUSTOMER:
R&B DEBRIS LLC
5900 SYLON BLVD
HAINESPORT NJ 08060
609-261-8036

CUSTOMER NO: 3860

TICKET NO: **301023**
DATE: 02/17/22
TIME: 10:24 AM

JOB NAME:
PES
3144 PASSYUNK AVE
PHILADELPHIA PA 19145

JOB NO: 2112037
QUOTE NO: 2112-039

MANIFEST NO: 151258
PRODUCT: JR66
JR66 SOIL

CARRIER: LIBERTY WASTE
TRUCK NO: LIB78
LIC. PLATE: AX992P

DAILY LOADS	METRIC	TONNAGE
1	2.63	2.90
TO-DATE LOADS	**METRIC**	**TONNAGE**
13	143.20	157.85

	METRIC (MG)	ENGLISH (TN)
GROSS	20.65 Mg	22.76 TN
TARE	18.02 Mg	19.86 TN
NET	2.63 Mg	2.90 TN

*= manual weight

RATE: $0.00
TAX: $0.00

TOTAL: $0.00

RECIEVED BY: _____
WEIGHMASTER: JAMES MATTHEWS NJWMS #31489

PURE SOIL TECHNOLOGIES

P.O. Drawer 43
Farmingdale, NJ 07727
Phone: 732.308.1113 Fax: 732.462.9626

151258

Weigh Scale Ticket #
escala de boleto

NON-HAZARDOUS MATERIAL MANIFEST

You must return 4 copies of this manifest upon delivery.

SITE INFORMATION

Site Name: PES
Address: 3144 PASSYUNK AVE
City, State, Zip: PHILADELPHIA PA 19145

AGENT / CONSULTANT

Name: [illegible]
Contact Name: [illegible]
Phone: [illegible]

Approval Number	Description of Material	** *Must be Initialed By Authorized Agent.*	SITE	**INITIALS
2112037	Non Haz Contaminated Soil R/For #RB34459RT ~~DRA 3-1~~ PIA 1 TRUCK 1	Time Arrive:		
		Time Depart:		

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Auth Agent For PES [illegible]
[illegible]
Generator/Authorized Agent Name (Print) — Signature — 2/11/22 Shipment Date

TRANSPORTER

Transporter Name: Liberty Work
Address: 8? [illegible]
City, State, Zip: [illegible]

Driver Name (Print): [illegible]
Vehicle License No/State/EPA No.: AX 982P
Truck Number: 8178

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Signature — 2/11/22 Date

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature — 2/11/22 Date

DESTINATION

Site Name: PURE SOIL TECHNOLOGIES
Phone: (732) 657-8551
Address: 656 SOUTH HOPE CHAPEL ROAD, JACKSON, NJ [illegible]

Business hours are: Monday through Friday 7 AM to 5 PM. Saturday By Appointment Only.

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent — Signature — 2/17/22 Receipt Date

Form: PST CB

TRANSPORTER COPY

R&B DEBRIS, LLC

5900 Sylon Blvd
Hainesport, NJ 08036

Invoice

Date	Invoice #
1/15/2023	28520

Bill To

NorthStar Contracting Group, Inc
Attn:Accounts Payable
2250 E. Adams Avenue
Philadelphia, PA 19124

Approved
5122005 - 881 Tank Dike Release
2/2/2023

Project	P.O. No.	Terms	Due Date
PES - 5120101023		Net 60	3/16/2023

Date	Description	Tcktt/Manifest	Landfill Tckt	Qty	Rate	Amount
1/10/2023	Transportation of 20 CY Container	24663-151252	318250	1	650.00	650.00
	Disposal at Pure Soil		318250	18.09	40.00	723.60
1/10/2023	Transportation of 20 CY Container	24662-151251	318248	1	650.00	650.00
	Disposal at Pure Soil		318248	17.97	40.00	718.80
1/10/2023	Transportation of 20 CY Container	24664-151253	318249	1	650.00	650.00
	Disposal at Pure Soil		318249	12.1	40.00	484.00
1/10/2023	Transportation of 20 CY Container	24661-151250	318246	1	650.00	650.00
	Disposal at Pure Soil		318246	17.54	40.00	701.60
1/11/2023	Transportation of 20 CY Container	24677-151256	318295	1	650.00	650.00
	Disposal at Pure Soil		318295	16.81	40.00	672.40
1/11/2023	Transportation of 20 CY Container	24676-151268	318266	1	650.00	650.00
	Disposal at Pure Soil		318266	14.81	40.00	592.40
1/11/2023	Transportation of 20 CY Container	24679-151254	318345	1	650.00	650.00
	Disposal at Pure Soil		318345	10.92	40.00	436.80
1/11/2023	Transportation of 20 CY Container	24678-151255	318304	1	650.00	650.00
	Disposal at Pure Soil		318304	19.79	40.00	791.60

Please remit payment to R&B Debris LLC

Phone #	Fax #	E-mail
609-261-8036	609-261-8585	bwalsh@hainesporttg.com

Total	$11,408.00
Payments/Credits	$0.00
Balance Due	$10,321.20

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 24663

Date: 1-10-23

Scrap

Sold to: _____

Location: _____

Carrier: _____

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other _____

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade _____
- ☐ Other Alloy, Grade _____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other: _____

Scale Ticket #: _____

Gross Weight: _____

Tare Weight: _____

Net Weight: _____

NorthStar Rep. Signature: _____

Received By: Joey Bleggi

Non-Haz / ACM / Special Waste

Activity Location: Laydown Yard

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☒ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: Pure Soil Technologies

Carrier: Champion Disposal

Truck #: 109

Container #: RB48382RT

Manifest #: 151252

Profile / Approval #: 2112037

Scale Info

Scale Ticket #: _____

Gross Weight: 73340 lbs

Tare weight: 30560 lbs

Net weight: 42780 lbs

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: MC

PURE SOIL TECHNOLOGIES

P.O. Drawer 43
Farmingdale, NJ 07727
Phone: 732.308.1113 Fax: 732.462.9626

151252

Weigh Scale Ticket #
escala de boleto

NON-HAZARDOUS MATERIAL MANIFEST

You must return 4 copies of this manifest upon delivery.

SITE INFORMATION

Site Name: PES
Address: 3144 PASSYUNK AVE
City, State, Zip: PHILADELPHIA, PA 19145

AGENT / CONSULTANT

Name: R&B DEBRIS LLC
Contact Name: PATRICK DURIA
Phone: (609) 261-8036

Approval Number	Description of Material
2112037	Non-Haz Contaminated Soil DRA 2-2 RB 4X2 S2RT

*** Must be Initialed By Authorized Agent.*

	SITE	**INITIALS
Time Arrive:	0640	
Time Depart:	0725	

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator/Authorized Agent Name (Print) | Signature | Shipment Date: 1/10/23

TRANSPORTER

Transporter Name:
Address: 5900 Sylon Blvd
City, State, Zip: Hainesport NJ 08036

Driver Name (Print):
Vehicle License No/State/EPA No.: AT679M
Truck Number: 19

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Signature | Date: 1-10-23

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature | Date: 1-10-23

DESTINATION

Site Name: PURE SOIL TECHNOLOGIES
Phone: (732) 657-8551
Address: 655 SOUTH HOPE CHAPEL ROAD, JACKSON, NJ 08527

Business hours are: Monday through Friday 7 AM to 5 PM. Saturday By Appointment Only.

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent | **Signature** | **Receipt Date**: 1/10/23

Form: PST CB

TRANSPORTER COPY

puresoil

Pure Soil Technologies
655 SOUTH HOPE CHAPEL RD
JACKSON, NJ O8527
732-657-8551

CUSTOMER:
R&B DEBRIS LLC
5900 SYLON BLVD
HAINESPORT NJ 08060
609-261-8036

CUSTOMER NO: 3860

TICKET NO: ***318250***
DATE: 01/10/23
TIME: 09:40 AM

JOB NAME:
PES
3144 PASSYUNK AVE
PHILADELPHIA PA 19145

JOB NO: 2112037
QUOTE NO: 2112-039

MANIFEST NO: 151252
PRODUCT: JR66
JR66 SOIL

CARRIER: CHAMPION DISPOSAL
TRUCK NO: CHA19
LIC. PLATE: AT679M

DAILY LOADS	METRIC	TONNAGE	METRIC (MG)		ENGLISH (TN)
4	59.61	65.71	33.36 Mg	GROSS	36.77 TN
TO-DATE LOADS	METRIC	TONNAGE	16.95 Mg	TARE	18.68 TN
20	249.01	274.48	16.41 Mg	NET	18.09 TN

*= manual weight

RATE: $0.00
TAX: $0.00

TOTAL: $0.00

RECIEVED BY: _____

WEIGHMASTER: JAMES MATTHEWS NJWMS #31489

3A1F48

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 24662

Date: 1-10-23

Scrap

Sold to: _____

Location: _____

Carrier: _____

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other _____

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade _____
- ☐ Other Alloy, Grade _____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other: _____

Scale Ticket #: _____

Gross Weight: _____

Tare Weight: _____

Net Weight: _____

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: Laydown Yard

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☒ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: Pure Soil Technologies

Carrier: Champion Disposal

Truck #: 4

Container #: RB 45911RT

Manifest #: 151251

Profile / Approval #: _____

Scale Info

Scale Ticket #: _____

Gross Weight: 73720 lbs

Tare weight: 31160 lbs

Net weight: 42560 lbs

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____

PURE SOIL TECHNOLOGIES
P.O. Drawer 43
Farmingdale, NJ 07727
Phone: 732.308.1113 Fax: 732.462.9626

151251

NON-HAZARDOUS MATERIAL MANIFEST

You must return 4 copies of this manifest upon delivery.

Weigh Scale Ticket #
 # escala de boleto

SITE INFORMATION

Site Name: PES
Address: 3144 PASSYUNK AVE
City, State, Zip: PHILADELPHIA, PA 19145

AGENT / CONSULTANT

Name: R&B DEBRIS LLC
Contact Name: PATRICK DURIA
Phone: (609) 261-8036

Approval Number	Description of Material
2112037	Non-Haz Contaminated Soil DEA 2-2 RB4591H2T

*** Must be Initialed By Authorized Agent.*

	SITE	**INITIALS
Time Arrive:	0640	RA
Time Depart:	0715	RA

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Robert Amedy
Generator/Authorized Agent Name (Print)

[signature]
Signature

1/10/23
Shipment Date

TRANSPORTER

Transporter Name: Champion Disposal
Address: 5900 Sylon Blvd
City, State, Zip: Hainesport NJ 08036

Driver Name (Print): Josh Roads
Vehicle License No/State/EPA No.: AU361K NJ 37707
Truck Number: 4

I hereby certify that the above named material was picked up at the generator site listed above.

[signature]
Driver Signature

1-10-23
Date

I hereby certify that the above named material was delivered without incident to the destination listed below.

[signature]
Driver Signature

1-10-23
Date

DESTINATION

Site Name: PURE SOIL TECHNOLOGIES
Address: 655 SOUTH HOPE CHAPEL ROAD, JACKSON, NJ 08527
Phone: (732) 657-8551

Business hours are: Monday through Friday 7 AM to 5 PM. Saturday By Appointment Only.

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent

[signature]
Signature

1/10/23
Receipt Date

Form: PST CB

TRANSPORTER COPY

puresoil

Pure Soil Technologies
655 SOUTH HOPE CHAPEL RD
JACKSON, NJ O8527
732-657-8551

CUSTOMER:
R&B DEBRIS LLC
5900 SYLON BLVD
HAINESPORT NJ 08060
609-261-8036

CUSTOMER NO: 3860

TICKET NO: ***318248***
DATE: 01/10/23
TIME: 09:30 AM

JOB NAME:
PES
3144 PASSYUNK AVE
PHILADELPHIA PA 19145

JOB NO: 2112037
QUOTE NO: 2112-039

MANIFEST NO: 151251
PRODUCT: JR66
JR66 SOIL

CARRIER: CHAMPION DISPOSAL
TRUCK NO: CHA04
LIC. PLATE: AU304R

DAILY LOADS	METRIC	TONNAGE	METRIC (MG)		ENGLISH (TN)
2	32.21	35.51	33.63 Mg	GROSS	37.07 TN
TO-DATE LOADS	METRIC	TONNAGE	17.33 Mg	TARE	19.10 TN
18	221.61	244.28	16.30 Mg	NET	17.97 TN

*= manual weight

RATE: $0.00
TAX: $0.00

TOTAL: $0.00

RECIEVED BY: _____
WEIGHMASTER: JAMES MATTHEWS NJWMS #31489

6DE783

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 24664

Date: 1-10-23

Scrap

Sold to: _____

Location: _____

Carrier: _____

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other _____

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade _____
- ☐ Other Alloy, Grade _____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other: _____

Scale Ticket #: _____

Gross Weight: _____

Tare Weight: _____

Net Weight: _____

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: Laydown Yard

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☒ ~~Non-Haz Waste~~ (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: Pure Soil Technologies

Carrier: Champion Disposal

Truck #: 114

Container #: RB40854RT

Manifest #: 151253

Profile / Approval #: 2112037

Scale Info

Scale Ticket #: _____

Gross Weight: 61840lbs

Tare weight: 31240lbs

Net weight: 30600lbs

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____

PURE SOIL TECHNOLOGIES
P.O. Drawer 43
Farmingdale, NJ 07727
Phone: 732.308.1113 Fax: 732.462.9626

151253

Weigh Scale Ticket #
 # escala de boleto

NON-HAZARDOUS MATERIAL MANIFEST

You must return 4 copies of this manifest upon delivery.

SITE INFORMATION

Site Name: PES
Address: 3144 PASSYUNK AVE
City, State, Zip: PHILADELPHIA, PA 19148

AGENT / CONSULTANT

Name: R&B DEBRIS LLC
Contact Name: PATRICK DURIA
Phone: (609) 261-5036

Approval Number	Description of Material	** *Must be Initialed By Authorized Agent.*	SITE	**INITIALS
2112037	Non-Haz Contaminated Soil DR1 2-2 RR485549RT	Time Arrive:	0640	[illegible]
		Time Depart:	0730	[illegible]

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

[illegible] Generator/Authorized Agent Name (Print)
[signature] Signature
1/10/23 Shipment Date

TRANSPORTER

Transporter Name: [illegible]
Address: [illegible]
City, State, Zip: [illegible]

Driver Name (Print): [illegible]
Vehicle License No/State/EPA No.: [illegible]
Truck Number: 114

I hereby certify that the above named material was picked up at the generator site listed above.

[signature] Driver Signature
1-10-2023 Date

I hereby certify that the above named material was delivered without incident to the destination listed below.

[signature] Driver Signature
1-10-2023 Date

DESTINATION

Site Name: PURE SOIL TECHNOLOGIES
Phone: (732) 657-8551
Address: 655 SOUTH HOPE CHAPEL ROAD, JACKSON, NJ 08527

Business hours are: Monday through Friday 7 AM to 5 PM. Saturday By Appointment Only.

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent
[signature] **Signature**
1/10/23 **Receipt Date**

Form: PST CB

TRANSPORTER COPY

puresoil

Pure Soil Technologies
655 SOUTH HOPE CHAPEL RD
JACKSON, NJ O8527
732-657-8551

CUSTOMER:
R&B DEBRIS LLC
5900 SYLON BLVD
HAINESPORT NJ 08060
609-261-8036

CUSTOMER NO: 3860

TICKET NO: ***318249***
DATE: 01/10/23
TIME: 09:31 AM

JOB NAME:
PES
3144 PASSYUNK AVE
PHILADELPHIA PA 19145

JOB NO: 2112037
QUOTE NO: 2112-039

MANIFEST NO: 151253
PRODUCT: JR66
JR66 SOIL

CARRIER: CHAMPION DISPOSAL
TRUCK NO: CHA114
LIC. PLATE: AT678M

DAILY LOADS	METRIC	TONNAGE	METRIC (MG)		ENGLISH (TN)
3	43.20	47.62	28.11 Mg	GROSS	30.99 TN
TO-DATE LOADS	METRIC	TONNAGE	17.13 Mg	TARE	18.88 TN
19	232.60	256.39	10.99 Mg	NET	12.11 TN

*= manual weight

RATE: $0.00
TAX: $0.00

TOTAL: $0.00

RECIEVED BY: _____

WEIGHMASTER: JAMES MATTHEWS NJWMS #31489

D79506.

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 24661

Date: 1-10-23

Scrap

Sold to: _____

Location: _____

Carrier: _____

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other _____

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade _____
- ☐ Other Alloy, Grade _____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other: _____

Scale Ticket #: _____

Gross Weight: _____

Tare Weight: _____

Net Weight: _____

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: Laydown Yard

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☑ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: Pure Soil Technologies

Carrier: Champion Disposal

Truck #: 115

Container #: RB484571RT

Manifest #: 151250

Profile / Approval #: _____

Scale Info

Scale Ticket #: _____

Gross Weight: 71040 lbs

Tare weight: 30760 lbs

Net weight: 40880 lbs

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____

PURE SOIL TECHNOLOGIES
P.O. Drawer 43
Farmingdale, NJ 07727
Phone: 732.308.1113 Fax: 732.462.9626

151250

Weigh Scale Ticket #
 # escala de boleto

NON-HAZARDOUS MATERIAL MANIFEST

You must return 4 copies of this manifest upon delivery.

SITE INFORMATION

Site Name: PES
Address: 3144 PASSYUNK AVE
City, State, Zip: PHILADELPHIA, PA 19145

AGENT / CONSULTANT

Name: R&B DEBRIS LLC
Contact Name: PATRICK DURIA
Phone: (609) 261-8036

Approval Number	Description of Material
2112037	Non-Haz Contaminated Soil DPA 3-3 RP 48457 RT

*** Must be Initialed By Authorized Agent.*

	SITE	**INITIALS
Time Arrive:	0640	[illegible]
Time Depart:	0710	[illegible]

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

[illegible] — Generator/Authorized Agent Name (Print)
[signature] — Signature
1/10/23 — Shipment Date

TRANSPORTER

Transporter Name: [illegible]
Address: [illegible]
City, State, Zip: [illegible]

Driver Name (Print): [illegible]
Vehicle License No/State/EPA No.: [illegible]
Truck Number: [illegible]

I hereby certify that the above named material was picked up at the generator site listed above.

[signature] — Driver Signature
1/10/23 — Date

I hereby certify that the above named material was delivered without incident to the destination listed below.

[signature] — Driver Signature
1/10/23 — Date

DESTINATION

Site Name: PURE SOIL TECHNOLOGIES
Phone: (732) 657-5561
Address: 655 SOUTH HOPE CHAPEL ROAD, JACKSON, NJ 08527

Business hours are: Monday through Friday 7 AM to 5 PM. Saturday By Appointment Only.

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent
[signature] — **Signature**
1/10/23 — **Receipt Date**

Form: PST CB

TRANSPORTER COPY

puresoil

Pure Soil Technologies
655 SOUTH HOPE CHAPEL RD
JACKSON, NJ O8527
732-657-8551

CUSTOMER:
R&B DEBRIS LLC
5900 SYLON BLVD
HAINESPORT NJ 08060
609-261-8036

CUSTOMER NO: 3860

TICKET NO: ***318246***
DATE: 01/10/23
TIME: 09:27 AM

JOB NAME:
PES
3144 PASSYUNK AVE
PHILADELPHIA PA 19145

JOB NO: 2112037

QUOTE NO: 2112-039

MANIFEST NO: 151250
PRODUCT: JR66
JR66 SOIL

CARRIER: CHAMPION DISPOSAL

TRUCK NO: CHA115

LIC. PLATE: AW415A

DAILY LOADS	METRIC	TONNAGE	METRIC (MG)		ENGLISH (TN)
1	15.91	17.54	32.80 Mg	GROSS	36.15 TN
TO-DATE LOADS	METRIC	TONNAGE	16.88 Mg	TARE	18.61 TN
17	205.31	226.31	15.91 Mg	NET	17.54 TN

*= manual weight

RATE: $0.00
TAX: $0.00

TOTAL: $0.00

RECIEVED BY: _____

WEIGHMASTER: JAMES MATTHEWS NJWMS #31489

3CA799

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 24677

Date: 1-11-23

Scrap

Sold to: _____

Location: _____

Carrier: _____

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other _____

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade _____
- ☐ Other Alloy, Grade _____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other: _____

Scale Ticket #: _____

Gross Weight: _____

Tare Weight: _____

Net Weight: _____

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: Laydown Yard

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☒ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: Pure Soil Technologies

Carrier: Champion Disposal

Truck #: 4

Container #: RB48710RT

Manifest #: 151256

Profile / Approval #: 2112037

Scale Info

Scale Ticket #: _____

Gross Weight: 71200lbs

Tare weight: 31100lbs

Net weight: 40040lbs

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____

PURE SOIL TECHNOLOGIES
P.O. Drawer 43
Farmingdale, NJ 07727
Phone: 732.308.1113 Fax: 732.462.9626

151256

Weigh Scale Ticket #
 # escala de boleto

NON-HAZARDOUS MATERIAL MANIFEST

You must return 4 copies of this manifest upon delivery.

SITE INFORMATION

Site Name: PES
Address: 3144 PASSYUNK AVE
City, State, Zip: PHILADELPHIA, PA 19145

AGENT / CONSULTANT

Name: R&B DEBRIS LLC
Contact Name: PATRICK DURIS
Phone: (609) 201-3050

Approval Number	Description of Material
2112037	Non-Haz Contaminated Soil

*** Must be Initialed By Authorized Agent.*

	SITE	**INITIALS
Time Arrive:		
Time Depart:		

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator/Authorized Agent Name (Print) ____ Signature ____ Shipment Date ____

TRANSPORTER

Transporter Name: ____
Address: ____
City, State, Zip: ____

Driver Name (Print): ____
Vehicle License No/State/EPA No.: ____
Truck Number: ____

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Signature ____ Date ____

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature ____ Date ____

DESTINATION

Site Name: PURE SOIL TECHNOLOGIES
Phone: (732) 887-8051
Address: 656 SOUTH HOPE CHAPEL ROAD, JACKSON, NJ 08527

Business hours are: Monday through Friday 7 AM to 5 PM. Saturday By Appointment Only.

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent ____ **Signature** ____ **Receipt Date** ____

Form: PST CB

TRANSPORTER COPY

puresoil

Pure Soil Technologies
655 SOUTH HOPE CHAPEL RD
JACKSON, NJ O8527
732-657-8551

CUSTOMER:
R&B DEBRIS LLC
5900 SYLON BLVD
HAINESPORT NJ 08060
609-261-8036

CUSTOMER NO: 3860

TICKET NO: ***318295***
DATE: 01/11/23
TIME: 11:13 AM

JOB NAME:
PES
3144 PASSYUNK AVE
PHILADELPHIA PA 19145

JOB NO: 2112037
QUOTE NO: 2112-039

MANIFEST NO: 151256
PRODUCT: JR66
JR66 SOIL

CARRIER: CHAMPION DISPOSAL
TRUCK NO: CHA115
LIC. PLATE: AW415A

DAILY LOADS	METRIC	TONNAGE	METRIC (MG)		ENGLISH (TN)
2	28.69	31.62	32.25 Mg	GROSS	35.55 TN
TO-DATE LOADS	METRIC	TONNAGE	17.00 Mg	TARE	18.74 TN
22	277.69	306.10	15.25 Mg	NET	16.81 TN

*= manual weight

RATE: $0.00
TAX: $0.00

TOTAL: $0.00

RECIEVED BY: _____

WEIGHMASTER: JAMES MATTHEWS NJWMS #31489

9D89C9

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 24676

Date: 1-11-23

Scrap

Sold to: _____

Location: _____

Carrier: _____

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other _____

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade _____
- ☐ Other Alloy, Grade _____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other: _____

Scale Ticket #: _____

Gross Weight: _____

Tare Weight: _____

Net Weight: _____

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: Laydown Yard

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☒ Non-Haz Waste (Solid)
- ☐ ~~Non-Haz Waste~~ (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: Pure Soil Technologies

Carrier: Champion Disposal

Truck #: 115

Container #: RB 44041 RT

Manifest #: 151268

Profile / Approval #: 2112017

Scale Info

Scale Ticket #: _____

Gross Weight: 105400 lbs

Tare weight: 30700 lbs

Net weight: 34700 lbs

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____

PURE SOIL TECHNOLOGIES
P.O. Drawer 43
Farmingdale, NJ 07727
Phone: 732.308.1113 Fax: 732.462.9626

151268

Weigh Scale Ticket #
 # escala de boleto

NON-HAZARDOUS MATERIAL MANIFEST

You must return 4 copies of this manifest upon delivery.

SITE INFORMATION

Site Name: _____

Address: _____

City, State, Zip: _____

AGENT / CONSULTANT

Name: _____

Contact Name: _____

Phone: _____

Approval Number	Description of Material	*** Must be Initialed By Authorized Agent.*	SITE	**INITIALS
211203Z	Non-Haz Contaminated Soil	Time Arrive:		
		Time Depart:		

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator/Authorized Agent Name (Print) _____ Signature _____ Shipment Date _____

TRANSPORTER

Transporter Name: _____

Address: _____

City, State, Zip: _____

Driver Name (Print): _____

Vehicle License No/State/EPA No.: _____

Truck Number: _____

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Signature _____ Date _____

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature _____ Date _____

DESTINATION

Site Name: PURE SOIL TECHNOLOGIES Phone: _____

Address: 650 SOUTH HOPE CHAPEL ROAD, JACKSON, NJ 08527

Business hours are: Monday through Friday 7 AM to 5 PM. Saturday By Appointment Only.

hereby certify that the above named material has been accepted and to the best of my knowledge the oregoing is true and accurate.

Name of Authorized Agent _____ **Signature** _____ **Receipt Date** _____

rm: PST CB

TRANSPORTER COPY

puresoil

Pure Soil Technologies
655 SOUTH HOPE CHAPEL RD
JACKSON, NJ O8527
732-657-8551

CUSTOMER:
R&B DEBRIS LLC
5900 SYLON BLVD
HAINESPORT NJ 08060
609-261-8036

CUSTOMER NO: 3860

TICKET NO: ***318266***
DATE: 01/11/23
TIME: 08:51 AM

JOB NAME:
PES
3144 PASSYUNK AVE
PHILADELPHIA PA 19145

JOB NO: 2112037
QUOTE NO: 2112-039

MANIFEST NO: 151268
PRODUCT: JR66
JR66 SOIL

CARRIER: CHAMPION DISPOSAL
TRUCK NO: CHA115
LIC. PLATE: AW415A

DAILY LOADS	METRIC	TONNAGE	METRIC (MG)		ENGLISH (TN)
1	13.44	14.81	30.22 Mg	GROSS	33.31 TN
TO-DATE LOADS	METRIC	TONNAGE	16.78 Mg	TARE	18.50 TN
21	262.44	289.29	13.44 Mg	NET	14.81 TN

*= manual weight

RATE: $0.00
TAX: $0.00

TOTAL: $0.00

RECIEVED BY: _____
WEIGHMASTER: JAMES MATTHEWS NJWMS #31489

E2FBE3

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 24679

Date: 1-11-23

Scrap

Sold to: _____

Location: _____

Carrier: _____

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other _____

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade _____
- ☐ Other Alloy, Grade _____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other: _____

Scale Ticket #: _____

Gross Weight: _____

Tare Weight: _____

Net Weight: _____

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: Laydown Yard

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☒ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: Pure Soil Technologies

Carrier: Champion Disposal

Truck #: 19

Container #: RB47185RT

Manifest #: 151254

Profile / Approval #: 2112037

Scale Info

Scale Ticket #: _____

Gross Weight: 58740 lbs

Tare weight: 30540 lbs

Net weight: 28200 lbs

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: MC

PURE SOIL TECHNOLOGIES
P.O. Drawer 43
Farmingdale, NJ 07727
Phone: 732.308.1113 Fax: 732.462.9626

151254

Weigh Scale Ticket #
 # escala de boleto

NON-HAZARDOUS MATERIAL MANIFEST

You must return 4 copies of this manifest upon delivery.

SITE INFORMATION

Site Name: PES
Address: 3144 PASSYUNK AVE
City, State, Zip: PHILADELPHIA, PA 19146

AGENT / CONSULTANT

Name: R&B DEBRIS LLC
Contact Name: PATRICK DURIA
Phone: (609) 261-3036

Approval Number	Description of Material
2112037	Non-Haz Contaminated Soil 54918

*** Must be Initialed By Authorized Agent.*

	SITE	**INITIALS
Time Arrive:		
Time Depart:		

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator/Authorized Agent Name (Print) | Signature | Shipment Date: 1/11/23

TRANSPORTER

Transporter Name: Champion
Address: 3900 Sylon Blvd
City, State, Zip: Hainesport NJ 08036

Driver Name (Print): Terry Blaggan
Vehicle License No/State/EPA No.: AT679M
Truck Number: 19

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Signature | Date: 1-11-23

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature | Date: 1-11-23

DESTINATION

Site Name: PURE SOIL TECHNOLOGIES
Phone: (732) 657-6551
Address: 655 SOUTH HOPE CHAPEL ROAD, JACKSON, NJ 08527

Business hours are: Monday through Friday 7 AM to 5 PM. Saturday By Appointment Only.

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent | **Signature** | **Receipt Date**: 1/11/23

Form: PST CB

TRANSPORTER COPY

puresoil

Pure Soil Technologies
655 SOUTH HOPE CHAPEL RD
JACKSON, NJ O8527
732-657-8551

CUSTOMER:
R&B DEBRIS LLC
5900 SYLON BLVD
HAINESPORT NJ 08060
609-261-8036

CUSTOMER NO: 3860

TICKET NO: ***318345***
DATE: 01/12/23
TIME: 07:10 AM

JOB NAME:
PES
3144 PASSYUNK AVE
PHILADELPHIA PA 19145

JOB NO: 2112037
QUOTE NO: 2112-039

MANIFEST NO: 151254
PRODUCT: JR66
JR66 SOIL

CARRIER: CHAMPION DISPOSAL
TRUCK NO: CHA115
LIC. PLATE: AW415A

DAILY LOADS	METRIC	TONNAGE	METRIC (MG)		ENGLISH (TN)
1	9.91	10.92	26.95 Mg	GROSS	29.71 TN
TO-DATE LOADS	METRIC	TONNAGE	17.05 Mg	TARE	18.79 TN
24	305.55	336.81	9.91 Mg	NET	10.92 TN

*= manual weight

RATE: $0.00
TAX: $0.00

TOTAL: $0.00

RECIEVED BY: _____

WEIGHMASTER: JAMES MATTHEWS NJWMS #31489

3 1A 2 B D

NorthStar Contracting Group, Inc.

PES Project Load Ticket

Load Ticket: 24678

Date: 1-11-23

Scrap

Sold to: _____

Location: _____

Carrier: _____

Steel / Ferrous

- ☐ No. 1 P+S
- ☐ No. 2 Heavy Melt
- ☐ Cast Iron
- ☐ Mixed
- ☐ Pipe
- ☐ Light Iron
- ☐ Re-Bar
- ☐ Other _____

Non-Ferrous

- ☐ Insulated Copper Wire
- ☐ No. 1 Copper Wire
- ☐ Brass
- ☐ Aluminum
- ☐ Stainless, Grade _____
- ☐ Other Alloy, Grade _____
- ☐ Mixed
- ☐ Other: _____

Condition

- ☐ Prepared
- ☐ Unprepared
- ☐ Green Waste
- ☐ Concrete
- ☐ Masonry
- ☐ Mixed Masonry
- ☐ Wood Only
- ☐ Demo Debris (C&D)
- ☐ Dirt / Fill
- ☐ Sand Fill
- ☐ Crushed Stone
- ☐ Other: _____

Scale Ticket #: _____

Gross Weight: _____

Tare Weight: _____

Net Weight: _____

NorthStar Rep. Signature: _____

Received By: _____

Non-Haz / ACM / Special Waste

Activity Location: Laydown Yard

Waste Stream

- ☐ C&D Demolition Debris
- ☐ Non-Friable ACM
- ☐ Friable ACM
- ☐ PB WWTP Sludge
- ☐ GP WWTP Sludge
- ☐ Characteristic Haz Waste (flammable D001, corrosive D002, reactive D003, toxicity D004 –D043)
- ☐ Process Haz Waste
- ☐ Demo Debris (C&D)
- ☒ Non-Haz Waste (Solid)
- ☐ Non-Haz Waste (Liquid)
- ☐ PCB (Non-TSCA)
- ☐ PCB (TSCA)

Disposal Facility: Pure Soil Technologies

Carrier: Champion Disposal

Truck #: 114

Container #: RBR251078

Manifest #: 151255

Profile / Approval #: 2112037

Scale Info

Scale Ticket #: _____

Gross Weight: 77180 lbs

Tare weight: 31240 lbs

Net weight: 45940 lbs

Net Kilogram Conversion (PCB Only): _____

NorthStar Rep. Signature: _____

PURE SOIL TECHNOLOGIES
P.O. Drawer 43
Farmingdale, NJ 07727
Phone: 732.308.1113 Fax: 732.462.9626

151255

Weigh Scale Ticket #
 # escala de boleto

NON-HAZARDOUS MATERIAL MANIFEST

You must return 4 copies of this manifest upon delivery.

SITE INFORMATION

Site Name: PES

Address: 3144 PASSYUNK AVE

City, State, Zip: PHILADELPHIA, PA 19145

AGENT / CONSULTANT

Name: R&R DEBRIS LLC

Contact Name: PATRICK DURIA

Phone: (609) 261-8036

Approval Number	Description of Material
2112037	Non Haz Contaminated Soil

*** Must be Initialed By Authorized Agent.*

	SITE	**INITIALS
Time Arrive:	1600	
Time Depart:	1715	

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator/Authorized Agent Name (Print) | Signature | Shipment Date

TRANSPORTER

Transporter Name:

Address:

City, State, Zip:

Driver Name (Print):

Vehicle License No/State/EPA No.:

Truck Number:

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Signature | Date

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature | Date

DESTINATION

Site Name: PURE SOIL TECHNOLOGIES

Phone: (732) 657-8554

Address: 656 SOUTH HOPE CHAPEL ROAD, JACKSON, NJ 08527

Business hours are: Monday through Friday 7 AM to 5 PM. Saturday By Appointment Only.

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent | **Signature** | **Receipt Date**

Form: PST CB

TRANSPORTER COPY

puresoil

Pure Soil Technologies
655 SOUTH HOPE CHAPEL RD
JACKSON, NJ O8527
732-657-8551

CUSTOMER:
R&B DEBRIS LLC
5900 SYLON BLVD
HAINESPORT NJ 08060
609-261-8036

CUSTOMER NO: 3860

TICKET NO: ***318304***
DATE: 01/11/23
TIME: 01:35 PM

JOB NAME:
PES
3144 PASSYUNK AVE
PHILADELPHIA PA 19145

JOB NO: 2112037

QUOTE NO: 2112-039

MANIFEST NO: 151255
PRODUCT: JR66
JR66 SOIL

CARRIER: CHAMPION DISPOSAL

TRUCK NO: CHA115

LIC. PLATE: AW415A

DAILY LOADS	METRIC	TONNAGE	METRIC (MG)		ENGLISH (TN)
3	46.64	51.41	34.69 Mg	GROSS	38.24 TN
TO-DATE LOADS	METRIC	TONNAGE	16.74 Mg	TARE	18.45 TN
23	295.65	325.89	17.95 Mg	NET	19.79 TN

*= manual weight

RATE: $0.00
TAX: $0.00

TOTAL: $0.00

RECIEVED BY: _____

WEIGHMASTER: JAMES MATTHEWS NJWMS #31489

E855 80

PURE SOIL TECHNOLOGIES
P.O. Drawer 43
Farmingdale, NJ 07727
Phone: 732.308.1113 Fax: 732.462.9626

151254

Weigh Scale Ticket #
 # escala de boleto

NON-HAZARDOUS MATERIAL MANIFEST

You must return 4 copies of this manifest upon delivery.

SITE INFORMATION

Site Name: PES
Address: 3144 PASSYUNK AVE
City, State, Zip: PHILADELPHIA, PA 19145

AGENT / CONSULTANT

Name: B&B DEBRIS LLC
Contact Name: PATRICK DURIA
Phone: (609) 261-8036

Approval Number: 2112037

Description of Material: Non-Haz Contaminated Soil
DR 4 3-3
R1347185

*** Must be Initialed By Authorized Agent.*

	SITE	**INITIALS
Time Arrive:	0600	[illegible]
Time Depart:	0915	[illegible]

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Robert [illegible] — Generator/Authorized Agent Name (Print)
[signature] — Signature
1/11/23 — Shipment Date

TRANSPORTER

Transporter Name: CHAMPION
Address: 3900 Sylon Blvd
City, State, Zip: Hainesport NJ 08036

Driver Name (Print): Terry Blaggan
Vehicle License No/State/EPA No.: AT679M
Truck Number: 19

I hereby certify that the above named material was picked up at the generator site listed above.

[signature] — Driver Signature
1-11-23 — Date

I hereby certify that the above named material was delivered without incident to the destination listed below.

[signature] — Driver Signature
1-11-23 — Date

DESTINATION

Site Name: PURE SOIL TECHNOLOGIES
Phone: (732) 657-6551
Address: 655 SOUTH HOPE CHAPEL ROAD, JACKSON, NJ 08527

Business hours are: Monday through Friday 7 AM to 5 PM. Saturday By Appointment Only.

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent
[signature] — **Signature**
1/11/23 — **Receipt Date**

Form: PST CB

PROFILE COPY

puresoil

Pure Soil Technologies
655 SOUTH HOPE CHAPEL RD
JACKSON, NJ O8527
732-657-8551

CUSTOMER: R&B DEBRIS LLC
5900 SYLON BLVD
HAINESPORT NJ 08060
609-261-8036

CUSTOMER NO: 3860

TICKET NO: ***318345***
DATE: 01/12/23
TIME: 07:10 AM

JOB NAME: PES
3144 PASSYUNK AVE
PHILADELPHIA PA 19145

JOB NO: 2112037

QUOTE NO: 2112-039

MANIFEST NO: 151254
PRODUCT: JR66
JR66 SOIL

CARRIER: CHAMPION DISPOSAL

TRUCK NO: CHA115

LIC. PLATE: AW415A

DAILY LOADS	METRIC	TONNAGE	METRIC (MG)		ENGLISH (TN)
1	9.91	10.92	26.95 Mg	GROSS	29.71 TN
TO-DATE LOADS	METRIC	TONNAGE	17.05 Mg	TARE	18.79 TN
24	305.55	336.81	9.91 Mg	NET	10.92 TN

*= manual weight

RATE: $0.00
TAX: $0.00

TOTAL: $0.00

RECIEVED BY: _____

WEIGHMASTER: JAMES MATTHEWS NJWMS #31489

Appendix E

Field Notes

Location PES REFINERY Date 11/7

Project / Client PHASE 1C

302

		DESCRIPTION	PID	SAMPLE DEPTH
ADOZ-C4	A	BROWN COARSE SAND	17.2	2.0-2.5
	B	↓	29.7	3.0-3.5
	C		44.1	2.0-2.5
1400	D	↓	176.9	2.0-2.5
C2				
	A	BROWN/GRAY SILT	16.7	9.0-9.5
	B	↓	20.8	10.0-10.5
	C	BROWN COARSE SAND w/GRAVEL	57.2	7.0-7.5
1415	D	↓	146.3	8.0-8.5
C3				
	A	BROWN COARSE SAND w/GRAVEL	10.9	15.0-15.5
	B	↓	98.2	16.0-16.5
	C	↓	95.6	17.0-17.5
1430	D	BROWN SILT	157.9	12.0-12.5
C4				
	A	BROWN SILT	172.5	20.0-20.5
	B	↓	59.1	22.0-22.5
	C	BROWN SILT w/GRAVEL	47.6	17.0-17.5
1445	D	↓	199.8	18.0-18.5
C5				
	A	BROWN/GRAY SILT/CLAY	171.1	25.0-25.5
	B	↓	34.2	28.0-28.5
	C	BROWN SILT w/GRAVEL	8.8	22.0-22.5
1500	D	↓	190.2	21.0-21.5

Location PES REFINERY Date 11/8

Project / Client 881 EXCAVATION

INITIAL BACKGROUND PID: 1.8 PPM

0800 BILL RANKIN ON-SITE TO COVER PHASE 1C SOIL SAMPLING

0833 NORTHSTAR MOBILIZES MACHINERY (KOMATSU PC 210) COMMENCES EXCAVATION AT SOUTH EAST CORNER OF PROPOSED EX. AREA

0830 TS TO CALIBRATE PPB RAE

0850 EXCAVATE w/ 1 FT OF MATERIAL FROM NORTH SECTION OF PROPOSED EXCAVATION AREA. PERSISTENT SMELL OF PRODUCT NOTED IN AREA.

0900 JAR HEAD SPACE READINGS TAKEN AFTER ~1.0 FT OF EXCAVATION IN ENTIRE AREA; NO SIGNS OF STAINING NOTED:

	PID
NE CORNER	288.2
NW CORNER	196.5
SE CORNER	201.3
SW CORNER	194.8
CENTER	196.5

0901 CONTINUE EXCAVATION

0925 ~~DUCE~~ CONTAINER FILLED; NORTHSTAR TO STOP EXCAVATION AND REPLACE w/ CLOWN CONTAINER.

Location PES REFINERY Date 11/8

Project / Client 881 EXCAVATION

1005	SECOND CONTAINER ARRIVED; COMMENCE EXCAVATION.
1040	TS TO PERFORM JAR TEST SCREEN

LOCATION	PID (PPM)
NE	0.6
NW	1.1
SE	20.7
SW	147.2
CENTER	122

1045	~ 2 FT OF SOIL EXCAVATED; NORTHSTAR PAUSE EXCAVATION TO REPLACE CONTAINER
1130	THIRD CONTAINER ARRIVED; CONTINUE TO EXCAVATE FROM NORTH → SOUTH TO ~4 FT BGS
1200	TS TO PERFORM PID SCREEN

LOCATION	PID	
NE	0.5	✓
NW	0.6	✓
SE	15.2	
SW	46.3	
CENTER	130.3	

1220	NORTH STAR TO REMOVE ~1 FOOT IN SE, SW, CENTER SECTIONS

Location PES REFINERY Date 11/8

Project / Client 881 EXCAVATION

LOCATION	PID
SE	2.5
SW	1.7
CENTER	20.9

1300	SOUTH END OF EXCAVATION AREA ~~SHOULD~~ CLEANED-UP; EXCAVATE ANOTHER ~1 FOOT AT CENTER

LOCATION	PID
CENTER	11.8

1310	NORTH STAR TO SCRAPE AN ADDITIONAL 6" OFF THE CENTER PORTION

Wenonah, New Jersey
609-584-0090
856-464-0224

PES REFINERY: 881 EXCAVATION PID READINGS

0900 (~1.0 FT OF EXCAVATION)

LOCATION	PID
NE CORNER	288.2
NW CORNER	196.5
SE CORNER	201.3
SW CORNER	184.8
CENTER	196.5

1040 (~2.0 FT OF EXCAVATION)

LOCATION	PID
NE	0.6
NW	1.1
SE	20.7
SW	147.2
CENTER	1222.

1200 (~4.0 FT OF EXCAVATION)

LOCATION	PID	
NE	0.5	✓
NW	0.5	✓
SE	15.2	
SW	46.3	
CENTER	130.3	

1220 (~1.0 FT OF ADDITIONAL EXCAVATION)

LOCATION	PID	
SE	2.5	✓
SW	1.7	✓
CENTER	20.9	

1240 (~1.0 FT OF ADDITIONAL EXCAVATION)

LOCATION	PID
CENTER	17.2

1300 (~1.0 FT OF ADDITIONAL EXCAVATION)

LOCATION	PID
CENTER	11.8

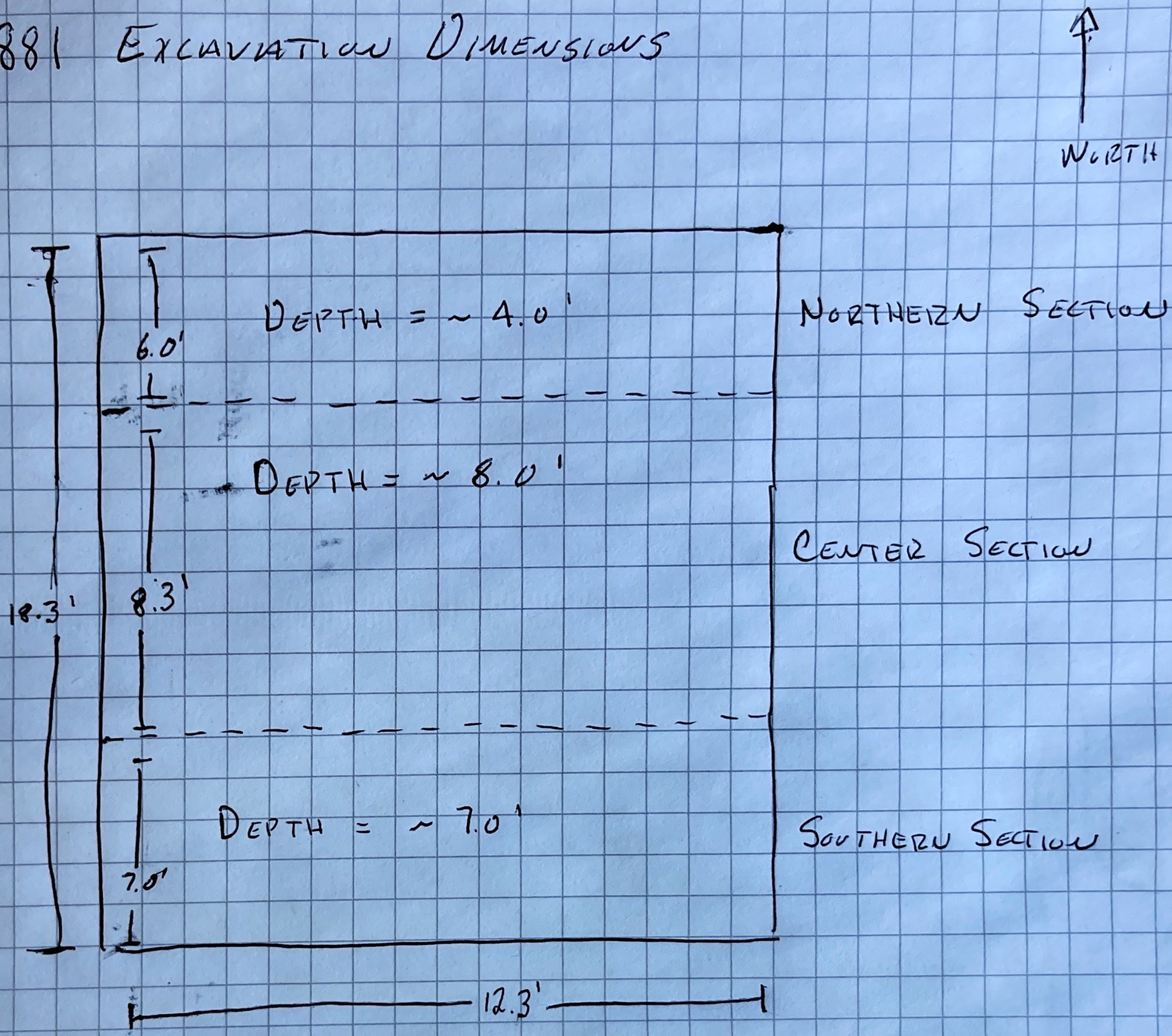
1310 (~0.5 FT OF ADDITIONAL EXCAVATION)

LOCATION	PID	
CENTER	6.2	✓

✓ = STOP EXCAVATION

EXCAVATION COMPLETE; NORTH STAR TO BUILD SLOPED ACCESS RAMP

881 Excavation Dimensions



*Not to Scale

Location Philadelphia, PA Date 5.17.22

Project / Client PES

7:12	Todd Reichert (TR) on site @ 3144 Passyunk Avenue. Clear, 58°F
ob,	Soil excavation oversight and post-excavation sampling.
	Preparing to sign in @ front office and get key card.
749	TR signed in. Tyler Shaw (TS) going to provide figure, etc. for TR work
804	Proceeding to work area w/ TS.
819	TR, TS reviewing SOW for excavation/sampling.
833	Bill Schmidt relayed excavation plans → 1.5' bgs. Boring/sample locations within excavation area - base sampling for Benzene.
851	Albert Borum (AB) provided figures of work area.
933	WS provided sampling depths for benzene and lead samples. TR going to label stakes w/ depths.
1009	Spoke w/ WS. Samples from 0-0.5 are base samples following excavation. Other samples are sidewall samples above base of excavation.

Location Philadelphia, PA Date 5.17.22

Project / Client PES

1024	WS confirmed Lead sample locations are not going to be excavated today. TR advancing DRA3-SB06R to 1.5' bgs.

Sample Log

Sample ID	Depth	Time
DRA3-SB06R-1.5-2.0	1.5-2.0	11:05
DRA3-SB09-0.0-0.5	0.0-0.5	11:15

1055	Northstar on site w/ excavator (~20 min ago). TR painted excavation area based upon stake locations.
	WS setting up rolloff container for soil.
1117	Lead samples collected. WS excavating
1130	Dike Area Reading (DAR) 2. One container full, switching to new one (~20 yds³)
1143	Dropping 2nd container for soil.
1151	TR starting Trimble GPS unit to relocate sample locations.
1217	Completed excavation. Preparing to collect samples.
	PID calibration = 100.1 ppm
1340	Sampling complete.
	Starting equipment
	Filling out COC.

Rite in the Rain

110

Location Philadelphia, PA Date 5.17.22

Project / Client PES

	Sample ID	Time	PID (ppm)
	DRA2-~~15~~SB15-0.5-1.0	12:38	0.2
	DRA2-~~16~~SB16-0.5-1.0	12:43	7.1
	DRA2-SB17-0.0-0.5	12:50	12.5
	DRA2-SB18-0.0-0.5	12:56	9.2
	DRA2-SB19-0.0-0.5	13:18	30.9
	DRA2-SB20-0.5-1.0	13:23	263.0
	DRA2-SB21-0.0-0.5	13:30	1.4
	DRA2-SB22-0.0-0.5	13:35	1.2

1349 Going to return Trimble to TS.

1401 Badge / key card returned to office.
Proceeding to lab.

1447 Samples delivered to lab.

Legend

- Approximate Release Area
- Additional Excavation Area to 1.5 ft bgs

Soil Sample Location

- Prior Sample Location
- Proposed Post-Excavation

Notes:
Aerial imagery source NearMap 11/17/2021

0 10 20 Feet

1 inch = 10 feet

N

SAFETY FIRST

terraphase engineering

CLIENT:	Philadelphia Energy Solutions Refining and Marketing LLC
PROJECT:	Pipeline Release Adjacent and West of PB 881 Dike Wall
PROJECT NUMBER:	P044.001.002

Additional Excavation Area Dike Roadway Area 2

Figure 1

File: N:\GIS\Prj\P044.001_PESRM-PES\MXDs\Pipeline Release - Dike Roadway\(20220309) Figure 3 - Soil Results - Area 2.mxd 3/16/2022 Created by: Mia Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet

Area 2 Secondary Excavation Coordinates			
Lat	Long	X_Coord*	Y_Coord*
39.911189	-75.195472	2685013.166	220868.9299
39.911201	-75.195463	2685015.698	220873.3882
39.911222	-75.195475	2685011.998	220881.1422
39.911185	-75.195494	2685006.969	220867.2317
39.911147	-75.195496	2685006.993	220853.6488
39.911139	-75.195469	2685014.487	220850.7105
39.91117	-75.195475	2685012.451	220862.2144
39.911183	-75.195456	2685017.768	220867.1261

15 0-0.5 0.5-1.0 SW
16 0-0.5 0.5-1.0 SW
17 0-0.5 0.5-0.5 B
18 0-0.5 0.0-0.5 B?
19 0-0.5 0.0-0.5
20 0-0.5 0.5-1.0 SW
21 0-0.5 0-0.5
22 0-0.5 0-0.5

* - PA South State Plane NAD 83

Chain of Custody Record

624790

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Address: _____

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

TAL-8210

Client Contact	Project Manager:	Site Contact:	Date:	COC No:
Company Name:	Tel/Email:	Lab Contact:	Carrier:	_____ of _____ COCs
Address:	Analysis Turnaround Time			Sampler:
City/State/Zip:	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name:	☑ 1 week			
Site:	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)															Sample Specific Notes:
								✓														
								✓														
								✓														
								✓														
								✓														
								✓														
								✓														
								✓														
								✓														
								✓														

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

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

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

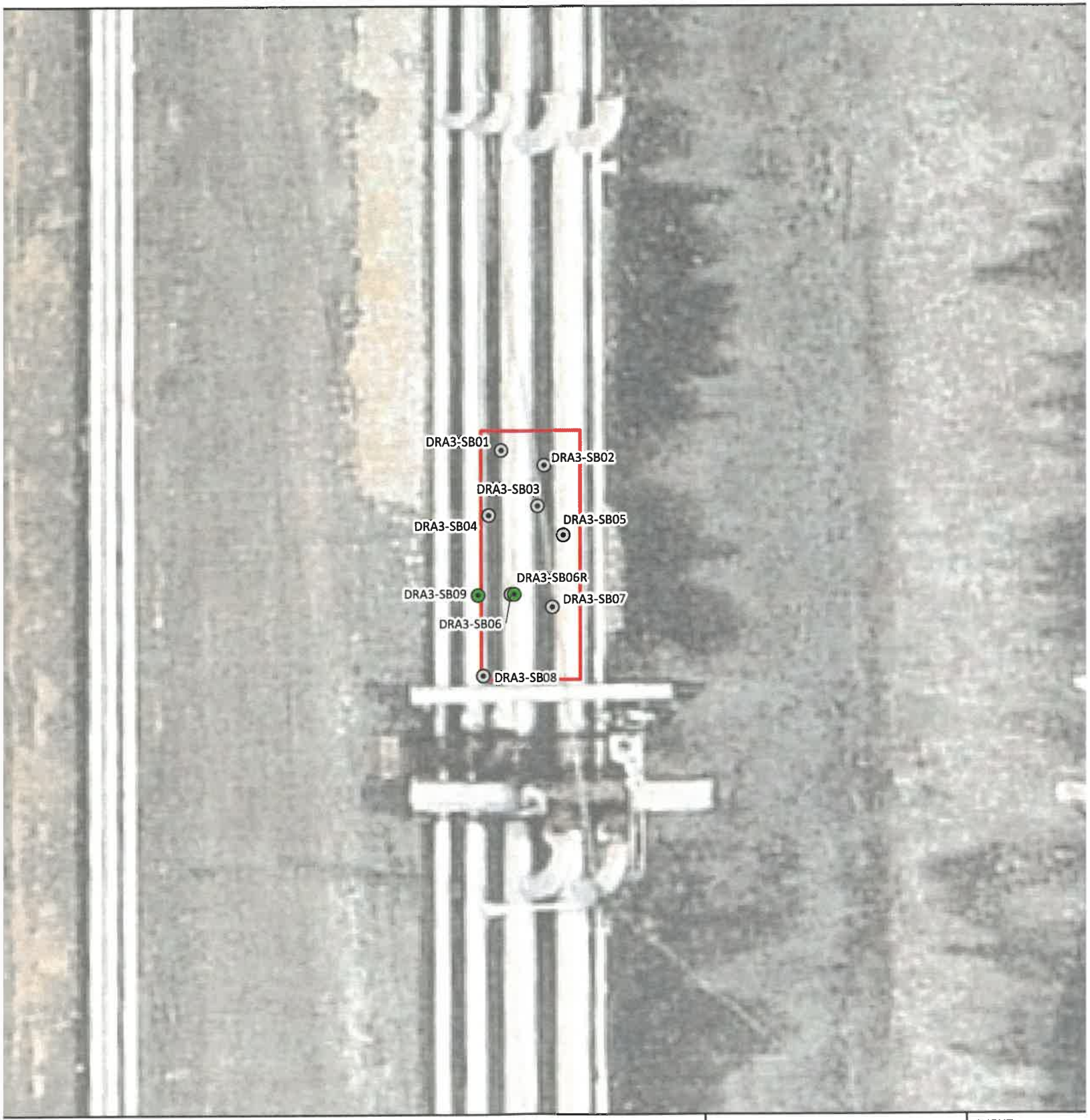
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

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

Special Instructions/QC Requirements & Comments:

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

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
				ETA	5/10/22 1445
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:



0 10 20 Feet

1 inch = 10 feet

N

SAFETY FIRST

terraphase engineering

CLIENT: Phila Ref

PROJECT: P and V

PROJECT NUMBER:

Supplemental Excavation - Area 2

1.5 ft bgs

Benzene

DRA2-SB13
DRA2-SB15
DRA2-SB22
DRA2-SB16
DRA2-SB01
DRA2-SB03R
DRA2-SB03
DRA2-SB02
DRA2-SB09
DRA2-SB11
DRA2-SB04
DRA2-SB21
DRA2-SB04R
DRA2-SB05
DRA2-SB17
DRA2-SB18
DRA2-SB07
DRA2-SB06
DRA2-SB10
DRA2-SB12
DRA2-SB19
DRA2-SB07R
DRA2-SB08
DRA2-SB20
DRA2-SB14

Legend

- Approximate Release Area
- Additional Excavation Area to 1.5 ft bgs

Soil Sample Location

- Prior Sample Location
- Proposed Post-Excavation

Notes:
Aerial imagery source NearMap 11/17/2021

0 10 20 Feet

1 inch = 10 feet

N

SAFETY FIRST

terraphase engineering

CLIENT:	Philadelphia Energy Solutions Refining and Marketing LLC
PROJECT:	Pipeline Release Adjacent and West of PB 881 Dike Wall
PROJECT NUMBER:	P044.001.002

Additional Excavation Area Dike Roadway Area 2

Figure 1

File: N:\GIS\Pr\P044.001_PESRM-PES\MXDs\Pipeline Release - Dike Roadway\20220309\Figure 3 - Soil Results - Area 2.mxd 3/16/2022 Created by: Mia Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet

Northwest Corner PID Readings
Time - PID (ppm)
0900 - 196.5
1040 - 1.1
1200 - 0.5
Note: End Excavation @ 1200 (~4 ft soil excavated)

Northeast Corner PID Readings
Time - PID (ppm)
0900 - 288.2
1040 - 0.6
1200 - 0.5
Note: End Excavation @ 1200 (~4 ft soil excavated)

Center PID Readings
Time - PID (ppm)
0900 - 196.5
1040 - 1222
1200 - 130.3
1220 - 20.9
12:40 - 17.2
13:00 - 11.8
13:10 - 6.2
Note: End Excavation @ 13:10 (~8 ft of soil excavated)

Southwest Corner PID Readings
Time - PID (ppm)
0900 - 184.8
1040 - 147.2
1200 - 46.3
1220 - 1.7
Note: End Excavation @ 12:20 (~7 ft of soil excavated)

Southeast Corner PID Readings
Time - PID (ppm)
0900 - 201.3
1040 - 20.7
1200 - 15.2
1220 - 2.5
Note: End Excavation @ 12:20 (~7 ft of soil excavated)

DRA2-SB13
DRA2-SB15
DRA2-SB22
DRA2-SB16
DRA2-SB01
DRA2-SB03/03R
DRA2-SB02
DRA2-SB11
DRA2-SB09
DRA2-SB04/04R
DRA2-SB21
DRA2-SB17
DRA2-SB23
DRA2-SB24
DRA2-SB05
DRA2-SB25
DRA2-SB18
DRA2-SB19
DRA2-SB07
DRA2-SB06
DRA2-SB10
DRA2-SB12
DRA2-SB20
DRA2-SB08
DRA2-SB26
DRA2-SB27
DRA2-SB28
DRA2-SB29
DRA2-SB30
DRA2-SB14

Northern Section Depth = ~4'
Center Section Depth = ~8'
Southern Section Depth = ~7'
~21'-4"
~8'-4"
~7'
12'-3"

Legend
- Approximate Release Area
- Inital Excavation Area
- Proposed Excavation Area

Soil Sample Location
- Prior Sample Location
- Proposed

Note:
Aerial imagery source NearMap 11/17/2021

0 10 20 Feet
1 inch = 10 feet

N

SAFETY FIRST

terraphase engineering

CLIENT: Philadelphia Energy Solutions Refining and Marketing LLC
PROJECT: Pipeline Release Adjacent and West of PB 881 Dike Wall
PROJECT NUMBER: P044.001.002

Proposed Soil Sampling Locations Dike Roadway Area 2

Figure 1

File: N:\GIS\Prj\P044.001_PESRM-PES\MXDs\Pipeline Release - Dike Roadway\(20220622) Figure 1 - Proposed Sampling - Area 2.mxd 7/1/2022 Created by: Mia Coordinate System: NAD 1983 StatePlane Pennsylvania South FIPS 3702 Feet

Appendix F

Laboratory Reports

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ANALYTICAL REPORT

PREPARED FOR

Attn: William Schmidt
Ransom Consulting LLC
2127 Hamilton Ave
Hamilton NJ 08619

Generated 10/10/2023 12:43 PM Revision 4

JOB DESCRIPTION

PES Refinery

JOB NUMBER

460-258307-1

Eurofins Edison
777 New Durham Road
Edison NJ 08817

See page two for job notes and contact information.

myEOL

Eurofins Edison

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing Northeast, LLC Edison and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Edison Project Manager or designee who has signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization

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Revision 4

Authorized for release by
Grace Chang, Project Manager II
Grace.Chang@et.eurofinsus.com
732 593-2579

Table of Contents

Table of Contents

Table of Contents

CASE NARRATIVE

Client: Ransom Consulting LLC

Project: PES Refinery

Report Number: 460-258307-1

Revision 1 (Compound list corrected to match chain of custody)

Revision 2 (Compounds added to VOC list for samples 7 & 8)

Revision 3:

Report the additional following chemicals for these two samples (460-258307-1 and 460-258307-2) and reissue the report/EDD for this job.

Volatile Organic Compounds

Benzene
Cumene
1,2-Dibromoethane
1,2-Dichloroethane
Ethyl Benzene
Methyl tert-butyl ether
Toluene
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
Xylenes (total)

Revision 4 (1,2-dibromoethane, 1,2-dichloroethane, MTBE & Lead removed from report)

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 5/17/2022 7:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.8º C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS (GC/MS)
Samples DRA2-SB15-0.5-1.0 (460-258307-1), DRA2-SB16-0.5-1.0 (460-258307-2), DRA2-SB17-0.0-0.5 (460-258307-3), DRA2-SB18-0.0-0.5 (460-258307-4), DRA2-SB19-0.0-0.5 (460-258307-5), DRA2-SB20-0.5-1.0 (460-258307-6), DRA2-SB21-0.0-0.5 (460-258307-7) and DRA2-SB22-0.0-0.5 (460-258307-8) were analyzed for Volatile Organic Compounds (GC/MS) in accordance with EPA SW-846 Method 8260D. The samples were prepared on 05/18/2022 and analyzed on 05/20/2022, 05/21/2022 and 05/23/2022.

The following samples were diluted to bring the concentration of target analytes within the calibration range: DRA2-SB19-0.0-0.5 (460-258307-5) and DRA2-SB20-0.5-1.0 (460-258307-6). Elevated reporting limits (RLs) are provided.

The following sample was diluted to bring the concentration of target analytes within the calibration range: DRA2-SB17-0.0-0.5 (460-258307-3). Elevated reporting limits (RLs) are provided.

No difficulties were encountered during the Volatiles analysis.

All quality control parameters were within the acceptance limits.

PERCENT SOLIDS/PERCENT MOISTURE

Samples DRA2-SB15-0.5-1.0 (460-258307-1), DRA2-SB16-0.5-1.0 (460-258307-2), DRA2-SB17-0.0-0.5 (460-258307-3), DRA2-SB18-0.0-0.5 (460-258307-4), DRA2-SB19-0.0-0.5 (460-258307-5), DRA2-SB20-0.5-1.0 (460-258307-6), DRA2-SB21-0.0-0.5 (460-258307-7), DRA2-SB22-0.0-0.5 (460-258307-8), DRA3-SB06R-1.5-2.0 (460-258307-9) and DRA3-SB09-0.0-0.5 (460-258307-10) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 05/18/2022 and 05/20/2022.

Percent Moisture exceeded the RPD limit for the duplicate of sample 460-258485-7. Refer to the QC report for details.

No other difficulties were encountered during the %solids/moisture analysis.

All other quality control parameters were within the acceptance limits.

Sample Summary

Client: Ransom Consulting LLC
Project/Site: PES Refinery

Job ID: 460-258307-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-258307-1	DRA2-SB15-0.5-1.0	Solid	05/17/22 12:38	05/17/22 19:30
460-258307-2	DRA2-SB16-0.5-1.0	Solid	05/17/22 12:43	05/17/22 19:30
460-258307-3	DRA2-SB17-0.0-0.5	Solid	05/17/22 12:50	05/17/22 19:30
460-258307-4	DRA2-SB18-0.0-0.5	Solid	05/17/22 12:56	05/17/22 19:30
460-258307-5	DRA2-SB19-0.0-0.5	Solid	05/17/22 13:18	05/17/22 19:30
460-258307-6	DRA2-SB20-0.5-1.0	Solid	05/17/22 13:23	05/17/22 19:30
460-258307-7	DRA2-SB21-1.5-2.0	Solid	05/17/22 13:30	05/17/22 19:30
460-258307-8	DRA2-SB22-0.0-0.5	Solid	05/17/22 13:35	05/17/22 19:30

Detection Summary

Client: Ransom Consulting LLC
Project/Site: PES Refinery

Job ID: 460-258307-1

Client Sample ID: DRA2-SB15-0.5-1.0 — Lab Sample ID: 460-258307-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	0.37	J	2.1	0.18	ug/Kg	1	☼	8260D	Total/NA
1,2,4-Trimethylbenzene	0.41	J	1.1	0.26	ug/Kg	1	☼	8260D	Total/NA

Client Sample ID: DRA2-SB16-0.5-1.0 — Lab Sample ID: 460-258307-2

No Detections.

Client Sample ID: DRA2-SB17-0.0-0.5 — Lab Sample ID: 460-258307-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1200		120	24	ug/Kg	50	☼	8260D	Total/NA

Client Sample ID: DRA2-SB18-0.0-0.5 — Lab Sample ID: 460-258307-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	440		1.0	0.27	ug/Kg	1	☼	8260D	Total/NA

Client Sample ID: DRA2-SB19-0.0-0.5 — Lab Sample ID: 460-258307-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3400		110	23	ug/Kg	50	☼	8260D	Total/NA

Client Sample ID: DRA2-SB20-0.5-1.0 — Lab Sample ID: 460-258307-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	80000		1200	250	ug/Kg	500	☼	8260D	Total/NA

Client Sample ID: DRA2-SB21-1.5-2.0 — Lab Sample ID: 460-258307-7

No Detections.

Client Sample ID: DRA2-SB22-0.0-0.5 — Lab Sample ID: 460-258307-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.74	J	1.1	0.21	ug/Kg	1	☼	8260D	Total/NA
Xylenes, Total	5.4		2.1	0.19	ug/Kg	1	☼	8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Ransom Consulting LLC
Project/Site: PES Refinery

Job ID: 460-258307-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET EDI
Moisture	Percent Moisture	EPA	EET EDI
5035	Closed System Purge and Trap	SW846	EET EDI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Client Sample ID: DRA2-SB15-0.5-1.0

Lab Sample ID: 460-258307-1

Date Collected: 05/17/22 12:38
Matrix: Solid
Date Received: 05/17/22 19:30
Percent Solids: 83.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.27	U	1.1	0.27	ug/Kg	☼	05/18/22 10:26	05/20/22 14:32	1
Ethylbenzene	0.21	U	1.1	0.21	ug/Kg	☼	05/18/22 10:26	05/20/22 14:32	1
Toluene	0.25	U	1.1	0.25	ug/Kg	☼	05/18/22 10:26	05/20/22 14:32	1
Xylenes, Total	**0.37**	**J**	2.1	0.18	ug/Kg	☼	05/18/22 10:26	05/20/22 14:32	1
1,2,4-Trimethylbenzene	**0.41**	**J**	1.1	0.26	ug/Kg	☼	05/18/22 10:26	05/20/22 14:32	1
1,3,5-Trimethylbenzene	0.33	U	1.1	0.33	ug/Kg	☼	05/18/22 10:26	05/20/22 14:32	1
Cumene	0.30	U	1.1	0.30	ug/Kg	☼	05/18/22 10:26	05/20/22 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*72 - 145*	*05/18/22 10:26*	*05/20/22 14:32*	*1*
4-Bromofluorobenzene	*121*		*75 - 139*	*05/18/22 10:26*	*05/20/22 14:32*	*1*
Dibromofluoromethane (Surr)	*111*		*73 - 139*	*05/18/22 10:26*	*05/20/22 14:32*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*	*05/18/22 10:26*	*05/20/22 14:32*	*1*

Client Sample ID: DRA2-SB16-0.5-1.0

Lab Sample ID: 460-258307-2

Date Collected: 05/17/22 12:43
Matrix: Solid
Date Received: 05/17/22 19:30
Percent Solids: 81.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.28	U	1.1	0.28	ug/Kg	☼	05/18/22 10:27	05/20/22 14:55	1
Ethylbenzene	0.22	U	1.1	0.22	ug/Kg	☼	05/18/22 10:27	05/20/22 14:55	1
Toluene	0.26	U	1.1	0.26	ug/Kg	☼	05/18/22 10:27	05/20/22 14:55	1
Xylenes, Total	0.19	U	2.2	0.19	ug/Kg	☼	05/18/22 10:27	05/20/22 14:55	1
1,2,4-Trimethylbenzene	0.27	U	1.1	0.27	ug/Kg	☼	05/18/22 10:27	05/20/22 14:55	1
1,3,5-Trimethylbenzene	0.34	U	1.1	0.34	ug/Kg	☼	05/18/22 10:27	05/20/22 14:55	1
Cumene	0.31	U	1.1	0.31	ug/Kg	☼	05/18/22 10:27	05/20/22 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 145*	*05/18/22 10:27*	*05/20/22 14:55*	*1*
4-Bromofluorobenzene	*107*		*75 - 139*	*05/18/22 10:27*	*05/20/22 14:55*	*1*
Dibromofluoromethane (Surr)	*96*		*73 - 139*	*05/18/22 10:27*	*05/20/22 14:55*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*	*05/18/22 10:27*	*05/20/22 14:55*	*1*

Client Sample ID: DRA2-SB17-0.0-0.5

Lab Sample ID: 460-258307-3

Date Collected: 05/17/22 12:50
Matrix: Solid
Date Received: 05/17/22 19:30
Percent Solids: 82.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1200**		120	24	ug/Kg	☼	05/18/22 10:17	05/23/22 09:43	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*68 - 150*	*05/18/22 10:17*	*05/23/22 09:43*	*50*
4-Bromofluorobenzene	*110*		*70 - 150*	*05/18/22 10:17*	*05/23/22 09:43*	*50*
Dibromofluoromethane (Surr)	*95*		*68 - 150*	*05/18/22 10:17*	*05/23/22 09:43*	*50*
Toluene-d8 (Surr)	*106*		*80 - 147*	*05/18/22 10:17*	*05/23/22 09:43*	*50*

Client Sample ID: DRA2-SB18-0.0-0.5

Lab Sample ID: 460-258307-4
Date Collected: 05/17/22 12:56
Matrix: Solid
Date Received: 05/17/22 19:30
Percent Solids: 83.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	440		1.0	0.27	ug/Kg	☼	05/18/22 10:30	05/21/22 11:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*72 - 145*	*05/18/22 10:30*	*05/21/22 11:00*	*1*
4-Bromofluorobenzene	*105*		*75 - 139*	*05/18/22 10:30*	*05/21/22 11:00*	*1*
Dibromofluoromethane (Surr)	*97*		*73 - 139*	*05/18/22 10:30*	*05/21/22 11:00*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*	*05/18/22 10:30*	*05/21/22 11:00*	*1*

Client Sample ID: DRA2-SB19-0.0-0.5

Lab Sample ID: 460-258307-5
Date Collected: 05/17/22 13:18
Matrix: Solid
Date Received: 05/17/22 19:30
Percent Solids: 82.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3400		110	23	ug/Kg	☼	05/18/22 10:18	05/20/22 10:00	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*70*		*68 - 150*	*05/18/22 10:18*	*05/20/22 10:00*	*50*
4-Bromofluorobenzene	*109*		*70 - 150*	*05/18/22 10:18*	*05/20/22 10:00*	*50*
Dibromofluoromethane (Surr)	*75*		*68 - 150*	*05/18/22 10:18*	*05/20/22 10:00*	*50*
Toluene-d8 (Surr)	*91*		*80 - 147*	*05/18/22 10:18*	*05/20/22 10:00*	*50*

Client Sample ID: DRA2-SB20-0.5-1.0

Lab Sample ID: 460-258307-6
Date Collected: 05/17/22 13:23
Matrix: Solid
Date Received: 05/17/22 19:30
Percent Solids: 83.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	80000		1200	250	ug/Kg	☼	05/18/22 10:19	05/20/22 13:12	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*68 - 150*	*05/18/22 10:19*	*05/20/22 13:12*	*500*
4-Bromofluorobenzene	*89*		*70 - 150*	*05/18/22 10:19*	*05/20/22 13:12*	*500*
Dibromofluoromethane (Surr)	*87*		*68 - 150*	*05/18/22 10:19*	*05/20/22 13:12*	*500*
Toluene-d8 (Surr)	*127*		*80 - 147*	*05/18/22 10:19*	*05/20/22 13:12*	*500*

Client Sample ID: DRA2-SB21-1.5-2.0

Lab Sample ID: 460-258307-7
Date Collected: 05/17/22 13:30
Matrix: Solid
Date Received: 05/17/22 19:30
Percent Solids: 81.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.27	U	1.0	0.27	ug/Kg	☼	05/18/22 10:32	05/20/22 16:26	1
Ethylbenzene	0.21	U	1.0	0.21	ug/Kg	☼	05/18/22 10:32	05/20/22 16:26	1
Toluene	0.24	U	1.0	0.24	ug/Kg	☼	05/18/22 10:32	05/20/22 16:26	1
Xylenes, Total	0.18	U	2.1	0.18	ug/Kg	☼	05/18/22 10:32	05/20/22 16:26	1
1,2,4-Trimethylbenzene	0.25	U	1.0	0.25	ug/Kg	☼	05/18/22 10:32	05/20/22 16:26	1
1,3,5-Trimethylbenzene	0.32	U	1.0	0.32	ug/Kg	☼	05/18/22 10:32	05/20/22 16:26	1
Cumene	0.29	U	1.0	0.29	ug/Kg	☼	05/18/22 10:32	05/20/22 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*72 - 145*	*05/18/22 10:32*	*05/20/22 16:26*	*1*

Client Sample ID: DRA2-SB21-1.5-2.0

Lab Sample ID: 460-258307-7

Date Collected: 05/17/22 13:30
Matrix: Solid
Date Received: 05/17/22 19:30
Percent Solids: 81.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*75 - 139*	*05/18/22 10:32*	*05/20/22 16:26*	*1*
Dibromofluoromethane (Surr)	*96*		*73 - 139*	*05/18/22 10:32*	*05/20/22 16:26*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*	*05/18/22 10:32*	*05/20/22 16:26*	*1*

Client Sample ID: DRA2-SB22-0.0-0.5

Lab Sample ID: 460-258307-8

Date Collected: 05/17/22 13:35
Matrix: Solid
Date Received: 05/17/22 19:30
Percent Solids: 81.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.28	U	1.1	0.28	ug/Kg	☼	05/18/22 10:34	05/21/22 10:37	1
Ethylbenzene	**0.74**	**J**	1.1	0.21	ug/Kg	☼	05/18/22 10:34	05/21/22 10:37	1
Toluene	0.25	U	1.1	0.25	ug/Kg	☼	05/18/22 10:34	05/21/22 10:37	1
Xylenes, Total	**5.4**		2.1	0.19	ug/Kg	☼	05/18/22 10:34	05/21/22 10:37	1
1,2,4-Trimethylbenzene	0.26	U	1.1	0.26	ug/Kg	☼	05/18/22 10:34	05/21/22 10:37	1
1,3,5-Trimethylbenzene	0.34	U	1.1	0.34	ug/Kg	☼	05/18/22 10:34	05/21/22 10:37	1
Cumene	0.30	U	1.1	0.30	ug/Kg	☼	05/18/22 10:34	05/21/22 10:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*72 - 145*	*05/18/22 10:34*	*05/21/22 10:37*	*1*
4-Bromofluorobenzene	*101*		*75 - 139*	*05/18/22 10:34*	*05/21/22 10:37*	*1*
Dibromofluoromethane (Surr)	*97*		*73 - 139*	*05/18/22 10:34*	*05/21/22 10:37*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*	*05/18/22 10:34*	*05/21/22 10:37*	*1*

Surrogate Summary

Client: Ransom Consulting LLC
Project/Site: PES Refinery

Job ID: 460-258307-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(72-145)	(75-139)	(73-139)	(80-120)
460-258307-1	DRA2-SB15-0.5-1.0	119	121	111	103
460-258307-2	DRA2-SB16-0.5-1.0	102	107	96	94
460-258307-4	DRA2-SB18-0.0-0.5	106	105	97	99
460-258307-7	DRA2-SB21-1.5-2.0	103	103	96	96
460-258307-8	DRA2-SB22-0.0-0.5	98	101	97	93
LB3 460-845242/1-A	Method Blank	97	101	95	98
LCS 460-845591/3	Lab Control Sample	99	106	94	97
LCS 460-845827/3	Lab Control Sample	105	104	98	95
LCS 460-846050/4	Lab Control Sample	102	102	98	98
LCSD 460-845591/4	Lab Control Sample Dup	106	111	103	102
LCSD 460-845827/4	Lab Control Sample Dup	108	109	98	99
LCSD 460-846050/5	Lab Control Sample Dup	100	98	92	96
MB 460-845591/7	Method Blank	101	89	101	97
MB 460-845827/7	Method Blank	108	102	98	101
MB 460-846050/8	Method Blank	108	102	98	96

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(68-150)	(70-150)	(68-150)	(80-147)
460-258307-3	DRA2-SB17-0.0-0.5	99	110	95	106
460-258307-5	DRA2-SB19-0.0-0.5	70	109	75	91
460-258307-6	DRA2-SB20-0.5-1.0	96	89	87	127
LCS 460-845588/3	Lab Control Sample	83	107	94	99
LCS 460-846046/4	Lab Control Sample	92	97	91	94
LCSD 460-845588/4	Lab Control Sample Dup	81	95	93	89
LCSD 460-846046/5	Lab Control Sample Dup	98	101	97	99
MB 460-845588/9	Method Blank	83	99	99	93
MB 460-846046/10	Method Blank	101	109	101	111

Surrogate Legend

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

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

Lab Sample ID: LB3 460-845242/1-A
Matrix: Solid
Analysis Batch: 846050

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 845242

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.26	U	1.0	0.26	ug/Kg		05/18/22 10:22	05/23/22 12:42	1
Ethylbenzene	0.20	U	1.0	0.20	ug/Kg		05/18/22 10:22	05/23/22 12:42	1
Toluene	0.23	U	1.0	0.23	ug/Kg		05/18/22 10:22	05/23/22 12:42	1
Xylenes, Total	0.17	U	2.0	0.17	ug/Kg		05/18/22 10:22	05/23/22 12:42	1
1,2,4-Trimethylbenzene	0.25	U	1.0	0.25	ug/Kg		05/18/22 10:22	05/23/22 12:42	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/Kg		05/18/22 10:22	05/23/22 12:42	1
Cumene	0.29	U	1.0	0.29	ug/Kg		05/18/22 10:22	05/23/22 12:42	1

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*72 - 145*	*05/18/22 10:22*	*05/23/22 12:42*	*1*
4-Bromofluorobenzene	*101*		*75 - 139*	*05/18/22 10:22*	*05/23/22 12:42*	*1*
Dibromofluoromethane (Surr)	*95*		*73 - 139*	*05/18/22 10:22*	*05/23/22 12:42*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*	*05/18/22 10:22*	*05/23/22 12:42*	*1*

Lab Sample ID: MB 460-845588/9
Matrix: Solid
Analysis Batch: 845588

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	10	U	50	10	ug/Kg			05/20/22 08:47	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*68 - 150*		*05/20/22 08:47*	*50*
4-Bromofluorobenzene	*99*		*70 - 150*		*05/20/22 08:47*	*50*
Dibromofluoromethane (Surr)	*99*		*68 - 150*		*05/20/22 08:47*	*50*
Toluene-d8 (Surr)	*93*		*80 - 147*		*05/20/22 08:47*	*50*

Lab Sample ID: LCS 460-845588/3
Matrix: Solid
Analysis Batch: 845588

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1000	930		ug/Kg		93	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*83*		*68 - 150*
4-Bromofluorobenzene	*107*		*70 - 150*
Dibromofluoromethane (Surr)	*94*		*68 - 150*
Toluene-d8 (Surr)	*99*		*80 - 147*

Lab Sample ID: LCSD 460-845588/4
Matrix: Solid
Analysis Batch: 845588

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			1000	841		ug/Kg		84	80 - 120	10	30

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

Lab Sample ID: LCSD 460-845588/4
Matrix: Solid
Analysis Batch: 845588

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	81		68 - 150
4-Bromofluorobenzene	95		70 - 150
Dibromofluoromethane (Surr)	93		68 - 150
Toluene-d8 (Surr)	89		80 - 147

Lab Sample ID: MB 460-845591/7
Matrix: Solid
Analysis Batch: 845591

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.26	U	1.0	0.26	ug/Kg			05/20/22 07:43	1
Ethylbenzene	0.20	U	1.0	0.20	ug/Kg			05/20/22 07:43	1
Toluene	0.23	U	1.0	0.23	ug/Kg			05/20/22 07:43	1
Xylenes, Total	0.17	U	2.0	0.17	ug/Kg			05/20/22 07:43	1
1,2,4-Trimethylbenzene	0.25	U	1.0	0.25	ug/Kg			05/20/22 07:43	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/Kg			05/20/22 07:43	1
Cumene	0.29	U	1.0	0.29	ug/Kg			05/20/22 07:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		72 - 145		05/20/22 07:43	1
4-Bromofluorobenzene	89		75 - 139		05/20/22 07:43	1
Dibromofluoromethane (Surr)	101		73 - 139		05/20/22 07:43	1
Toluene-d8 (Surr)	97		80 - 120		05/20/22 07:43	1

Lab Sample ID: LCS 460-845591/3
Matrix: Solid
Analysis Batch: 845591

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane	20.0	19.2		ug/Kg		96	79 - 120
Benzene	20.0	17.0		ug/Kg		85	80 - 123
Ethylbenzene	20.0	18.9		ug/Kg		95	76 - 120
Methyl tert-butyl ether	20.0	20.1		ug/Kg		100	80 - 125
Toluene	20.0	19.3		ug/Kg		96	80 - 120
Xylenes, Total	40.0	39.0		ug/Kg		97	80 - 120
1,2,4-Trimethylbenzene	20.0	19.9		ug/Kg		99	79 - 120
1,2-Dichloroethane	20.0	20.8		ug/Kg		104	75 - 123
1,3,5-Trimethylbenzene	20.0	20.0		ug/Kg		100	79 - 120
Cumene	20.0	19.6		ug/Kg		98	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		72 - 145
4-Bromofluorobenzene	106		75 - 139
Dibromofluoromethane (Surr)	94		73 - 139
Toluene-d8 (Surr)	97		80 - 120

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

Lab Sample ID: LCSD 460-845591/4
Matrix: Solid
Analysis Batch: 845591

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
1,2-Dibromoethane			20.0	20.9		ug/Kg		105	79 - 120	9	30
Benzene			20.0	20.8		ug/Kg		104	80 - 123	20	30
Ethylbenzene			20.0	20.9		ug/Kg		104	76 - 120	10	30
Methyl tert-butyl ether			20.0	22.3		ug/Kg		112	80 - 125	11	30
Toluene			20.0	20.7		ug/Kg		103	80 - 120	7	30
Xylenes, Total			40.0	42.3		ug/Kg		106	80 - 120	8	30
1,2,4-Trimethylbenzene			20.0	22.1		ug/Kg		111	79 - 120	11	30
1,2-Dichloroethane			20.0	22.6		ug/Kg		113	75 - 123	8	30
1,3,5-Trimethylbenzene			20.0	22.4		ug/Kg		112	79 - 120	12	30
Cumene			20.0	21.1		ug/Kg		106	80 - 120	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*72 - 145*
4-Bromofluorobenzene	*111*		*75 - 139*
Dibromofluoromethane (Surr)	*103*		*73 - 139*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: MB 460-845827/7
Matrix: Solid
Analysis Batch: 845827

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.26	U	1.0	0.26	ug/Kg			05/21/22 10:15	1
Ethylbenzene	0.20	U	1.0	0.20	ug/Kg			05/21/22 10:15	1
Toluene	0.23	U	1.0	0.23	ug/Kg			05/21/22 10:15	1
Xylenes, Total	0.17	U	2.0	0.17	ug/Kg			05/21/22 10:15	1
1,2,4-Trimethylbenzene	0.25	U	1.0	0.25	ug/Kg			05/21/22 10:15	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/Kg			05/21/22 10:15	1
Cumene	0.29	U	1.0	0.29	ug/Kg			05/21/22 10:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*72 - 145*		*05/21/22 10:15*	*1*
4-Bromofluorobenzene	*102*		*75 - 139*		*05/21/22 10:15*	*1*
Dibromofluoromethane (Surr)	*98*		*73 - 139*		*05/21/22 10:15*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*05/21/22 10:15*	*1*

Lab Sample ID: LCS 460-845827/3
Matrix: Solid
Analysis Batch: 845827

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane			20.0	18.8		ug/Kg		94	79 - 120
Benzene			20.0	19.1		ug/Kg		96	80 - 123
Ethylbenzene			20.0	19.0		ug/Kg		95	76 - 120
Methyl tert-butyl ether			20.0	20.7		ug/Kg		103	80 - 125
Toluene			20.0	18.6		ug/Kg		93	80 - 120
Xylenes, Total			40.0	39.4		ug/Kg		98	80 - 120
1,2,4-Trimethylbenzene			20.0	20.5		ug/Kg		103	79 - 120

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

Lab Sample ID: LCS 460-845827/3
Matrix: Solid
Analysis Batch: 845827

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2-Dichloroethane			20.0	21.8		ug/Kg		109	75 - 123		
1,3,5-Trimethylbenzene			20.0	20.8		ug/Kg		104	79 - 120		
Cumene			20.0	19.8		ug/Kg		99	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*72 - 145*
4-Bromofluorobenzene	*104*		*75 - 139*
Dibromofluoromethane (Surr)	*98*		*73 - 139*
Toluene-d8 (Surr)	*95*		*80 - 120*

Lab Sample ID: LCSD 460-845827/4
Matrix: Solid
Analysis Batch: 845827

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
1,2-Dibromoethane			20.0	19.5		ug/Kg		98	79 - 120	4	30
Benzene			20.0	20.3		ug/Kg		102	80 - 123	6	30
Ethylbenzene			20.0	20.3		ug/Kg		101	76 - 120	6	30
Methyl tert-butyl ether			20.0	21.7		ug/Kg		109	80 - 125	5	30
Toluene			20.0	19.5		ug/Kg		98	80 - 120	5	30
Xylenes, Total			40.0	40.4		ug/Kg		101	80 - 120	3	30
1,2,4-Trimethylbenzene			20.0	21.6		ug/Kg		108	79 - 120	5	30
1,2-Dichloroethane			20.0	22.9		ug/Kg		115	75 - 123	5	30
1,3,5-Trimethylbenzene			20.0	22.1		ug/Kg		111	79 - 120	6	30
Cumene			20.0	20.0		ug/Kg		100	80 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*72 - 145*
4-Bromofluorobenzene	*109*		*75 - 139*
Dibromofluoromethane (Surr)	*98*		*73 - 139*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: MB 460-846046/10
Matrix: Solid
Analysis Batch: 846046

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	10	U	50	10	ug/Kg			05/23/22 08:44	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*68 - 150*		*05/23/22 08:44*	*50*
4-Bromofluorobenzene	*109*		*70 - 150*		*05/23/22 08:44*	*50*
Dibromofluoromethane (Surr)	*101*		*68 - 150*		*05/23/22 08:44*	*50*
Toluene-d8 (Surr)	*111*		*80 - 147*		*05/23/22 08:44*	*50*

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

Lab Sample ID: LCS 460-846046/4
Matrix: Solid
Analysis Batch: 846046

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1000	858		ug/Kg		86	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*68 - 150*
4-Bromofluorobenzene	*97*		*70 - 150*
Dibromofluoromethane (Surr)	*91*		*68 - 150*
Toluene-d8 (Surr)	*94*		*80 - 147*

Lab Sample ID: LCSD 460-846046/5
Matrix: Solid
Analysis Batch: 846046

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			1000	904		ug/Kg		90	80 - 120	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*68 - 150*
4-Bromofluorobenzene	*101*		*70 - 150*
Dibromofluoromethane (Surr)	*97*		*68 - 150*
Toluene-d8 (Surr)	*99*		*80 - 147*

Lab Sample ID: MB 460-846050/8
Matrix: Solid
Analysis Batch: 846050

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.26	U	1.0	0.26	ug/Kg			05/23/22 09:17	1
Ethylbenzene	0.20	U	1.0	0.20	ug/Kg			05/23/22 09:17	1
Toluene	0.23	U	1.0	0.23	ug/Kg			05/23/22 09:17	1
Xylenes, Total	0.17	U	2.0	0.17	ug/Kg			05/23/22 09:17	1
1,2,4-Trimethylbenzene	0.25	U	1.0	0.25	ug/Kg			05/23/22 09:17	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/Kg			05/23/22 09:17	1
Cumene	0.29	U	1.0	0.29	ug/Kg			05/23/22 09:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*72 - 145*		*05/23/22 09:17*	*1*
4-Bromofluorobenzene	*102*		*75 - 139*		*05/23/22 09:17*	*1*
Dibromofluoromethane (Surr)	*98*		*73 - 139*		*05/23/22 09:17*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*05/23/22 09:17*	*1*

Lab Sample ID: LCS 460-846050/4
Matrix: Solid
Analysis Batch: 846050

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2-Dibromoethane			20.0	18.7		ug/Kg		93	79 - 120		
Benzene			20.0	19.1		ug/Kg		96	80 - 123		
Ethylbenzene			20.0	17.8		ug/Kg		89	76 - 120		

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

Lab Sample ID: LCS 460-846050/4
Matrix: Solid
Analysis Batch: 846050

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methyl tert-butyl ether			20.0	20.0		ug/Kg		100	80 - 125		
Toluene			20.0	18.5		ug/Kg		92	80 - 120		
Xylenes, Total			40.0	37.4		ug/Kg		94	80 - 120		
1,2,4-Trimethylbenzene			20.0	19.1		ug/Kg		95	79 - 120		
1,2-Dichloroethane			20.0	21.4		ug/Kg		107	75 - 123		
1,3,5-Trimethylbenzene			20.0	19.4		ug/Kg		97	79 - 120		
Cumene			20.0	18.9		ug/Kg		95	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 145*
4-Bromofluorobenzene	*102*		*75 - 139*
Dibromofluoromethane (Surr)	*98*		*73 - 139*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: LCSD 460-846050/5
Matrix: Solid
Analysis Batch: 846050

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
1,2-Dibromoethane			20.0	18.5		ug/Kg		92	79 - 120	1	30
Benzene			20.0	19.6		ug/Kg		98	80 - 123	2	30
Ethylbenzene			20.0	18.9		ug/Kg		94	76 - 120	6	30
Methyl tert-butyl ether			20.0	20.4		ug/Kg		102	80 - 125	2	30
Toluene			20.0	19.5		ug/Kg		97	80 - 120	5	30
Xylenes, Total			40.0	39.6		ug/Kg		99	80 - 120	6	30
1,2,4-Trimethylbenzene			20.0	20.1		ug/Kg		101	79 - 120	5	30
1,2-Dichloroethane			20.0	21.8		ug/Kg		109	75 - 123	2	30
1,3,5-Trimethylbenzene			20.0	19.9		ug/Kg		99	79 - 120	2	30
Cumene			20.0	19.8		ug/Kg		99	80 - 120	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 145*
4-Bromofluorobenzene	*98*		*75 - 139*
Dibromofluoromethane (Surr)	*92*		*73 - 139*
Toluene-d8 (Surr)	*96*		*80 - 120*

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.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

GC/MS VOA

Prep Batch: 845239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-258307-3	DRA2-SB17-0.0-0.5	Total/NA	Solid	5035	
460-258307-5	DRA2-SB19-0.0-0.5	Total/NA	Solid	5035	
460-258307-6	DRA2-SB20-0.5-1.0	Total/NA	Solid	5035	

Prep Batch: 845242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-258307-1	DRA2-SB15-0.5-1.0	Total/NA	Solid	5035	
460-258307-2	DRA2-SB16-0.5-1.0	Total/NA	Solid	5035	
460-258307-4	DRA2-SB18-0.0-0.5	Total/NA	Solid	5035	
460-258307-7	DRA2-SB21-1.5-2.0	Total/NA	Solid	5035	
460-258307-8	DRA2-SB22-0.0-0.5	Total/NA	Solid	5035	
LB3 460-845242/1-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 845588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-258307-5	DRA2-SB19-0.0-0.5	Total/NA	Solid	8260D	845239
460-258307-6	DRA2-SB20-0.5-1.0	Total/NA	Solid	8260D	845239
MB 460-845588/9	Method Blank	Total/NA	Solid	8260D	
LCS 460-845588/3	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-845588/4	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 845591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-258307-1	DRA2-SB15-0.5-1.0	Total/NA	Solid	8260D	845242
460-258307-2	DRA2-SB16-0.5-1.0	Total/NA	Solid	8260D	845242
460-258307-7	DRA2-SB21-1.5-2.0	Total/NA	Solid	8260D	845242
MB 460-845591/7	Method Blank	Total/NA	Solid	8260D	
LCS 460-845591/3	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-845591/4	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 845827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-258307-4	DRA2-SB18-0.0-0.5	Total/NA	Solid	8260D	845242
460-258307-8	DRA2-SB22-0.0-0.5	Total/NA	Solid	8260D	845242
MB 460-845827/7	Method Blank	Total/NA	Solid	8260D	
LCS 460-845827/3	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-845827/4	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 846046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-258307-3	DRA2-SB17-0.0-0.5	Total/NA	Solid	8260D	845239
MB 460-846046/10	Method Blank	Total/NA	Solid	8260D	
LCS 460-846046/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-846046/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 846050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 460-845242/1-A	Method Blank	Total/NA	Solid	8260D	845242
MB 460-846050/8	Method Blank	Total/NA	Solid	8260D	
LCS 460-846050/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-846050/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

General Chemistry

Analysis Batch: 845801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-258307-1	DRA2-SB15-0.5-1.0	Total/NA	Solid	Moisture	
460-258307-2	DRA2-SB16-0.5-1.0	Total/NA	Solid	Moisture	
460-258307-3	DRA2-SB17-0.0-0.5	Total/NA	Solid	Moisture	
460-258307-4	DRA2-SB18-0.0-0.5	Total/NA	Solid	Moisture	
460-258307-5	DRA2-SB19-0.0-0.5	Total/NA	Solid	Moisture	
460-258307-6	DRA2-SB20-0.5-1.0	Total/NA	Solid	Moisture	
460-258307-7	DRA2-SB21-1.5-2.0	Total/NA	Solid	Moisture	
460-258307-8	DRA2-SB22-0.0-0.5	Total/NA	Solid	Moisture	
460-258485-D-7 DU	Duplicate	Total/NA	Solid	Moisture	

Client Sample ID: DRA2-SB15-0.5-1.0
Date Collected: 05/17/22 12:38
Date Received: 05/17/22 19:30

Lab Sample ID: 460-258307-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	845801	CJC	EET EDI	05/20/22 22:20

Client Sample ID: DRA2-SB15-0.5-1.0
Date Collected: 05/17/22 12:38
Date Received: 05/17/22 19:30

Lab Sample ID: 460-258307-1
Matrix: Solid
Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			845242	JJC	EET EDI	05/18/22 10:26
Total/NA	Analysis	8260D		1	845591	AAT	EET EDI	05/20/22 14:32

Client Sample ID: DRA2-SB16-0.5-1.0
Date Collected: 05/17/22 12:43
Date Received: 05/17/22 19:30

Lab Sample ID: 460-258307-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	845801	CJC	EET EDI	05/20/22 22:20

Client Sample ID: DRA2-SB16-0.5-1.0
Date Collected: 05/17/22 12:43
Date Received: 05/17/22 19:30

Lab Sample ID: 460-258307-2
Matrix: Solid
Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			845242	JJC	EET EDI	05/18/22 10:27
Total/NA	Analysis	8260D		1	845591	AAT	EET EDI	05/20/22 14:55

Client Sample ID: DRA2-SB17-0.0-0.5
Date Collected: 05/17/22 12:50
Date Received: 05/17/22 19:30

Lab Sample ID: 460-258307-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	845801	CJC	EET EDI	05/20/22 22:20

Client Sample ID: DRA2-SB17-0.0-0.5
Date Collected: 05/17/22 12:50
Date Received: 05/17/22 19:30

Lab Sample ID: 460-258307-3
Matrix: Solid
Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			845239	JJC	EET EDI	05/18/22 10:17
Total/NA	Analysis	8260D		50	846046	AAT	EET EDI	05/23/22 09:43

Client Sample ID: DRA2-SB18-0.0-0.5
Date Collected: 05/17/22 12:56
Date Received: 05/17/22 19:30

Lab Sample ID: 460-258307-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	845801	CJC	EET EDI	05/20/22 22:20

Client Sample ID: DRA2-SB18-0.0-0.5

Lab Sample ID: 460-258307-4
Date Collected: 05/17/22 12:56
Matrix: Solid
Date Received: 05/17/22 19:30
Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			845242	JJC	EET EDI	05/18/22 10:30
Total/NA	Analysis	8260D		1	845827	MZS	EET EDI	05/21/22 11:00

Client Sample ID: DRA2-SB19-0.0-0.5

Lab Sample ID: 460-258307-5
Date Collected: 05/17/22 13:18
Matrix: Solid
Date Received: 05/17/22 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	845801	CJC	EET EDI	05/20/22 22:20

Client Sample ID: DRA2-SB19-0.0-0.5

Lab Sample ID: 460-258307-5
Date Collected: 05/17/22 13:18
Matrix: Solid
Date Received: 05/17/22 19:30
Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			845239	JJC	EET EDI	05/18/22 10:18
Total/NA	Analysis	8260D		50	845588	MZS	EET EDI	05/20/22 10:00

Client Sample ID: DRA2-SB20-0.5-1.0

Lab Sample ID: 460-258307-6
Date Collected: 05/17/22 13:23
Matrix: Solid
Date Received: 05/17/22 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	845801	CJC	EET EDI	05/20/22 22:20

Client Sample ID: DRA2-SB20-0.5-1.0

Lab Sample ID: 460-258307-6
Date Collected: 05/17/22 13:23
Matrix: Solid
Date Received: 05/17/22 19:30
Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			845239	JJC	EET EDI	05/18/22 10:19
Total/NA	Analysis	8260D		500	845588	MZS	EET EDI	05/20/22 13:12

Client Sample ID: DRA2-SB21-1.5-2.0

Lab Sample ID: 460-258307-7
Date Collected: 05/17/22 13:30
Matrix: Solid
Date Received: 05/17/22 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	845801	CJC	EET EDI	05/20/22 22:20

Lab Chronicle

Client: Ransom Consulting LLC
Project/Site: PES Refinery

Job ID: 460-258307-1

Client Sample ID: DRA2-SB21-1.5-2.0

Lab Sample ID: 460-258307-7

Date Collected: 05/17/22 13:30
Matrix: Solid
Date Received: 05/17/22 19:30
Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			845242	JJC	EET EDI	05/18/22 10:32
Total/NA	Analysis	8260D		1	845591	AAT	EET EDI	05/20/22 16:26

Client Sample ID: DRA2-SB22-0.0-0.5

Lab Sample ID: 460-258307-8

Date Collected: 05/17/22 13:35
Matrix: Solid
Date Received: 05/17/22 19:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	845801	CJC	EET EDI	05/20/22 22:20

Client Sample ID: DRA2-SB22-0.0-0.5

Lab Sample ID: 460-258307-8

Date Collected: 05/17/22 13:35
Matrix: Solid
Date Received: 05/17/22 19:30
Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			845242	JJC	EET EDI	05/18/22 10:34
Total/NA	Analysis	8260D		1	845827	MZS	EET EDI	05/21/22 10:37

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Ransom Consulting LLC
Project/Site: PES Refinery

Job ID: 460-258307-1

Laboratory: Eurofins Edison

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

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	68-00522	11-22-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

8260D

Volatile Organic Compounds by GC/MS

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
DRA2-SB15-0.5-1.0	460-258307-1	111	119	103	121
DRA2-SB16-0.5-1.0	460-258307-2	96	102	94	107
DRA2-SB18-0.0-0.5	460-258307-4	97	106	99	105
DRA2-SB21-1.5-2.0	460-258307-7	96	103	96	103
DRA2-SB22-0.0-0.5	460-258307-8	97	98	93	101
	MB 460-845591/7	101	101	97	89
	MB 460-845827/7	98	108	101	102
	MB 460-846050/8	98	108	96	102
	LB3 460-845242/1-A	95	97	98	101
	LCS 460-845591/3	94	99	97	106
	LCS 460-845827/3	98	105	95	104
	LCS 460-846050/4	98	102	98	102
	LCSD 460-845591/4	103	106	102	111
	LCSD 460-845827/4	98	108	99	109
	LCSD 460-846050/5	92	100	96	98

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	73-139
DCA = 1,2-Dichloroethane-d4 (Surr)	72-145
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene	75-139

Column to be used to flag recovery values

FORM II 8260D

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Matrix: Solid Level: Medium

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
DRA2-SB17-0.0-0.5	460-258307-3	95	99	106	110
DRA2-SB19-0.0-0.5	460-258307-5	75	70	91	109
DRA2-SB20-0.5-1.0	460-258307-6	87	96	127	89
	MB 460-845588/9	99	83	93	99
	MB 460-846046/10	101	101	111	109
	LCS 460-845588/3	94	83	99	107
	LCS 460-846046/4	91	92	94	97
	LCSD 460-845588/4	93	81	89	95
	LCSD 460-846046/5	97	98	99	101

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	68-150
DCA = 1,2-Dichloroethane-d4 (Surr)	68-150
TOL = Toluene-d8 (Surr)	80-147
BFB = 4-Bromofluorobenzene	70-150

Column to be used to flag recovery values

FORM II 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Matrix: Solid Level: Medium Lab File ID: O76949.d

Lab ID: LCS 460-845588/3 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Benzene	1000	930	93	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: V19386.D

Lab ID: LCS 460-845591/3 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,2-Dibromoethane	20.0	19.2	96	79-120	
Benzene	20.0	17.0	85	80-123	
Ethylbenzene	20.0	18.9	95	76-120	
Methyl tert-butyl ether	20.0	20.1	100	80-125	
Toluene	20.0	19.3	96	80-120	
Xylenes, Total	40.0	39.0	97	80-120	
1,2,4-Trimethylbenzene	20.0	19.9	99	79-120	
1,2-Dichloroethane	20.0	20.8	104	75-123	
1,3,5-Trimethylbenzene	20.0	20.0	100	79-120	
Cumene	20.0	19.6	98	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: V19450.D

Lab ID: LCS 460-845827/3 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,2-Dibromoethane	20.0	18.8	94	79-120	
Benzene	20.0	19.1	96	80-123	
Ethylbenzene	20.0	19.0	95	76-120	
Methyl tert-butyl ether	20.0	20.7	103	80-125	
Toluene	20.0	18.6	93	80-120	
Xylenes, Total	40.0	39.4	98	80-120	
1,2,4-Trimethylbenzene	20.0	20.5	103	79-120	
1,2-Dichloroethane	20.0	21.8	109	75-123	
1,3,5-Trimethylbenzene	20.0	20.8	104	79-120	
Cumene	20.0	19.8	99	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Matrix: Solid Level: Medium Lab File ID: O77037.d

Lab ID: LCS 460-846046/4 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Benzene	1000	858	86	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: V19568.D

Lab ID: LCS 460-846050/4 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,2-Dibromoethane	20.0	18.7	93	79-120	
Benzene	20.0	19.1	96	80-123	
Ethylbenzene	20.0	17.8	89	76-120	
Methyl tert-butyl ether	20.0	20.0	100	80-125	
Toluene	20.0	18.5	92	80-120	
Xylenes, Total	40.0	37.4	94	80-120	
1,2,4-Trimethylbenzene	20.0	19.1	95	79-120	
1,2-Dichloroethane	20.0	21.4	107	75-123	
1,3,5-Trimethylbenzene	20.0	19.4	97	79-120	
Cumene	20.0	18.9	95	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Matrix: Solid Level: Medium Lab File ID: O76950.d

Lab ID: LCSD 460-845588/4 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Benzene	1000	841	84	10	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: V19387.D

Lab ID: LCSD 460-845591/4 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,2-Dibromoethane	20.0	20.9	105	9	30	79-120	
Benzene	20.0	20.8	104	20	30	80-123	
Ethylbenzene	20.0	20.9	104	10	30	76-120	
Methyl tert-butyl ether	20.0	22.3	112	11	30	80-125	
Toluene	20.0	20.7	103	7	30	80-120	
Xylenes, Total	40.0	42.3	106	8	30	80-120	
1,2,4-Trimethylbenzene	20.0	22.1	111	11	30	79-120	
1,2-Dichloroethane	20.0	22.6	113	8	30	75-123	
1,3,5-Trimethylbenzene	20.0	22.4	112	12	30	79-120	
Cumene	20.0	21.1	106	8	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: V19451.D

Lab ID: LCSD 460-845827/4 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,2-Dibromoethane	20.0	19.5	98	4	30	79-120	
Benzene	20.0	20.3	102	6	30	80-123	
Ethylbenzene	20.0	20.3	101	6	30	76-120	
Methyl tert-butyl ether	20.0	21.7	109	5	30	80-125	
Toluene	20.0	19.5	98	5	30	80-120	
Xylenes, Total	40.0	40.4	101	3	30	80-120	
1,2,4-Trimethylbenzene	20.0	21.6	108	5	30	79-120	
1,2-Dichloroethane	20.0	22.9	115	5	30	75-123	
1,3,5-Trimethylbenzene	20.0	22.1	111	6	30	79-120	
Cumene	20.0	20.0	100	1	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Matrix: Solid Level: Medium Lab File ID: O77038.d

Lab ID: LCSD 460-846046/5 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Benzene	1000	904	90	5	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: V19569.D

Lab ID: LCSD 460-846050/5 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,2-Dibromoethane	20.0	18.5	92	1	30	79-120	
Benzene	20.0	19.6	98	2	30	80-123	
Ethylbenzene	20.0	18.9	94	6	30	76-120	
Methyl tert-butyl ether	20.0	20.4	102	2	30	80-125	
Toluene	20.0	19.5	97	5	30	80-120	
Xylenes, Total	40.0	39.6	99	6	30	80-120	
1,2,4-Trimethylbenzene	20.0	20.1	101	5	30	79-120	
1,2-Dichloroethane	20.0	21.8	109	2	30	75-123	
1,3,5-Trimethylbenzene	20.0	19.9	99	2	30	79-120	
Cumene	20.0	19.8	99	5	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab File ID: O76955.d Lab Sample ID: MB 460-845588/9

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

Instrument ID: CVOAMS12 Date Analyzed: 05/20/2022 08:47

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-845588/3	O76949.d	05/20/2022 06:12
	LCSD 460-845588/4	O76950.d	05/20/2022 06:36
DRA2-SB19-0.0-0.5	460-258307-5	O76958.d	05/20/2022 10:00
DRA2-SB20-0.5-1.0	460-258307-6	O76966.d	05/20/2022 13:12

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab File ID: O77043.d Lab Sample ID: MB 460-846046/10

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

Instrument ID: CVOAMS12 Date Analyzed: 05/23/2022 08:44

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-846046/4	O77037.d	05/23/2022 06:20
	LCSD 460-846046/5	O77038.d	05/23/2022 06:44
DRA2-SB17-0.0-0.5	460-258307-3	O77044.d	05/23/2022 09:43

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab File ID: V19390.D Lab Sample ID: MB 460-845591/7

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

Instrument ID: CVOAMS7 Date Analyzed: 05/20/2022 07:43

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-845591/3	V19386.D	05/20/2022 06:12
	LCSD 460-845591/4	V19387.D	05/20/2022 06:35
DRA2-SB15-0.5-1.0	460-258307-1	V19408.D	05/20/2022 14:32
DRA2-SB16-0.5-1.0	460-258307-2	V19409.D	05/20/2022 14:55
DRA2-SB21-1.5-2.0	460-258307-7	V19413.D	05/20/2022 16:26

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab File ID: V19454.D Lab Sample ID: MB 460-845827/7

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

Instrument ID: CVOAMS7 Date Analyzed: 05/21/2022 10:15

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-845827/3	V19450.D	05/21/2022 08:44
	LCSD 460-845827/4	V19451.D	05/21/2022 09:07
DRA2-SB22-0.0-0.5	460-258307-8	V19455.D	05/21/2022 10:37
DRA2-SB18-0.0-0.5	460-258307-4	V19456.D	05/21/2022 11:00

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab File ID: V19572.D Lab Sample ID: MB 460-846050/8

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

Instrument ID: CVOAMS7 Date Analyzed: 05/23/2022 09:17

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-846050/4	V19568.D	05/23/2022 07:46
	LCSD 460-846050/5	V19569.D	05/23/2022 08:09
	LB3 460-845242/1-A	V19581.D	05/23/2022 12:42

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

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab File ID: O76595.d BFB Injection Date: 05/12/2022

Instrument ID: CVOAMS12 BFB Injection Time: 03:12

Analysis Batch No.: 844084

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	50 - 200% of m/z 174	136.8
96	5 - 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.0
174	50 - 200% of m/z 95	73.1
175	5 - 9% of m/z 174	8.3
176	95 -105% of m/z 174	96.5
177	5 - 10% of m/z 176	6.2

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
	STD7 460-844084/3	O76597.d	05/12/2022	4:01
	STD1 460-844084/4	O76598.d	05/12/2022	4:25
	STD5 460-844084/5	O76599.d	05/12/2022	4:49
	STD20 460-844084/6	O76600.d	05/12/2022	5:13
	STD50 460-844084/7	O76601.d	05/12/2022	5:37
	STD200 460-844084/8	O76602.d	05/12/2022	6:01
	STD500 460-844084/9	O76603.d	05/12/2022	6:25
	ICV 460-844084/17	O76611.d	05/12/2022	10:23

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

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab File ID: O76983.d BFB Injection Date: 05/22/2022

Instrument ID: CVOAMS12 BFB Injection Time: 07:56

Analysis Batch No.: 845946

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	50 - 200% of m/z 174	93.6
96	5 - 9% of m/z 95	6.1
173	Less than 2% of m/z 174	0.0
174	50 - 200% of m/z 95	106.8
175	5 - 9% of m/z 174	8.0
176	95 -105% of m/z 174	99.4
177	5 - 10% of m/z 176	6.9

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
	STD7 460-845946/3	O76985.d	05/22/2022	8:51
	STD1 460-845946/4	O76986.d	05/22/2022	9:15
	STD5 460-845946/5	O76987.d	05/22/2022	9:39
	STD20 460-845946/6	O76988.d	05/22/2022	10:03
	STD50 460-845946/7	O76989.d	05/22/2022	10:27
	STD200 460-845946/8	O76990.d	05/22/2022	10:51
	STD500 460-845946/9	O76991.d	05/22/2022	11:15
	ICV 460-845946/17	O76999.d	05/22/2022	14:28

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

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab File ID: V18065.D BFB Injection Date: 04/22/2022

Instrument ID: CVOAMS7 BFB Injection Time: 01:10

Analysis Batch No.: 840582

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	50 - 200% of m/z 174	168.3
96	5 - 9% of m/z 95	5.5
173	Less than 2% of m/z 174	0.9
174	50 - 200% of m/z 95	59.4
175	5 - 9% of m/z 174	8.1
176	95 -105% of m/z 174	99.6
177	5 - 10% of m/z 176	5.9

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
	STD1 460-840582/3	V18067.D	04/22/2022	1:49
	STD5 460-840582/4	V18068.D	04/22/2022	2:12
	STD20 460-840582/5	V18069.D	04/22/2022	2:34
	STD50 460-840582/6	V18070.D	04/22/2022	2:57
	STD200 460-840582/7	V18071.D	04/22/2022	3:20
	STD500 460-840582/8	V18072.D	04/22/2022	3:43
	ICV 460-840582/13	V18077.D	04/22/2022	5:36

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

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Sample No.: STD20 460-844084/6 Date Analyzed: 05/12/2022 05:13

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): O76600.d Heated Purge: (Y/N) N

Calibration ID: 90411

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		173714	2.06	238320	2.92	643012	3.98
UPPER LIMIT		347428	2.56	476640	3.42	1286024	4.48
LOWER LIMIT		86857	1.56	119160	2.42	321506	3.48
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 460-844084/17		176415	2.06	262640	2.92	705714	3.98

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

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
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Sample No.: STD20 460-844084/6 Date Analyzed: 05/12/2022 05:13

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): O76600.d Heated Purge: (Y/N) N

Calibration ID: 90411

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		31230	4.68	404783	7.66	204416	11.34
UPPER LIMIT		62460	5.18	809566	8.16	408832	11.84
LOWER LIMIT		15615	4.18	202392	7.16	102208	10.84
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 460-844084/17		32022	4.69	467878	7.66	234528	11.34

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

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

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Sample No.: CCVIS 460-845588/2 Date Analyzed: 05/20/2022 05:21

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): O76948.d Heated Purge: (Y/N) N

Calibration ID: 90411

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		174981	2.06	219819	2.92	741479	3.97
UPPER LIMIT		349962	2.56	439638	3.42	1482958	4.47
LOWER LIMIT		87491	1.56	109910	2.42	370740	3.47
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-845588/3		135622	2.06	187643	2.91	696508	3.97
LCSD 460-845588/4		163790	2.05	216132	2.91	707968	3.97
MB 460-845588/9		135931	2.06	173708	2.91	594260	3.97
460-258307-5	DRA2-SB19-0.0-0.5	221869	2.09	198742	2.92	660456	3.97
460-258307-6	DRA2-SB20-0.5-1.0	117610	2.06	142911	2.91	620861	3.97

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

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
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Sample No.: CCVIS 460-845588/2 Date Analyzed: 05/20/2022 05:21

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): O76948.d Heated Purge: (Y/N) N

Calibration ID: 90411

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		37015	4.68	515677	7.65	273141	11.33
UPPER LIMIT		74030	5.18	1031354	8.15	546282	11.83
LOWER LIMIT		18508	4.18	257839	7.15	136571	10.83
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-845588/3		29817	4.68	476570	7.65	256289	11.33
LCSD 460-845588/4		34542	4.68	522407	7.65	279201	11.33
MB 460-845588/9		27943	4.68	448394	7.65	242322	11.33
460-258307-5	DRA2-SB19-0.0-0.5	33918	4.74	509974	7.65	287173	11.33
460-258307-6	DRA2-SB20-0.5-1.0	27026	4.68	477931	7.65	258780	11.33

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

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

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Sample No.: STD20 460-845946/6 Date Analyzed: 05/22/2022 10:03

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): O76988.d Heated Purge: (Y/N) N

Calibration ID: 90526

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		148681	2.04	206531	2.91	630385	3.97
UPPER LIMIT		297362	2.54	413062	3.41	1260770	4.47
LOWER LIMIT		74341	1.54	103266	2.41	315193	3.47
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 460-845946/17		201723	2.05	238338	2.91	590190	3.97

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

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
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Sample No.: STD20 460-845946/6 Date Analyzed: 05/22/2022 10:03

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): O76988.d Heated Purge: (Y/N) N

Calibration ID: 90526

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		29293	4.67	529964	7.65	335403	11.33
UPPER LIMIT		58586	5.17	1059928	8.15	670806	11.83
LOWER LIMIT		14647	4.17	264982	7.15	167702	10.83
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 460-845946/17		37092	4.67	527277	7.65	342054	11.33

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

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

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Sample No.: CCVIS 460-846046/3 Date Analyzed: 05/23/2022 05:55

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): O77036.d Heated Purge: (Y/N) N

Calibration ID: 90526

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		128321	2.04	156599	2.91	545613	3.96
UPPER LIMIT		256642	2.54	313198	3.41	1091226	4.46
LOWER LIMIT		64161	1.54	78300	2.41	272807	3.46
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-846046/4		151878	2.04	188076	2.91	616040	3.96
LCSD 460-846046/5		148543	2.04	182735	2.91	579513	3.97
MB 460-846046/10		118974	2.04	143088	2.91	507298	3.97
460-258307-3	DRA2-SB17-0.0-0.5	206126	2.08	180433	2.92	543832	3.96

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

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
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Sample No.: CCVIS 460-846046/3 Date Analyzed: 05/23/2022 05:55

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): O77036.d Heated Purge: (Y/N) N

Calibration ID: 90526

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		27829	4.67	456072	7.65	297001	11.31
UPPER LIMIT		55658	5.17	912144	8.15	594002	11.81
LOWER LIMIT		13915	4.17	228036	7.15	148501	10.81
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-846046/4		31878	4.67	536664	7.65	345005	11.31
LCSD 460-846046/5		30147	4.67	508086	7.65	344172	11.31
MB 460-846046/10		23082	4.68	418295	7.65	268735	11.33
460-258307-3	DRA2-SB17-0.0-0.5	29462	4.74	445640	7.65	292948	11.33

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

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

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Sample No.: STD20 460-840582/5 Date Analyzed: 04/22/2022 02:34

Instrument ID: CVOAMS7 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): V18069.D Heated Purge: (Y/N) Y

Calibration ID: 90258

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		390660	2.59	367892	3.54	445850	4.59
UPPER LIMIT		781320	3.09	735784	4.04	891700	5.09
LOWER LIMIT		195330	2.09	183946	3.04	222925	4.09
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 460-840582/13		373273	2.59	345119	3.54	421284	4.59

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

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
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Sample No.: STD20 460-840582/5 Date Analyzed: 04/22/2022 02:34

Instrument ID: CVOAMS7 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): V18069.D Heated Purge: (Y/N) Y

Calibration ID: 90258

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		28052	5.31	338372	8.25	157514	10.52
UPPER LIMIT		56104	5.81	676744	8.75	315028	11.02
LOWER LIMIT		14026	4.81	169186	7.75	78757	10.02
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 460-840582/13		33230	5.32	323639	8.25	152273	10.52

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

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

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Sample No.: CCVIS 460-845591/2 Date Analyzed: 05/20/2022 05:49

Instrument ID: CVOAMS7 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): V19385.D Heated Purge: (Y/N) Y

Calibration ID: 90258

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		505429	2.57	441561	3.52	546612	4.57
UPPER LIMIT		1010858	3.07	883122	4.02	1093224	5.07
LOWER LIMIT		252715	2.07	220781	3.02	273306	4.07
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-845591/3		464891	2.57	418651	3.52	585661	4.56
LCSD 460-845591/4		495092	2.57	422024	3.52	554594	4.57
MB 460-845591/7		367080	2.57	289420	3.52	518581	4.57
460-258307-1	DRA2-SB15-0.5-1.0	375380	2.57	282775	3.52	525552	4.57
460-258307-2	DRA2-SB16-0.5-1.0	337536	2.57	276158	3.52	528604	4.57
460-258307-7	DRA2-SB21-1.5-2.0	430131	2.57	364971	3.52	619886	4.57

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

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
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Sample No.: CCVIS 460-845591/2 Date Analyzed: 05/20/2022 05:49

Instrument ID: CVOAMS7 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): V19385.D Heated Purge: (Y/N) Y

Calibration ID: 90258

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		37657	5.28	459300	8.21	224308	10.50
UPPER LIMIT		75314	5.78	918600	8.71	448616	11.00
LOWER LIMIT		18829	4.78	229650	7.71	112154	10.00
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-845591/3		36734	5.29	467423	8.21	215317	10.50
LCSD 460-845591/4		34674	5.29	398318	8.21	178919	10.50
MB 460-845591/7		36843	5.29	399901	8.21	200955	10.50
460-258307-1	DRA2-SB15-0.5-1.0	28017	5.28	437593	8.21	216875	10.50
460-258307-2	DRA2-SB16-0.5-1.0	32467	5.29	432269	8.21	206569	10.50
460-258307-7	DRA2-SB21-1.5-2.0	34971	5.29	524461	8.21	241826	10.50

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

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

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Sample No.: CCVIS 460-845827/2 Date Analyzed: 05/21/2022 08:18

Instrument ID: CVOAMS7 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): V19449.D Heated Purge: (Y/N) Y

Calibration ID: 90258

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		527569	2.58	474918	3.52	598142	4.57
UPPER LIMIT		1055138	3.08	949836	4.02	1196284	5.07
LOWER LIMIT		263785	2.08	237459	3.02	299071	4.07
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-845827/3		563381	2.57	508585	3.50	622941	4.56
LCSD 460-845827/4		548057	2.57	489537	3.50	622012	4.56
MB 460-845827/7		451902	2.57	391907	3.50	556864	4.56
460-258307-8	DRA2-SB22-0.0-0.5	343693	2.57	292981	3.52	534244	4.57
460-258307-4	DRA2-SB18-0.0-0.5	327020	2.57	306512	3.52	543216	4.57

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

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
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Sample No.: CCVIS 460-845827/2 Date Analyzed: 05/21/2022 08:18

Instrument ID: CVOAMS7 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): V19449.D Heated Purge: (Y/N) Y

Calibration ID: 90258

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		37797	5.29	456670	8.21	211294	10.50
UPPER LIMIT		75594	5.79	913340	8.71	422588	11.00
LOWER LIMIT		18899	4.79	228335	7.71	105647	10.00
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-845827/3		42329	5.29	470801	8.21	211039	10.50
LCSD 460-845827/4		41803	5.29	471219	8.21	209895	10.50
MB 460-845827/7		38049	5.29	405046	8.21	198360	10.50
460-258307-8	DRA2-SB22-0.0-0.5	27612	5.29	416094	8.21	190090	10.50
460-258307-4	DRA2-SB18-0.0-0.5	33863	5.29	403883	8.21	188076	10.50

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

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

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Sample No.: CCVIS 460-846050/3 Date Analyzed: 05/23/2022 07:23

Instrument ID: CVOAMS7 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): V19567.D Heated Purge: (Y/N) Y

Calibration ID: 90258

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		628220	2.57	578049	3.50	701327	4.56
UPPER LIMIT		1256440	3.07	1156098	4.00	1402654	5.06
LOWER LIMIT		314110	2.07	289025	3.00	350664	4.06
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-846050/4		611991	2.57	538316	3.50	681501	4.56
LCSD 460-846050/5		587198	2.57	540444	3.50	683111	4.56
MB 460-846050/8		484372	2.57	409645	3.52	544928	4.57
LB3 460-845242/1-A		455829	2.57	394348	3.52	686665	4.57

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

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
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Sample No.: CCVIS 460-846050/3 Date Analyzed: 05/23/2022 07:23

Instrument ID: CVOAMS7 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): V19567.D Heated Purge: (Y/N) Y

Calibration ID: 90258

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		51454	5.28	515242	8.21	229920	10.50
UPPER LIMIT		102908	5.78	1030484	8.71	459840	11.00
LOWER LIMIT		25727	4.78	257621	7.71	114960	10.00
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-846050/4		47291	5.29	499303	8.21	230722	10.50
LCSD 460-846050/5		44938	5.29	498101	8.21	234347	10.50
MB 460-846050/8		42843	5.28	404208	8.21	196935	10.50
LB3 460-845242/1-A		39620	5.29	490595	8.21	232902	10.50

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison | Job No.: 460-258307-1

SDG No.:

Client Sample ID: DRA2-SB15-0.5-1.0 | Lab Sample ID: 460-258307-1

Matrix: Solid | Lab File ID: V19408.D

Analysis Method: 8260D | Date Collected: 05/17/2022 12:38

Sample wt/vol: 5.69(g) | Date Analyzed: 05/20/2022 14:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 17.0 % Solids: 83.0 | Level: (low/med) Low

Analysis Batch No.: 845591 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.27	U	1.1	0.27
100-41-4	Ethylbenzene	0.21	U	1.1	0.21
108-88-3	Toluene	0.25	U	1.1	0.25
1330-20-7	Xylenes, Total	0.37	J	2.1	0.18
95-63-6	1,2,4-Trimethylbenzene	0.41	J	1.1	0.26
108-67-8	1,3,5-Trimethylbenzene	0.33	U	1.1	0.33
98-82-8	Cumene	0.30	U	1.1	0.30

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	119		72-145
460-00-4	4-Bromofluorobenzene	121		75-139
1868-53-7	Dibromofluoromethane (Surr)	111		73-139
2037-26-5	Toluene-d8 (Surr)	103		80-120

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220520-145507.b\V19408.D
Lims ID: 460-258307-C-1-A
Client ID: DRA2-SB15-0.5-1.0
Sample Type: Client
Inject. Date: 20-May-2022 14:32:30 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-258307-C-1-A
Misc. Info.: 460-0145507-025
Operator ID: Instrument ID: CVOAMS7

Method: \\chromfs\Edison\ChromData\CVOAMS7\20220520-145507.b\8260S_7.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 29-Dec-2022 12:57:48 Calib Date: 22-Apr-2022 03:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18072.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: kaewink Date: 29-Dec-2022 12:57:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 TBA-d9 (IS)	65	2.566	2.566	0.000	0	375380	1000.0	
* 38 2-Butanone-d5	46	3.515	3.515	0.000	0	282775	250.0	
$ 51 Dibromofluoromethane (Surr)	113	3.961	3.961	0.000	94	146726	55.3	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.292	4.304	-0.012	0	195878	59.6	
* 61 Fluorobenzene	96	4.566	4.566	0.000	98	525552	50.0	
* 67 1,4-Dioxane-d8	96	5.275	5.275	0.000	0	28017	1000.0	
$ 78 Toluene-d8 (Surr)	98	6.292	6.292	0.000	98	756875	51.3	
* 89 Chlorobenzene-d5	117	8.212	8.213	-0.001	90	437593	50.0	
93 m-Xylene & p-Xylene	106	8.487	8.487	0.000	65	4215	0.3504	
$ 100 4-Bromofluorobenzene	174	9.481	9.481	0.000	85	232872	60.5	
108 1,3,5-Trimethylbenzene	105	9.847	9.847	0.000	82	4950	0.1793	
112 1,2,4-Trimethylbenzene	105	10.178	10.178	0.000	92	10388	0.3833	
* 116 1,4-Dichlorobenzene-d4	152	10.498	10.498	0.000	98	216875	50.0	
S 133 Xylenes, Total	100				0		0.3504	

QC Flag Legend
Processing Flags

Reagents:
8260SURR250_00226 Amount Added: 1.00 Units: uL Run Reagent
8260ISNEW_00117 Amount Added: 1.00 Units: uL Run Reagent

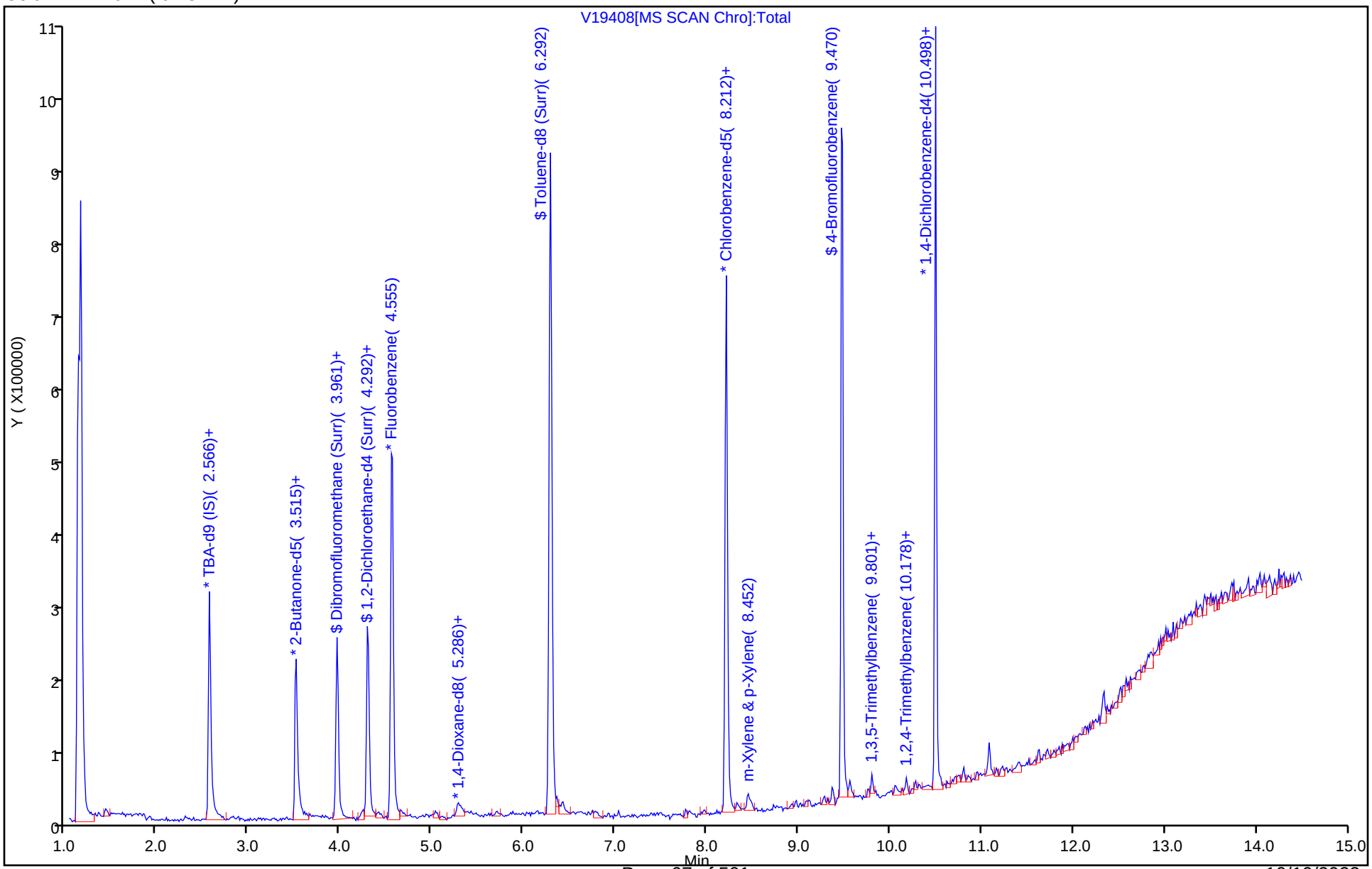
Report Date: 29-Dec-2022 12:57:48 Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220520-145507.b\V19408.D

Injection Date:	20-May-2022 14:32:30	Instrument ID:	CVOAMS7	Operator ID:	
Lims ID:	460-258307-C-1-A	Lab Sample ID:	460-258307-1	Worklist Smp#:	25
Client ID:	DRA2-SB15-0.5-1.0				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8260S_7	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)

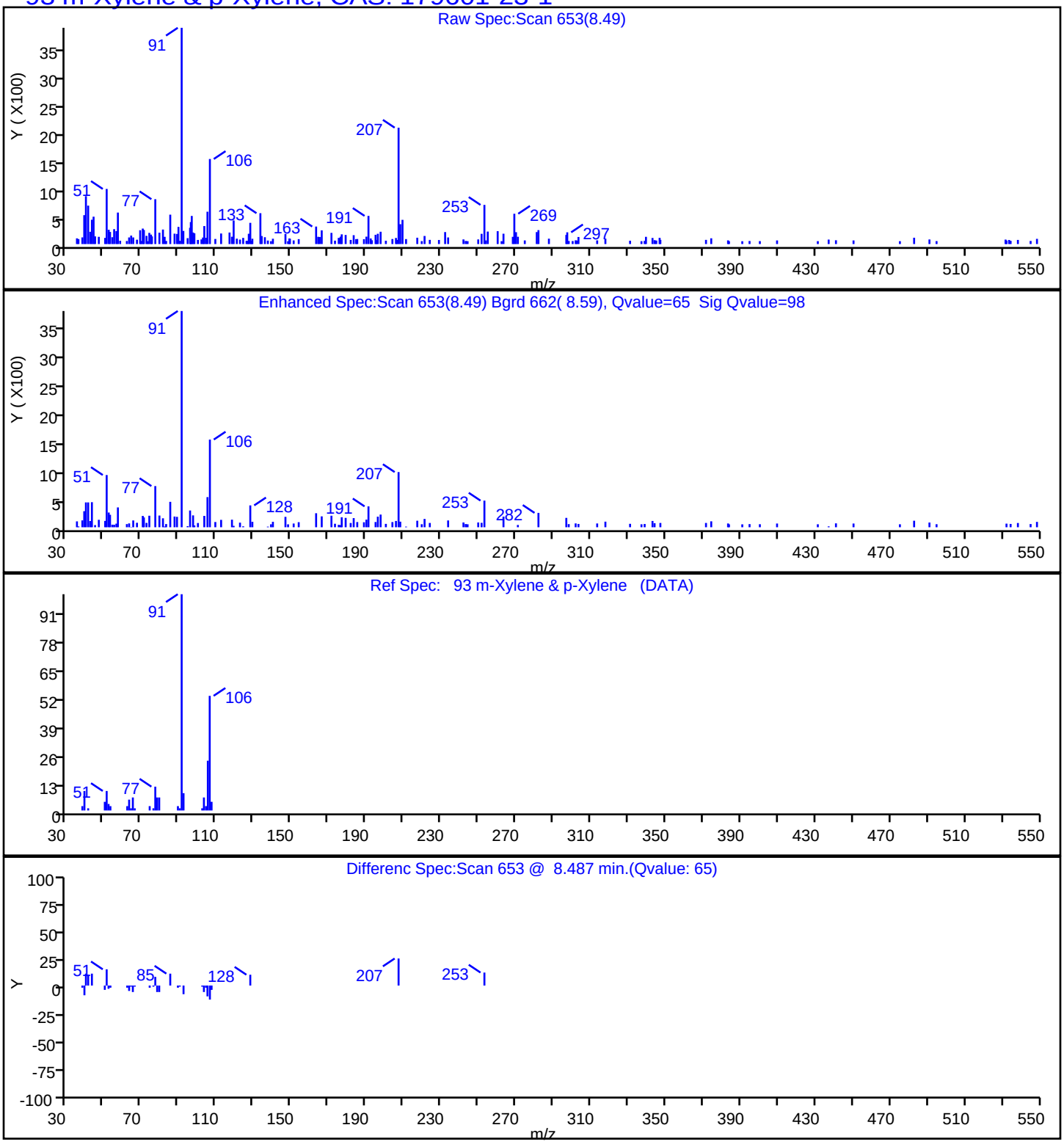


10/10/2023
12:43 PM

Eurofins Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS7\20220520-145507.b\V19408.D		
Injection Date:	20-May-2022 14:32:30	Instrument ID:	CVOAMS7
Lims ID:	460-258307-C-1-A	Lab Sample ID:	460-258307-1
Client ID:	DRA2-SB15-0.5-1.0		
Operator ID:		ALS Bottle#:	24 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S_7	Limit Group:	VOA - 8260D Water and Solid
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

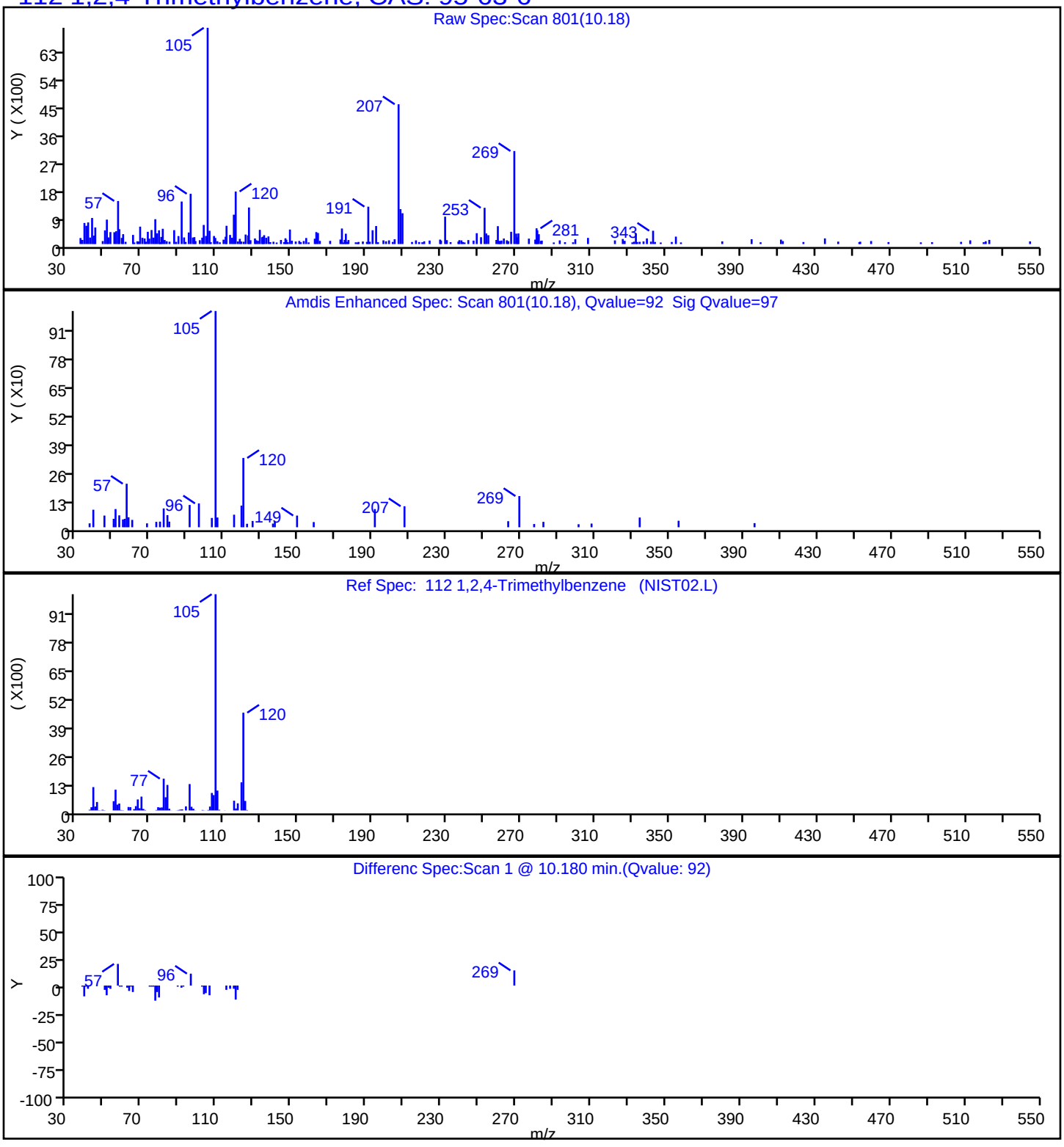
93 m-Xylene & p-Xylene, CAS: 179601-23-1



Eurofins Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS7\20220520-145507.b\V19408.D		
Injection Date:	20-May-2022 14:32:30	Instrument ID:	CVOAMS7
Lims ID:	460-258307-C-1-A	Lab Sample ID:	460-258307-1
Client ID:	DRA2-SB15-0.5-1.0		
Operator ID:		ALS Bottle#:	24 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S_7	Limit Group:	VOA - 8260D Water and Solid
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

112 1,2,4-Trimethylbenzene, CAS: 95-63-6



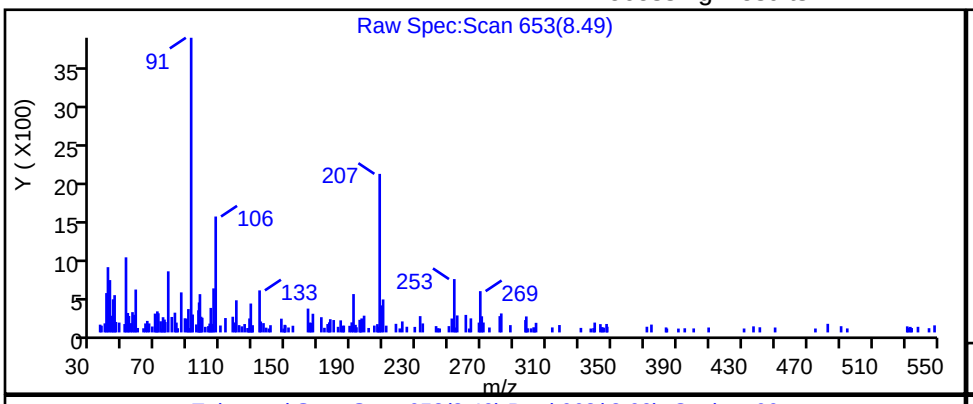
User Disabled Compound Report

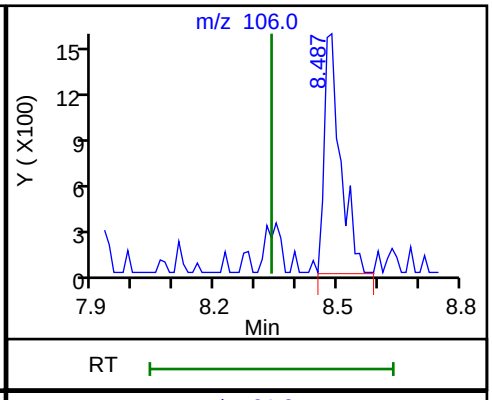
Eurofins Edison

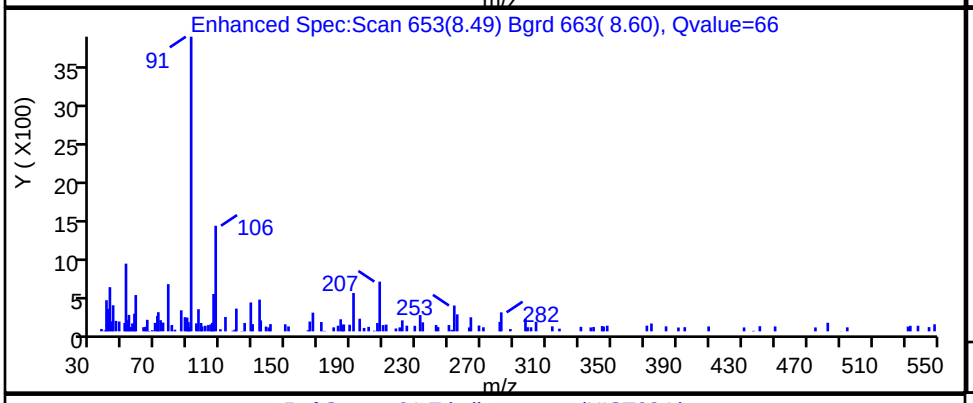
Data File:	\\chromfs\Edison\ChromData\CVOAMS7\20220520-145507.b\V19408.D				
Injection Date:	20-May-2022 14:32:30	Instrument ID:	CVOAMS7		
Lims ID:	460-258307-C-1-A	Lab Sample ID:	460-258307-1		
Client ID:	DRA2-SB15-0.5-1.0				
Operator ID:		ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S_7	Limit Group:	VOA - 8260D Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

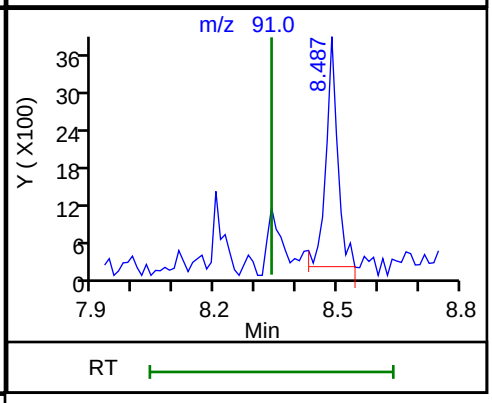
91 Ethylbenzene, CAS: 100-41-4

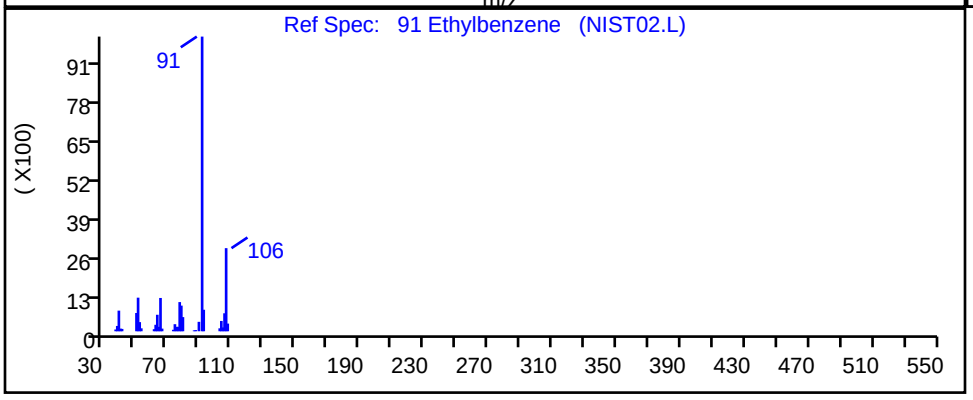
Processing Results











RT	Mass	Response	Amount
8.49	106.00	4163	0.411980
8.49	91.00	7447	

Reviewer: kaewink, 29-Dec-2022 12:57:36

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison | Job No.: 460-258307-1

SDG No.:

Client Sample ID: DRA2-SB16-0.5-1.0 | Lab Sample ID: 460-258307-2

Matrix: Solid | Lab File ID: V19409.D

Analysis Method: 8260D | Date Collected: 05/17/2022 12:43

Sample wt/vol: 5.62(g) | Date Analyzed: 05/20/2022 14:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 18.9 % Solids: 81.1 | Level: (low/med) Low

Analysis Batch No.: 845591 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.28	U	1.1	0.28
100-41-4	Ethylbenzene	0.22	U	1.1	0.22
108-88-3	Toluene	0.26	U	1.1	0.26
1330-20-7	Xylenes, Total	0.19	U	2.2	0.19
95-63-6	1,2,4-Trimethylbenzene	0.27	U	1.1	0.27
108-67-8	1,3,5-Trimethylbenzene	0.34	U	1.1	0.34
98-82-8	Cumene	0.31	U	1.1	0.31

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		72-145
460-00-4	4-Bromofluorobenzene	107		75-139
1868-53-7	Dibromofluoromethane (Surr)	96		73-139
2037-26-5	Toluene-d8 (Surr)	94		80-120

Eurofins Edison
Target Compound Quantitation Report

Data File:	\\chromfs\Edison\ChromData\CVOAMS7\20220520-145507.b\V19409.D				
Lims ID:	460-258307-C-2-A				
Client ID:	DRA2-SB16-0.5-1.0				
Sample Type:	Client				
Inject. Date:	20-May-2022 14:55:30	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	460-258307-C-2-A				
Misc. Info.:	460-0145507-026				
Operator ID:		Instrument ID:	CVOAMS7		
Method:	\\chromfs\Edison\ChromData\CVOAMS7\20220520-145507.b\8260S_7.m				
Limit Group:	VOA - 8260D Water and Solid				
Last Update:	29-Dec-2022 12:57:48	Calib Date:	22-Apr-2022 03:43:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18072.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1621				
First Level Reviewer: parekhv		Date:	20-May-2022 15:56:42		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 TBA-d9 (IS)	65	2.566	2.566	0.000	0	337536	1000.0	
* 38 2-Butanone-d5	46	3.515	3.515	0.000	0	276158	250.0	
$ 51 Dibromofluoromethane (Surr)	113	3.961	3.961	0.000	94	127522	47.8	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.292	4.304	-0.012	0	168603	51.0	
* 61 Fluorobenzene	96	4.566	4.566	0.000	99	528604	50.0	
* 67 1,4-Dioxane-d8	96	5.286	5.275	0.011	0	32467	1000.0	
$ 78 Toluene-d8 (Surr)	98	6.292	6.292	0.000	99	686214	47.1	
* 89 Chlorobenzene-d5	117	8.213	8.213	-0.001	88	432269	50.0	
$ 100 4-Bromofluorobenzene	174	9.481	9.481	0.000	85	196800	53.7	
* 116 1,4-Dichlorobenzene-d4	152	10.498	10.498	0.000	97	206569	50.0	

QC Flag Legend

Processing Flags

Reagents:

8260SURR250_00226	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00117	Amount Added:	1.00	Units: uL	Run Reagent

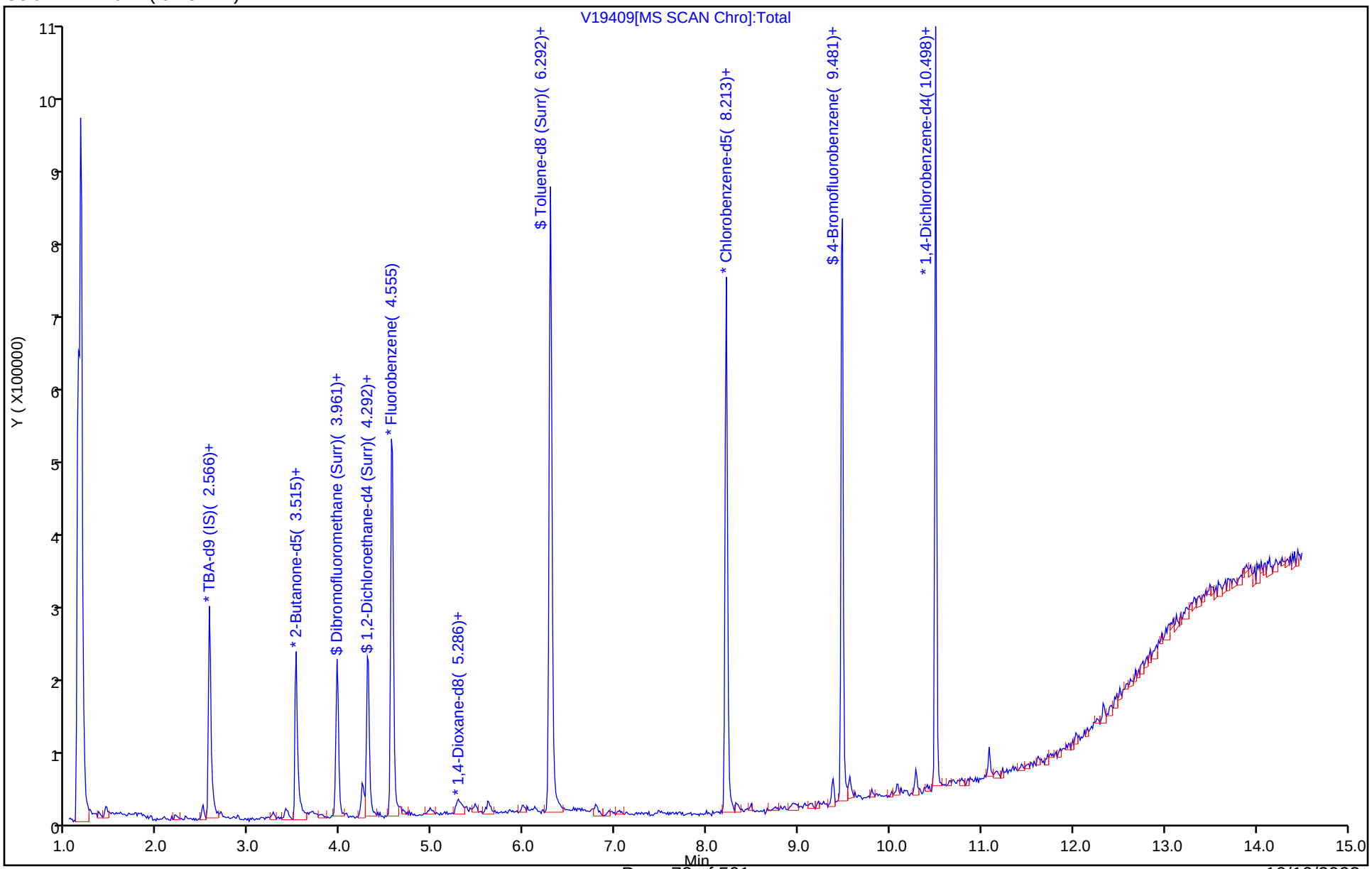
Report Date: 29-Dec-2022 12:58:04 Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220520-145507.b\V19409.D

Injection Date:	20-May-2022 14:55:30	Instrument ID:	CVOAMS7	Operator ID:	
Lims ID:	460-258307-C-2-A	Lab Sample ID:	460-258307-2	Worklist Smp#:	26
Client ID:	DRA2-SB16-0.5-1.0				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	8260S_7	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



10/10/2023
12:43 PM

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison | Job No.: 460-258307-1

SDG No.:

Client Sample ID: DRA2-SB17-0.0-0.5 | Lab Sample ID: 460-258307-3

Matrix: Solid | Lab File ID: O77044.d

Analysis Method: 8260D | Date Collected: 05/17/2022 12:50

Sample wt/vol: 5.69(g) | Date Analyzed: 05/23/2022 09:43

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 50

Soil Extract Vol.: 10(mL) | GC Column: DB-624 ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: 17.2 % Solids: 82.8 | Level: (low/med) Medium

Analysis Batch No.: 846046 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1200		120	24

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		68-150
460-00-4	4-Bromofluorobenzene	110		70-150
1868-53-7	Dibromofluoromethane (Surr)	95		68-150
2037-26-5	Toluene-d8 (Surr)	106		80-147

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220523-145613.b\O77044.d
Lims ID: 460-258307-B-3-A
Client ID: DRA2-SB17-0.0-0.5
Sample Type: Client
Inject. Date: 23-May-2022 09:43:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: 460-258307-B-3-A
Misc. Info.: 460-0145613-011
Operator ID: Instrument ID: CVOAMS12

Method: \\chromfs\Edison\ChromData\CVOAMS12\20220523-145613.b\8260W_12.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 23-May-2022 17:34:58 Calib Date: 22-May-2022 11:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\O76991.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1657

First Level Reviewer: delpolitov Date: 23-May-2022 17:35:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 31 TBA-d9 (IS)	65	2.078	2.043	0.035	99	206126	1000.0	
* 43 2-Butanone-d5	46	2.922	2.911	0.011	99	180433	250.0	
$ 53 Dibromofluoromethane (Surr)	113	3.345	3.345	0.000	98	126493	43.2	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	3.642	3.641	0.001	0	136357	45.2	
59 Benzene	78	3.699	3.699	0.000	95	120788	10.6	
* 65 Fluorobenzene	96	3.961	3.961	0.000	99	543832	50.0	
* 72 1,4-Dioxane-d8	96	4.738	4.669	0.069	0	29462	1000.0	a
$ 83 Toluene-d8 (Surr)	98	5.720	5.719	0.001	99	529899	48.4	
* 94 Chlorobenzene-d5	117	7.649	7.649	0.000	84	445640	50.0	
98 m-Xylene & p-Xylene	106	8.083	8.083	0.000	99	139734	26.1	
99 o-Xylene	106	8.665	8.665	0.000	95	55513	10.5	
$ 105 4-Bromofluorobenzene	174	9.476	9.475	0.001	95	213679	50.2	
* 120 1,4-Dichlorobenzene-d4	152	11.325	11.314	0.011	93	292948	50.0	
S 138 Xylenes, Total	100				0		36.7	

QC Flag Legend

Processing Flags
Review Flags
a - User Assigned ID

Reagents:

8260ISNEW_00129 Amount Added: 1.00 Units: uL Run Reagent

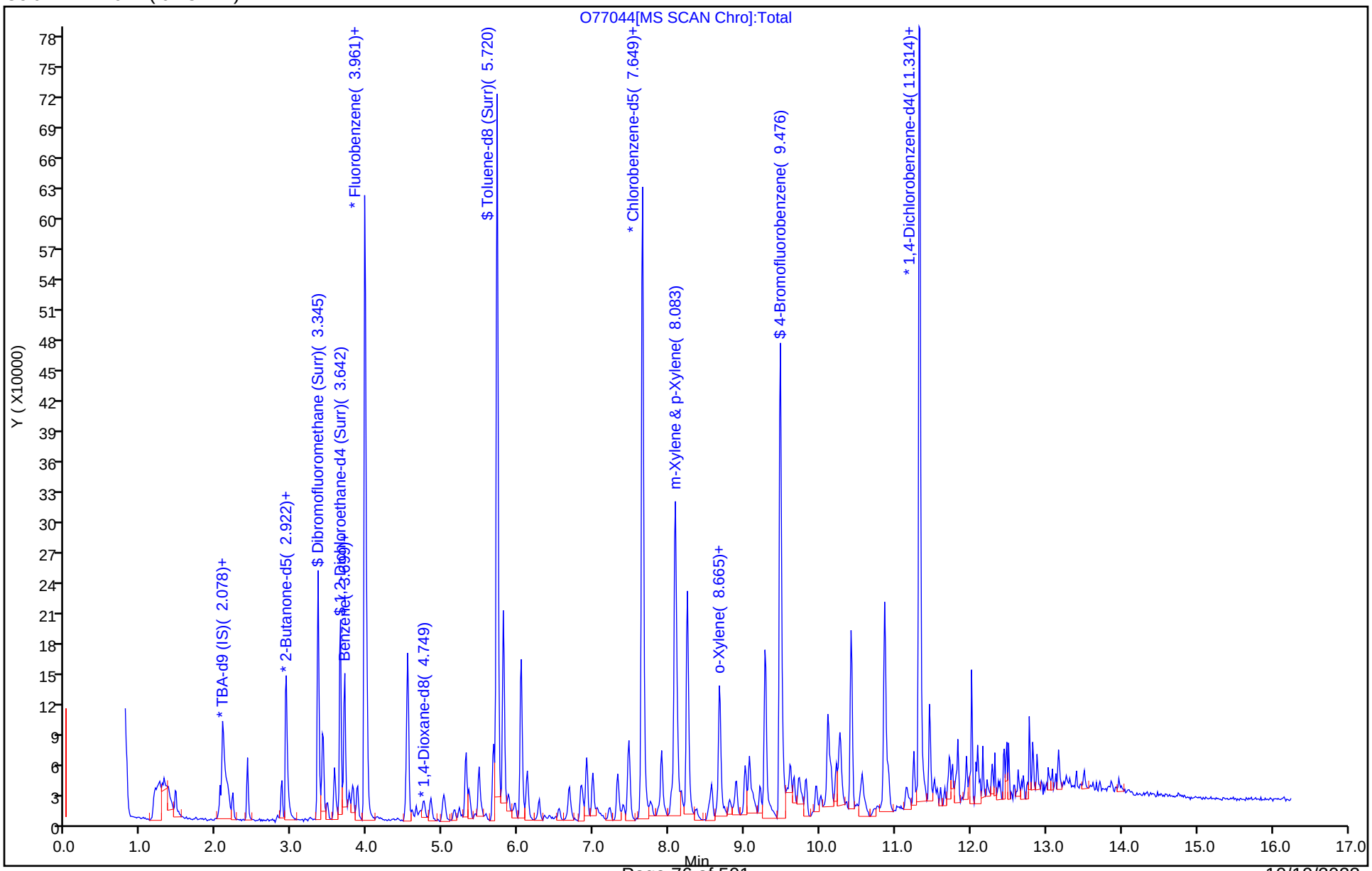
Report Date: 23-May-2022 17:35:15 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220523-145613.b\O77044.d

Injection Date:	23-May-2022 09:43:30	Instrument ID:	CVOAMS12	Operator ID:	
Lims ID:	460-258307-B-3-A	Lab Sample ID:	460-258307-3	Worklist Smp#:	11
Client ID:	DRA2-SB17-0.0-0.5				
Purge Vol:	5.000 mL	Dil. Factor:	50.0000	ALS Bottle#:	10
Method:	8260W_12	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



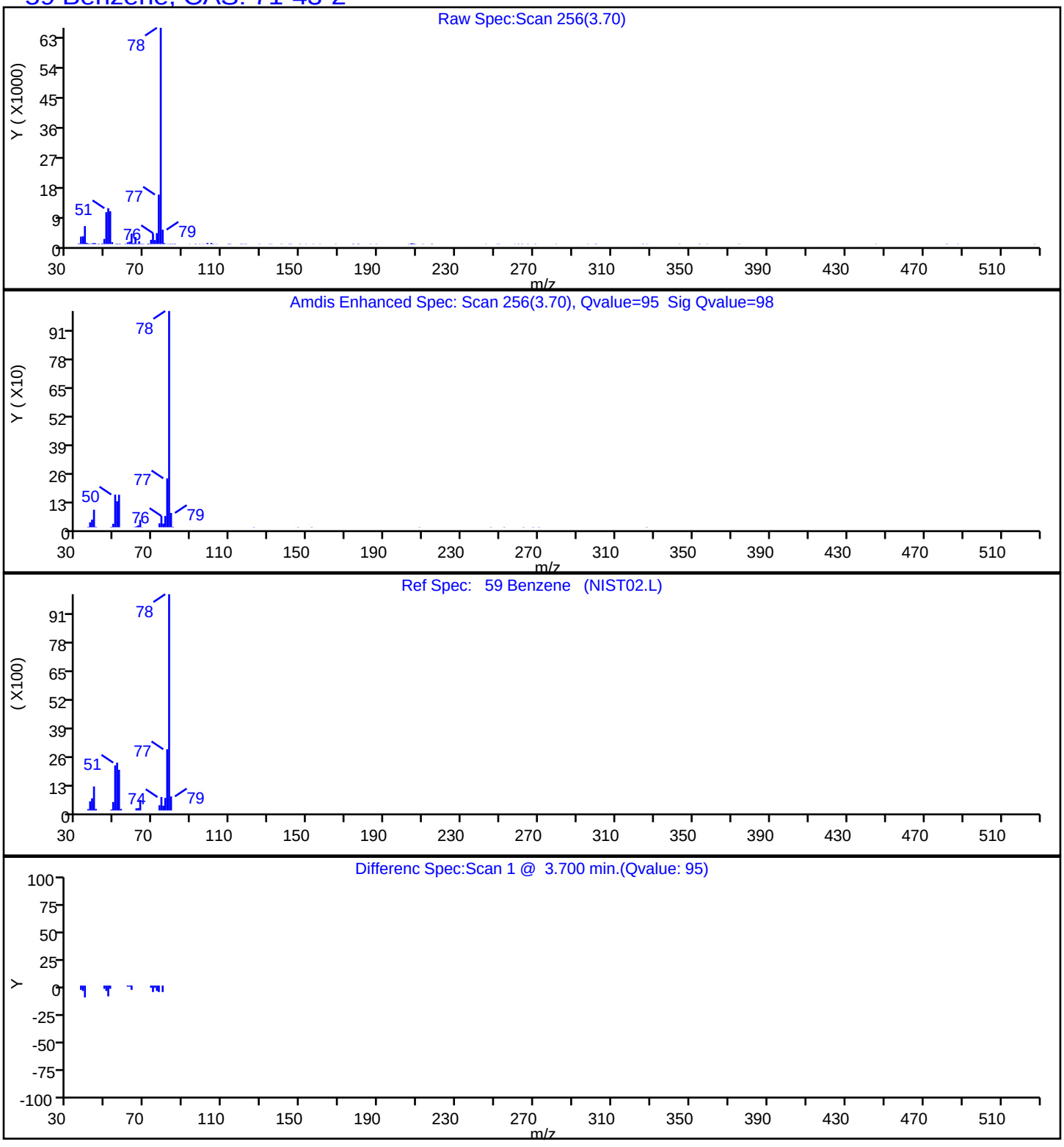
10/10/2023
12:43 PM

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220523-145613.b\O77044.d

Injection Date:	23-May-2022 09:43:30	Instrument ID:	CVOAMS12		
Lims ID:	460-258307-B-3-A	Lab Sample ID:	460-258307-3		
Client ID:	DRA2-SB17-0.0-0.5				
Operator ID:		ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	8260W_12	Limit Group:	VOA - 8260D Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

59 Benzene, CAS: 71-43-2



Manual Integration/User Assign Peak Report

Eurofins Edison

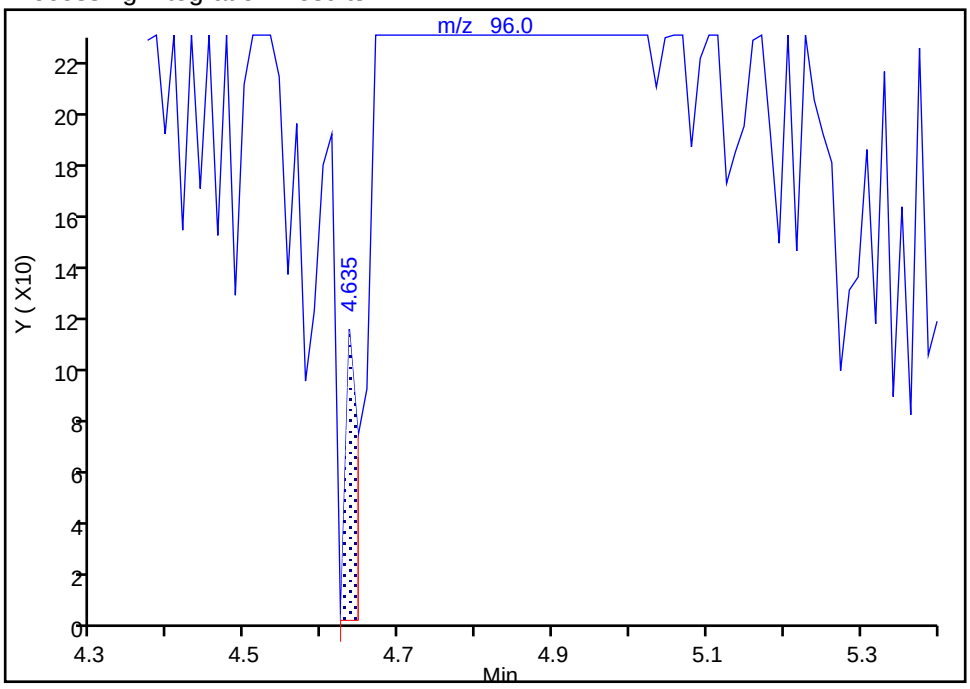
Data File:	\\chromfs\Edison\ChromData\CVOAMS12\20220523-145613.b\O77044.d				
Injection Date:	23-May-2022 09:43:30	Instrument ID:	CVOAMS12		
Lims ID:	460-258307-B-3-A	Lab Sample ID:	460-258307-3		
Client ID:	DRA2-SB17-0.0-0.5				
Operator ID:		ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	8260W_12	Limit Group:	VOA - 8260D Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

* 72 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

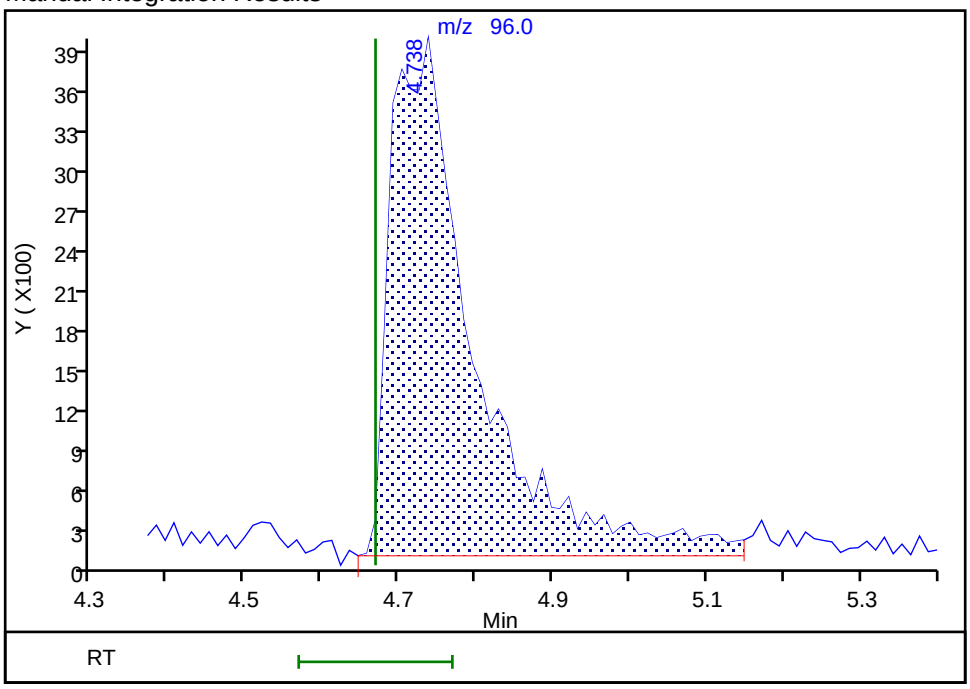
Processing Integration Results

RT: 4.63
Area: 125
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 4.74
Area: 29462
Amount: 1000.0000
Amount Units: ug/l



Reviewer: delpolitov, 23-May-2022 15:49:33
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison | Job No.: 460-258307-1

SDG No.:

Client Sample ID: DRA2-SB18-0.0-0.5 | Lab Sample ID: 460-258307-4

Matrix: Solid | Lab File ID: V19456.D

Analysis Method: 8260D | Date Collected: 05/17/2022 12:56

Sample wt/vol: 5.80(g) | Date Analyzed: 05/21/2022 11:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 16.3 % Solids: 83.7 | Level: (low/med) Low

Analysis Batch No.: 845827 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	440		1.0	0.27

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		72-145
460-00-4	4-Bromofluorobenzene	105		75-139
1868-53-7	Dibromofluoromethane (Surr)	97		73-139
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220521-145557.b\V19456.D
Lims ID: 460-258307-D-4-A
Client ID: DRA2-SB18-0.0-0.5
Sample Type: Client
Inject. Date: 21-May-2022 11:00:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-258307-D-4-A
Misc. Info.: 460-0145557-009
Operator ID: Instrument ID: CVOAMS7

Method: \\chromfs\Edison\ChromData\CVOAMS7\20220521-145557.b\8260S_7.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 23-May-2022 09:38:17 Calib Date: 22-Apr-2022 03:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18072.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: parekhv Date: 21-May-2022 13:39:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 TBA-d9 (IS)	65	2.566	2.566	0.000	0	327020	1000.0	
* 38 2-Butanone-d5	46	3.515	3.503	0.012	0	306512	250.0	
$ 51 Dibromofluoromethane (Surr)	113	3.961	3.961	0.000	95	133568	48.7	
55 Benzene	78	4.281	4.281	0.000	95	12447240	426.1	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.292	4.292	0.000	0	180515	53.2	
* 61 Fluorobenzene	96	4.566	4.555	0.011	98	543216	50.0	
* 67 1,4-Dioxane-d8	96	5.287	5.286	0.000	0	33863	1000.0	
$ 78 Toluene-d8 (Surr)	98	6.292	6.292	0.000	98	675986	49.7	
79 Toluene	91	6.372	6.372	0.000	93	1491606	50.7	
* 89 Chlorobenzene-d5	117	8.213	8.212	0.000	90	403883	50.0	
91 Ethylbenzene	106	8.338	8.338	0.000	99	21064	2.26	
93 m-Xylene & p-Xylene	106	8.475	8.475	0.000	97	85671	7.72	
94 o-Xylene	106	8.910	8.910	0.000	93	59578	5.43	
99 Isopropylbenzene	105	9.275	9.275	0.000	97	62588	2.21	
$ 100 4-Bromofluorobenzene	174	9.481	9.481	0.000	82	175086	52.5	
108 1,3,5-Trimethylbenzene	105	9.847	9.847	0.000	55	6519	0.2722	
112 1,2,4-Trimethylbenzene	105	10.178	10.178	0.000	95	13555	0.5767	
* 116 1,4-Dichlorobenzene-d4	152	10.498	10.498	0.000	98	188076	50.0	
S 133 Xylenes, Total	100				0		13.1	

QC Flag Legend

Processing Flags

Reagents:

8260SURR250_00226	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00117	Amount Added:	1.00	Units: uL	Run Reagent

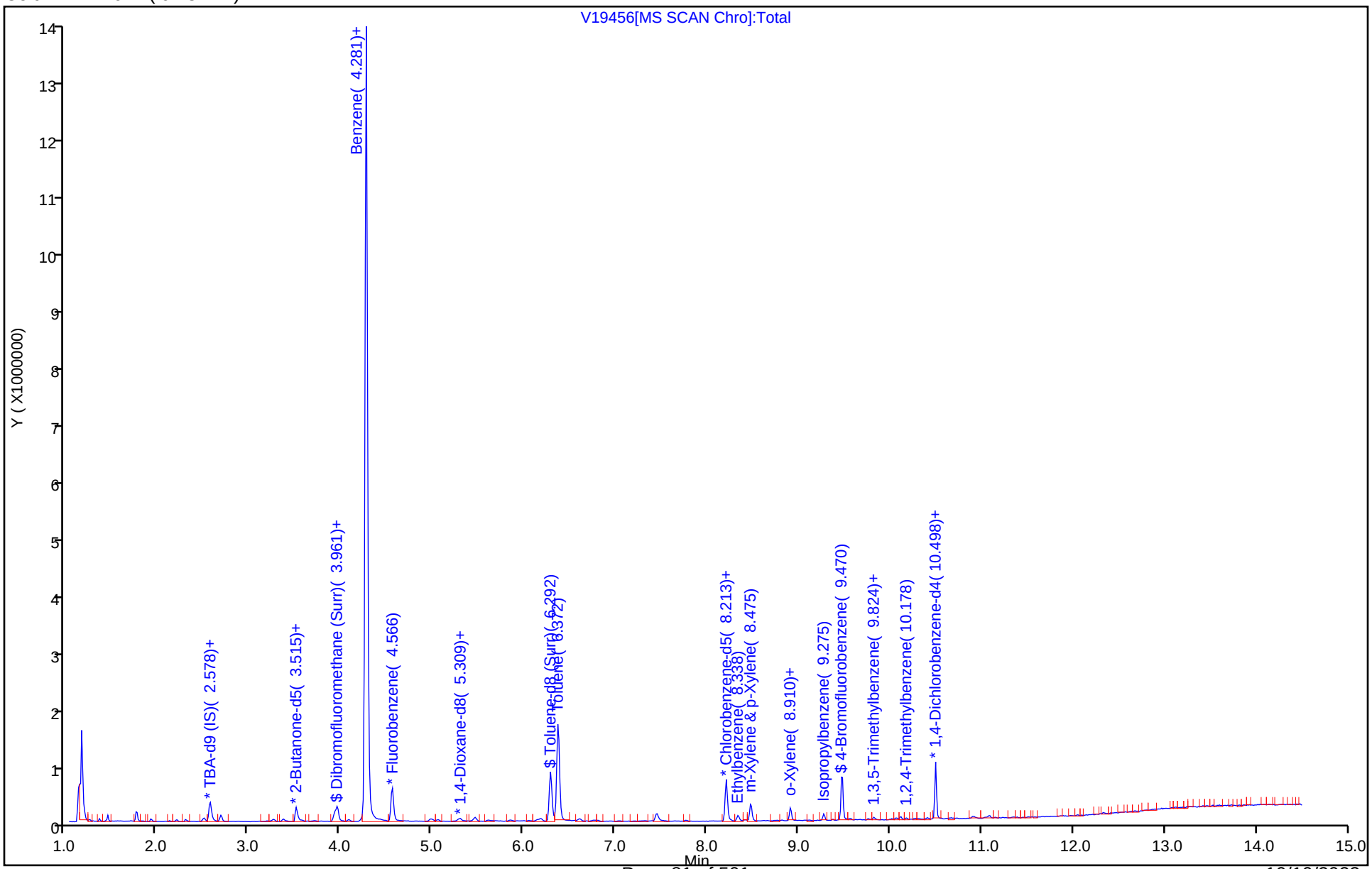
Report Date: 29-Dec-2022 12:59:03 Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220521-145557.b\V19456.D

Injection Date:	21-May-2022 11:00:30	Instrument ID:	CVOAMS7	Operator ID:	
Lims ID:	460-258307-D-4-A	Lab Sample ID:	460-258307-4	Worklist Smp#:	9
Client ID:	DRA2-SB18-0.0-0.5				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260S_7	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



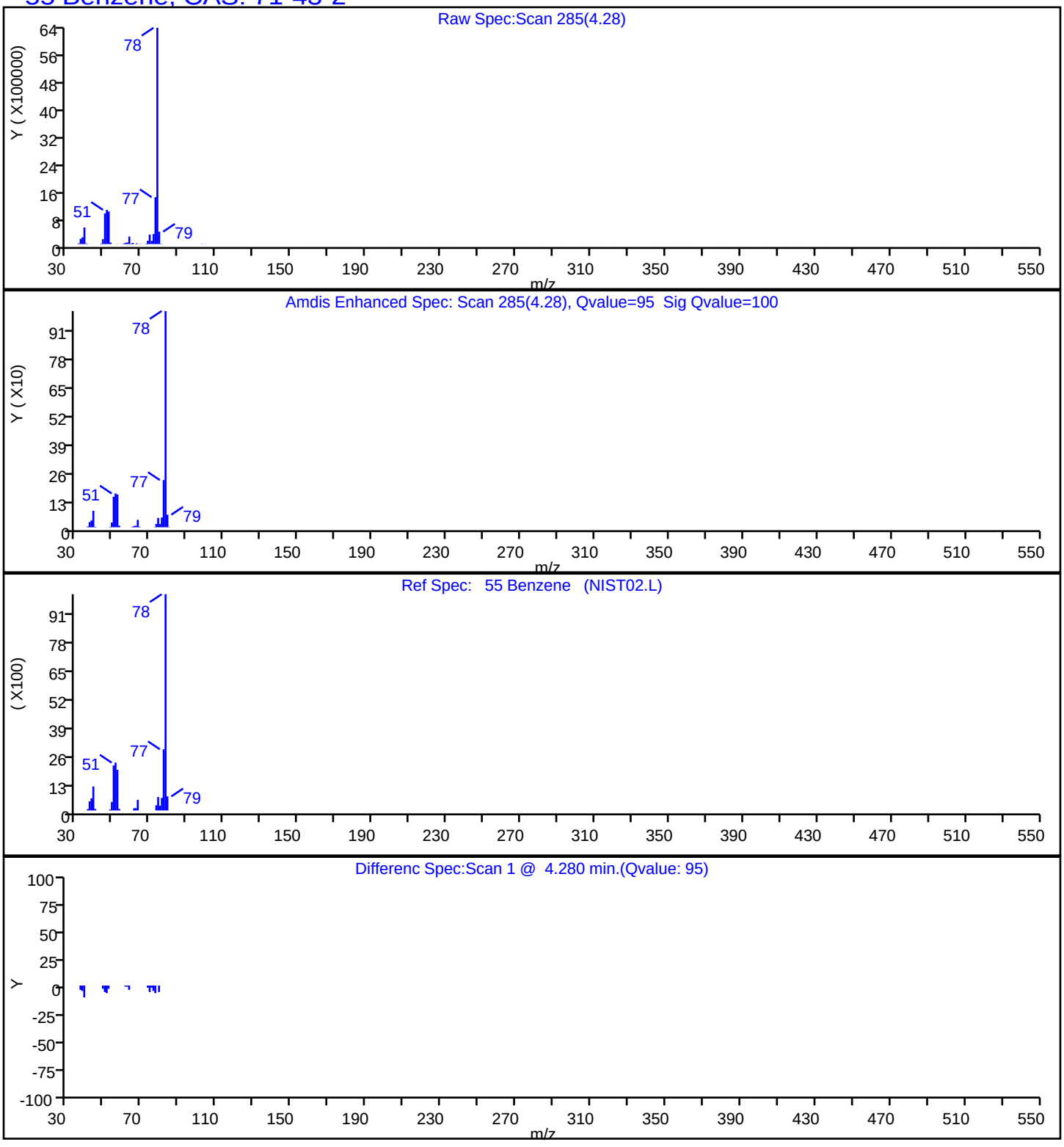
10/10/2023
12:43 PM

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220521-145557.b\V19456.D

Injection Date:	21-May-2022 11:00:30	Instrument ID:	CVOAMS7
Lims ID:	460-258307-D-4-A	Lab Sample ID:	460-258307-4
Client ID:	DRA2-SB18-0.0-0.5		
Operator ID:		ALS Bottle#:	8 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S_7	Limit Group:	VOA - 8260D Water and Solid
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

55 Benzene, CAS: 71-43-2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison | Job No.: 460-258307-1

SDG No.:

Client Sample ID: DRA2-SB19-0.0-0.5 | Lab Sample ID: 460-258307-5

Matrix: Solid | Lab File ID: O76958.d

Analysis Method: 8260D | Date Collected: 05/17/2022 13:18

Sample wt/vol: 5.81(g) | Date Analyzed: 05/20/2022 10:00

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 50

Soil Extract Vol.: 10(mL) | GC Column: DB-624 ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: 17.4 % Solids: 82.6 | Level: (low/med) Medium

Analysis Batch No.: 845588 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	3400		110	23

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	70		68-150
460-00-4	4-Bromofluorobenzene	109		70-150
1868-53-7	Dibromofluoromethane (Surr)	75		68-150
2037-26-5	Toluene-d8 (Surr)	91		80-147

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220520-145506.b\O76958.d
Lims ID: 460-258307-B-5-A
Client ID: DRA2-SB19-0.0-0.5
Sample Type: Client
Inject. Date: 20-May-2022 10:00:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: 460-258307-B-5-A
Misc. Info.: 460-0145506-012
Operator ID: Instrument ID: CVOAMS12

Method: \\chromfs\Edison\ChromData\CVOAMS12\20220520-145506.b\8260W_12.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 20-May-2022 14:19:46 Calib Date: 12-May-2022 06:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\O76603.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: starzecm Date: 20-May-2022 14:20:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 31 TBA-d9 (IS)	65	2.089	2.055	0.035	99	221869	1000.0	
* 43 2-Butanone-d5	46	2.922	2.911	0.011	99	198742	250.0	
$ 53 Dibromofluoromethane (Surr)	113	3.345	3.345	0.000	97	99041	34.3	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	3.642	3.641	0.001	0	99458	31.6	
59 Benzene	78	3.699	3.699	0.000	93	501996	29.9	
* 65 Fluorobenzene	96	3.973	3.973	0.000	100	660456	50.0	
* 72 1,4-Dioxane-d8	96	4.738	4.680	0.058	0	33918	1000.0	a
$ 83 Toluene-d8 (Surr)	98	5.731	5.731	0.000	99	615534	41.2	
* 94 Chlorobenzene-d5	117	7.649	7.649	0.000	82	509974	50.0	
98 m-Xylene & p-Xylene	106	8.083	8.094	-0.011	99	584695	86.1	
99 o-Xylene	106	8.676	8.676	0.000	96	455175	69.4	
$ 105 4-Bromofluorobenzene	174	9.476	9.475	0.001	96	184671	49.3	
* 120 1,4-Dichlorobenzene-d4	152	11.325	11.325	0.000	94	287173	50.0	
S 138 Xylenes, Total	100				0		155.5	

QC Flag Legend

Processing Flags
Review Flags
a - User Assigned ID

Reagents:

8260ISNEW_00129 Amount Added: 1.00 Units: uL Run Reagent

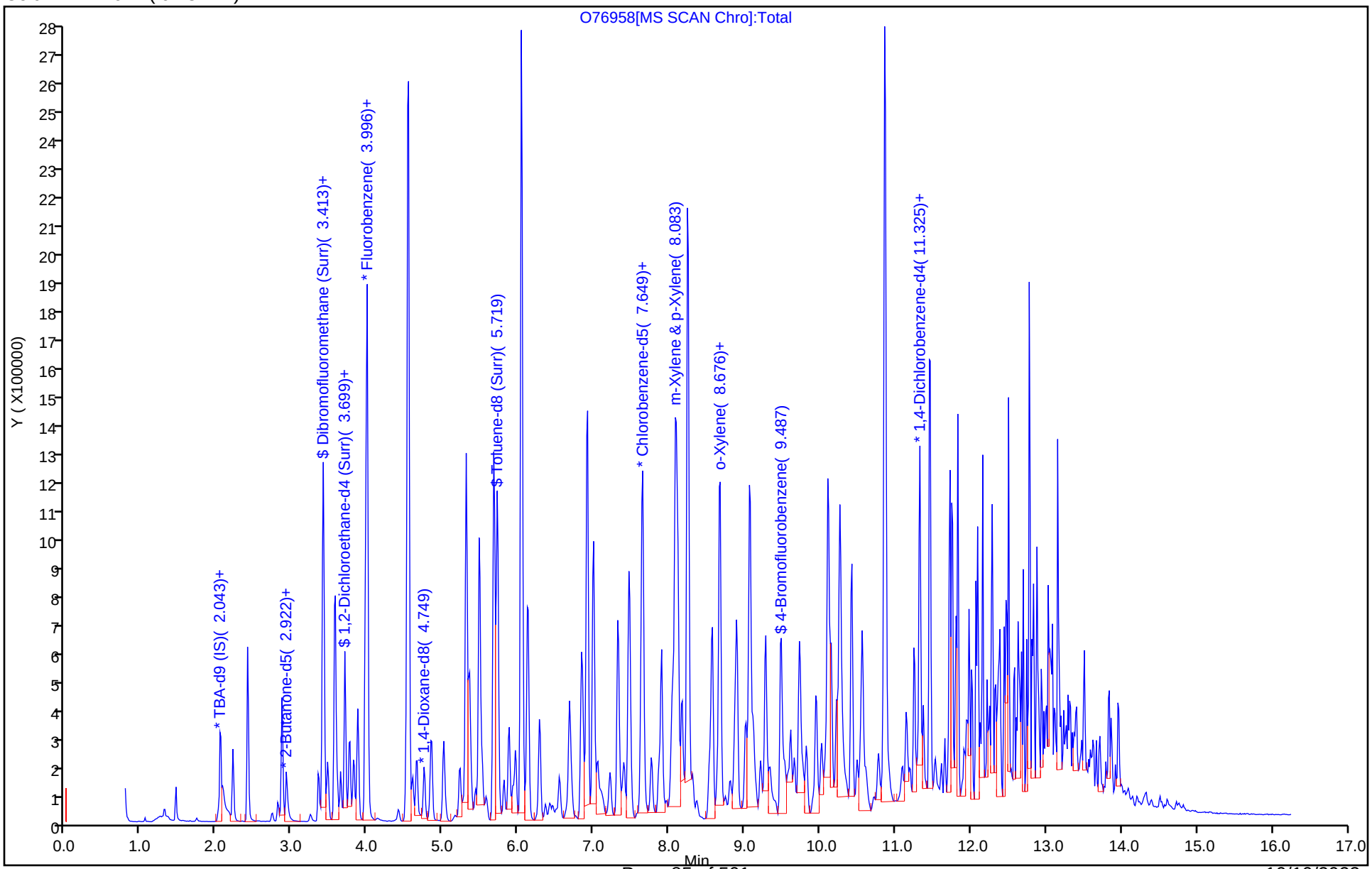
Report Date: 20-May-2022 14:20:00 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220520-145506.b\O76958.d

Injection Date:	20-May-2022 10:00:30	Instrument ID:	CVOAMS12	Operator ID:	
Lims ID:	460-258307-B-5-A	Lab Sample ID:	460-258307-5	Worklist Smp#:	12
Client ID:	DRA2-SB19-0.0-0.5				
Purge Vol:	5.000 mL	Dil. Factor:	50.0000	ALS Bottle#:	11
Method:	8260W_12	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



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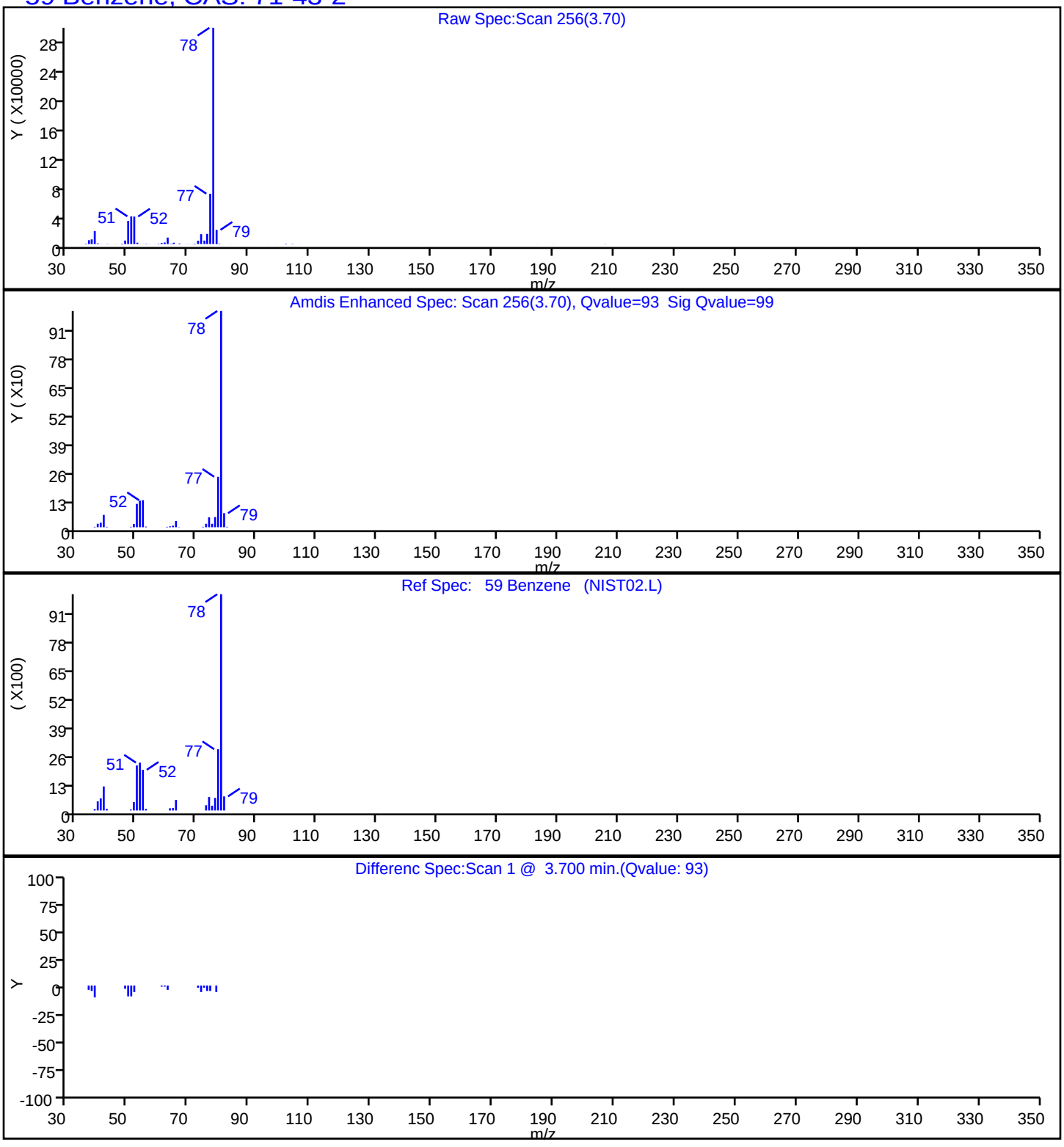
Report Date: 20-May-2022 14:20:00 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220520-145506.b\O76958.d

Injection Date:	20-May-2022 10:00:30	Instrument ID:	CVOAMS12		
Lims ID:	460-258307-B-5-A	Lab Sample ID:	460-258307-5		
Client ID:	DRA2-SB19-0.0-0.5				
Operator ID:		ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	8260W_12	Limit Group:	VOA - 8260D Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

59 Benzene, CAS: 71-43-2



Manual Integration/User Assign Peak Report

Eurofins Edison

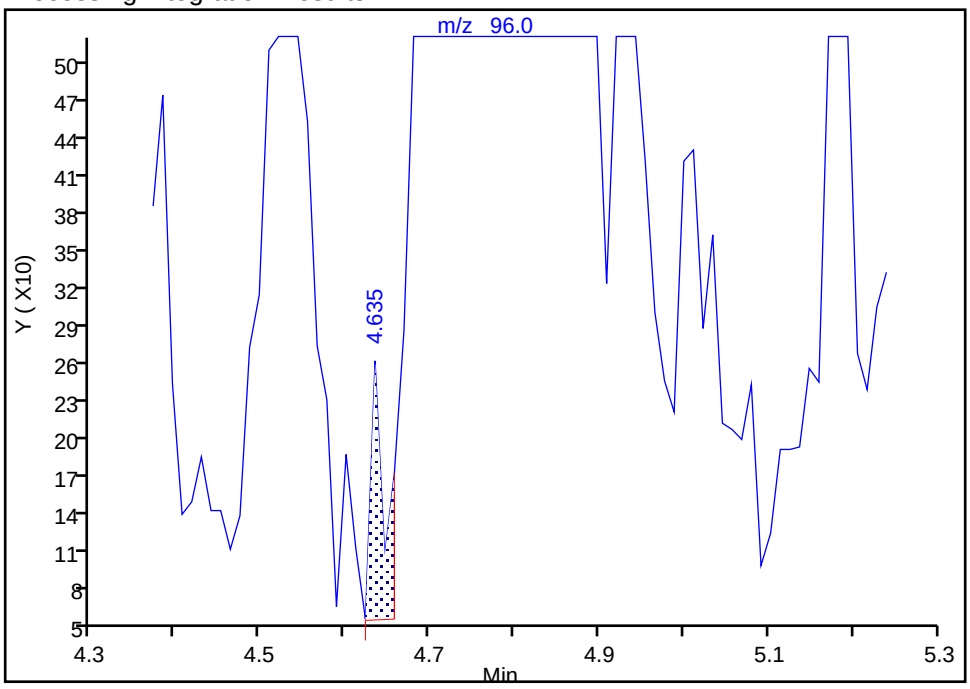
Data File:	\\chromfs\Edison\ChromData\CVOAMS12\20220520-145506.b\O76958.d				
Injection Date:	20-May-2022 10:00:30	Instrument ID:	CVOAMS12		
Lims ID:	460-258307-B-5-A	Lab Sample ID:	460-258307-5		
Client ID:	DRA2-SB19-0.0-0.5				
Operator ID:		ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	8260W_12	Limit Group:	VOA - 8260D Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

* 72 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

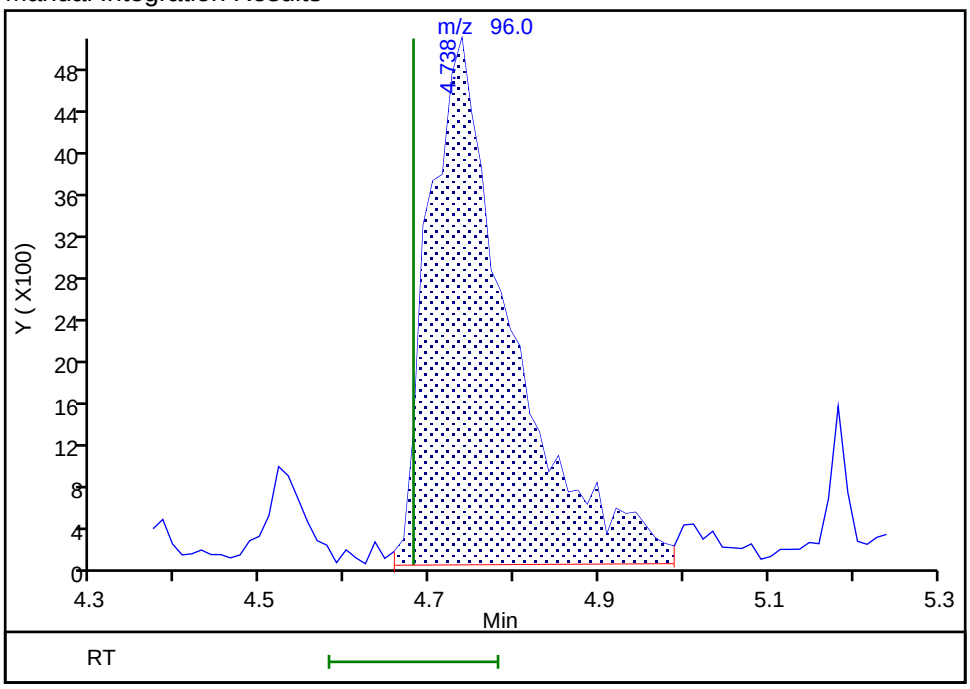
Processing Integration Results

RT: 4.63
Area: 258
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 4.74
Area: 33918
Amount: 1000.0000
Amount Units: ug/l



Reviewer: starzecm, 20-May-2022 14:19:41
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison | Job No.: 460-258307-1

SDG No.:

Client Sample ID: DRA2-SB20-0.5-1.0 | Lab Sample ID: 460-258307-6

Matrix: Solid | Lab File ID: O76966.d

Analysis Method: 8260D | Date Collected: 05/17/2022 13:23

Sample wt/vol: 5.24(g) | Date Analyzed: 05/20/2022 13:12

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 500

Soil Extract Vol.: 10(mL) | GC Column: DB-624 ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: 16.9 % Solids: 83.1 | Level: (low/med) Medium

Analysis Batch No.: 845588 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	80000		1200	250

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		68-150
460-00-4	4-Bromofluorobenzene	89		70-150
1868-53-7	Dibromofluoromethane (Surr)	87		68-150
2037-26-5	Toluene-d8 (Surr)	127		80-147

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220520-145506.b\O76966.d
Lims ID: 460-258307-B-6-A
Client ID: DRA2-SB20-0.5-1.0
Sample Type: Client
Inject. Date: 20-May-2022 13:12:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 500.0000
Sample Info: 460-258307-B-6-A
Misc. Info.: 460-0145506-020
Operator ID: Instrument ID: CVOAMS12

Method: \\chromfs\Edison\ChromData\CVOAMS12\20220520-145506.b\8260W_12.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 20-May-2022 14:30:14 Calib Date: 12-May-2022 06:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\O76603.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: starzecm Date: 20-May-2022 14:30:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 31 TBA-d9 (IS)	65	2.055	2.055	0.001	48	117610	1000.0	
* 43 2-Butanone-d5	46	2.911	2.911	0.000	100	142911	250.0	
$ 53 Dibromofluoromethane (Surr)	113	3.356	3.345	0.011	97	10873	4.00	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	3.653	3.641	0.012	0	13001	4.39	
59 Benzene	78	3.699	3.699	0.000	94	1007314	64.1	
* 65 Fluorobenzene	96	3.973	3.973	0.000	99	620861	50.0	
* 72 1,4-Dioxane-d8	96	4.680	4.680	0.000	0	27026	1000.0	
$ 83 Toluene-d8 (Surr)	98	5.731	5.731	0.000	95	81321	5.81	
* 94 Chlorobenzene-d5	117	7.649	7.649	0.000	82	477931	50.0	
98 m-Xylene & p-Xylene	106	8.083	8.094	-0.011	98	1404252	220.7	
99 o-Xylene	106	8.676	8.676	0.000	96	605630	98.6	
$ 105 4-Bromofluorobenzene	174	9.498	9.475	0.023	39	14290	4.07	
* 120 1,4-Dichlorobenzene-d4	152	11.325	11.325	0.000	94	258780	50.0	
S 138 Xylenes, Total	100				0		319.2	

QC Flag Legend
Processing Flags

Reagents:
8260ISNEW_00129 Amount Added: 1.00 Units: uL Run Reagent

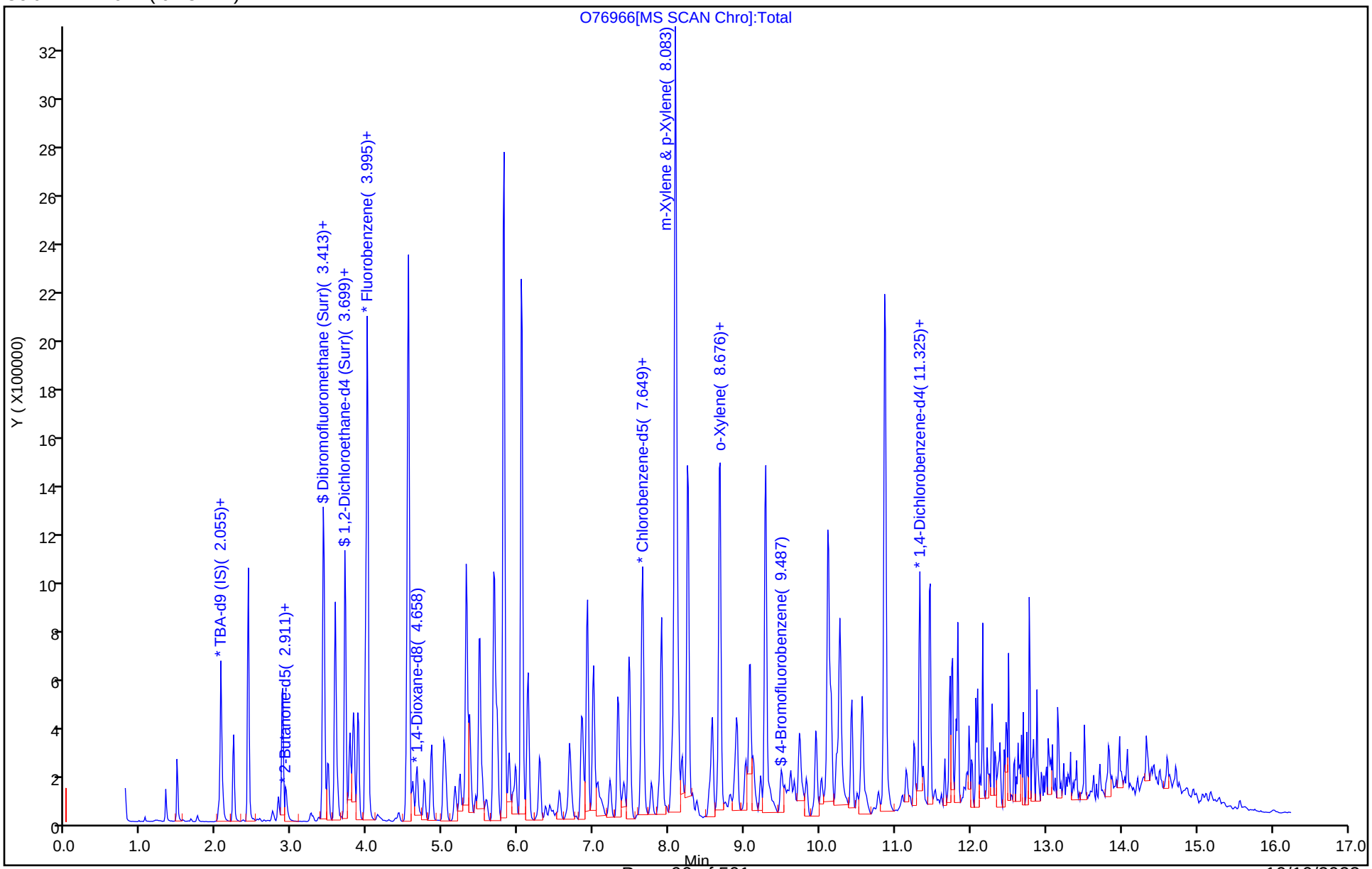
Report Date: 20-May-2022 14:30:51 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220520-145506.b\O76966.d

Injection Date:	20-May-2022 13:12:30	Instrument ID:	CVOAMS12	Operator ID:	
Lims ID:	460-258307-B-6-A	Lab Sample ID:	460-258307-6	Worklist Smp#:	20
Client ID:	DRA2-SB20-0.5-1.0				
Purge Vol:	5.000 mL	Dil. Factor:	500.0000	ALS Bottle#:	19
Method:	8260W_12	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



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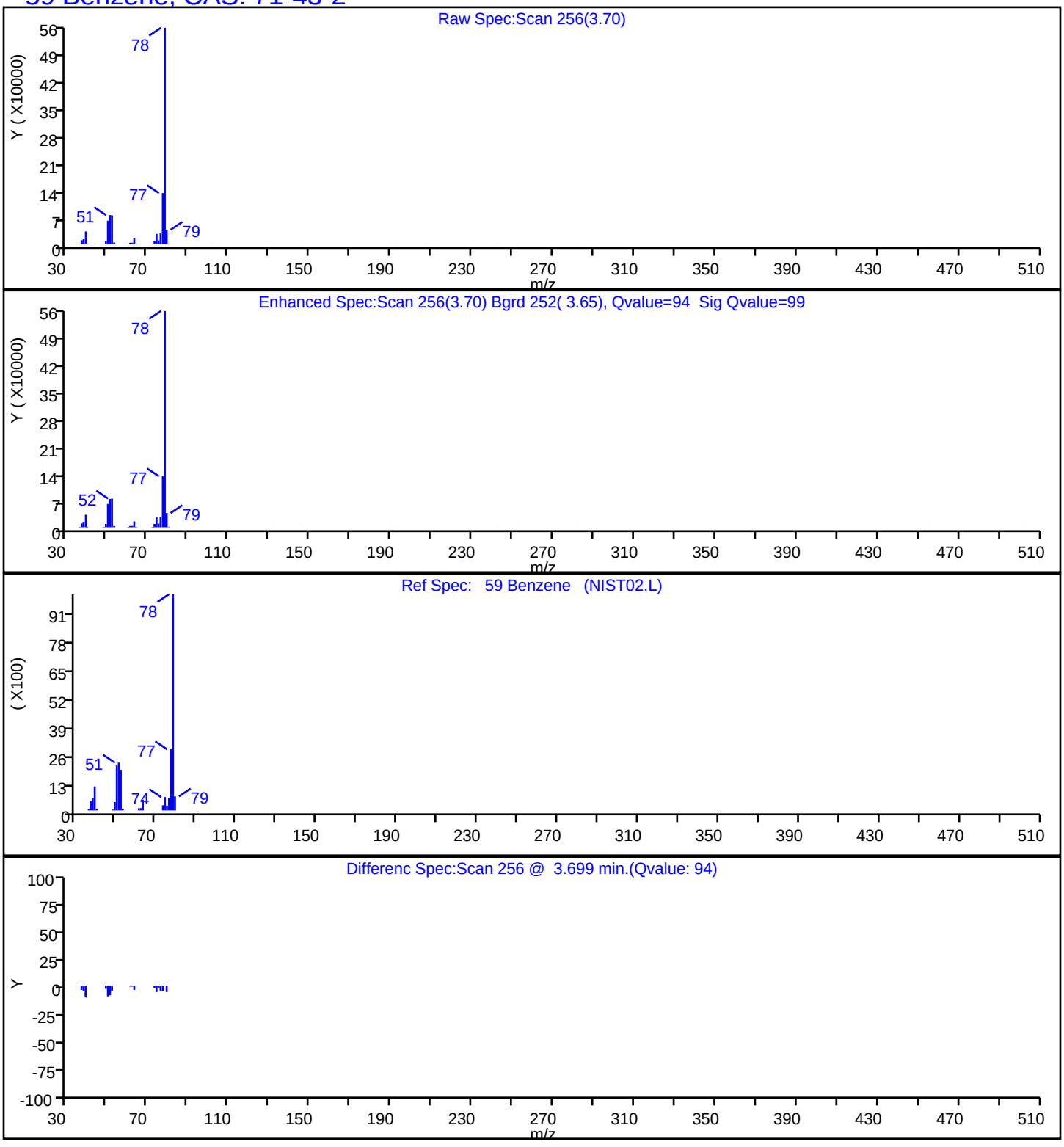
Report Date: 20-May-2022 14:30:51 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220520-145506.b\O76966.d

Injection Date:	20-May-2022 13:12:30	Instrument ID:	CVOAMS12		
Lims ID:	460-258307-B-6-A	Lab Sample ID:	460-258307-6		
Client ID:	DRA2-SB20-0.5-1.0				
Operator ID:		ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	500.0000		
Method:	8260W_12	Limit Group:	VOA - 8260D Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

59 Benzene, CAS: 71-43-2



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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison | Job No.: 460-258307-1

SDG No.:

Client Sample ID: DRA2-SB21-1.5-2.0 | Lab Sample ID: 460-258307-7

Matrix: Solid | Lab File ID: V19413.D

Analysis Method: 8260D | Date Collected: 05/17/2022 13:30

Sample wt/vol: 5.94(g) | Date Analyzed: 05/20/2022 16:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 18.4 % Solids: 81.6 | Level: (low/med) Low

Analysis Batch No.: 845591 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.27	U	1.0	0.27
100-41-4	Ethylbenzene	0.21	U	1.0	0.21
108-88-3	Toluene	0.24	U	1.0	0.24
1330-20-7	Xylenes, Total	0.18	U	2.1	0.18
95-63-6	1,2,4-Trimethylbenzene	0.25	U	1.0	0.25
108-67-8	1,3,5-Trimethylbenzene	0.32	U	1.0	0.32
98-82-8	Cumene	0.29	U	1.0	0.29

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		72-145
460-00-4	4-Bromofluorobenzene	103		75-139
1868-53-7	Dibromofluoromethane (Surr)	96		73-139
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Edison
Target Compound Quantitation Report

Data File:	\\chromfs\Edison\ChromData\CVOAMS7\20220520-145507.b\V19413.D				
Lims ID:	460-258307-C-7-A				
Client ID:	DRA2-SB21-1.5-2.0				
Sample Type:	Client				
Inject. Date:	20-May-2022 16:26:30	ALS Bottle#:	29	Worklist Smp#:	30
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	460-258307-C-7-A				
Misc. Info.:	460-0145507-030				
Operator ID:		Instrument ID:	CVOAMS7		
Method:	\\chromfs\Edison\ChromData\CVOAMS7\20220520-145507.b\8260S_7.m				
Limit Group:	VOA - 8260D Water and Solid				
Last Update:	29-Dec-2022 12:57:48	Calib Date:	22-Apr-2022 03:43:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18072.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1621				
First Level Reviewer: parekhv		Date:	20-May-2022 16:51:06		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 TBA-d9 (IS)	65	2.566	2.566	0.000	0	430131	1000.0	
* 38 2-Butanone-d5	46	3.515	3.515	0.000	0	364971	250.0	
$ 51 Dibromofluoromethane (Surr)	113	3.961	3.961	0.000	94	149813	47.9	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.292	4.304	-0.012	0	199071	51.4	
* 61 Fluorobenzene	96	4.566	4.566	0.000	98	619886	50.0	
* 67 1,4-Dioxane-d8	96	5.286	5.275	0.011	0	34971	1000.0	
$ 78 Toluene-d8 (Surr)	98	6.292	6.292	0.000	99	844576	47.8	
* 89 Chlorobenzene-d5	117	8.212	8.213	-0.001	89	524461	50.0	
$ 100 4-Bromofluorobenzene	174	9.481	9.481	0.000	85	220774	51.5	
108 1,3,5-Trimethylbenzene	105	9.847	9.847	0.000	68	4494	0.1460	
* 116 1,4-Dichlorobenzene-d4	152	10.498	10.498	0.000	99	241826	50.0	

QC Flag Legend

Processing Flags

Reagents:

8260SURR250_00226	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00117	Amount Added:	1.00	Units: uL	Run Reagent

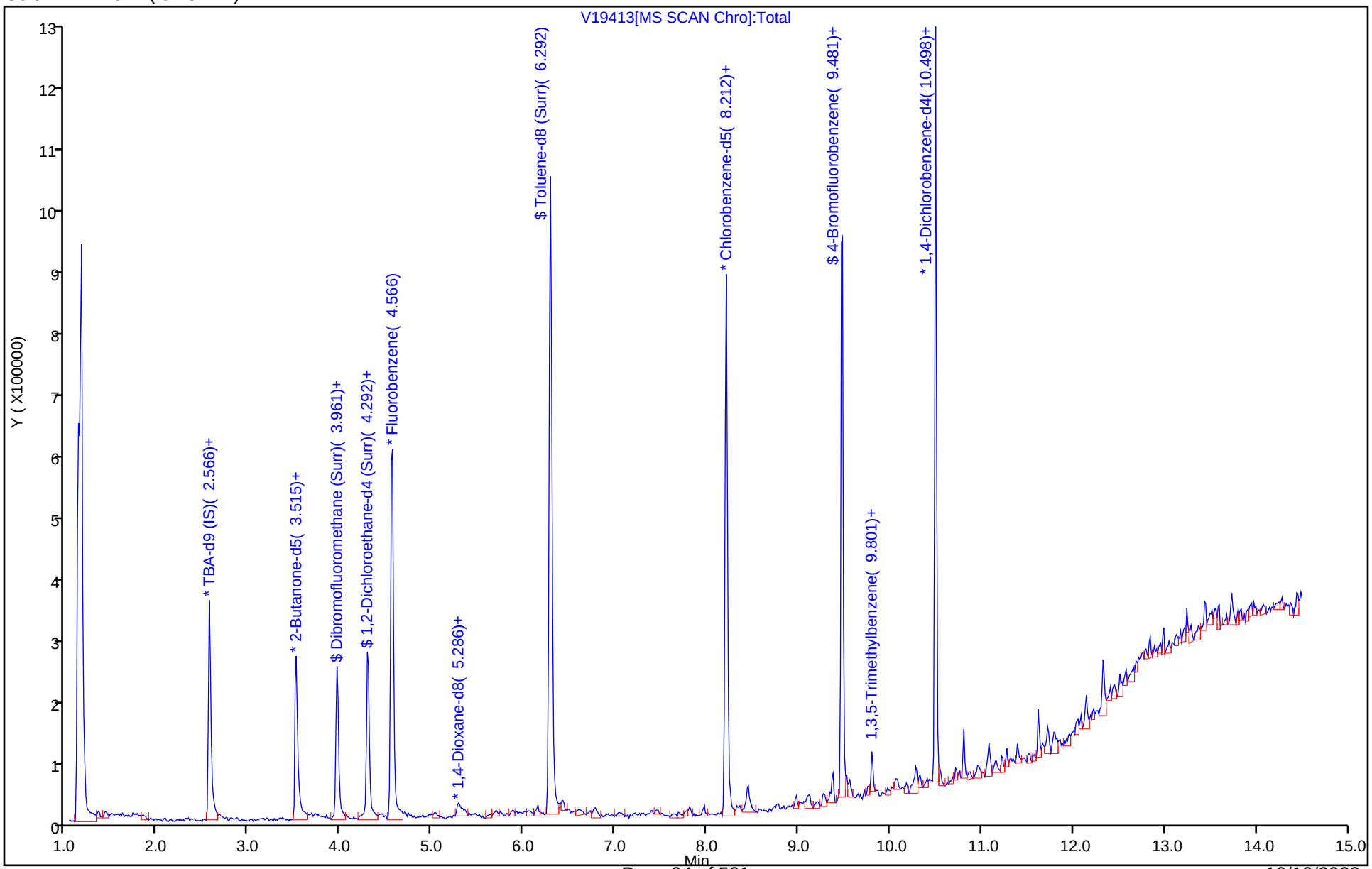
Report Date: 29-Dec-2022 13:16:26 Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220520-145507.b\V19413.D

Injection Date:	20-May-2022 16:26:30	Instrument ID:	CVOAMS7	Operator ID:	
Lims ID:	460-258307-C-7-A	Lab Sample ID:	460-258307-7	Worklist Smp#:	30
Client ID:	DRA2-SB21-1.5-2.0				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	8260S_7	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



10/10/2023
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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison | Job No.: 460-258307-1

SDG No.:

Client Sample ID: DRA2-SB22-0.0-0.5 | Lab Sample ID: 460-258307-8

Matrix: Solid | Lab File ID: V19455.D

Analysis Method: 8260D | Date Collected: 05/17/2022 13:35

Sample wt/vol: 5.73(g) | Date Analyzed: 05/21/2022 10:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: 18.4 % Solids: 81.6 | Level: (low/med) Low

Analysis Batch No.: 845827 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.28	U	1.1	0.28
100-41-4	Ethylbenzene	0.74	J	1.1	0.21
108-88-3	Toluene	0.25	U	1.1	0.25
1330-20-7	Xylenes, Total	5.4		2.1	0.19
95-63-6	1,2,4-Trimethylbenzene	0.26	U	1.1	0.26
108-67-8	1,3,5-Trimethylbenzene	0.34	U	1.1	0.34
98-82-8	Cumene	0.30	U	1.1	0.30

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		72-145
460-00-4	4-Bromofluorobenzene	101		75-139
1868-53-7	Dibromofluoromethane (Surr)	97		73-139
2037-26-5	Toluene-d8 (Surr)	93		80-120

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220521-145557.b\V19455.D
Lims ID: 460-258307-D-8-A
Client ID: DRA2-SB22-0.0-0.5
Sample Type: Client
Inject. Date: 21-May-2022 10:37:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-258307-D-8-A
Misc. Info.: 460-0145557-008
Operator ID: Instrument ID: CVOAMS7

Method: \\chromfs\Edison\ChromData\CVOAMS7\20220521-145557.b\8260S_7.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 23-May-2022 09:38:17 Calib Date: 22-Apr-2022 03:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18072.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: kaewink Date: 29-Dec-2022 12:58:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 TBA-d9 (IS)	65	2.566	2.566	0.000	0	343693	1000.0	
* 38 2-Butanone-d5	46	3.515	3.503	0.012	0	292981	250.0	
$ 51 Dibromofluoromethane (Surr)	113	3.960	3.961	-0.001	93	130898	48.5	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.303	4.292	0.011	0	163155	48.8	
* 61 Fluorobenzene	96	4.566	4.555	0.011	98	534244	50.0	
* 67 1,4-Dioxane-d8	96	5.286	5.286	0.000	0	27612	1000.0	
$ 78 Toluene-d8 (Surr)	98	6.292	6.292	0.000	99	654075	46.6	
* 89 Chlorobenzene-d5	117	8.212	8.212	0.000	89	416094	50.0	
91 Ethylbenzene	106	8.349	8.338	0.011	98	6652	0.6923	
93 m-Xylene & p-Xylene	106	8.487	8.475	0.012	98	38777	3.39	
94 o-Xylene	106	8.910	8.910	0.000	92	18578	1.64	
$ 100 4-Bromofluorobenzene	174	9.481	9.481	0.000	81	170869	50.7	
* 116 1,4-Dichlorobenzene-d4	152	10.498	10.498	0.000	98	190090	50.0	
S 133 Xylenes, Total	100				0		5.03	

QC Flag Legend

Processing Flags

Reagents:

8260SURR250_00226 Amount Added: 1.00 Units: uL Run Reagent
8260ISNEW_00117 Amount Added: 1.00 Units: uL Run Reagent

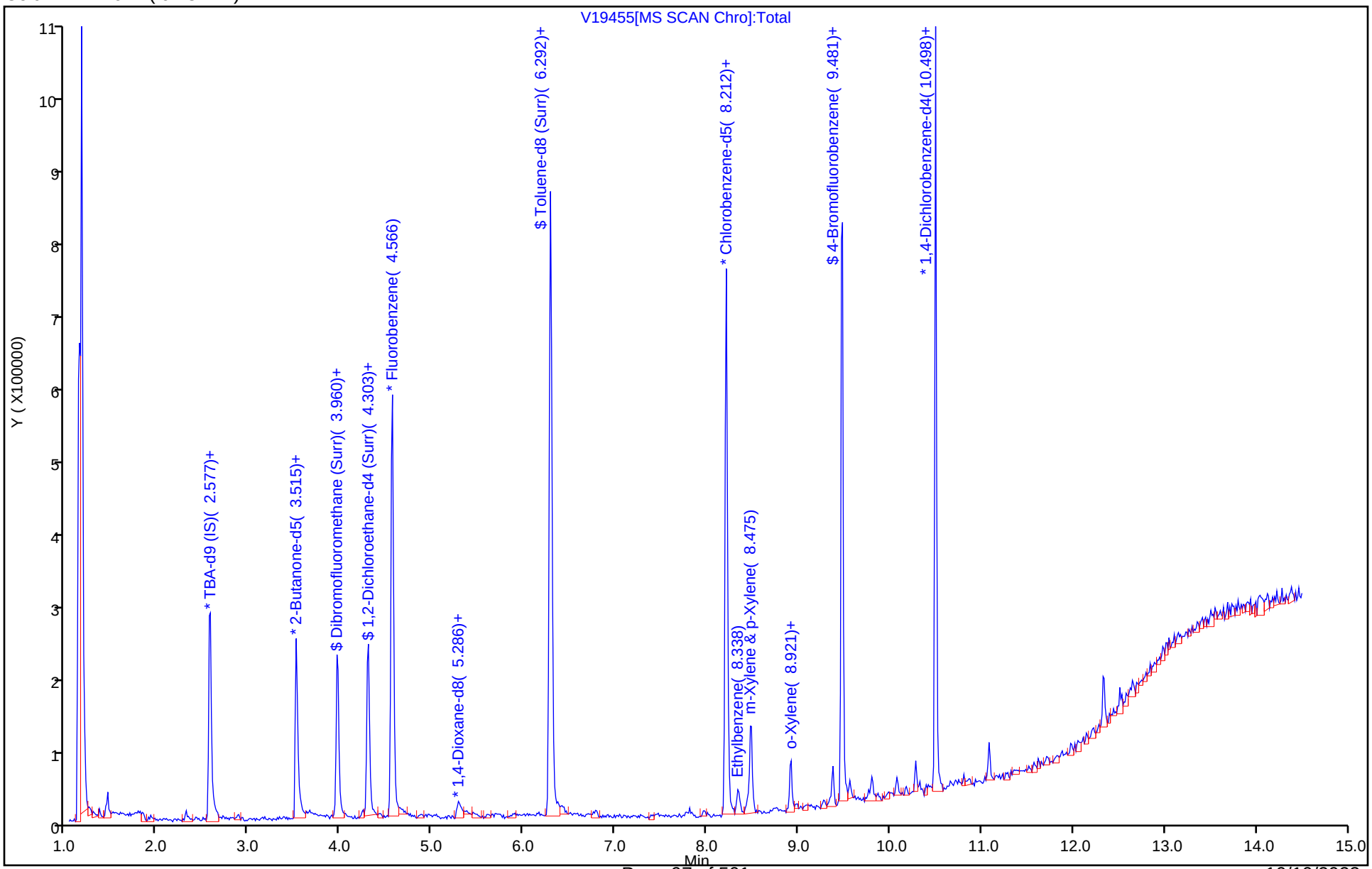
Report Date: 29-Dec-2022 12:58:39 Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220521-145557.b\V19455.D

Injection Date:	21-May-2022 10:37:30	Instrument ID:	CVOAMS7	Operator ID:	
Lims ID:	460-258307-D-8-A	Lab Sample ID:	460-258307-8	Worklist Smp#:	8
Client ID:	DRA2-SB22-0.0-0.5				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260S_7	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)

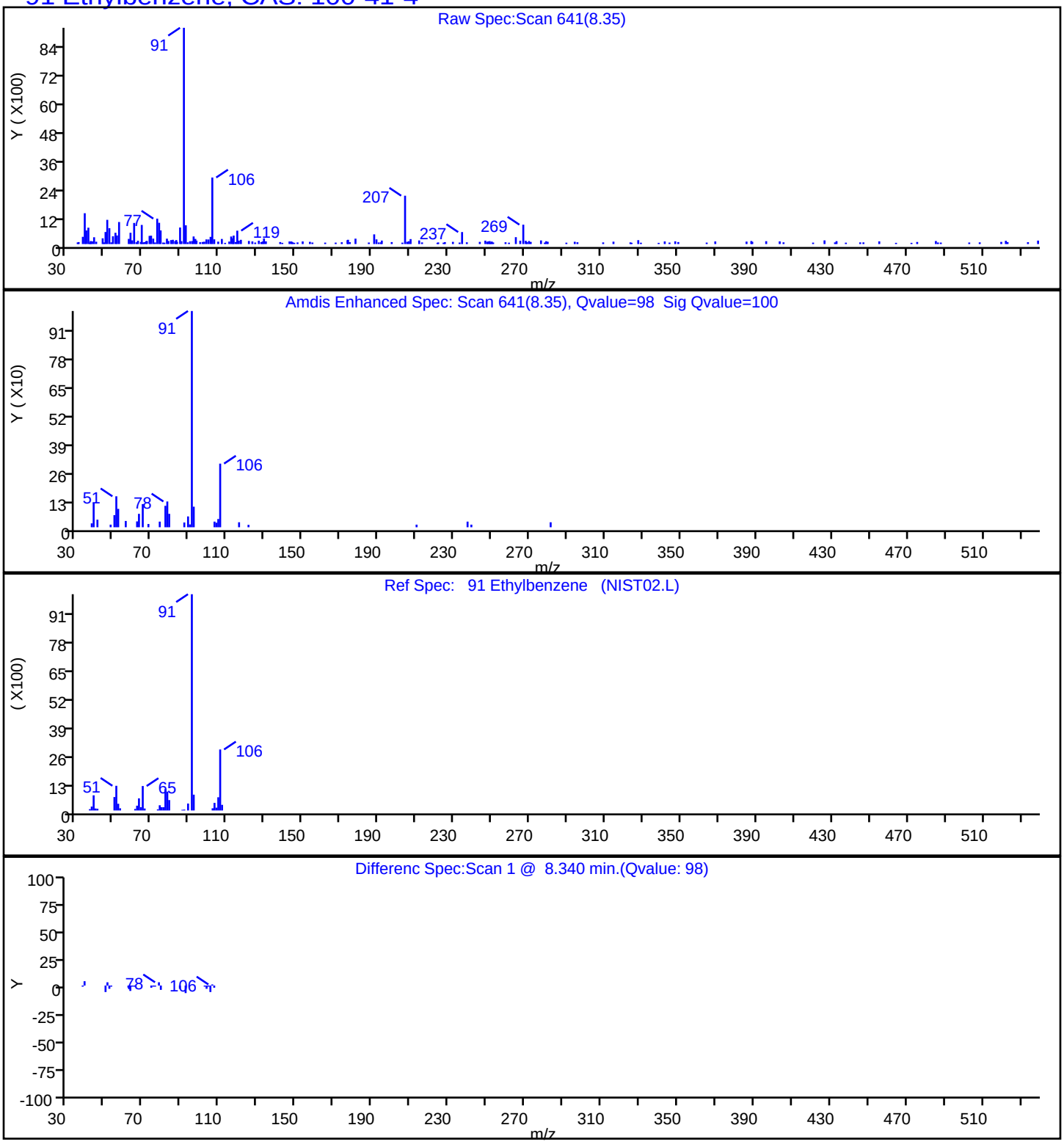


10/10/2023
12:43 PM

Eurofins Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS7\20220521-145557.b\V19455.D		
Injection Date:	21-May-2022 10:37:30	Instrument ID:	CVOAMS7
Lims ID:	460-258307-D-8-A	Lab Sample ID:	460-258307-8
Client ID:	DRA2-SB22-0.0-0.5		
Operator ID:		ALS Bottle#:	7 Worklist Smp#: 8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S_7	Limit Group:	VOA - 8260D Water and Solid
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

91 Ethylbenzene, CAS: 100-41-4

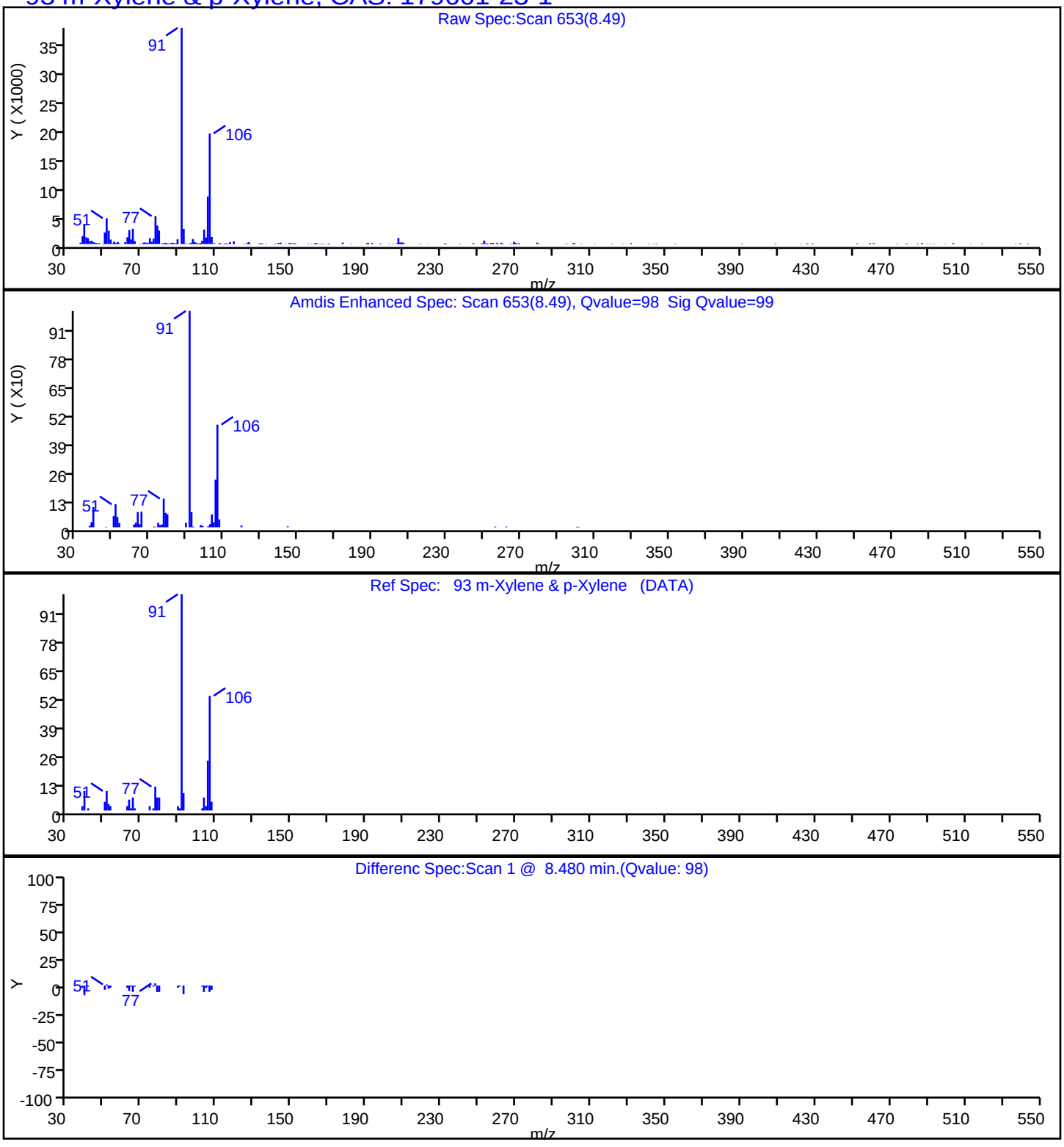


Report Date: 29-Dec-2022 12:58:39 Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS7\20220521-145557.b\V19455.D				
Injection Date:	21-May-2022 10:37:30	Instrument ID:	CVOAMS7		
Lims ID:	460-258307-D-8-A	Lab Sample ID:	460-258307-8		
Client ID:	DRA2-SB22-0.0-0.5				
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S_7	Limit Group:	VOA - 8260D Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

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

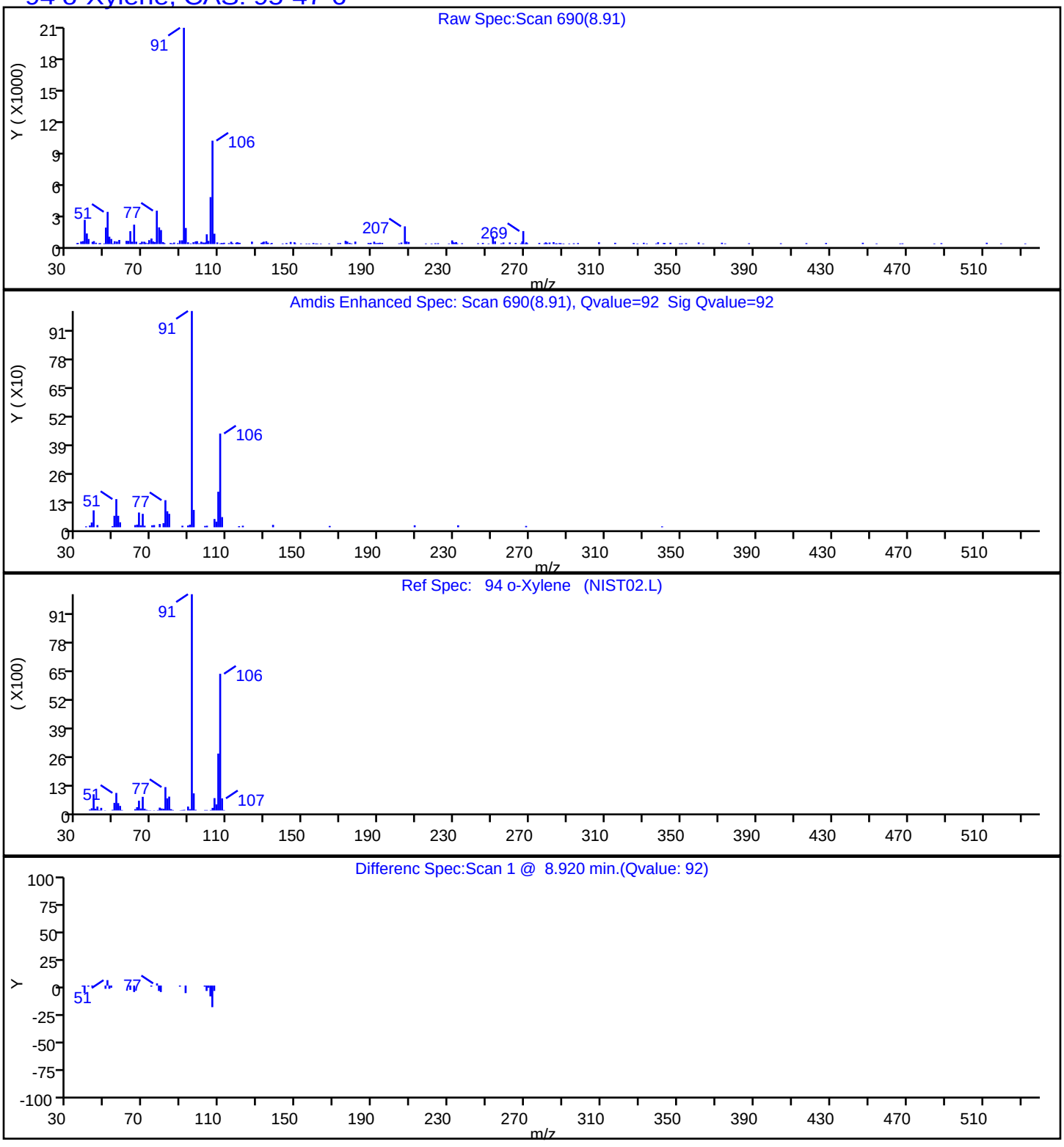


10/10/2023
12:43 PM

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220521-145557.b\V19455.D
Injection Date: 21-May-2022 10:37:30 Instrument ID: CVOAMS7
Lims ID: 460-258307-D-8-A Lab Sample ID: 460-258307-8
Client ID: DRA2-SB22-0.0-0.5
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S_7 Limit Group: VOA - 8260D Water and Solid
Column: DB-624 (0.18 mm) Detector MS SCAN

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



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

Lab Name: Eurofins Edison Job No.: 460-258307-1 Analy Batch No.: 844084

SDG No.:

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/12/2022 04:01 Calibration End Date: 05/12/2022 06:25 Calibration ID: 90411

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD7 460-844084/3	O76597.d
Level 2	STD1 460-844084/4	O76598.d
Level 3	STD5 460-844084/5	O76599.d
Level 4	STD20 460-844084/6	O76600.d
Level 5	STD50 460-844084/7	O76601.d
Level 6	STD200 460-844084/8	O76602.d
Level 7	STD500 460-844084/9	O76603.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	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								
Chlorotrifluoroethene	+++++ 0.8462	0.6959 0.8849	0.8816	0.9086	0.9447	Ave		0.8603				10.1		20.0			
Dichlorodifluoromethane	+++++ 0.2901	0.2399 0.3136	0.2669	0.2659	0.2636	Ave		0.2733			0.1000	9.3		20.0			
Chlorodifluoromethane	+++++ 0.0384	0.0495 0.0376	0.0400	0.0427	0.0419	Ave		0.0417				10.3		20.0			
Chloromethane	+++++ 0.3414	0.3882 0.3525	0.3664	0.3514	0.3456	Ave		0.3576			0.1000	4.8		20.0			
Vinyl chloride	+++++ 0.3341	0.3598 0.3429	0.3610	0.3616	0.3474	Ave		0.3511			0.1000	3.3		20.0			
Butadiene	0.5133 0.2979	0.2897 0.3076	0.2985	0.3046	0.3037	Lin2	0.0521	0.2915							0.9920		0.9900
Bromomethane	+++++ 0.2236	0.3046 +++++	0.2479	0.2326	0.2265	Ave		0.2470			0.1000	13.6		20.0			
Chloroethane	+++++ 0.2006	0.2169 0.1918	0.2146	0.2092	0.2129	Ave		0.2076			0.1000	4.6		20.0			
Dichlorofluoromethane	+++++ 0.4319	0.4682 0.4412	0.4508	0.4746	0.4729	Ave		0.4566				3.9		20.0			
Trichlorofluoromethane	+++++ 0.3303	0.2982 0.3474	0.3297	0.3480	0.3481	Ave		0.3336			0.1000	5.8		20.0			
Pentane	+++++ 0.0425	0.0455 0.0492	0.0524	0.0511	0.0524	Ave		0.0488				8.3		20.0			
Ethanol	+++++ 0.0789	0.0985 0.0634	0.0768	0.0953	0.1027	Ave		0.0859				17.8		20.0			
Ethyl ether	+++++ 0.1876	0.2027 0.1829	0.1750	0.2011	0.1949	Ave		0.1907				5.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Edison Job No.: 460-258307-1 Analy Batch No.: 844084

SDG No.:

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/12/2022 04:01 Calibration End Date: 05/12/2022 06:25 Calibration ID: 90411

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	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-Dichloro-1,1,2-trifluoroethane	+++++ 0.1959	0.1886 0.1999	0.1666	0.1858	0.1814	Ave		0.1864				6.3		20.0			
2-Methyl-1,3-butadiene	+++++ 0.1910	0.1869 0.1954	0.2272	0.2203	0.2308	Ave		0.2086				9.4		20.0			
1,1,1-Trifluoro-2,2-dichloroethane	+++++ 0.3089	0.2877 0.3169	0.3029	0.2999	0.2825	Ave		0.2998				4.3		20.0			
Acrolein	+++++ 1.3302	0.7150 1.1912	1.1603	1.4235	1.4166	Lin2	-2.567	1.3506							0.9930		0.9900
1,1-Dichloroethene	+++++ 0.2026	0.2230 0.2143	0.2120	0.2197	0.2255	Ave		0.2162			0.1000	3.9		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.1739	0.1485 0.1880	0.1925	0.1958	0.1981	Ave		0.1828			0.1000	10.3		20.0			
Acetone	+++++ 0.1940	0.2523 0.1899	0.1915	0.2284	0.2319	Ave		0.2147			0.0500	12.3		20.0			
Iodomethane	+++++ 0.3212	0.2476 0.3172	0.2921	0.3286	0.3502	Ave		0.3095				11.5		20.0			
Isopropyl alcohol	+++++ 0.7087	0.8972 0.6416	0.5808	0.8364	0.8498	Ave		0.7524				16.9		20.0			
Carbon disulfide	+++++ 0.7489	0.8526 0.7912	0.8216	0.8396	0.8632	Ave		0.8195			0.1000	5.2		20.0			
Acetonitrile	+++++ 0.4265	0.5623 +++++	0.4363	0.5434	0.5607	Ave		0.5058				13.5		20.0			
3-Chloro-1-propene	+++++ 0.1556	0.1484 0.1616	0.1587	0.1746	0.1820	Ave		0.1635				7.7		20.0			
Methyl acetate	+++++ 7.2342	5.5196 6.9201	5.3123	7.0492	7.3136	Ave		6.5582			0.1000	13.7		20.0			
Cyclopentene	+++++ 0.5014	0.7038 0.5995	0.5646	0.5670	0.5328	Ave		0.5782				12.1		20.0			
Methylene Chloride	+++++ 0.2468	0.2842 0.2632	0.2807	0.2883	0.2900	Ave		0.2755			0.1000	6.2		20.0			
2-Methyl-2-propanol	+++++ 1.0265	1.5262 1.0260	1.1106	1.2493	1.2049	Ave		1.1906				15.8		20.0			
Acrylonitrile	0.0801 0.0663	0.0709 0.0755	0.0613	0.0724	0.0754	Ave		0.0717				8.8		20.0			
trans-1,2-Dichloroethene	+++++ 0.2387	0.2252 0.2596	0.2335	0.2462	0.2341	Ave		0.2395			0.1000	5.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Edison Job No.: 460-258307-1 Analy Batch No.: 844084

SDG No.:

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/12/2022 04:01 Calibration End Date: 05/12/2022 06:25 Calibration ID: 90411

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	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								
Methyl tert-butyl ether	+++++ 0.6262	0.7595 0.6558	0.6980	0.7409	0.7180	Ave		0.6997			0.1000	7.3		20.0			
Hexane	+++++ 0.2178	0.1877 0.2393	0.2555	0.2381	0.2457	Ave		0.2307				10.6		20.0			
1,1-Dichloroethane	+++++ 0.4690	0.4410 0.4844	0.4216	0.4515	0.4345	Ave		0.4503			0.2000	5.1		20.0			
Vinyl acetate	+++++ 0.6847	0.4771 0.6806	0.5161	0.7340	0.7009	Ave		0.6322				17.0		20.0			
Isopropyl ether	+++++ 0.7972	0.9134 0.7882	0.8554	0.9301	0.8955	Ave		0.8633				7.0		20.0			
2-Chloro-1,3-butadiene	+++++ 0.2417	0.2522 0.2596	0.2398	0.2624	0.2666	Ave		0.2537				4.4		20.0			
Tert-butyl ethyl ether	+++++ 0.7866	0.7914 0.8094	0.7835	0.8570	0.8427	Ave		0.8118				3.8		20.0			
2,2-Dichloropropane	+++++ 0.0870	0.0799 0.0883	0.0835	0.0881	0.0902	Ave		0.0862				4.4		20.0			
cis-1,2-Dichloroethene	+++++ 0.2746	0.2788 0.2906	0.2202	0.2638	0.2522	Ave		0.2634			0.1000	9.4		20.0			
2-Butanone (MEK)	+++++ 0.3013	0.4215 0.2973	0.2877	0.3647	0.3662	Ave		0.3398			0.0500	15.6		20.0			
Propionitrile	+++++ 1.8879	1.2144 1.6470	1.5263	2.0610	2.1538	Qua2	-8.638	2.0232	-0.000070						0.9910		0.9900
Ethyl acetate	+++++ 0.2873	0.3622 0.2826	0.3049	0.3507	0.3622	Ave		0.3250				11.5		20.0			
Methyl acrylate	+++++ 0.2151	0.2095 0.2164	0.1913	0.2337	0.2371	Ave		0.2172				7.7		20.0			
Methacrylonitrile	+++++ 0.0894	0.0849 0.0916	0.0800	0.0946	0.0918	Ave		0.0887				6.0		20.0			
Chlorobromomethane	+++++ 0.1250	0.1201 0.1351	0.1135	0.1303	0.1316	Ave		0.1259				6.4		20.0			
Tetrahydrofuran	+++++ 0.6556	0.6253 0.6905	0.5583	0.7007	0.7285	Ave		0.6598				9.3		20.0			
Chloroform	+++++ 0.3981	0.4312 0.4242	0.3842	0.4192	0.3984	Ave		0.4092			0.2000	4.5		20.0			
1,1,1-Trichloroethane	+++++ 0.3446	0.3118 0.3582	0.3569	0.3614	0.3838	Ave		0.3528			0.1000	6.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Edison Job No.: 460-258307-1 Analy Batch No.: 844084

SDG No.:

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/12/2022 04:01 Calibration End Date: 05/12/2022 06:25 Calibration ID: 90411

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	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								
Cyclohexane	+++++ 0.2936	0.2491 0.3104	0.3178	0.3127	0.3364	Ave		0.3033			0.1000	9.9		20.0			
1,1-Dichloropropene	+++++ 0.3433	0.3504 0.3490	0.3519	0.3736	0.3865	Ave		0.3591				4.7		20.0			
Carbon tetrachloride	+++++ 0.2788	0.2479 0.2866	0.2842	0.2944	0.3080	Ave		0.2833			0.1000	7.1		20.0			
Isobutyl alcohol	+++++ 0.6486	0.4827 0.5689	0.6015	0.6004	0.7246	Ave		0.6044				13.3		20.0			
Benzene	+++++ 1.4719	1.8343 1.3987	1.5619	1.8306	1.7676	Ave		1.6442			0.5000	11.6		20.0			
1,2-Dichloroethane	+++++ 0.2710	0.3058 0.2672	0.2791	0.3034	0.2919	Ave		0.2864			0.1000	5.7		20.0			
Isooctane	+++++ 0.4482	0.3981 0.5209	0.5009	0.5136	0.5539	Ave		0.4893				11.5		20.0			
Isopropyl acetate	+++++ 0.0941	0.0963 0.0917	0.0840	0.1030	0.1006	Ave		0.0949				7.1		20.0			
Tert-amyl methyl ether	+++++ 0.7295	0.6947 0.7119	0.7523	0.7962	0.8148	Ave		0.7499				6.3		20.0			
n-Heptane	+++++ 0.1759	0.2708 0.2035	0.2310	0.1994	0.2179	Ave		0.2164				15.0		20.0			
Trichloroethene	+++++ 0.2418	0.2898 0.2494	0.2523	0.2624	0.2768	Ave		0.2621			0.2000	6.9		20.0			
n-Butanol	+++++ 0.4322	+++++ 0.3893	0.0573	0.2998	0.4454	Ave		0.3248				49.3	*	20.0			
Ethyl acrylate	+++++ 0.3170	0.3231 0.3192	0.1732	0.2836	0.3411	QuaF		0.3179	0.0000024						1.0000		0.9900
Methylcyclohexane	+++++ 0.2652	0.2575 0.2875	0.2787	0.2770	0.3053	Ave		0.2786			0.1000	6.0		20.0			
1,2-Dichloropropane	+++++ 0.2760	0.3025 0.2833	0.2856	0.3034	0.3266	Ave		0.2962			0.1000	6.2		20.0			
Dibromomethane	+++++ 0.1347	0.1427 0.1400	0.1187	0.1420	0.1433	Ave		0.1369				6.9		20.0			
1,4-Dioxane	+++++ 1.1527	1.1563 0.9553	0.9419	1.2817	1.3082	Ave		1.1327				13.8		20.0			
Methyl methacrylate	+++++ 0.0637	0.0424 0.0647	0.0518	0.0656	0.0686	Ave		0.0595				17.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Edison Job No.: 460-258307-1 Analy Batch No.: 844084

SDG No.:

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/12/2022 04:01 Calibration End Date: 05/12/2022 06:25 Calibration ID: 90411

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	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								
n-Propyl acetate	+++++ 0.3060	0.2312 0.3039	0.2161	0.3006	0.3412	Ave		0.2832				17.2		20.0			
Dichlorobromomethane	+++++ 0.3166	0.3312 0.3282	0.2820	0.3284	0.3519	Ave		0.3231			0.2000	7.2		20.0			
2-Nitropropane	+++++ 0.0468	0.0619 0.0477	0.0367	0.0460	0.0523	Ave		0.0486				17.0		20.0			
2-Chloroethyl vinyl ether	+++++ 0.1801	0.0735 0.1884	0.1146	0.1605	0.1869	Qua	-0.110	0.1767	0.0000238						1.0000		0.9900
Epichlorohydrin	0.2860 0.2828	0.2262 0.2921	0.2033	0.3080	0.3500	Ave		0.2783				17.7		20.0			
cis-1,3-Dichloropropene	+++++ 0.6474	0.6490 0.6201	0.5973	0.7553	0.7634	Ave		0.6721			0.2000	10.5		20.0			
4-Methyl-2-pentanone (MIBK)	+++++ 2.3746	1.8509 2.3099	1.8620	2.7235	3.0302	Ave		2.3585			0.0500	19.8		20.0			
Toluene	+++++ 1.5009	1.9098 1.4648	1.5904	1.7996	1.7707	Ave		1.6727			0.4000	10.7		20.0			
trans-1,3-Dichloropropene	+++++ 0.5726	0.5241 0.5631	0.4800	0.6519	0.6536	Ave		0.5742			0.1000	12.0		20.0			
Ethyl methacrylate	+++++ 0.4590	0.2992 0.4468	0.3354	0.4808	0.5080	Ave		0.4215				20.0		20.0			
1,1,2-Trichloroethane	+++++ 0.2692	0.2822 0.2563	0.2545	0.3031	0.3161	Ave		0.2802			0.1000	9.0		20.0			
Tetrachloroethene	+++++ 0.2969	0.3475 0.2963	0.2732	0.3255	0.3387	Ave		0.3130			0.2000	9.2		20.0			
1,3-Dichloropropane	+++++ 0.5758	0.5400 0.5555	0.5259	0.6562	0.6727	Ave		0.5877				10.5		20.0			
2-Hexanone	+++++ 1.7445	0.5961 1.6280	0.9483	1.6478	2.0004	Qua	-4.699	1.8534	-0.000090		0.0500				1.0000		0.9900
Chlorodibromomethane	+++++ 0.3460	0.3091 0.3347	0.2602	0.3549	0.3757	Ave		0.3301			0.1000	12.3		20.0			
Ethylene Dibromide	+++++ 0.3226	0.2825 0.3094	0.2727	0.3481	0.3664	Ave		0.3169			0.1000	11.5		20.0			
n-Butyl acetate	+++++ 0.5014	0.3120 0.4465	0.3022	0.4922	0.5197	QuaF		0.5354	-0.000178						1.0000		0.9900
Chlorobenzene	+++++ 0.9747	0.9810 0.9804	0.9440	1.0745	1.1168	Ave		1.0119			0.5000	6.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Edison Job No.: 460-258307-1 Analy Batch No.: 844084

SDG No.:

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/12/2022 04:01 Calibration End Date: 05/12/2022 06:25 Calibration ID: 90411

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	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								
1,1,1,2-Tetrachloroethane	+++++ 0.3278	0.3219 0.3334	0.2849	0.3550	0.3696	Ave		0.3321				8.8		20.0			
Ethylbenzene	+++++ 0.5062	0.5218 0.5188	0.4598	0.5580	0.5742	Ave		0.5231			0.1000	7.7		20.0			
m-Xylene & p-Xylene	+++++ 0.6294	0.6949 0.6451	0.6058	0.6965	0.7229	Ave		0.6658			0.1000	6.9		20.0			
o-Xylene	+++++ 0.6375	0.6333 0.6606	0.5664	0.6682	0.6914	Ave		0.6429			0.3000	6.7		20.0			
Styrene	+++++ 1.1225	0.8477 1.1521	0.8591	1.1475	1.2271	Ave		1.0593			0.3000	15.4		20.0			
n-Butyl acrylate	+++++ 0.2817	0.0581 0.2652	0.1289	0.2477	0.2915	QuaF		0.2916	-0.000053						1.0000		0.9900
Bromoform	+++++ 0.2179	0.1804 0.2252	0.1407	0.1994	0.2282	Ave		0.1986			0.1000	16.9		20.0			
Amyl acetate (mixed isomers)	+++++ 1.0953	0.1649 1.0736	0.5380	1.0470	1.1275	Ave		0.8410				47.3	*	20.0			
Isopropylbenzene	+++++ 1.3787	1.4139 1.3801	1.2521	1.4748	1.5675	Ave		1.4112			0.1000	7.5		20.0			
Bromobenzene	+++++ 0.7054	0.7730 0.7176	0.6625	0.8325	0.8004	Ave		0.7485				8.6		20.0			
1,1,2,2-Tetrachloroethane	+++++ 0.8055	0.9281 0.7921	0.6572	0.8785	0.8740	Ave		0.8226			0.3000	11.6		20.0			
1,2,3-Trichloropropane	+++++ 0.6068	0.7817 0.5981	0.5871	0.7162	0.6786	Ave		0.6614				11.8		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.3702	0.3241 0.3718	0.2585	0.3791	0.4017	Ave		0.3509				14.8		20.0			
N-Propylbenzene	+++++ 2.8348	2.8742 2.7658	2.5787	3.2640	3.2363	Ave		2.9256				9.3		20.0			
2-Chlorotoluene	+++++ 1.9453	2.4055 1.9402	2.1095	2.4191	2.2544	Ave		2.1790				9.9		20.0			
4-Ethyltoluene	+++++ 2.3159	2.8226 2.2945	2.1386	2.7380	2.6598	Ave		2.4949				11.2		20.0			
4-Chlorotoluene	+++++ 2.0731	2.4315 2.0351	2.1195	2.6387	2.5868	Ave		2.3141				11.7		20.0			
1,3,5-Trimethylbenzene	+++++ 1.8184	2.0978 1.7561	1.6930	2.1480	2.1207	Ave		1.9390				10.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Edison Job No.: 460-258307-1 Analy Batch No.: 844084

SDG No.:

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/12/2022 04:01 Calibration End Date: 05/12/2022 06:25 Calibration ID: 90411

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	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								
Butyl Methacrylate	+++++ 0.9130	0.4056 0.9290	0.4953	0.8227	0.8907	QuaF		0.8978	0.0000627						1.0000		0.9900
tert-Butylbenzene	+++++ 1.5607	1.6034 1.5303	1.4938	1.7408	1.7240	Ave		1.6088				6.4		20.0			
1,2,4-Trimethylbenzene	+++++ 1.8708	2.1308 1.7685	1.7556	2.0599	2.1253	Ave		1.9518				8.9		20.0			
sec-Butylbenzene	+++++ 2.2092	2.3238 2.1595	1.9785	2.4550	2.4534	Ave		2.2633				8.2		20.0			
1,3-Dichlorobenzene	+++++ 1.2446	1.2878 1.2136	1.1306	1.3813	1.4038	Ave		1.2769			0.6000	8.1		20.0			
1,4-Dichlorobenzene	+++++ 1.3098	1.4880 1.2910	1.3120	1.4859	1.4855	Ave		1.3954			0.5000	7.2		20.0			
4-Isopropyltoluene	+++++ 1.7485	1.7124 1.7176	1.6466	1.9960	1.9888	Ave		1.8017				8.4		20.0			
1,2,3-Trimethylbenzene	+++++ 1.9618	2.2615 1.8835	1.8695	2.2811	2.2530	Ave		2.0851				9.6		20.0			
Benzyl chloride	+++++ 0.3506	0.2193 0.3350	0.2270	0.3503	0.3769	Qua	-0.148	0.3646	-0.000059						1.0000		0.9900
Indan	+++++ 2.3731	2.4915 2.2398	2.2544	2.6750	2.7002	Ave		2.4557				8.2		20.0			
1,2-Dichlorobenzene	+++++ 1.2428	1.1842 1.2344	1.1659	1.4643	1.4424	Ave		1.2890			0.4000	10.1		20.0			
p-Diethylbenzene	+++++ 0.8663	0.8498 0.8552	0.8209	0.9704	0.9880	Ave		0.8918				7.8		20.0			
n-Butylbenzene	+++++ 0.8198	0.8446 0.7910	0.7139	0.9229	0.9534	Ave		0.8409				10.4		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1515	0.0977 0.1487	0.1227	0.1494	0.1650	Ave		0.1391			0.0500	17.6		20.0			
1,2,4,5-Tetramethylbenzene	+++++ 1.1042	0.9332 1.0934	0.9539	1.1385	1.1821	Ave		1.0676				9.5		20.0			
1,3,5-Trichlorobenzene	+++++ 0.5632	0.5094 0.5621	0.5042	0.5847	0.6126	Ave		0.5561				7.6		20.0			
1,2,4-Trichlorobenzene	+++++ 0.5235	0.4970 0.5390	0.3880	0.5137	0.5337	Ave		0.4992			0.2000	11.3		20.0			
Hexachlorobutadiene	+++++ 0.2333	0.2489 0.2483	0.2132	0.2480	0.2605	Ave		0.2420				6.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Edison Job No.: 460-258307-1 Analy Batch No.: 844084

SDG No.:

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/12/2022 04:01 Calibration End Date: 05/12/2022 06:25 Calibration ID: 90411

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	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								
Naphthalene	+++++ 1.3369	1.6851 1.3124	0.9735	1.2423	1.3155	Ave		1.3110				17.4		20.0			
1,2,3-Trichlorobenzene	+++++ 0.4573	0.4743 0.4704	0.3802	0.4607	0.5073	Ave		0.4584				9.2		20.0			
Dibromofluoromethane (Surr)	0.2056 0.2225	0.2148 0.2417	0.1978	0.2187	0.2297	Ave		0.2187				6.7		20.0			
1,2-Dichloroethane-d4 (Surr)	0.2319 0.2333	0.2485 0.2438	0.2318	0.2430	0.2369	Ave		0.2385				2.8		20.0			
Toluene-d8 (Surr)	1.3785 1.3545	1.5431 1.3630	1.4235	1.5790	1.6052	Ave		1.4638				7.4		20.0			
4-Bromofluorobenzene	0.3382 0.3651	0.3834 0.3655	0.3384	0.3799	0.4007	Ave		0.3673				6.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Edison | Job No.: 460-258307-1 | Analy Batch No.: 844084

SDG No.:

Instrument ID: CVOAMS12 | GC Column: DB-624 | ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 05/12/2022 04:01 | Calibration End Date: 05/12/2022 06:25 | Calibration ID: 90411

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD7 460-844084/3	O76597.d
Level 2	STD1 460-844084/4	O76598.d
Level 3	STD5 460-844084/5	O76599.d
Level 4	STD20 460-844084/6	O76600.d
Level 5	STD50 460-844084/7	O76601.d
Level 6	STD200 460-844084/8	O76602.d
Level 7	STD500 460-844084/9	O76603.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
Chlorotrifluoroethene	BUT	Ave	+++++ 201366	636 515119	4460	17323	42608	+++++ 200	1.00 500	5.00	20.0	50.0
Dichlorodifluoromethane	FB	Ave	+++++ 837520	2880 2186880	16817	68384	165144	+++++ 200	1.00 500	5.00	20.0	50.0
Chlorodifluoromethane	FB	Ave	+++++ 110855	594 262204	2519	10978	26266	+++++ 200	1.00 500	5.00	20.0	50.0
Chloromethane	FB	Ave	+++++ 985681	4661 2458236	23083	90382	216546	+++++ 200	1.00 500	5.00	20.0	50.0
Vinyl chloride	FB	Ave	+++++ 964610	4320 2390965	22745	93006	217652	+++++ 200	1.00 500	5.00	20.0	50.0
Butadiene	FB	Lin2	1680 860022	3478 2145245	18807	78334	190281	0.250 200	1.00 500	5.00	20.0	50.0
Bromomethane	FB	Ave	+++++ 645534	3657 +++++	15616	59837	141883	+++++ 200	1.00 +++++	5.00	20.0	50.0
Chloroethane	FB	Ave	+++++ 579057	2604 1337480	13518	53795	133397	+++++ 200	1.00 500	5.00	20.0	50.0
Dichlorofluoromethane	FB	Ave	+++++ 1247089	5622 3077011	28400	122066	296254	+++++ 200	1.00 500	5.00	20.0	50.0
Trichlorofluoromethane	FB	Ave	+++++ 953671	3580 2422620	20770	89506	218074	+++++ 200	1.00 500	5.00	20.0	50.0
Pentane	FB	Ave	+++++ 245251	1093 685899	6600	26290	65639	+++++ 400	2.00 1000	10.0	40.0	100
Ethanol	TBAd9	Ave	+++++ 136127	667 312699	2700	13249	35117	+++++ 8000	40.0 20000	200	800	2000
Ethyl ether	FB	Ave	+++++ 541780	2434 1275293	11023	51713	122132	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloro-1,1,2-trifluoroethane	FB	Ave	+++++ 565623	2265 1393778	10496	47790	113621	+++++ 200	1.00 500	5.00	20.0	50.0
2-Methyl-1,3-butadiene	FB	Ave	+++++ 551352	2244 1362493	14311	56654	144604	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,1-Trifluoro-2,2-dichloroethane	FB	Ave	+++++	3454	19081	77146	176992	+++++	1.00	5.00	20.0	50.0

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

Lab Name: Eurofins Edison Job No.: 460-258307-1 Analy Batch No.: 844084

SDG No.:

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/12/2022 04:01 Calibration End Date: 05/12/2022 06:25 Calibration ID: 90411

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
			891830	2210116				200	500			
Acrolein	TBAd9	Lin2	+++++ 58174	491 119149	4136	10030	24565	+++++ 203	4.06 406	20.3	40.6	101
1,1-Dichloroethene	FB	Ave	+++++ 585050	2678 1494596	13355	56511	141274	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 502157	1783 1311316	12127	50365	124086	+++++ 200	1.00 500	5.00	20.0	50.0
Acetone	BUT	Ave	+++++ 230813	1153 552699	4845	21770	52302	+++++ 1000	5.00 2500	25.0	100	250
Iodomethane	FB	Ave	+++++ 927348	2973 2211881	18404	84524	219404	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl alcohol	TBAd9	Ave	+++++ 305658	1519 791098	5104	29058	72661	+++++ 2000	10.0 5000	50.0	200	500
Carbon disulfide	FB	Ave	+++++ 2162182	10237 5517454	51763	215939	540803	+++++ 200	1.00 500	5.00	20.0	50.0
Acetonitrile	TBAd9	Ave	+++++ 183952	952 +++++	3834	18878	47944	+++++ 2000	10.0 +++++	50.0	200	500
3-Chloro-1-propene	FB	Ave	+++++ 449246	1782 1127299	9996	44916	114023	+++++ 200	1.00 500	5.00	20.0	50.0
Methyl acetate	TBAd9	Ave	+++++ 624033	1869 1706549	9337	48982	125071	+++++ 400	2.00 1000	10.0	40.0	100
Cyclopentene	FB	Ave	+++++ 1447570	8451 4180972	35569	145823	333835	+++++ 200	1.00 500	5.00	20.0	50.0
Methylene Chloride	FB	Ave	+++++ 712553	3413 1835272	17686	74156	181673	+++++ 200	1.00 500	5.00	20.0	50.0
2-Methyl-2-propanol	TBAd9	Ave	+++++ 442731	2584 1265164	9760	43403	103022	+++++ 2000	10.0 5000	50.0	200	500
Acrylonitrile	FB	Ave	2098 1913358	8518 5268188	38648	186217	472231	2.00 2000	10.0 5000	50.0	200	500
trans-1,2-Dichloroethene	FB	Ave	+++++ 689211	2704 1810080	14710	63332	146648	+++++ 200	1.00 500	5.00	20.0	50.0
Methyl tert-butyl ether	FB	Ave	+++++ 1808158	9119 4573311	43975	190551	449852	+++++ 200	1.00 500	5.00	20.0	50.0
Hexane	FB	Ave	+++++ 628856	2254 1668686	16095	61244	153903	+++++ 200	1.00 500	5.00	20.0	50.0
1,1-Dichloroethane	FB	Ave	+++++ 1354248	5295 3378428	26564	116121	272197	+++++ 200	1.00 500	5.00	20.0	50.0
Vinyl acetate	BUT	Ave	+++++ 325858	872 792396	5222	27988	63223	+++++ 400	2.00 1000	10.0	40.0	100
Isopropyl ether	FB	Ave	+++++	10967	53894	239238	561064	+++++	1.00	5.00	20.0	50.0

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

Lab Name: Eurofins Edison Job No.: 460-258307-1 Analy Batch No.: 844084

SDG No.:

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/12/2022 04:01 Calibration End Date: 05/12/2022 06:25 Calibration ID: 90411

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
			2301826	5497066				200	500			
2-Chloro-1,3-butadiene	FB	Ave	+++++ 697827	3028 1810651	15110	67489	167031	+++++ 200	1.00 500	5.00	20.0	50.0
Tert-butyl ethyl ether	FB	Ave	+++++ 2271265	9503 5644251	49362	220423	527977	+++++ 200	1.00 500	5.00	20.0	50.0
2,2-Dichloropropane	FB	Ave	+++++ 251215	959 615568	5259	22650	56539	+++++ 200	1.00 500	5.00	20.0	50.0
cis-1,2-Dichloroethene	FB	Ave	+++++ 792759	3348 2026729	13874	67840	158010	+++++ 200	1.00 500	5.00	20.0	50.0
2-Butanone (MEK)	BUT	Ave	+++++ 358509	1926 865243	7277	34769	82575	+++++ 1000	5.00 2500	25.0	100	250
Propionitrile	TBAd9	Qua2	+++++ 814253	2056 2030765	13413	71604	184160	+++++ 2000	10.0 5000	50.0	200	500
Ethyl acetate	BUT	Ave	+++++ 136735	662 329071	3085	13372	32667	+++++ 400	2.00 1000	10.0	40.0	100
Methyl acrylate	FB	Ave	+++++ 621101	2516 1508895	12052	60121	148541	+++++ 200	1.00 500	5.00	20.0	50.0
Methacrylonitrile	FB	Ave	+++++ 2580744	10196 6386102	50382	243189	574849	+++++ 2000	10.0 5000	50.0	200	500
Chlorobromomethane	FB	Ave	+++++ 361054	1442 942270	7150	33511	82419	+++++ 200	1.00 500	5.00	20.0	50.0
Tetrahydrofuran	BUT	Ave	+++++ 312018	1143 803921	5649	26720	65707	+++++ 400	2.00 1000	10.0	40.0	100
Chloroform	FB	Ave	+++++ 1149556	5178 2958271	24207	107828	249582	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	+++++ 994897	3744 2498229	22484	92951	240471	+++++ 200	1.00 500	5.00	20.0	50.0
Cyclohexane	FB	Ave	+++++ 847805	2991 2164476	20024	80432	210775	+++++ 200	1.00 500	5.00	20.0	50.0
1,1-Dichloropropene	FB	Ave	+++++ 991109	4207 2433806	22173	96088	242158	+++++ 200	1.00 500	5.00	20.0	50.0
Carbon tetrachloride	FB	Ave	+++++ 805046	2976 1998711	17902	75722	192990	+++++ 200	1.00 500	5.00	20.0	50.0
Isobutyl alcohol	TBAd9	Ave	+++++ 699383	2043 1753597	13216	52151	154887	+++++ 5000	25.0 12500	125	500	1250
Benzene	CBNZd5	Ave	+++++ 2995045	13734 7363693	67812	296402	728386	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloroethane	FB	Ave	+++++ 782354	3672 1863681	17586	78043	182892	+++++ 200	1.00 500	5.00	20.0	50.0
Isooctane	FB	Ave	+++++	4780	31558	132089	347022	+++++	1.00	5.00	20.0	50.0

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

Lab Name: Eurofins Edison | Job No.: 460-258307-1 | Analy Batch No.: 844084

SDG No.:

Instrument ID: CVOAMS12 | GC Column: DB-624 | ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 05/12/2022 04:01 | Calibration End Date: 05/12/2022 06:25 | Calibration ID: 90411

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
			1294109	3632482				200	500			
Isopropyl acetate	FB	Ave	+++++ 271689	1156 639617	5290	26482	63002	+++++ 200	1.00 500	5.00	20.0	50.0
Tert-amyl methyl ether	FB	Ave	+++++ 2106304	8342 4964926	47394	204778	510457	+++++ 200	1.00 500	5.00	20.0	50.0
n-Heptane	FB	Ave	+++++ 507973	3252 1419148	14551	51298	136525	+++++ 200	1.00 500	5.00	20.0	50.0
Trichloroethene	FB	Ave	+++++ 698049	3480 1739285	15897	67503	173406	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butanol	TBAd9	Ave	+++++ 465997	+++++ 1200094	1259	26042	95216	+++++ 5000	+++++ 12500	125	500	1250
Ethyl acrylate	FB	QuaF	+++++ 915154	3880 2226024	10911	72944	213696	+++++ 200	1.00 500	5.00	20.0	50.0
Methylcyclohexane	FB	Ave	+++++ 765743	3092 2005077	17560	71251	191286	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloropropane	FB	Ave	+++++ 796847	3632 1975926	17990	78045	204620	+++++ 200	1.00 500	5.00	20.0	50.0
Dibromomethane	FB	Ave	+++++ 388804	1714 975987	7477	36532	89785	+++++ 200	1.00 500	5.00	20.0	50.0
1,4-Dioxane	DXE	Ave	+++++ 178130	1527 422662	3033	16011	42033	+++++ 4000	50.0 10000	100	400	1000
Methyl methacrylate	FB	Ave	+++++ 367904	1018 902016	6523	33749	85940	+++++ 400	2.00 1000	10.0	40.0	100
n-Propyl acetate	FB	Ave	+++++ 883387	2776 2119094	13616	77313	213787	+++++ 200	1.00 500	5.00	20.0	50.0
Dichlorobromomethane	FB	Ave	+++++ 914143	3977 2288671	17768	84456	220478	+++++ 200	1.00 500	5.00	20.0	50.0
2-Nitropropane	FB	Ave	+++++ 270508	1486 665701	4626	23674	65556	+++++ 400	2.00 1000	10.0	40.0	100
2-Chloroethyl vinyl ether	FB	Qua	+++++ 521141	885 1317167	7238	41382	117401	+++++ 200	1.00 501	5.01	20.0	50.1
Epichlorohydrin	BUT	Ave	1506 1345904	4135 3400618	20572	117449	315718	5.00 4000	20.0 10000	100	400	1000
cis-1,3-Dichloropropene	CBNZd5	Ave	+++++ 1317258	4859 3264637	25934	122301	314602	+++++ 200	1.00 500	5.00	20.0	50.0
4-Methyl-2-pentanone (MIBK)	BUT	Ave	+++++ 2825168	8458 6723175	47100	259625	683310	+++++ 1000	5.00 2500	25.0	100	250
Toluene	CBNZd5	Ave	+++++ 3053939	14299 7711517	69046	291386	729698	+++++ 200	1.00 500	5.00	20.0	50.0

Lab Name: Eurofins Edison | Job No.: 460-258307-1 | Analy Batch No.: 844084

SDG No.:

Instrument ID: CVOAMS12 | GC Column: DB-624 | ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 05/12/2022 04:01 | Calibration End Date: 05/12/2022 06:25 | Calibration ID: 90411

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
trans-1,3-Dichloropropene	CBNZd5	Ave	+++++ 1165041	3924 2964599	20840	105551	269329	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl methacrylate	CBNZd5	Ave	+++++ 933909	2240 2352175	14560	77848	209335	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,2-Trichloroethane	CBNZd5	Ave	+++++ 547821	2113 1349431	11049	49079	130246	+++++ 200	1.00 500	5.00	20.0	50.0
Tetrachloroethene	CBNZd5	Ave	+++++ 604082	2602 1560005	11860	52697	139570	+++++ 200	1.00 500	5.00	20.0	50.0
1,3-Dichloropropane	CBNZd5	Ave	+++++ 1171664	4043 2924724	22830	106244	277217	+++++ 200	1.00 500	5.00	20.0	50.0
2-Hexanone	BUT	Qua	+++++ 2075580	2724 4738618	23988	157086	451088	+++++ 1000	5.00 2500	25.0	100	250
Chlorodibromomethane	CBNZd5	Ave	+++++ 703977	2314 1761870	11298	57465	154831	+++++ 200	1.00 500	5.00	20.0	50.0
Ethylene Dibromide	CBNZd5	Ave	+++++ 656436	2115 1628728	11839	56359	150984	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butyl acetate	CBNZd5	QuaF	+++++ 1020172	2336 2350495	13119	79693	214149	+++++ 200	1.00 500	5.00	20.0	50.0
Chlorobenzene	CBNZd5	Ave	+++++ 1983315	7345 5161180	40983	173975	460199	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,1,2-Tetrachloroethane	CBNZd5	Ave	+++++ 667069	2410 1755314	12368	57485	152319	+++++ 200	1.00 500	5.00	20.0	50.0
Ethylbenzene	CBNZd5	Ave	+++++ 1029973	3907 2731079	19964	90341	236620	+++++ 200	1.00 500	5.00	20.0	50.0
m-Xylene & p-Xylene	CBNZd5	Ave	+++++ 1280778	5203 3396001	26302	112777	297907	+++++ 200	1.00 500	5.00	20.0	50.0
o-Xylene	CBNZd5	Ave	+++++ 1297212	4742 3477788	24592	108185	284899	+++++ 200	1.00 500	5.00	20.0	50.0
Styrene	CBNZd5	Ave	+++++	6347	37296	185799	505688	+++++	1.00	5.00	20.0	50.0

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

Lab Name: Eurofins Edison | Job No.: 460-258307-1 | Analy Batch No.: 844084

SDG No.:

Instrument ID: CVOAMS12 | GC Column: DB-624 | ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 05/12/2022 04:01 | Calibration End Date: 05/12/2022 06:25 | Calibration ID: 90411

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
			2284111	6065414				200	500			
n-Butyl acrylate	CBNZd5	QuaF	+++++ 573178	435 1396289	5596	40102	120109	+++++ 200	1.00 500	5.00	20.0	50.0
Bromoform	CBNZd5	Ave	+++++ 443294	1351 1185726	6107	32281	94038	+++++ 200	1.00 500	5.00	20.0	50.0
Amyl acetate (mixed isomers)	DCBd4	Ave	+++++ 1218675	640 3122474	12088	85611	253188	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropylbenzene	CBNZd5	Ave	+++++ 2805356	10586 7265760	54361	238792	645946	+++++ 200	1.00 500	5.00	20.0	50.0
Bromobenzene	DCBd4	Ave	+++++ 784853	3000 2087035	14884	68068	179732	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,2,2-Tetrachloroethane	DCBd4	Ave	+++++ 896238	3602 2303812	14767	71833	196255	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trichloropropane	DCBd4	Ave	+++++ 675168	3034 1739553	13190	58558	152379	+++++ 200	1.00 500	5.00	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd4	Ave	+++++ 411870	1258 1081443	5807	30995	90196	+++++ 200	1.00 500	5.00	20.0	50.0
N-Propylbenzene	DCBd4	Ave	+++++ 3154283	11155 8043802	57938	266884	726753	+++++ 200	1.00 500	5.00	20.0	50.0
2-Chlorotoluene	DCBd4	Ave	+++++ 2164555	9336 5642629	47397	197801	506247	+++++ 200	1.00 500	5.00	20.0	50.0
4-Ethyltoluene	DCBd4	Ave	+++++ 2576875	10955 6673028	48051	223879	597274	+++++ 200	1.00 500	5.00	20.0	50.0
4-Chlorotoluene	DCBd4	Ave	+++++ 2306694	9437 5918795	47622	215760	580884	+++++ 200	1.00 500	5.00	20.0	50.0
1,3,5-Trimethylbenzene	DCBd4	Ave	+++++ 2023366	8142 5107339	38038	175638	476235	+++++ 200	1.00 500	5.00	20.0	50.0
Butyl Methacrylate	DCBd4	QuaF	+++++ 1015867	1574 2701957	11128	67266	200025	+++++ 200	1.00 500	5.00	20.0	50.0
tert-Butylbenzene	DCBd4	Ave	+++++ 1736524	6223 4450570	33562	142339	387150	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4-Trimethylbenzene	DCBd4	Ave	+++++ 2081658	8270 5143449	39444	168428	477259	+++++ 200	1.00 500	5.00	20.0	50.0
sec-Butylbenzene	DCBd4	Ave	+++++ 2458179	9019 6280536	44454	200737	550945	+++++ 200	1.00 500	5.00	20.0	50.0
1,3-Dichlorobenzene	DCBd4	Ave	+++++ 1384855	4998 3529450	25402	112946	315240	+++++ 200	1.00 500	5.00	20.0	50.0
1,4-Dichlorobenzene	DCBd4	Ave	+++++ 1457437	5775 3754719	29478	121498	333584	+++++ 200	1.00 500	5.00	20.0	50.0

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

Lab Name: Eurofins Edison | Job No.: 460-258307-1 | Analy Batch No.: 844084

SDG No.:

Instrument ID: CVOAMS12 | GC Column: DB-624 | ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 05/12/2022 04:01 | Calibration End Date: 05/12/2022 06:25 | Calibration ID: 90411

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
4-Isopropyltoluene	DCBd4	Ave	+++++ 1945582	6646 4995358	36995	163209	446606	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trimethylbenzene	DCBd4	Ave	+++++ 2182839	8777 5477970	42004	186518	505930	+++++ 200	1.00 500	5.00	20.0	50.0
Benzyl chloride	DCBd4	Qua	+++++ 390077	851 974258	5101	28646	84640	+++++ 200	1.00 500	5.00	20.0	50.0
Indan	DCBd4	Ave	+++++ 2640505	9670 6514115	50653	218725	606354	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichlorobenzene	DCBd4	Ave	+++++ 1382836	4596 3590122	26195	119732	323916	+++++ 200	1.00 500	5.00	20.0	50.0
p-Diethylbenzene	DCBd4	Ave	+++++ 963933	3298 2487214	18443	79348	221856	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butylbenzene	DCBd4	Ave	+++++ 912130	3278 2300387	16041	75466	214091	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	+++++ 168558	379 432471	2756	12214	37050	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4,5-Tetramethylbenzene	DCBd4	Ave	+++++ 1228590	3622 3179954	21433	93087	265461	+++++ 200	1.00 500	5.00	20.0	50.0
1,3,5-Trichlorobenzene	DCBd4	Ave	+++++ 626713	1977 1634888	11329	47809	137571	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4-Trichlorobenzene	DCBd4	Ave	+++++ 582522	1929 1567482	8717	42005	119850	+++++ 200	1.00 500	5.00	20.0	50.0
Hexachlorobutadiene	DCBd4	Ave	+++++ 259599	966 722080	4790	20275	58502	+++++ 200	1.00 500	5.00	20.0	50.0
Naphthalene	DCBd4	Ave	+++++ 1487536	6540 3816831	21873	101581	295417	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trichlorobenzene	DCBd4	Ave	+++++ 508834	1841 1368188	8542	37668	113920	+++++ 200	1.00 500	5.00	20.0	50.0
Dibromofluoromethane (Surr)	FB	Ave	134582 160580	128932 168589	124629	140618	143930	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	151807 168376	149172 170035	146048	156283	148437	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBNZd5	Ave	599474 689042	577689 717534	618008	639156	661470	50.0 50.0	50.0 50.0	50.0	50.0	50.0
4-Bromofluorobenzene	CBNZd5	Ave	147059 185698	143536 192397	146898	153767	165111	50.0 50.0	50.0 50.0	50.0	50.0	50.0

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

Lab Name: Eurofins Edison | Job No.: 460-258307-1 | Analy Batch No.: 844084

SDG No.:

Instrument ID: CVOAMS12 | GC Column: DB-624 | ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 05/12/2022 04:01 | Calibration End Date: 05/12/2022 06:25 | Calibration ID: 90411

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua = Quadratic ISTD
Qua2 = Quadratic 1/conc^2 ISTD
QuaF = Quadratic ISTD forced zero

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\O76597.d
Lims ID: STD7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 12-May-2022 04:01:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD7
Misc. Info.: 460-0145170-003
Operator ID: Instrument ID: CVOAMS12
Sublist: chrom-8260W_12*sub26

Method: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\8260W_12.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 13-May-2022 10:23:10 Calib Date: 12-May-2022 06:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\O76603.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: boykink Date: 12-May-2022 04:22:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Butadiene	54	1.073	1.073	0.000	98	1680	0.2500	0.2615	
* 31 TBA-d9 (IS)	65	2.055	2.055	0.000	100	207446	1000.0	1000.0	
33 Acrylonitrile	53	2.214	2.192	0.022	89	2098	2.00	2.23	
* 43 2-Butanone-d5	46	2.922	2.922	0.000	99	263322	250.0	250.0	
$ 53 Dibromofluoromethane (Surr)	113	3.356	3.356	0.000	96	134582	50.0	47.0	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	3.653	3.653	0.000	0	151807	50.0	48.6	
* 65 Fluorobenzene	96	3.984	3.984	0.000	99	654541	50.0	50.0	
* 72 1,4-Dioxane-d8	96	4.692	4.692	0.000	0	31954	1000.0	1000.0	
80 Epichlorohydrin	57	5.365	5.308	0.057	16	1506	5.00	5.14	M
$ 83 Toluene-d8 (Surr)	98	5.742	5.731	0.011	99	599474	50.0	47.1	
* 94 Chlorobenzene-d5	117	7.660	7.660	0.000	86	434861	50.0	50.0	
$ 105 4-Bromofluorobenzene	174	9.498	9.487	0.011	86	147059	50.0	46.0	
* 120 1,4-Dichlorobenzene-d4	152	11.337	11.336	0.000	96	218944	50.0	50.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8260SURR250_00226	Amount Added:	1.00	Units: uL	
MIX 2 Hi_00123	Amount Added:	0.00	Units: uL	
8260MIX1COMB_00153	Amount Added:	0.00	Units: uL	
ACROLEIN W_00139	Amount Added:	0.00	Units: uL	
GASES Li_00475	Amount Added:	2.50	Units: uL	
524freon_00051	Amount Added:	0.00	Units: uL	
GAS Hi_00414	Amount Added:	0.00	Units: uL	
ACRY/EPIH MIX_00100	Amount Added:	20.00	Units: uL	
Ethanol mix_00064	Amount Added:	0.00	Units: uL	
8FreonHi_00044	Amount Added:	0.00	Units: uL	
14DIOXINTER_00141	Amount Added:	0.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent

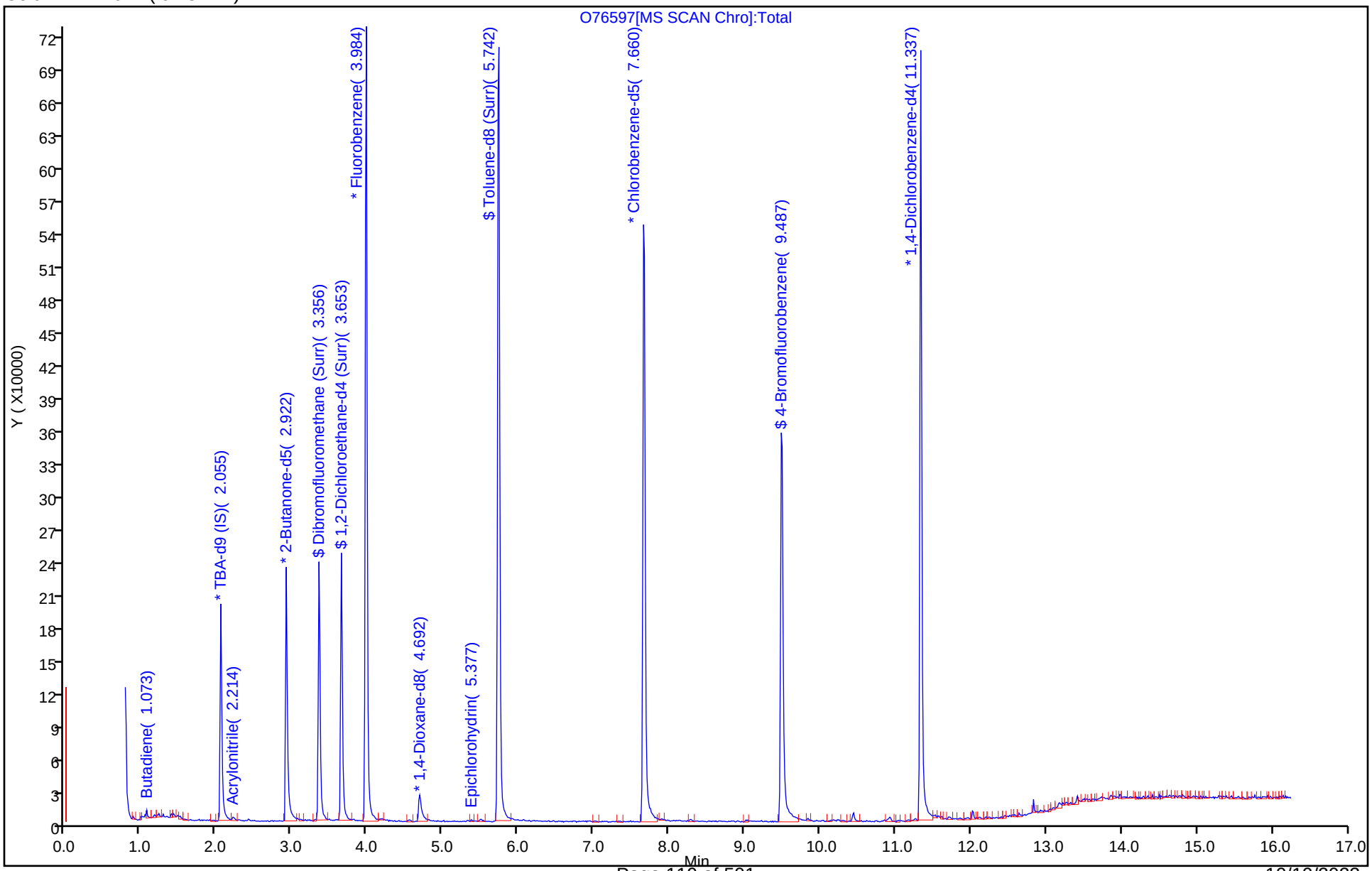
Report Date: 13-May-2022 10:23:11 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\O76597.d

Injection Date:	12-May-2022 04:01:30	Instrument ID:	CVOAMS12	Operator ID:	
Lims ID:	STD7			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260W_12	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



10/10/2023
12:43 PM

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\O76598.d
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 12-May-2022 04:25:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD1
Misc. Info.: 460-0145170-004
Operator ID: Instrument ID: CVOAMS12
Sublist: chrom-8260W_12*sub26

Method: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\8260W_12.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 13-May-2022 10:23:17 Calib Date: 12-May-2022 06:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\O76603.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: martineze Date: 12-May-2022 08:41:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116	0.879	0.879	0.000	36	636	1.00	0.8089	
3 Dichlorodifluoromethane	85	0.890	0.890	0.000	96	2880	1.00	0.8776	
5 Chlorodifluoromethane	67	0.902	0.901	0.001	94	594	1.00	1.19	
6 Chloromethane	50	1.004	1.004	0.000	99	4661	1.00	1.09	
7 Vinyl chloride	62	1.050	1.050	0.000	96	4320	1.00	1.02	
8 Butadiene	54	1.073	1.073	0.000	94	3478	1.00	0.8150	
9 Bromomethane	94	1.233	1.233	0.001	95	3657	1.00	1.23	M
10 Chloroethane	64	1.290	1.290	0.000	95	2604	1.00	1.04	
11 Dichlorofluoromethane	67	1.404	1.404	0.000	98	5622	1.00	1.03	
12 Trichlorofluoromethane	101	1.438	1.427	0.011	93	3580	1.00	0.8938	
13 Pentane	57	1.484	1.472	0.012	97	1093	2.00	1.86	
14 Ethanol	46	1.541	1.541	0.000	52	667	40.0	45.8	
15 Ethyl ether	59	1.598	1.598	0.000	90	2434	1.00	1.06	
16 1,2-Dichloro-1,1,2-trifluoroetha	117	1.609	1.598	0.011	87	2265	1.00	1.01	
17 2-Methyl-1,3-butadiene	53	1.621	1.609	0.012	96	2244	1.00	0.8960	
18 1,1,1-Trifluoro-2,2-dichloroetha	83	1.644	1.644	0.000	91	3454	1.00	0.9595	
19 Acrolein	56	1.678	1.678	0.000	41	491	4.06	4.05	
20 1,1-Dichloroethene	96	1.735	1.735	0.000	95	2678	1.00	1.03	
21 112TCTFE	101	1.746	1.735	0.011	78	1783	1.00	0.8123	
22 Acetone	58	1.781	1.769	0.012	91	1153	5.00	5.88	
23 Iodomethane	142	1.826	1.826	0.000	97	2973	1.00	0.8000	
24 Isopropyl alcohol	45	1.883	1.860	0.023	28	1519	10.0	11.9	
25 Carbon disulfide	76	1.872	1.872	0.000	98	10237	1.00	1.04	
26 Acetonitrile	38	1.963	1.952	0.011	81	952	10.0	11.1	
27 3-Chloro-1-propene	76	1.963	1.952	0.011	95	1782	1.00	0.9078	
28 Methyl acetate	43	1.986	1.975	0.011	88	1869	2.00	1.68	
29 Cyclopentene	67	2.009	2.009	0.000	96	8451	1.00	1.22	
30 Methylene Chloride	84	2.043	2.032	0.011	91	3413	1.00	1.03	
* 31 TBA-d9 (IS)	65	2.055	2.055	0.000	100	169305	1000.0	1000.0	
32 2-Methyl-2-propanol	59	2.112	2.112	0.000	96	2584	10.0	12.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Acrylonitrile	53	2.203	2.192	0.011	98	8518	10.0	9.89	
34 trans-1,2-Dichloroethene	96	2.226	2.214	0.012	67	2704	1.00	0.9401	
35 Methyl tert-butyl ether	73	2.226	2.226	0.000	99	9119	1.00	1.09	
36 Hexane	57	2.420	2.420	0.000	94	2254	1.00	0.8138	
37 1,1-Dichloroethane	63	2.511	2.511	0.000	97	5295	1.00	0.9792	
38 Vinyl acetate	86	2.580	2.557	0.023	99	872	2.00	1.51	
39 Isopropyl ether	45	2.580	2.580	0.000	85	10967	1.00	1.06	
40 2-Chloro-1,3-butadiene	88	2.591	2.580	0.011	85	3028	1.00	0.99	
41 Tert-butyl ethyl ether	59	2.854	2.854	0.000	91	9503	1.00	0.9749	
* 43 2-Butanone-d5	46	2.922	2.922	0.000	99	228482	250.0	250.0	
45 cis-1,2-Dichloroethene	96	2.957	2.956	0.001	95	3348	1.00	1.06	
44 2,2-Dichloropropane	97	2.957	2.956	0.001	76	959	1.00	0.9270	
46 2-Butanone (MEK)	72	2.991	2.968	0.023	95	1926	5.00	6.20	
42 Propionitrile	54	3.036	3.014	0.022	83	2056	10.0	10.3	
47 Ethyl acetate	70	3.048	3.036	0.012	98	662	2.00	2.23	
48 Methyl acrylate	55	3.082	3.059	0.023	98	2516	1.00	0.9648	
50 Methacrylonitrile	67	3.151	3.139	0.012	90	10196	10.0	9.57	
49 Chlorobromomethane	128	3.151	3.151	0.000	54	1442	1.00	0.9536	
51 Tetrahydrofuran	42	3.219	3.196	0.023	35	1143	2.00	1.90	
52 Chloroform	83	3.219	3.219	0.000	98	5178	1.00	1.05	
$ 53 Dibromofluoromethane (Surr)	113	3.356	3.356	0.000	96	128932	50.0	49.1	
54 1,1,1-Trichloroethane	97	3.379	3.379	0.000	91	3744	1.00	0.8839	
55 Cyclohexane	84	3.425	3.425	0.000	92	2991	1.00	0.8212	
56 Carbon tetrachloride	117	3.527	3.527	0.000	76	2976	1.00	0.8748	
57 1,1-Dichloropropene	75	3.527	3.527	0.000	92	4207	1.00	0.9757	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	3.653	3.653	0.000	0	149172	50.0	52.1	
61 Isobutyl alcohol	43	3.733	3.664	0.069	34	2043	25.0	20.0	
59 Benzene	78	3.710	3.710	0.000	94	13734	1.00	1.12	
60 1,2-Dichloroethane	62	3.733	3.721	0.012	54	3672	1.00	1.07	
62 Isooctane	57	3.813	3.813	0.000	83	4780	1.00	0.8137	
63 Isopropyl acetate	61	3.824	3.813	0.011	88	1156	1.00	1.01	
64 Tert-amyl methyl ether	73	3.836	3.836	0.000	93	8342	1.00	0.9265	
* 65 Fluorobenzene	96	3.984	3.984	0.000	99	600361	50.0	50.0	
66 n-Heptane	43	4.007	4.007	0.000	84	3252	1.00	1.25	
67 Trichloroethene	95	4.361	4.349	0.012	97	3480	1.00	1.11	
69 Ethyl acrylate	55	4.544	4.498	0.046	90	3880	1.00	1.02	
70 Methylcyclohexane	83	4.555	4.555	0.000	90	3092	1.00	0.9245	
71 1,2-Dichloropropane	63	4.578	4.578	0.000	93	3632	1.00	1.02	
* 72 1,4-Dioxane-d8	96	4.692	4.692	0.000	0	26412	1000.0	1000.0	
73 Dibromomethane	93	4.703	4.692	0.011	26	1714	1.00	1.04	
74 1,4-Dioxane	88	4.749	4.737	0.012	49	1527	50.0	51.0	
75 Methyl methacrylate	100	4.772	4.749	0.023	85	1018	2.00	1.43	
76 n-Propyl acetate	43	4.863	4.840	0.023	29	2776	1.00	0.8165	M
77 Dichlorobromomethane	83	4.897	4.886	0.011	97	3977	1.00	1.03	
78 2-Nitropropane	41	5.149	5.149	0.001	72	1486	2.00	2.55	M
79 2-Chloroethyl vinyl ether	63	5.308	5.274	0.034	67	885	1.00	1.04	
80 Epichlorohydrin	57	5.354	5.308	0.046	91	4135	20.0	16.3	
81 cis-1,3-Dichloropropene	75	5.423	5.411	0.012	88	4859	1.00	0.9656	
82 4-Methyl-2-pentanone (MIBK)	43	5.640	5.628	0.012	95	8458	5.00	3.92	
$ 83 Toluene-d8 (Surr)	98	5.742	5.731	0.011	99	577689	50.0	52.7	
84 Toluene	91	5.822	5.822	0.000	94	14299	1.00	1.14	
85 trans-1,3-Dichloropropene	75	6.153	6.119	0.034	93	3924	1.00	0.9127	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
86 Ethyl methacrylate	69	6.347	6.302	0.045	38	2240	1.00	0.7098	M
87 1,1,2-Trichloroethane	83	6.359	6.347	0.012	94	2113	1.00	1.01	
88 Tetrachloroethene	166	6.519	6.519	0.000	93	2602	1.00	1.11	
89 1,3-Dichloropropane	76	6.576	6.553	0.023	91	4043	1.00	0.9188	
90 2-Hexanone	43	6.850	6.735	0.115	58	2724	5.00	4.14	Ma
91 Chlorodibromomethane	129	6.861	6.850	0.011	96	2314	1.00	0.9363	
93 Ethylene Dibromide	107	6.998	6.975	0.023	99	2115	1.00	0.8913	
92 n-Butyl acetate	43	7.089	6.975	0.114	34	2336	1.00	0.5829	M
* 94 Chlorobenzene-d5	117	7.660	7.660	0.000	87	374366	50.0	50.0	
95 Chlorobenzene	112	7.706	7.706	0.000	95	7345	1.00	0.9695	
96 1,1,1,2-Tetrachloroethane	131	7.854	7.843	0.011	93	2410	1.00	0.9692	
97 Ethylbenzene	106	7.934	7.911	0.023	97	3907	1.00	1.00	
98 m-Xylene & p-Xylene	106	8.117	8.094	0.023	98	5203	1.00	1.04	
99 o-Xylene	106	8.688	8.688	0.000	94	4742	1.00	0.9851	
100 Styrene	104	8.756	8.711	0.045	96	6347	1.00	0.8002	
101 n-Butyl acrylate	73	8.871	8.768	0.102	61	435	1.00	0.1992	
102 Bromoform	173	8.950	8.927	0.023	92	1351	1.00	0.9084	
103 Amyl acetate (mixed isomers)	43	9.259	9.167	0.092	27	640	1.00	0.1961	Ma
104 Isopropylbenzene	105	9.293	9.293	0.000	95	10586	1.00	1.00	
$ 105 4-Bromofluorobenzene	174	9.487	9.487	0.000	86	143536	50.0	52.2	
106 Bromobenzene	156	9.693	9.681	0.012	94	3000	1.00	1.03	
107 1,1,2,2-Tetrachloroethane	83	9.807	9.795	0.012	96	3602	1.00	1.13	
108 1,2,3-Trichloropropane	75	9.830	9.807	0.023	94	3034	1.00	1.18	
109 trans-1,4-Dichloro-2-butene	75	9.955	9.898	0.057	38	1258	1.00	0.9238	
110 N-Propylbenzene	91	9.967	9.955	0.012	98	11155	1.00	0.9824	
111 2-Chlorotoluene	91	10.046	10.024	0.022	96	9336	1.00	1.10	
112 4-Ethyltoluene	105	10.172	10.161	0.011	98	10955	1.00	1.13	
113 4-Chlorotoluene	91	10.252	10.218	0.034	97	9437	1.00	1.05	
114 1,3,5-Trimethylbenzene	105	10.286	10.275	0.011	93	8142	1.00	1.08	
115 Butyl Methacrylate	87	10.594	10.560	0.034	86	1574	1.00	0.4517	
116 tert-Butylbenzene	119	10.789	10.788	0.001	95	6223	1.00	1.00	
117 1,2,4-Trimethylbenzene	105	10.891	10.880	0.011	96	8270	1.00	1.09	
118 sec-Butylbenzene	105	11.165	11.154	0.011	99	9019	1.00	1.03	
119 1,3-Dichlorobenzene	146	11.245	11.234	0.011	89	4998	1.00	1.01	
* 120 1,4-Dichlorobenzene-d4	152	11.337	11.336	0.001	95	194056	50.0	50.0	
121 1,4-Dichlorobenzene	146	11.371	11.359	0.012	77	5775	1.00	1.07	
122 4-Isopropyltoluene	119	11.382	11.382	0.000	94	6646	1.00	0.9505	
123 1,2,3-Trimethylbenzene	105	11.474	11.462	0.012	98	8777	1.00	1.08	
124 Benzyl chloride	126	11.576	11.553	0.023	97	851	1.00	1.01	
125 2,3-Dihydroindene	117	11.668	11.668	0.000	93	9670	1.00	1.01	
126 1,2-Dichlorobenzene	146	11.782	11.770	0.012	95	4596	1.00	0.9187	
127 p-Diethylbenzene	119	11.827	11.816	0.011	91	3298	1.00	0.9529	
128 n-Butylbenzene	92	11.850	11.839	0.011	97	3278	1.00	1.00	
129 1,2-Dibromo-3-Chloropropane	157	12.478	12.455	0.023	37	379	1.00	0.7018	
130 1,2,4,5-Tetramethylbenzene	119	12.478	12.467	0.011	95	3622	1.00	0.8742	
131 1,3,5-Trichlorobenzene	180	12.627	12.615	0.012	94	1977	1.00	0.9161	
132 1,2,4-Trichlorobenzene	180	13.038	13.015	0.023	91	1929	1.00	1.00	
133 Hexachlorobutadiene	225	13.140	13.140	0.000	91	966	1.00	1.03	
134 Naphthalene	128	13.175	13.152	0.023	99	6540	1.00	1.29	
135 1,2,3-Trichlorobenzene	180	13.312	13.300	0.012	95	1841	1.00	1.03	
S 137 1,2-Dichloroethene, Total	100				0		2.00	2.00	
S 138 Xylenes, Total	100				0		2.00	2.03	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 139 Total BTEX	1				0		5.00	5.28	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

8260SURR250_00226	Amount Added:	1.00	Units: uL	
8260MIX1COMB_00153	Amount Added:	10.00	Units: uL	
ACROLEIN W_00139	Amount Added:	4.00	Units: uL	
GASES Li_00475	Amount Added:	10.00	Units: uL	
524freon_00051	Amount Added:	10.00	Units: uL	
14DIOXINTER_00141	Amount Added:	30.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 13-May-2022 10:23:17 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\O76598.d

Injection Date: 12-May-2022 04:25:30 Instrument ID: CVOAMS12 Operator ID:

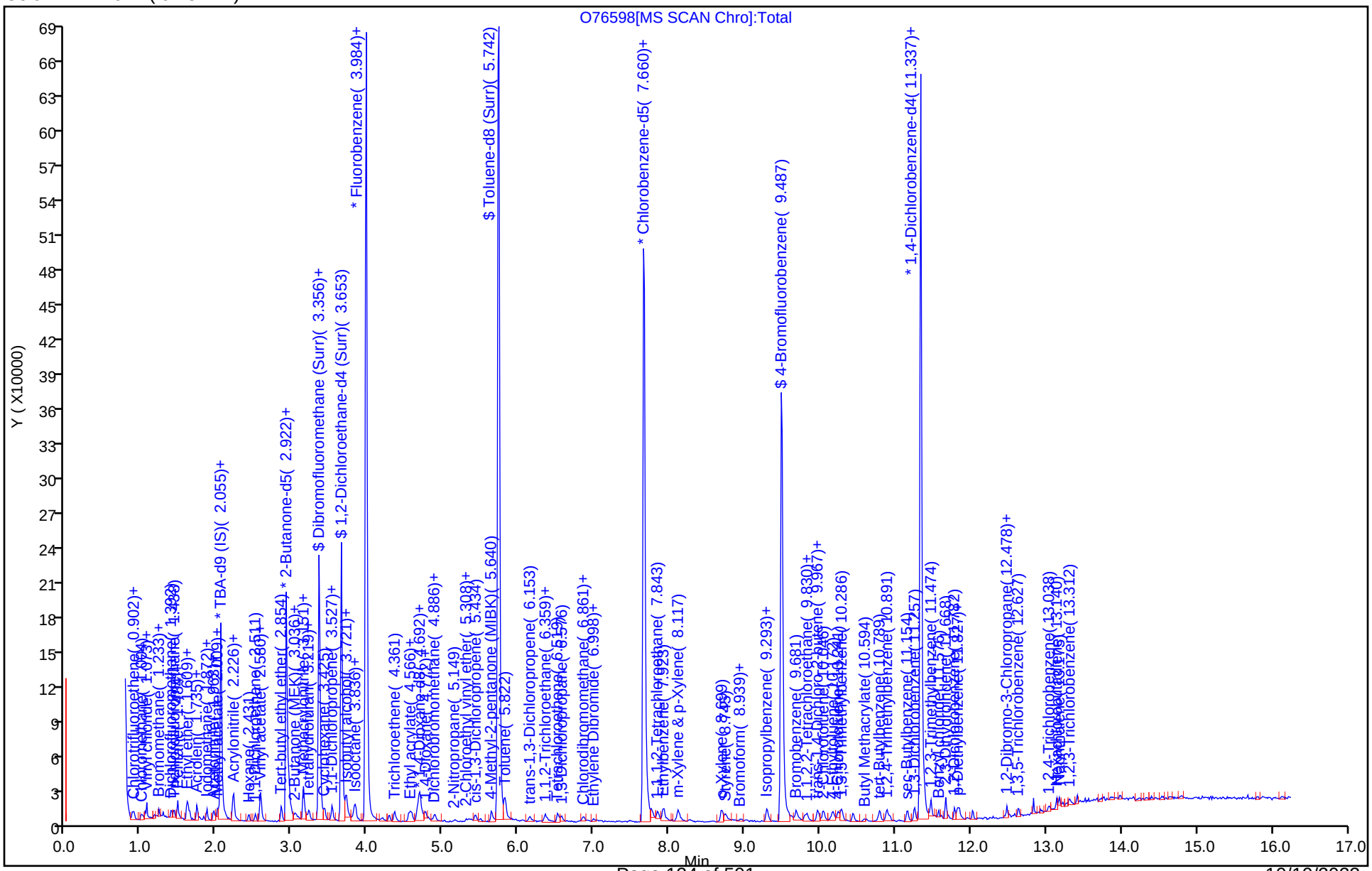
Lims ID: STD1 Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: 8260W_12 Limit Group: VOA - 8260D Water and Solid

Column: DB-624 (0.18 mm)



Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\O76599.d
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 12-May-2022 04:49:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD5
Misc. Info.: 460-0145170-005
Operator ID: Instrument ID: CVOAMS12
Sublist: chrom-8260W_12*sub26

Method: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\8260W_12.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 13-May-2022 10:23:22 Calib Date: 12-May-2022 06:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\O76603.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: martineze Date: 12-May-2022 08:22:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116	0.879	0.879	0.000	89	4460	5.00	5.12	
3 Dichlorodifluoromethane	85	0.890	0.890	0.000	99	16817	5.00	4.88	
5 Chlorodifluoromethane	67	0.901	0.901	0.000	97	2519	5.00	4.80	
6 Chloromethane	50	0.993	1.004	-0.011	99	23083	5.00	5.12	
7 Vinyl chloride	62	1.050	1.050	0.000	96	22745	5.00	5.14	
8 Butadiene	54	1.073	1.073	0.000	94	18807	5.00	4.94	
9 Bromomethane	94	1.233	1.233	0.001	97	15616	5.00	5.02	
10 Chloroethane	64	1.290	1.290	0.000	97	13518	5.00	5.17	
11 Dichlorofluoromethane	67	1.404	1.404	0.000	98	28400	5.00	4.94	
12 Trichlorofluoromethane	101	1.427	1.427	0.000	98	20770	5.00	4.94	
13 Pentane	57	1.484	1.472	0.012	96	6600	10.0	10.7	
14 Ethanol	46	1.541	1.541	0.000	91	2700	200.0	178.8	
15 Ethyl ether	59	1.598	1.598	0.000	93	11023	5.00	4.59	
16 1,2-Dichloro-1,1,2-trifluoroetha	117	1.609	1.598	0.011	93	10496	5.00	4.47	
17 2-Methyl-1,3-butadiene	53	1.609	1.609	0.000	94	14311	5.00	5.45	
18 1,1,1-Trifluoro-2,2-dichloroetha	83	1.644	1.644	0.000	95	19081	5.00	5.05	
19 Acrolein	56	1.678	1.678	0.000	94	4136	20.3	19.3	
20 1,1-Dichloroethene	96	1.735	1.735	0.000	96	13355	5.00	4.90	
21 112TCTFE	101	1.735	1.735	0.000	90	12127	5.00	5.26	
22 Acetone	58	1.769	1.769	0.000	89	4845	25.0	22.3	
23 Iodomethane	142	1.826	1.826	0.000	97	18404	5.00	4.72	
24 Isopropyl alcohol	45	1.860	1.860	0.000	29	5104	50.0	38.6	
25 Carbon disulfide	76	1.872	1.872	0.000	98	51763	5.00	5.01	
26 Acetonitrile	38	1.952	1.952	0.000	82	3834	50.0	43.1	
27 3-Chloro-1-propene	76	1.963	1.952	0.011	95	9996	5.00	4.85	
28 Methyl acetate	43	1.975	1.975	0.000	98	9337	10.0	8.10	
29 Cyclopentene	67	2.009	2.009	0.000	94	35569	5.00	4.88	
30 Methylene Chloride	84	2.032	2.032	0.000	96	17686	5.00	5.09	
* 31 TBA-d9 (IS)	65	2.055	2.055	0.000	100	175763	1000.0	1000.0	
32 2-Methyl-2-propanol	59	2.112	2.112	0.000	98	9760	50.0	46.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Acrylonitrile	53	2.203	2.192	0.011	92	38648	50.0	42.8	
34 trans-1,2-Dichloroethene	96	2.226	2.214	0.012	67	14710	5.00	4.87	
35 Methyl tert-butyl ether	73	2.226	2.226	0.000	97	43975	5.00	4.99	
36 Hexane	57	2.420	2.420	0.000	90	16095	5.00	5.54	
37 1,1-Dichloroethane	63	2.511	2.511	0.000	99	26564	5.00	4.68	
38 Vinyl acetate	86	2.568	2.557	0.011	100	5222	10.0	8.16	
39 Isopropyl ether	45	2.580	2.580	0.000	95	53894	5.00	4.95	
40 2-Chloro-1,3-butadiene	88	2.580	2.580	0.000	89	15110	5.00	4.73	
41 Tert-butyl ethyl ether	59	2.854	2.854	0.000	88	49362	5.00	4.83	
* 43 2-Butanone-d5	46	2.922	2.922	0.000	98	252949	250.0	250.0	
45 cis-1,2-Dichloroethene	96	2.957	2.956	0.000	90	13874	5.00	4.18	
44 2,2-Dichloropropane	97	2.957	2.956	0.000	83	5259	5.00	4.84	
46 2-Butanone (MEK)	72	2.979	2.968	0.011	97	7277	25.0	21.2	
42 Propionitrile	54	3.025	3.014	0.011	95	13413	50.0	42.1	
47 Ethyl acetate	70	3.036	3.036	0.000	99	3085	10.0	9.38	
48 Methyl acrylate	55	3.071	3.059	0.012	99	12052	5.00	4.40	
50 Methacrylonitrile	67	3.139	3.139	0.000	90	50382	50.0	45.1	
49 Chlorobromomethane	128	3.151	3.151	0.000	95	7150	5.00	4.51	
51 Tetrahydrofuran	42	3.196	3.196	0.000	43	5649	10.0	8.46	
52 Chloroform	83	3.219	3.219	0.000	98	24207	5.00	4.69	
$ 53 Dibromofluoromethane (Surr)	113	3.356	3.356	0.000	96	124629	50.0	45.2	
54 1,1,1-Trichloroethane	97	3.379	3.379	0.000	99	22484	5.00	5.06	
55 Cyclohexane	84	3.425	3.425	0.000	87	20024	5.00	5.24	
56 Carbon tetrachloride	117	3.527	3.527	0.000	83	17902	5.00	5.01	
57 1,1-Dichloropropene	75	3.527	3.527	0.000	97	22173	5.00	4.90	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	3.653	3.653	0.000	0	146048	50.0	48.6	
61 Isobutyl alcohol	43	3.687	3.664	0.023	92	13216	125.0	124.4	
59 Benzene	78	3.710	3.710	0.000	95	67812	5.00	4.75	
60 1,2-Dichloroethane	62	3.721	3.721	0.000	96	17586	5.00	4.87	
62 Isooctane	57	3.813	3.813	0.000	95	31558	5.00	5.12	
63 Isopropyl acetate	61	3.824	3.813	0.011	96	5290	5.00	4.42	
64 Tert-amyl methyl ether	73	3.836	3.836	0.000	97	47394	5.00	5.02	
* 65 Fluorobenzene	96	3.984	3.984	0.000	99	630012	50.0	50.0	
66 n-Heptane	43	4.007	4.007	0.000	92	14551	5.00	5.34	
67 Trichloroethene	95	4.349	4.349	0.000	97	15897	5.00	4.81	
68 n-Butanol	56	4.475	4.349	0.126	61	1259	125.0	22.1	Ma
69 Ethyl acrylate	55	4.532	4.498	0.034	94	10911	5.00	2.72	M
70 Methylcyclohexane	83	4.555	4.555	0.000	95	17560	5.00	5.00	
71 1,2-Dichloropropane	63	4.578	4.578	0.000	92	17990	5.00	4.82	
* 72 1,4-Dioxane-d8	96	4.692	4.692	0.000	0	32202	1000.0	1000.0	
73 Dibromomethane	93	4.703	4.692	0.011	93	7477	5.00	4.33	
74 1,4-Dioxane	88	4.749	4.737	0.012	31	3033	100.0	83.2	
75 Methyl methacrylate	100	4.760	4.749	0.011	89	6523	10.0	8.71	
76 n-Propyl acetate	43	4.852	4.840	0.012	98	13616	5.00	3.82	
77 Dichlorobromomethane	83	4.886	4.886	0.000	99	17768	5.00	4.37	
78 2-Nitropropane	41	5.149	5.149	0.001	95	4626	10.0	7.56	
79 2-Chloroethyl vinyl ether	63	5.286	5.274	0.012	92	7238	5.01	3.87	
80 Epichlorohydrin	57	5.331	5.308	0.023	99	20572	100.0	73.0	
81 cis-1,3-Dichloropropene	75	5.423	5.411	0.012	89	25934	5.00	4.44	
82 4-Methyl-2-pentanone (MIBK)	43	5.639	5.628	0.011	95	47100	25.0	19.7	
$ 83 Toluene-d8 (Surr)	98	5.742	5.731	0.011	98	618008	50.0	48.6	
84 Toluene	91	5.822	5.822	0.000	92	69046	5.00	4.75	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 trans-1,3-Dichloropropene	75	6.130	6.119	0.011	96	20840	5.00	4.18	
86 Ethyl methacrylate	69	6.325	6.302	0.022	87	14560	5.00	3.98	
87 1,1,2-Trichloroethane	83	6.347	6.347	0.000	95	11049	5.00	4.54	
88 Tetrachloroethene	166	6.519	6.519	0.000	94	11860	5.00	4.36	
89 1,3-Dichloropropane	76	6.564	6.553	0.011	92	22830	5.00	4.47	
90 2-Hexanone	43	6.758	6.735	0.023	92	23988	25.0	15.3	M
91 Chlorodibromomethane	129	6.861	6.850	0.011	97	11298	5.00	3.94	
93 Ethylene Dibromide	107	6.987	6.975	0.012	98	11839	5.00	4.30	
92 n-Butyl acetate	43	6.998	6.975	0.023	85	13119	5.00	2.82	
* 94 Chlorobenzene-d5	117	7.660	7.660	0.000	86	434151	50.0	50.0	
95 Chlorobenzene	112	7.706	7.706	0.000	94	40983	5.00	4.66	
96 1,1,1,2-Tetrachloroethane	131	7.843	7.843	0.000	95	12368	5.00	4.29	
97 Ethylbenzene	106	7.911	7.911	0.000	98	19964	5.00	4.40	
98 m-Xylene & p-Xylene	106	8.106	8.094	0.012	99	26302	5.00	4.55	
99 o-Xylene	106	8.688	8.688	0.000	94	24592	5.00	4.41	
100 Styrene	104	8.722	8.711	0.011	98	37296	5.00	4.05	
101 n-Butyl acrylate	73	8.802	8.768	0.034	98	5596	5.00	2.21	
102 Bromoform	173	8.939	8.927	0.012	95	6107	5.00	3.54	
103 Amyl acetate (mixed isomers)	43	9.190	9.167	0.023	93	12088	5.00	3.20	
104 Isopropylbenzene	105	9.293	9.293	0.000	95	54361	5.00	4.44	
$ 105 4-Bromofluorobenzene	174	9.487	9.487	0.000	86	146898	50.0	46.1	
106 Bromobenzene	156	9.681	9.681	0.000	98	14884	5.00	4.42	
107 1,1,2,2-Tetrachloroethane	83	9.795	9.795	0.000	98	14767	5.00	4.00	
108 1,2,3-Trichloropropane	75	9.818	9.807	0.011	97	13190	5.00	4.44	
109 trans-1,4-Dichloro-2-butene	75	9.909	9.898	0.011	78	5807	5.00	3.68	
110 N-Propylbenzene	91	9.966	9.955	0.011	99	57938	5.00	4.41	
111 2-Chlorotoluene	91	10.035	10.024	0.011	96	47397	5.00	4.84	
112 4-Ethyltoluene	105	10.161	10.161	0.000	98	48051	5.00	4.29	
113 4-Chlorotoluene	91	10.229	10.218	0.011	97	47622	5.00	4.58	
114 1,3,5-Trimethylbenzene	105	10.286	10.275	0.011	93	38038	5.00	4.37	
115 Butyl Methacrylate	87	10.572	10.560	0.012	86	11128	5.00	2.76	
116 tert-Butylbenzene	119	10.789	10.788	0.000	95	33562	5.00	4.64	
117 1,2,4-Trimethylbenzene	105	10.880	10.880	0.000	97	39444	5.00	4.50	
118 sec-Butylbenzene	105	11.154	11.154	0.000	99	44454	5.00	4.37	
119 1,3-Dichlorobenzene	146	11.245	11.234	0.011	95	25402	5.00	4.43	
* 120 1,4-Dichlorobenzene-d4	152	11.337	11.336	0.001	96	224681	50.0	50.0	
121 1,4-Dichlorobenzene	146	11.371	11.359	0.012	92	29478	5.00	4.70	
122 4-Isopropyltoluene	119	11.382	11.382	0.000	97	36995	5.00	4.57	
123 1,2,3-Trimethylbenzene	105	11.474	11.462	0.012	98	42004	5.00	4.48	
124 Benzyl chloride	126	11.565	11.553	0.012	98	5101	5.00	3.52	
125 2,3-Dihydroindene	117	11.668	11.668	0.000	94	50653	5.00	4.59	
126 1,2-Dichlorobenzene	146	11.782	11.770	0.012	96	26195	5.00	4.52	
127 p-Diethylbenzene	119	11.816	11.816	0.000	93	18443	5.00	4.60	
128 n-Butylbenzene	92	11.839	11.839	0.000	97	16041	5.00	4.24	
129 1,2-Dibromo-3-Chloropropane	157	12.467	12.455	0.012	95	2756	5.00	4.41	
130 1,2,4,5-Tetramethylbenzene	119	12.478	12.467	0.011	97	21433	5.00	4.47	
131 1,3,5-Trichlorobenzene	180	12.627	12.615	0.012	97	11329	5.00	4.53	
132 1,2,4-Trichlorobenzene	180	13.026	13.015	0.011	94	8717	5.00	3.89	
133 Hexachlorobutadiene	225	13.140	13.140	0.000	96	4790	5.00	4.40	
134 Naphthalene	128	13.163	13.152	0.011	99	21873	5.00	3.71	
135 1,2,3-Trichlorobenzene	180	13.300	13.300	0.000	94	8542	5.00	4.15	
S 137 1,2-Dichloroethene, Total	100				0		10.0	9.05	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 138 Xylenes, Total	100				0		10.0	8.96	
S 139 Total BTEX	1				0		25.0	22.9	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260SURR250_00226	Amount Added:	1.00	Units: uL	
8260MIX1COMB_00153	Amount Added:	10.00	Units: uL	
ACROLEIN W_00139	Amount Added:	4.00	Units: uL	
GASES Li_00475	Amount Added:	10.00	Units: uL	
524freon_00051	Amount Added:	10.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 13-May-2022 10:23:23 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\O76599.d

Injection Date: 12-May-2022 04:49:30 Instrument ID: CVOAMS12 Operator ID:

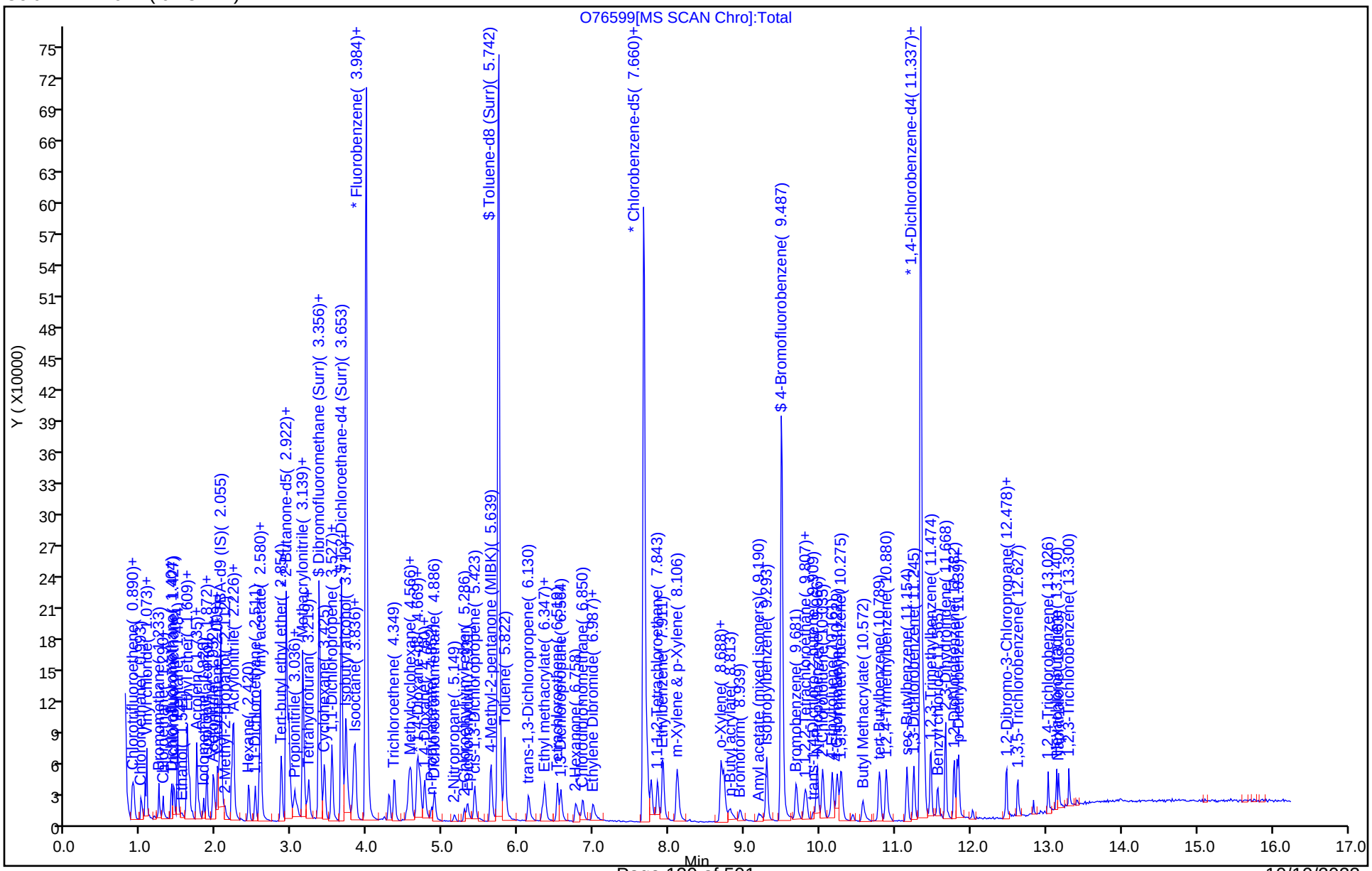
Lims ID: STD5 Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: 8260W_12 Limit Group: VOA - 8260D Water and Solid

Column: DB-624 (0.18 mm)



10/10/2023
12:43 PM

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\O76600.d
Lims ID: STD20
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 12-May-2022 05:13:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD20
Misc. Info.: 460-0145170-006
Operator ID: Instrument ID: CVOAMS12
Sublist: chrom-8260W_12*sub26

Method: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\8260W_12.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 13-May-2022 10:23:29 Calib Date: 12-May-2022 06:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\O76603.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: martineze Date: 12-May-2022 08:06:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116	0.879	0.879	0.000	86	17323	20.0	21.1	
3 Dichlorodifluoromethane	85	0.890	0.890	0.000	99	68384	20.0	19.5	
5 Chlorodifluoromethane	67	0.902	0.902	0.000	97	10978	20.0	20.5	
6 Chloromethane	50	1.004	1.004	0.000	99	90382	20.0	19.7	
7 Vinyl chloride	62	1.050	1.050	0.000	97	93006	20.0	20.6	
8 Butadiene	54	1.073	1.073	0.000	95	78334	20.0	20.7	
9 Bromomethane	94	1.233	1.233	0.000	99	59837	20.0	18.8	
10 Chloroethane	64	1.290	1.290	0.000	98	53795	20.0	20.1	
11 Dichlorofluoromethane	67	1.404	1.404	0.000	99	122066	20.0	20.8	
12 Trichlorofluoromethane	101	1.427	1.427	0.000	98	89506	20.0	20.9	
13 Pentane	57	1.484	1.484	0.000	97	26290	40.0	41.9	
14 Ethanol	46	1.541	1.541	0.000	93	13249	800.0	887.5	
15 Ethyl ether	59	1.598	1.598	0.000	96	51713	20.0	21.1	
16 1,2-Dichloro-1,1,2-trifluoroetha	117	1.598	1.598	0.000	88	47790	20.0	19.9	
17 2-Methyl-1,3-butadiene	53	1.609	1.609	0.000	94	56654	20.0	21.1	
18 1,1,1-Trifluoro-2,2-dichloroetha	83	1.644	1.644	0.000	97	77146	20.0	20.0	
19 Acrolein	56	1.678	1.678	0.000	94	10030	40.6	44.6	
20 1,1-Dichloroethene	96	1.735	1.735	0.000	98	56511	20.0	20.3	
21 112TCTFE	101	1.735	1.735	0.000	94	50365	20.0	21.4	
22 Acetone	58	1.758	1.758	0.000	89	21770	100.0	106.4	
23 Iodomethane	142	1.826	1.826	0.000	97	84524	20.0	21.2	
24 Isopropyl alcohol	45	1.861	1.861	0.000	98	29058	200.0	222.3	
25 Carbon disulfide	76	1.872	1.872	0.000	99	215939	20.0	20.5	
26 Acetonitrile	38	1.952	1.952	0.000	87	18878	200.0	214.8	
27 3-Chloro-1-propene	76	1.952	1.952	0.000	97	44916	20.0	21.4	
28 Methyl acetate	43	1.975	1.975	0.000	99	48982	40.0	43.0	
29 Cyclopentene	67	2.009	2.009	0.000	96	145823	20.0	19.6	
30 Methylene Chloride	84	2.032	2.032	0.000	92	74156	20.0	20.9	
* 31 TBA-d9 (IS)	65	2.055	2.055	0.000	100	173714	1000.0	1000.0	
32 2-Methyl-2-propanol	59	2.112	2.112	0.000	99	43403	200.0	209.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Acrylonitrile	53	2.192	2.192	0.000	95	186217	200.0	201.9	
34 trans-1,2-Dichloroethene	96	2.215	2.215	0.000	94	63332	20.0	20.6	
35 Methyl tert-butyl ether	73	2.226	2.226	0.000	98	190551	20.0	21.2	
36 Hexane	57	2.420	2.420	0.000	94	61244	20.0	20.6	
37 1,1-Dichloroethane	63	2.511	2.511	0.000	99	116121	20.0	20.1	
38 Vinyl acetate	86	2.557	2.557	0.000	100	27988	40.0	46.4	
39 Isopropyl ether	45	2.580	2.580	0.000	88	239238	20.0	21.5	
40 2-Chloro-1,3-butadiene	88	2.580	2.580	0.000	87	67489	20.0	20.7	
41 Tert-butyl ethyl ether	59	2.854	2.854	0.000	90	220423	20.0	21.1	
* 43 2-Butanone-d5	46	2.922	2.922	0.000	99	238320	250.0	250.0	
45 cis-1,2-Dichloroethene	96	2.957	2.957	0.000	92	67840	20.0	20.0	
44 2,2-Dichloropropane	97	2.957	2.957	0.000	78	22650	20.0	20.4	
46 2-Butanone (MEK)	72	2.968	2.968	0.000	99	34769	100.0	107.3	
42 Propionitrile	54	3.014	3.014	0.000	97	71604	200.0	209.5	
47 Ethyl acetate	70	3.037	3.037	0.000	100	13372	40.0	43.2	
48 Methyl acrylate	55	3.059	3.059	0.000	99	60121	20.0	21.5	
50 Methacrylonitrile	67	3.139	3.139	0.000	90	243189	200.0	213.2	
49 Chlorobromomethane	128	3.151	3.151	0.000	95	33511	20.0	20.7	
51 Tetrahydrofuran	42	3.196	3.196	0.000	83	26720	40.0	42.5	
52 Chloroform	83	3.219	3.219	0.000	99	107828	20.0	20.5	
$ 53 Dibromofluoromethane (Surr)	113	3.356	3.356	0.000	97	140618	50.0	50.0	
54 1,1,1-Trichloroethane	97	3.379	3.379	0.000	98	92951	20.0	20.5	
55 Cyclohexane	84	3.425	3.425	0.000	90	80432	20.0	20.6	
56 Carbon tetrachloride	117	3.527	3.527	0.000	81	75722	20.0	20.8	
57 1,1-Dichloropropene	75	3.527	3.527	0.000	97	96088	20.0	20.8	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	3.653	3.653	0.000	0	156283	50.0	51.0	
61 Isobutyl alcohol	43	3.664	3.664	0.000	94	52151	500.0	496.7	a
59 Benzene	78	3.710	3.710	0.000	96	296402	20.0	22.3	
60 1,2-Dichloroethane	62	3.722	3.722	0.000	96	78043	20.0	21.2	
62 Isooctane	57	3.813	3.813	0.000	96	132089	20.0	21.0	
63 Isopropyl acetate	61	3.813	3.813	0.000	96	26482	20.0	21.7	
64 Tert-amyl methyl ether	73	3.836	3.836	0.000	99	204778	20.0	21.2	
* 65 Fluorobenzene	96	3.984	3.984	0.000	99	643012	50.0	50.0	
66 n-Heptane	43	4.007	4.007	0.000	90	51298	20.0	18.4	
67 Trichloroethene	95	4.349	4.349	0.000	99	67503	20.0	20.0	
68 n-Butanol	56	4.372	4.372	0.000	92	26042	500.0	461.5	
69 Ethyl acrylate	55	4.509	4.509	0.000	98	72944	20.0	17.8	
70 Methylcyclohexane	83	4.555	4.555	0.000	92	71251	20.0	19.9	
71 1,2-Dichloropropane	63	4.578	4.578	0.000	95	78045	20.0	20.5	
* 72 1,4-Dioxane-d8	96	4.681	4.681	0.000	0	31230	1000.0	1000.0	
73 Dibromomethane	93	4.692	4.692	0.000	96	36532	20.0	20.8	
74 1,4-Dioxane	88	4.738	4.738	0.000	92	16011	400.0	452.6	
75 Methyl methacrylate	100	4.749	4.749	0.000	90	33749	40.0	44.1	
76 n-Propyl acetate	43	4.840	4.840	0.000	98	77313	20.0	21.2	
77 Dichlorobromomethane	83	4.886	4.886	0.000	100	84456	20.0	20.3	
78 2-Nitropropane	41	5.149	5.149	0.000	97	23674	40.0	37.9	
79 2-Chloroethyl vinyl ether	63	5.274	5.274	0.000	95	41382	20.0	18.8	
80 Epichlorohydrin	57	5.320	5.320	0.000	98	117449	400.0	442.6	
81 cis-1,3-Dichloropropene	75	5.411	5.411	0.000	90	122301	20.0	22.5	
82 4-Methyl-2-pentanone (MIBK)	43	5.628	5.628	0.000	95	259625	100.0	115.5	
$ 83 Toluene-d8 (Surr)	98	5.742	5.742	0.000	99	639156	50.0	53.9	
84 Toluene	91	5.822	5.822	0.000	93	291386	20.0	21.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 trans-1,3-Dichloropropene	75	6.131	6.131	0.000	95	105551	20.0	22.7	
86 Ethyl methacrylate	69	6.313	6.313	0.000	89	77848	20.0	22.8	a
87 1,1,2-Trichloroethane	83	6.347	6.347	0.000	96	49079	20.0	21.6	
88 Tetrachloroethene	166	6.519	6.519	0.000	94	52697	20.0	20.8	
89 1,3-Dichloropropane	76	6.564	6.564	0.000	91	106244	20.0	22.3	
90 2-Hexanone	43	6.736	6.736	0.000	94	157086	100.0	91.9	
91 Chlorodibromomethane	129	6.850	6.850	0.000	98	57465	20.0	21.5	
93 Ethylene Dibromide	107	6.975	6.975	0.000	97	56359	20.0	22.0	
92 n-Butyl acetate	43	6.975	6.975	0.000	98	79693	20.0	18.5	
* 94 Chlorobenzene-d5	117	7.660	7.660	0.000	86	404783	50.0	50.0	
95 Chlorobenzene	112	7.706	7.706	0.000	95	173975	20.0	21.2	
96 1,1,1,2-Tetrachloroethane	131	7.843	7.843	0.000	97	57485	20.0	21.4	
97 Ethylbenzene	106	7.912	7.912	0.000	98	90341	20.0	21.3	
98 m-Xylene & p-Xylene	106	8.106	8.106	0.000	100	112777	20.0	20.9	
99 o-Xylene	106	8.688	8.688	0.000	93	108185	20.0	20.8	
100 Styrene	104	8.711	8.711	0.000	95	185799	20.0	21.7	
101 n-Butyl acrylate	73	8.779	8.779	0.000	98	40102	20.0	17.0	
102 Bromoform	173	8.939	8.939	0.000	95	32281	20.0	20.1	
103 Amyl acetate (mixed isomers)	43	9.167	9.167	0.000	92	85611	20.0	24.9	
104 Isopropylbenzene	105	9.293	9.293	0.000	95	238792	20.0	20.9	
$ 105 4-Bromofluorobenzene	174	9.487	9.487	0.000	86	153767	50.0	51.7	
106 Bromobenzene	156	9.681	9.681	0.000	98	68068	20.0	22.2	
107 1,1,2,2-Tetrachloroethane	83	9.795	9.795	0.000	98	71833	20.0	21.4	
108 1,2,3-Trichloropropane	75	9.818	9.818	0.000	99	58558	20.0	21.7	
109 trans-1,4-Dichloro-2-butene	75	9.898	9.898	0.000	91	30995	20.0	21.6	
110 N-Propylbenzene	91	9.955	9.955	0.000	99	266884	20.0	22.3	
111 2-Chlorotoluene	91	10.035	10.035	0.000	97	197801	20.0	22.2	
112 4-Ethyltoluene	105	10.161	10.161	0.000	99	223879	20.0	21.9	
113 4-Chlorotoluene	91	10.218	10.218	0.000	97	215760	20.0	22.8	
114 1,3,5-Trimethylbenzene	105	10.275	10.275	0.000	93	175638	20.0	22.2	
115 Butyl Methacrylate	87	10.560	10.560	0.000	90	67266	20.0	18.3	
116 tert-Butylbenzene	119	10.789	10.789	0.000	94	142339	20.0	21.6	
117 1,2,4-Trimethylbenzene	105	10.880	10.880	0.000	97	168428	20.0	21.1	
118 sec-Butylbenzene	105	11.154	11.154	0.000	100	200737	20.0	21.7	
119 1,3-Dichlorobenzene	146	11.234	11.234	0.000	96	112946	20.0	21.6	
* 120 1,4-Dichlorobenzene-d4	152	11.337	11.337	0.000	96	204416	50.0	50.0	
121 1,4-Dichlorobenzene	146	11.371	11.371	0.000	94	121498	20.0	21.3	
122 4-Isopropyltoluene	119	11.382	11.382	0.000	98	163209	20.0	22.2	
123 1,2,3-Trimethylbenzene	105	11.462	11.462	0.000	99	186518	20.0	21.9	
124 Benzyl chloride	126	11.554	11.554	0.000	99	28646	20.0	19.7	
125 2,3-Dihydroindene	117	11.668	11.668	0.000	94	218725	20.0	21.8	
126 1,2-Dichlorobenzene	146	11.770	11.770	0.000	95	119732	20.0	22.7	
127 p-Diethylbenzene	119	11.816	11.816	0.000	92	79348	20.0	21.8	
128 n-Butylbenzene	92	11.839	11.839	0.000	97	75466	20.0	22.0	
129 1,2-Dibromo-3-Chloropropane	157	12.455	12.455	0.000	97	12214	20.0	21.5	
130 1,2,4,5-Tetramethylbenzene	119	12.467	12.467	0.000	97	93087	20.0	21.3	
131 1,3,5-Trichlorobenzene	180	12.615	12.615	0.000	96	47809	20.0	21.0	
132 1,2,4-Trichlorobenzene	180	13.026	13.026	0.000	94	42005	20.0	20.6	
133 Hexachlorobutadiene	225	13.140	13.140	0.000	96	20275	20.0	20.5	
134 Naphthalene	128	13.163	13.163	0.000	99	101581	20.0	19.0	
135 1,2,3-Trichlorobenzene	180	13.300	13.300	0.000	97	37668	20.0	20.1	
S 137 1,2-Dichloroethene, Total	100				0		40.0	40.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 138 Xylenes, Total	100				0		40.0	41.7	
S 139 Total BTEX	1				0		100.0	106.8	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260SURR250_00226	Amount Added:	1.00	Units: uL	
8260MIX1COMB_00153	Amount Added:	20.00	Units: uL	
ACROLEIN W_00139	Amount Added:	4.00	Units: uL	
GASES Li_00475	Amount Added:	20.00	Units: uL	
524freon_00051	Amount Added:	20.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 13-May-2022 10:23:29 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\O76600.d

Injection Date: 12-May-2022 05:13:30 Instrument ID: CVOAMS12 Operator ID:

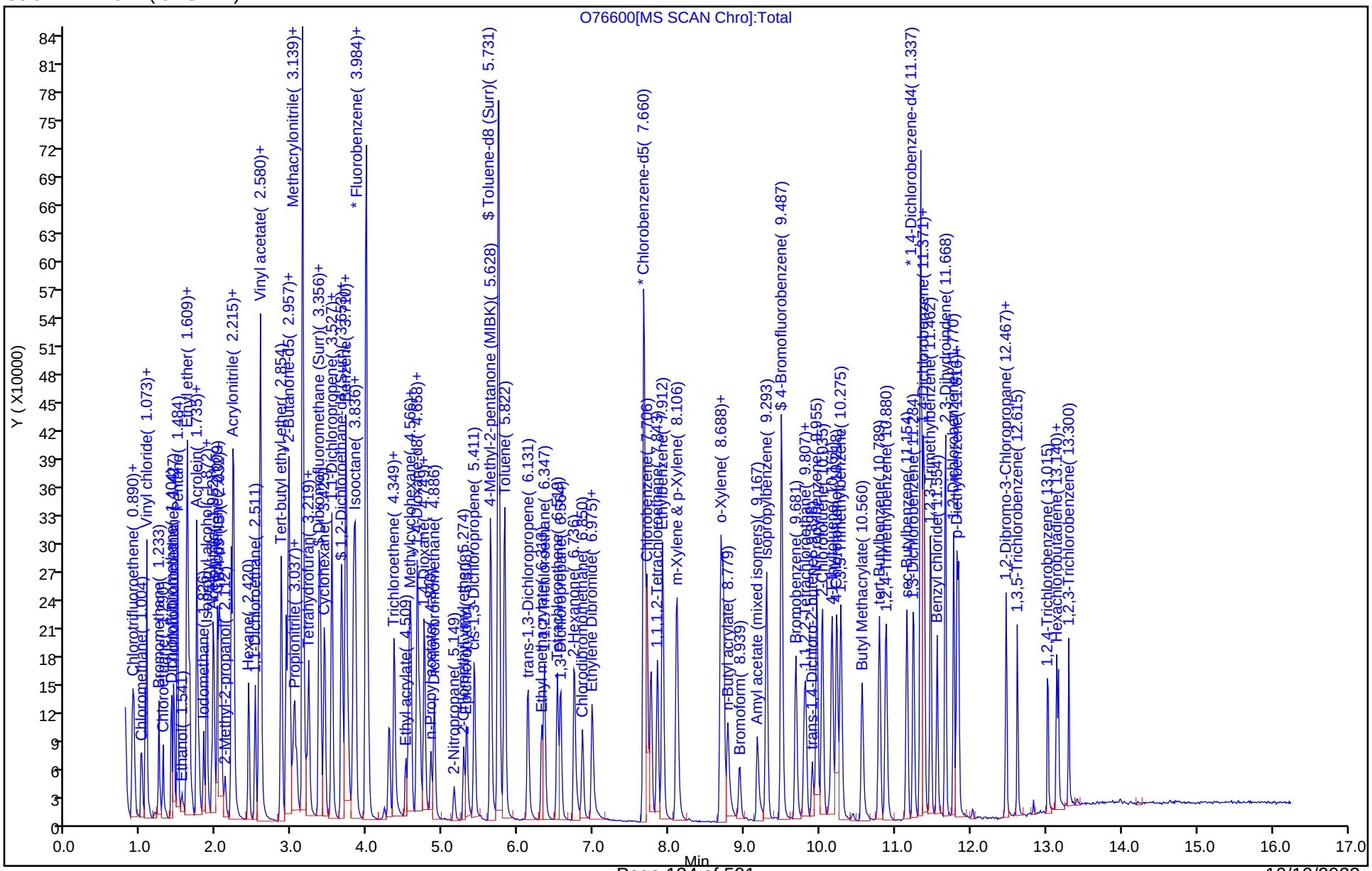
Lims ID: STD20 Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 5

Method: 8260W_12 Limit Group: VOA - 8260D Water and Solid

Column: DB-624 (0.18 mm)



10/10/2023
12:43 PM

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\O76601.d
Lims ID: STD50
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 12-May-2022 05:37:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD50
Misc. Info.: 460-0145170-007
Operator ID: Instrument ID: CVOAMS12
Sublist: chrom-8260W_12*sub26

Method: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\8260W_12.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 13-May-2022 10:23:35 Calib Date: 12-May-2022 06:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\O76603.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: martineze Date: 12-May-2022 08:07:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116	0.879	0.879	0.000	86	42608	50.0	54.9	
3 Dichlorodifluoromethane	85	0.890	0.890	0.000	99	165144	50.0	48.2	
5 Chlorodifluoromethane	67	0.901	0.901	0.000	97	26266	50.0	50.3	
6 Chloromethane	50	1.004	1.004	0.000	99	216546	50.0	48.3	
7 Vinyl chloride	62	1.050	1.050	0.000	97	217652	50.0	49.5	
8 Butadiene	54	1.073	1.073	0.000	93	190281	50.0	51.9	
9 Bromomethane	94	1.233	1.233	0.000	99	141883	50.0	45.8	
10 Chloroethane	64	1.290	1.290	0.000	99	133397	50.0	51.3	
11 Dichlorofluoromethane	67	1.404	1.404	0.000	98	296254	50.0	51.8	
12 Trichlorofluoromethane	101	1.427	1.427	0.000	98	218074	50.0	52.2	
13 Pentane	57	1.472	1.472	0.000	97	65639	100.0	107.3	
14 Ethanol	46	1.541	1.541	0.000	97	35117	2000.0	2389.6	
15 Ethyl ether	59	1.598	1.598	0.000	95	122132	50.0	51.1	
16 1,2-Dichloro-1,1,2-trifluoroetha	117	1.598	1.598	0.000	89	113621	50.0	48.7	
17 2-Methyl-1,3-butadiene	53	1.609	1.609	0.000	94	144604	50.0	55.3	
18 1,1,1-Trifluoro-2,2-dichloroetha	83	1.644	1.644	0.000	96	176992	50.0	47.1	
19 Acrolein	56	1.678	1.678	0.000	94	24565	101.4	108.3	
20 1,1-Dichloroethene	96	1.735	1.735	0.000	98	141274	50.0	52.2	
21 112TCTFE	101	1.735	1.735	0.000	95	124086	50.0	54.2	
22 Acetone	58	1.769	1.769	0.000	89	52302	250.0	270.1	
23 Iodomethane	142	1.826	1.826	0.000	97	219404	50.0	56.6	
24 Isopropyl alcohol	45	1.860	1.860	0.000	97	72661	500.0	564.7	
25 Carbon disulfide	76	1.872	1.872	0.000	99	540803	50.0	52.7	
26 Acetonitrile	38	1.952	1.952	0.000	88	47944	500.0	554.3	
27 3-Chloro-1-propene	76	1.952	1.952	0.000	96	114023	50.0	55.7	
28 Methyl acetate	43	1.975	1.975	0.000	99	125071	100.0	111.5	
29 Cyclopentene	67	2.009	2.009	0.000	94	333835	50.0	46.1	
30 Methylene Chloride	84	2.032	2.032	0.000	91	181673	50.0	52.6	
* 31 TBA-d9 (IS)	65	2.055	2.055	0.000	100	171011	1000.0	1000.0	
32 2-Methyl-2-propanol	59	2.112	2.112	0.000	99	103022	500.0	506.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Acrylonitrile	53	2.192	2.192	0.000	96	472231	500.0	525.5	
34 trans-1,2-Dichloroethene	96	2.214	2.214	0.000	94	146648	50.0	48.9	
35 Methyl tert-butyl ether	73	2.226	2.226	0.000	97	449852	50.0	51.3	
36 Hexane	57	2.420	2.420	0.000	90	153903	50.0	53.2	
37 1,1-Dichloroethane	63	2.511	2.511	0.000	99	272197	50.0	48.2	
38 Vinyl acetate	86	2.557	2.557	0.000	100	63223	100.0	110.9	
39 Isopropyl ether	45	2.580	2.580	0.000	90	561064	50.0	51.9	
40 2-Chloro-1,3-butadiene	88	2.580	2.580	0.000	88	167031	50.0	52.5	
41 Tert-butyl ethyl ether	59	2.854	2.854	0.000	91	527977	50.0	51.9	
* 43 2-Butanone-d5	46	2.922	2.922	0.000	100	225502	250.0	250.0	
45 cis-1,2-Dichloroethene	96	2.956	2.956	0.000	93	158010	50.0	47.9	
44 2,2-Dichloropropane	97	2.956	2.956	0.000	78	56539	50.0	52.4	
46 2-Butanone (MEK)	72	2.968	2.968	0.000	99	82575	250.0	269.4	
42 Propionitrile	54	3.014	3.014	0.000	96	184160	500.0	546.9	
47 Ethyl acetate	70	3.036	3.036	0.000	100	32667	100.0	111.4	
48 Methyl acrylate	55	3.059	3.059	0.000	100	148541	50.0	54.6	
50 Methacrylonitrile	67	3.139	3.139	0.000	89	574849	500.0	517.3	
49 Chlorobromomethane	128	3.151	3.151	0.000	93	82419	50.0	52.2	
51 Tetrahydrofuran	42	3.196	3.196	0.000	91	65707	100.0	110.4	
52 Chloroform	83	3.219	3.219	0.000	100	249582	50.0	48.7	
$ 53 Dibromofluoromethane (Surr)	113	3.356	3.356	0.000	97	143930	50.0	52.5	
54 1,1,1-Trichloroethane	97	3.379	3.379	0.000	98	240471	50.0	54.4	
55 Cyclohexane	84	3.425	3.425	0.000	89	210775	50.0	55.5	
56 Carbon tetrachloride	117	3.527	3.527	0.000	80	192990	50.0	54.4	
57 1,1-Dichloropropene	75	3.527	3.527	0.000	98	242158	50.0	53.8	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	3.653	3.653	0.000	0	148437	50.0	49.7	
61 Isobutyl alcohol	43	3.664	3.664	0.000	93	154887	1250.0	1498.4	a
59 Benzene	78	3.710	3.710	0.000	95	728386	50.0	53.8	
60 1,2-Dichloroethane	62	3.721	3.721	0.000	97	182892	50.0	51.0	
62 Isooctane	57	3.813	3.813	0.000	95	347022	50.0	56.6	
63 Isopropyl acetate	61	3.813	3.813	0.000	97	63002	50.0	53.0	
64 Tert-amyl methyl ether	73	3.836	3.836	0.000	99	510457	50.0	54.3	
* 65 Fluorobenzene	96	3.984	3.984	0.000	99	626511	50.0	50.0	
66 n-Heptane	43	4.007	4.007	0.000	90	136525	50.0	50.3	
67 Trichloroethene	95	4.349	4.349	0.000	99	173406	50.0	52.8	
68 n-Butanol	56	4.349	4.349	0.000	42	95216	1250.0	1714.2	
69 Ethyl acrylate	55	4.498	4.498	0.000	98	213696	50.0	53.6	
70 Methylcyclohexane	83	4.555	4.555	0.000	94	191286	50.0	54.8	
71 1,2-Dichloropropane	63	4.578	4.578	0.000	95	204620	50.0	55.1	
* 72 1,4-Dioxane-d8	96	4.692	4.692	0.000	0	32131	1000.0	1000.0	
73 Dibromomethane	93	4.692	4.692	0.000	96	89785	50.0	52.3	
74 1,4-Dioxane	88	4.737	4.737	0.000	94	42033	1000.0	1154.9	
75 Methyl methacrylate	100	4.749	4.749	0.000	91	85940	100.0	115.4	
76 n-Propyl acetate	43	4.840	4.840	0.000	98	213787	50.0	60.3	
77 Dichlorobromomethane	83	4.886	4.886	0.000	100	220478	50.0	54.5	
78 2-Nitropropane	41	5.149	5.149	0.000	96	65556	100.0	107.7	
79 2-Chloroethyl vinyl ether	63	5.274	5.274	0.000	96	117401	50.1	53.3	
80 Epichlorohydrin	57	5.308	5.308	0.000	99	315718	1000.0	1257.5	
81 cis-1,3-Dichloropropene	75	5.411	5.411	0.000	89	314602	50.0	56.8	
82 4-Methyl-2-pentanone (MIBK)	43	5.628	5.628	0.000	94	683310	250.0	321.2	
$ 83 Toluene-d8 (Surr)	98	5.731	5.731	0.000	99	661470	50.0	54.8	
84 Toluene	91	5.822	5.822	0.000	93	729698	50.0	52.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 trans-1,3-Dichloropropene	75	6.119	6.119	0.000	95	269329	50.0	56.9	
86 Ethyl methacrylate	69	6.302	6.302	0.000	88	209335	50.0	60.3	
87 1,1,2-Trichloroethane	83	6.347	6.347	0.000	96	130246	50.0	56.4	
88 Tetrachloroethene	166	6.519	6.519	0.000	96	139570	50.0	54.1	
89 1,3-Dichloropropane	76	6.553	6.553	0.000	91	277217	50.0	57.2	
90 2-Hexanone	43	6.735	6.735	0.000	94	451088	250.0	276.0	
91 Chlorodibromomethane	129	6.850	6.850	0.000	98	154831	50.0	56.9	
93 Ethylene Dibromide	107	6.975	6.975	0.000	91	150984	50.0	57.8	
92 n-Butyl acetate	43	6.975	6.975	0.000	98	214149	50.0	49.3	
* 94 Chlorobenzene-d5	117	7.660	7.660	0.000	85	412086	50.0	50.0	
95 Chlorobenzene	112	7.706	7.706	0.000	95	460199	50.0	55.2	
96 1,1,1,2-Tetrachloroethane	131	7.843	7.843	0.000	97	152319	50.0	55.6	
97 Ethylbenzene	106	7.911	7.911	0.000	98	236620	50.0	54.9	
98 m-Xylene & p-Xylene	106	8.094	8.094	0.000	100	297907	50.0	54.3	
99 o-Xylene	106	8.688	8.688	0.000	94	284899	50.0	53.8	
100 Styrene	104	8.711	8.711	0.000	96	505688	50.0	57.9	
101 n-Butyl acrylate	73	8.768	8.768	0.000	98	120109	50.0	50.4	
102 Bromoform	173	8.927	8.927	0.000	96	94038	50.0	57.4	
103 Amyl acetate (mixed isomers)	43	9.167	9.167	0.000	92	253188	50.0	67.0	
104 Isopropylbenzene	105	9.293	9.293	0.000	95	645946	50.0	55.5	
$ 105 4-Bromofluorobenzene	174	9.487	9.487	0.000	85	165111	50.0	54.5	
106 Bromobenzene	156	9.681	9.681	0.000	98	179732	50.0	53.5	
107 1,1,2,2-Tetrachloroethane	83	9.795	9.795	0.000	99	196255	50.0	53.1	
108 1,2,3-Trichloropropane	75	9.807	9.807	0.000	99	152379	50.0	51.3	
109 trans-1,4-Dichloro-2-butene	75	9.898	9.898	0.000	94	90196	50.0	57.2	
110 N-Propylbenzene	91	9.955	9.955	0.000	99	726753	50.0	55.3	
111 2-Chlorotoluene	91	10.024	10.024	0.000	96	506247	50.0	51.7	
112 4-Ethyltoluene	105	10.161	10.161	0.000	99	597274	50.0	53.3	
113 4-Chlorotoluene	91	10.218	10.218	0.000	97	580884	50.0	55.9	
114 1,3,5-Trimethylbenzene	105	10.275	10.275	0.000	93	476235	50.0	54.7	
115 Butyl Methacrylate	87	10.560	10.560	0.000	88	200025	50.0	49.4	
116 tert-Butylbenzene	119	10.788	10.788	0.000	95	387150	50.0	53.6	
117 1,2,4-Trimethylbenzene	105	10.880	10.880	0.000	97	477259	50.0	54.4	
118 sec-Butylbenzene	105	11.154	11.154	0.000	99	550945	50.0	54.2	
119 1,3-Dichlorobenzene	146	11.234	11.234	0.000	96	315240	50.0	55.0	
* 120 1,4-Dichlorobenzene-d4	152	11.336	11.336	0.000	95	224560	50.0	50.0	
121 1,4-Dichlorobenzene	146	11.359	11.359	0.000	95	333584	50.0	53.2	
122 4-Isopropyltoluene	119	11.382	11.382	0.000	98	446606	50.0	55.2	
123 1,2,3-Trimethylbenzene	105	11.462	11.462	0.000	98	505930	50.0	54.0	
124 Benzyl chloride	126	11.553	11.553	0.000	99	84640	50.0	52.5	
125 2,3-Dihydroindene	117	11.668	11.668	0.000	94	606354	50.0	55.0	
126 1,2-Dichlorobenzene	146	11.770	11.770	0.000	96	323916	50.0	56.0	
127 p-Diethylbenzene	119	11.816	11.816	0.000	93	221856	50.0	55.4	
128 n-Butylbenzene	92	11.839	11.839	0.000	96	214091	50.0	56.7	
129 1,2-Dibromo-3-Chloropropane	157	12.455	12.455	0.000	96	37050	50.0	59.3	
130 1,2,4,5-Tetramethylbenzene	119	12.467	12.467	0.000	97	265461	50.0	55.4	
131 1,3,5-Trichlorobenzene	180	12.615	12.615	0.000	97	137571	50.0	55.1	
132 1,2,4-Trichlorobenzene	180	13.015	13.015	0.000	94	119850	50.0	53.5	
133 Hexachlorobutadiene	225	13.140	13.140	0.000	97	58502	50.0	53.8	
134 Naphthalene	128	13.152	13.152	0.000	99	295417	50.0	50.2	
135 1,2,3-Trichlorobenzene	180	13.300	13.300	0.000	96	113920	50.0	55.3	
S 137 1,2-Dichloroethene, Total	100				0		100.0	96.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 138 Xylenes, Total	100				0		100.0	108.1	
S 139 Total BTEX	1				0		250.0	269.6	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260SURR250_00226	Amount Added:	1.00	Units: uL	
8260MIX1COMB_00153	Amount Added:	50.00	Units: uL	
ACROLEIN W_00139	Amount Added:	10.00	Units: uL	
GASES Li_00475	Amount Added:	50.00	Units: uL	
524freon_00051	Amount Added:	50.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent

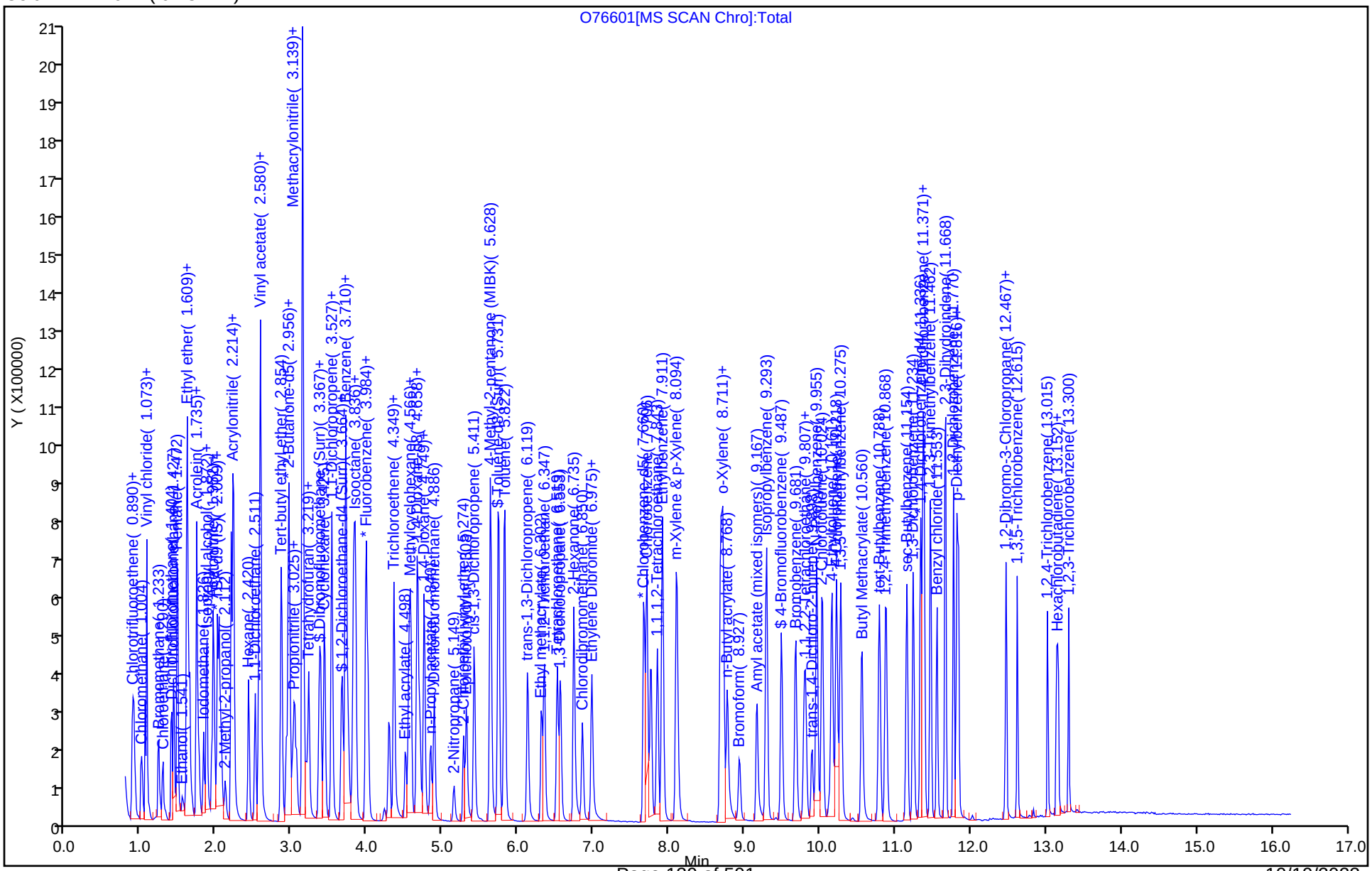
Report Date: 13-May-2022 10:23:36 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\O76601.d

Injection Date:	12-May-2022 05:37:30	Instrument ID:	CVOAMS12	Operator ID:	
Lims ID:	STD50			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260W_12	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



10/10/2023
12:43 PM

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\O76602.d
Lims ID: STD200
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 12-May-2022 06:01:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD200
Misc. Info.: 460-0145170-008
Operator ID: Instrument ID: CVOAMS12
Sublist: chrom-8260W_12*sub26

Method: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\8260W_12.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 13-May-2022 10:23:42 Calib Date: 12-May-2022 06:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\O76603.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: martineze Date: 12-May-2022 08:08:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116	0.879	0.879	0.000	87	201366	200.0	196.7	
3 Dichlorodifluoromethane	85	0.890	0.890	0.000	99	837520	200.0	212.3	
5 Chlorodifluoromethane	67	0.901	0.901	0.000	96	110855	200.0	184.3	
6 Chloromethane	50	1.004	1.004	0.000	99	985681	200.0	190.9	
7 Vinyl chloride	62	1.050	1.050	0.000	98	964610	200.0	190.3	
8 Butadiene	54	1.073	1.073	0.000	93	860022	200.0	204.2	
9 Bromomethane	94	1.233	1.233	0.001	99	645534	200.0	181.0	
10 Chloroethane	64	1.290	1.290	0.000	98	579057	200.0	193.2	
11 Dichlorofluoromethane	67	1.404	1.404	0.000	98	1247089	200.0	189.2	
12 Trichlorofluoromethane	101	1.438	1.427	0.011	98	953671	200.0	198.0	
13 Pentane	57	1.484	1.472	0.012	97	245251	400.0	347.8	
14 Ethanol	46	1.541	1.541	0.000	97	136127	8000.0	7345.4	
15 Ethyl ether	59	1.598	1.598	0.000	96	541780	200.0	196.8	
16 1,2-Dichloro-1,1,2-trifluoroetha	117	1.609	1.598	0.011	88	565623	200.0	210.2	
17 2-Methyl-1,3-butadiene	53	1.609	1.609	0.000	91	551352	200.0	183.1	
18 1,1,1-Trifluoro-2,2-dichloroetha	83	1.644	1.644	0.000	95	891830	200.0	206.1	
19 Acrolein	56	1.678	1.678	0.000	95	58174	202.8	201.6	
20 1,1-Dichloroethene	96	1.735	1.735	0.000	97	585050	200.0	187.5	
21 112TCTFE	101	1.735	1.735	0.000	96	502157	200.0	190.3	
22 Acetone	58	1.758	1.769	-0.011	89	230813	1000.0	903.7	
23 Iodomethane	142	1.826	1.826	0.000	97	927348	200.0	207.6	
24 Isopropyl alcohol	45	1.861	1.860	0.000	99	305658	2000.0	1883.8	
25 Carbon disulfide	76	1.872	1.872	0.000	99	2162182	200.0	182.8	
26 Acetonitrile	38	1.952	1.952	0.000	91	183952	2000.0	1686.3	
27 3-Chloro-1-propene	76	1.963	1.952	0.011	96	449246	200.0	190.3	
28 Methyl acetate	43	1.975	1.975	0.000	98	624033	400.0	441.2	
29 Cyclopentene	67	2.009	2.009	0.000	95	1447570	200.0	173.4	
30 Methylene Chloride	84	2.032	2.032	0.000	90	712553	200.0	179.1	
* 31 TBA-d9 (IS)	65	2.055	2.055	0.000	99	215653	1000.0	1000.0	
32 2-Methyl-2-propanol	59	2.112	2.112	0.000	99	442731	2000.0	1724.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Acrylonitrile	53	2.192	2.192	0.000	96	1913358	2000.0	1848.1	
34 trans-1,2-Dichloroethene	96	2.214	2.214	0.000	93	689211	200.0	199.3	
35 Methyl tert-butyl ether	73	2.226	2.226	0.000	97	1808158	200.0	179.0	
36 Hexane	57	2.420	2.420	0.000	91	628856	200.0	188.8	
37 1,1-Dichloroethane	63	2.511	2.511	0.000	99	1354248	200.0	208.3	
38 Vinyl acetate	86	2.557	2.557	0.000	100	325858	400.0	433.2	
39 Isopropyl ether	45	2.580	2.580	0.000	91	2301826	200.0	184.7	
40 2-Chloro-1,3-butadiene	88	2.580	2.580	0.000	65	697827	200.0	190.5	
41 Tert-butyl ethyl ether	59	2.854	2.854	0.000	90	2271265	200.0	193.8	
* 43 2-Butanone-d5	46	2.922	2.922	0.000	100	297441	250.0	250.0	
45 cis-1,2-Dichloroethene	96	2.957	2.956	0.001	96	792759	200.0	208.5	
44 2,2-Dichloropropane	97	2.957	2.956	0.001	78	251215	200.0	202.0	
46 2-Butanone (MEK)	72	2.968	2.968	0.000	99	358509	1000.0	886.8	
42 Propionitrile	54	3.014	3.014	0.000	98	814253	2000.0	2011.1	
47 Ethyl acetate	70	3.036	3.036	0.000	100	136735	400.0	353.6	
48 Methyl acrylate	55	3.059	3.059	0.000	100	621101	200.0	198.1	
50 Methacrylonitrile	67	3.139	3.139	0.000	88	2580744	2000.0	2015.6	
49 Chlorobromomethane	128	3.151	3.151	0.000	92	361054	200.0	198.6	
51 Tetrahydrofuran	42	3.185	3.196	-0.011	82	312018	400.0	397.5	
52 Chloroform	83	3.219	3.219	0.000	100	1149556	200.0	194.6	
$ 53 Dibromofluoromethane (Surr)	113	3.356	3.356	0.000	97	160580	50.0	50.9	
54 1,1,1-Trichloroethane	97	3.379	3.379	0.000	98	994897	200.0	195.3	
55 Cyclohexane	84	3.425	3.425	0.000	89	847805	200.0	193.6	
56 Carbon tetrachloride	117	3.527	3.527	0.000	80	805046	200.0	196.8	
57 1,1-Dichloropropene	75	3.527	3.527	0.000	98	991109	200.0	191.2	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	3.653	3.653	0.000	0	168376	50.0	48.9	
61 Isobutyl alcohol	43	3.664	3.664	0.000	94	699383	5000.0	5365.4	a
59 Benzene	78	3.710	3.710	0.000	94	2995045	200.0	179.0	
60 1,2-Dichloroethane	62	3.721	3.721	0.000	96	782354	200.0	189.2	
62 Isooctane	57	3.813	3.813	0.000	96	1294109	200.0	183.2	
63 Isopropyl acetate	61	3.813	3.813	0.000	98	271689	200.0	198.2	
64 Tert-amyl methyl ether	73	3.836	3.836	0.000	98	2106304	200.0	194.6	
* 65 Fluorobenzene	96	3.984	3.984	0.000	99	721829	50.0	50.0	
66 n-Heptane	43	4.007	4.007	0.000	91	507973	200.0	162.6	
67 Trichloroethene	95	4.349	4.349	0.000	98	698049	200.0	184.5	
68 n-Butanol	56	4.338	4.349	-0.011	84	465997	5000.0	6652.7	
69 Ethyl acrylate	55	4.498	4.498	0.000	98	915154	200.0	199.1	
70 Methylcyclohexane	83	4.555	4.555	0.000	95	765743	200.0	190.4	
71 1,2-Dichloropropane	63	4.578	4.578	0.000	95	796847	200.0	186.3	
* 72 1,4-Dioxane-d8	96	4.692	4.692	0.000	0	38632	1000.0	1000.0	
73 Dibromomethane	93	4.692	4.692	0.000	98	388804	200.0	196.7	
74 1,4-Dioxane	88	4.738	4.737	0.001	95	178130	4000.0	4070.8	
75 Methyl methacrylate	100	4.749	4.749	0.000	88	367904	400.0	428.6	
76 n-Propyl acetate	43	4.829	4.840	-0.011	98	883387	200.0	216.1	
77 Dichlorobromomethane	83	4.886	4.886	0.000	99	914143	200.0	196.0	
78 2-Nitropropane	41	5.149	5.149	0.001	94	270508	400.0	385.7	
79 2-Chloroethyl vinyl ether	63	5.274	5.274	0.000	96	521141	200.5	199.6	
80 Epichlorohydrin	57	5.308	5.308	0.000	99	1345904	4000.0	4064.1	
81 cis-1,3-Dichloropropene	75	5.411	5.411	0.000	89	1317258	200.0	192.6	
82 4-Methyl-2-pentanone (MIBK)	43	5.628	5.628	0.000	94	2825168	1000.0	1006.8	
$ 83 Toluene-d8 (Surr)	98	5.742	5.731	0.011	99	689042	50.0	46.3	
84 Toluene	91	5.822	5.822	0.000	93	3053939	200.0	179.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 trans-1,3-Dichloropropene	75	6.119	6.119	0.000	95	1165041	200.0	199.4	
86 Ethyl methacrylate	69	6.302	6.302	0.000	88	933909	200.0	217.8	
87 1,1,2-Trichloroethane	83	6.347	6.347	0.000	95	547821	200.0	192.1	
88 Tetrachloroethene	166	6.519	6.519	0.000	96	604082	200.0	189.7	
89 1,3-Dichloropropane	76	6.553	6.553	0.000	91	1171664	200.0	196.0	
90 2-Hexanone	43	6.736	6.735	0.001	94	2075580	1000.0	991.3	
91 Chlorodibromomethane	129	6.850	6.850	0.000	98	703977	200.0	209.6	
93 Ethylene Dibromide	107	6.975	6.975	0.000	98	656436	200.0	203.6	
92 n-Butyl acetate	43	6.964	6.975	-0.011	99	1020172	200.0	200.7	
* 94 Chlorobenzene-d5	117	7.660	7.660	0.000	85	508690	50.0	50.0	
95 Chlorobenzene	112	7.706	7.706	0.000	95	1983315	200.0	192.7	
96 1,1,1,2-Tetrachloroethane	131	7.843	7.843	0.000	98	667069	200.0	197.4	
97 Ethylbenzene	106	7.911	7.911	0.000	97	1029973	200.0	193.5	
98 m-Xylene & p-Xylene	106	8.094	8.094	0.000	100	1280778	200.0	189.1	
99 o-Xylene	106	8.688	8.688	0.000	94	1297212	200.0	198.3	
100 Styrene	104	8.711	8.711	0.000	96	2284111	200.0	211.9	
101 n-Butyl acrylate	73	8.768	8.768	0.000	99	573178	200.0	200.5	
102 Bromoform	173	8.928	8.927	0.001	96	443294	200.0	219.4	
103 Amyl acetate (mixed isomers)	43	9.156	9.167	-0.011	92	1218675	200.0	260.4	
104 Isopropylbenzene	105	9.293	9.293	0.000	95	2805356	200.0	195.4	
$ 105 4-Bromofluorobenzene	174	9.487	9.487	0.000	87	185698	50.0	49.7	
106 Bromobenzene	156	9.681	9.681	0.000	98	784853	200.0	188.5	
107 1,1,2,2-Tetrachloroethane	83	9.795	9.795	0.000	99	896238	200.0	195.8	
108 1,2,3-Trichloropropane	75	9.807	9.807	0.000	99	675168	200.0	183.5	
109 trans-1,4-Dichloro-2-butene	75	9.898	9.898	0.000	93	411870	200.0	211.0	
110 N-Propylbenzene	91	9.955	9.955	0.000	99	3154283	200.0	193.8	
111 2-Chlorotoluene	91	10.035	10.024	0.011	96	2164555	200.0	178.6	
112 4-Ethyltoluene	105	10.161	10.161	0.000	98	2576875	200.0	185.7	
113 4-Chlorotoluene	91	10.218	10.218	0.000	96	2306694	200.0	179.2	
114 1,3,5-Trimethylbenzene	105	10.275	10.275	0.000	93	2023366	200.0	187.6	
115 Butyl Methacrylate	87	10.560	10.560	0.000	88	1015867	200.0	200.6	
116 tert-Butylbenzene	119	10.789	10.788	0.001	95	1736524	200.0	194.0	
117 1,2,4-Trimethylbenzene	105	10.880	10.880	0.000	97	2081658	200.0	191.7	
118 sec-Butylbenzene	105	11.154	11.154	0.000	99	2458179	200.0	195.2	
119 1,3-Dichlorobenzene	146	11.234	11.234	0.000	97	1384855	200.0	194.9	
* 120 1,4-Dichlorobenzene-d4	152	11.337	11.336	0.001	95	278172	50.0	50.0	
121 1,4-Dichlorobenzene	146	11.359	11.359	0.000	94	1457437	200.0	187.7	
122 4-Isopropyltoluene	119	11.382	11.382	0.000	98	1945582	200.0	194.1	
123 1,2,3-Trimethylbenzene	105	11.462	11.462	0.000	99	2182839	200.0	188.2	
124 Benzyl chloride	126	11.553	11.553	0.000	99	390077	200.0	199.1	
125 2,3-Dihydroindene	117	11.668	11.668	0.000	95	2640505	200.0	193.3	
126 1,2-Dichlorobenzene	146	11.770	11.770	0.000	96	1382836	200.0	192.8	
127 p-Diethylbenzene	119	11.816	11.816	0.000	94	963933	200.0	194.3	
128 n-Butylbenzene	92	11.839	11.839	0.000	97	912130	200.0	195.0	
129 1,2-Dibromo-3-Chloropropane	157	12.455	12.455	0.000	97	168558	200.0	217.7	
130 1,2,4,5-Tetramethylbenzene	119	12.467	12.467	0.000	97	1228590	200.0	206.9	
131 1,3,5-Trichlorobenzene	180	12.615	12.615	0.000	97	626713	200.0	202.6	
132 1,2,4-Trichlorobenzene	180	13.015	13.015	0.000	93	582522	200.0	209.8	
133 Hexachlorobutadiene	225	13.140	13.140	0.000	97	259599	200.0	192.8	
134 Naphthalene	128	13.152	13.152	0.000	99	1487536	200.0	204.0	
135 1,2,3-Trichlorobenzene	180	13.300	13.300	0.000	96	508834	200.0	199.5	
S 137 1,2-Dichloroethene, Total	100				0		400.0	407.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 138 Xylenes, Total	100				0		400.0	387.4	
S 139 Total BTEX	1				0		1000.0	939.4	

QC Flag Legend

Processing Flags
Review Flags
a - User Assigned ID

Reagents:

8260SURR250_00226	Amount Added:	1.00	Units: uL	
GAS Hi_00414	Amount Added:	20.00	Units: uL	
Ethanol mix_00064	Amount Added:	20.00	Units: uL	
MIX 2 Hi_00123	Amount Added:	20.00	Units: uL	
MIX I Hi_00150	Amount Added:	20.00	Units: uL	
8FreonHi_00044	Amount Added:	20.00	Units: uL	
ACROLEIN W_00139	Amount Added:	20.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 13-May-2022 10:23:43 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\O76602.d

Injection Date: 12-May-2022 06:01:30 Instrument ID: CVOAMS12 Operator ID:

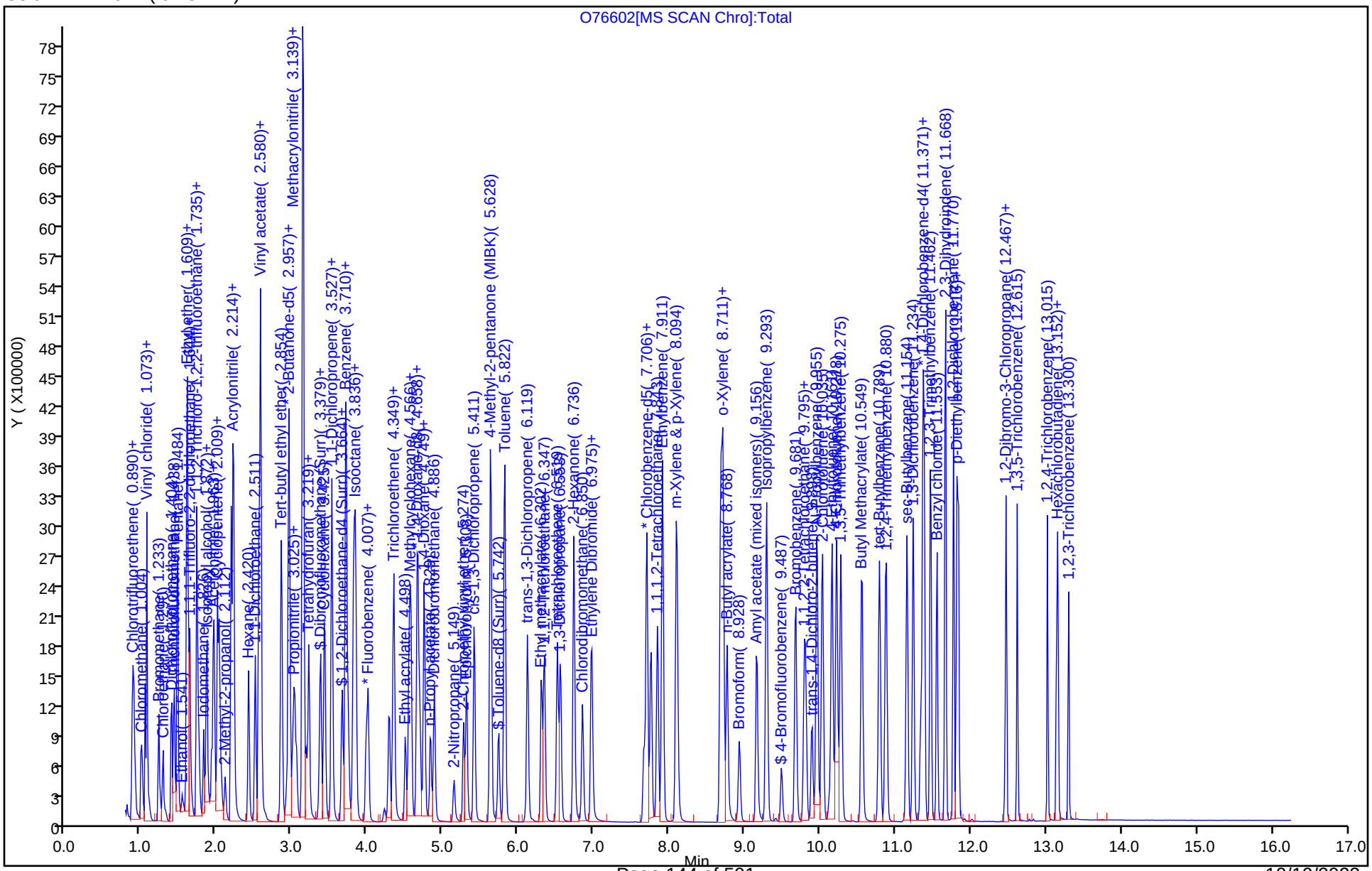
Lims ID: STD200 Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 7

Method: 8260W_12 Limit Group: VOA - 8260D Water and Solid

Column: DB-624 (0.18 mm)



Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\O76603.d
Lims ID: STD500
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 12-May-2022 06:25:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD500
Misc. Info.: 460-0145170-009
Operator ID: Instrument ID: CVOAMS12
Sublist: chrom-8260W_12*sub26

Method: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\8260W_12.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 13-May-2022 10:23:49 Calib Date: 12-May-2022 06:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\O76603.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: martineze Date: 12-May-2022 08:14:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116	0.878	0.879	-0.001	92	515119	500.0	514.3	
3 Dichlorodifluoromethane	85	0.890	0.890	0.000	99	2186880	500.0	573.7	
5 Chlorodifluoromethane	67	0.901	0.901	0.000	97	262204	500.0	451.1	
6 Chloromethane	50	1.004	1.004	0.000	98	2458236	500.0	492.9	
7 Vinyl chloride	62	1.050	1.050	0.000	97	2390965	500.0	488.2	
8 Butadiene	54	1.073	1.073	0.000	92	2145245	500.0	527.5	
9 Bromomethane	94	1.221	1.233	-0.011	99	1078694	500.0	313.1	
10 Chloroethane	64	1.278	1.290	-0.012	98	1337480	500.0	461.8	
11 Dichlorofluoromethane	67	1.392	1.404	-0.012	99	3077011	500.0	483.2	
12 Trichlorofluoromethane	101	1.427	1.427	-0.001	98	2422620	500.0	520.7	
13 Pentane	57	1.472	1.472	0.000	97	685899	1000.0	1006.9	
14 Ethanol	46	1.552	1.541	0.011	96	312699	20000	14755	
15 Ethyl ether	59	1.598	1.598	0.000	95	1275293	500.0	479.5	
16 1,2-Dichloro-1,1,2-trifluoroetha	117	1.609	1.598	0.011	85	1393778	500.0	536.2	
17 2-Methyl-1,3-butadiene	53	1.609	1.609	0.000	84	1362493	500.0	468.4	
18 1,1,1-Trifluoro-2,2-dichloroetha	83	1.643	1.644	-0.001	94	2210116	500.0	528.6	
19 Acrolein	56	1.678	1.678	0.000	95	119149	405.6	359.6	
20 1,1-Dichloroethene	96	1.735	1.735	0.000	95	1494596	500.0	495.7	
21 112TCTFE	101	1.735	1.735	0.000	74	1311316	500.0	514.3	
22 Acetone	58	1.769	1.769	0.000	90	552699	2500.0	2211.4	
23 Iodomethane	142	1.826	1.826	0.000	97	2211881	500.0	512.4	
24 Isopropyl alcohol	45	1.872	1.860	0.012	31	791098	5000.0	4263.6	
25 Carbon disulfide	76	1.860	1.872	-0.012	98	5517454	500.0	482.7	
26 Acetonitrile	38	1.952	1.952	0.000	92	397732	5000.0	3188.4	
27 3-Chloro-1-propene	76	1.963	1.952	0.011	98	1127299	500.0	494.4	
28 Methyl acetate	43	1.975	1.975	0.000	98	1706549	1000.0	1055.2	
29 Cyclopentene	67	2.009	2.009	0.000	95	4180972	500.0	518.5	
30 Methylene Chloride	84	2.032	2.032	0.000	90	1835272	500.0	477.6	
* 31 TBA-d9 (IS)	65	2.066	2.055	0.011	99	246609	1000.0	1000.0	
32 2-Methyl-2-propanol	59	2.123	2.112	0.011	99	1265164	5000.0	4309.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Acrylonitrile	53	2.203	2.192	0.011	97	5268188	5000.0	5266.9	
34 trans-1,2-Dichloroethene	96	2.214	2.214	0.000	92	1810080	500.0	541.8	
35 Methyl tert-butyl ether	73	2.226	2.226	0.000	97	4573311	500.0	468.6	
36 Hexane	57	2.420	2.420	0.000	90	1668686	500.0	518.7	
37 1,1-Dichloroethane	63	2.511	2.511	0.000	99	3378428	500.0	537.9	
38 Vinyl acetate	86	2.557	2.557	0.000	100	792396	1000.0	1076.5	
39 Isopropyl ether	45	2.580	2.580	0.000	91	5497066	500.0	456.5	
40 2-Chloro-1,3-butadiene	88	2.580	2.580	0.000	85	1810651	500.0	511.7	
41 Tert-butyl ethyl ether	59	2.854	2.854	0.000	90	5644251	500.0	498.5	
* 43 2-Butanone-d5	46	2.922	2.922	0.000	94	291063	250.0	250.0	
45 cis-1,2-Dichloroethene	96	2.956	2.956	0.000	96	2026729	500.0	551.7	
44 2,2-Dichloropropane	97	2.956	2.956	0.000	77	615568	500.0	512.3	
46 2-Butanone (MEK)	72	2.968	2.968	0.000	98	865243	2500.0	2187.2	
42 Propionitrile	54	3.025	3.014	0.011	97	2030765	5000.0	4913.7	
47 Ethyl acetate	70	3.036	3.036	0.000	99	329071	1000.0	869.7	
48 Methyl acrylate	55	3.059	3.059	0.000	99	1508895	500.0	498.1	
50 Methacrylonitrile	67	3.150	3.139	0.011	86	6386102	5000.0	5162.5	
49 Chlorobromomethane	128	3.162	3.151	0.011	90	942270	500.0	536.5	
51 Tetrahydrofuran	42	3.196	3.196	0.000	95	803921	1000.0	1046.5	
52 Chloroform	83	3.219	3.219	0.000	100	2958271	500.0	518.3	
$ 53 Dibromofluoromethane (Surr)	113	3.356	3.356	0.000	97	168589	50.0	55.3	
54 1,1,1-Trichloroethane	97	3.379	3.379	0.000	98	2498229	500.0	507.7	
55 Cyclohexane	84	3.424	3.425	-0.001	89	2164476	500.0	511.6	
56 Carbon tetrachloride	117	3.527	3.527	0.000	78	1998711	500.0	505.8	
57 1,1-Dichloropropene	75	3.527	3.527	0.000	97	2433806	500.0	485.9	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	3.653	3.653	0.000	0	170035	50.0	51.1	
61 Isobutyl alcohol	43	3.676	3.664	0.012	93	1753597	12500	11764	a
59 Benzene	78	3.710	3.710	0.000	95	7363693	500.0	425.4	
60 1,2-Dichloroethane	62	3.721	3.721	0.000	96	1863681	500.0	466.5	
62 Isooctane	57	3.813	3.813	0.000	97	3632482	500.0	532.3	
63 Isopropyl acetate	61	3.824	3.813	0.011	99	639617	500.0	483.1	
64 Tert-amyl methyl ether	73	3.847	3.836	0.011	97	4964926	500.0	474.7	
* 65 Fluorobenzene	96	3.984	3.984	0.000	99	697378	50.0	50.0	
66 n-Heptane	43	4.007	4.007	0.000	89	1419148	500.0	470.1	
67 Trichloroethene	95	4.349	4.349	0.000	98	1739285	500.0	475.8	
68 n-Butanol	56	4.349	4.349	0.000	53	1200094	12500	14982	
69 Ethyl acrylate	55	4.509	4.498	0.011	98	2226024	500.0	500.1	
70 Methylcyclohexane	83	4.555	4.555	0.000	95	2005077	500.0	516.1	
71 1,2-Dichloropropane	63	4.578	4.578	0.000	96	1975926	500.0	478.2	
* 72 1,4-Dioxane-d8	96	4.692	4.692	0.000	0	44242	1000.0	1000.0	
73 Dibromomethane	93	4.692	4.692	0.000	98	975987	500.0	511.2	
74 1,4-Dioxane	88	4.749	4.737	0.012	95	422662	10000	8434.3	
75 Methyl methacrylate	100	4.760	4.749	0.011	88	902016	1000.0	1087.7	
76 n-Propyl acetate	43	4.840	4.840	0.000	97	2119094	500.0	536.6	
77 Dichlorobromomethane	83	4.886	4.886	0.000	99	2288671	500.0	507.9	
78 2-Nitropropane	41	5.148	5.149	0.000	94	665701	1000.0	982.4	
79 2-Chloroethyl vinyl ether	63	5.274	5.274	0.000	96	1317167	501.2	501.3	
80 Epichlorohydrin	57	5.320	5.308	0.012	99	3400618	10000	10494	
81 cis-1,3-Dichloropropene	75	5.422	5.411	0.011	89	3264637	500.0	461.3	
82 4-Methyl-2-pentanone (MIBK)	43	5.639	5.628	0.011	93	6723175	2500.0	2448.4	
$ 83 Toluene-d8 (Surr)	98	5.742	5.731	0.011	99	717534	50.0	46.6	
84 Toluene	91	5.822	5.822	0.000	94	7711517	500.0	437.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 trans-1,3-Dichloropropene	75	6.119	6.119	0.000	94	2964599	500.0	490.3	
86 Ethyl methacrylate	69	6.313	6.302	0.011	87	2352175	500.0	530.0	a
87 1,1,2-Trichloroethane	83	6.347	6.347	0.000	95	1349431	500.0	457.3	
88 Tetrachloroethene	166	6.518	6.519	-0.001	97	1560005	500.0	473.3	
89 1,3-Dichloropropane	76	6.564	6.553	0.011	90	2924724	500.0	472.7	
90 2-Hexanone	43	6.747	6.735	0.012	93	4738618	2500.0	2501.3	
91 Chlorodibromomethane	129	6.861	6.850	0.011	98	1761870	500.0	506.9	
93 Ethylene Dibromide	107	6.975	6.975	0.000	98	1628728	500.0	488.1	
92 n-Butyl acetate	43	6.964	6.975	-0.011	98	2350495	500.0	499.9	
* 94 Chlorobenzene-d5	117	7.672	7.660	0.012	85	526456	50.0	50.0	
95 Chlorobenzene	112	7.706	7.706	0.000	95	5161180	500.0	484.4	
96 1,1,1,2-Tetrachloroethane	131	7.854	7.843	0.011	98	1755314	500.0	502.0	
97 Ethylbenzene	106	7.923	7.911	0.012	97	2731079	500.0	495.8	
98 m-Xylene & p-Xylene	106	8.105	8.094	0.011	99	3396001	500.0	484.4	
99 o-Xylene	106	8.688	8.688	0.000	97	3477788	500.0	513.8	
100 Styrene	104	8.722	8.711	0.011	97	6065414	500.0	543.8	
101 n-Butyl acrylate	73	8.768	8.768	0.000	99	1396289	500.0	499.9	
102 Bromoform	173	8.939	8.927	0.012	97	1185726	500.0	567.0	
103 Amyl acetate (mixed isomers)	43	9.167	9.167	0.000	92	3122474	500.0	638.3	
104 Isopropylbenzene	105	9.293	9.293	0.000	95	7265760	500.0	489.0	
$ 105 4-Bromofluorobenzene	174	9.498	9.487	0.011	85	192397	50.0	49.8	
106 Bromobenzene	156	9.681	9.681	0.000	98	2087035	500.0	479.3	
107 1,1,2,2-Tetrachloroethane	83	9.795	9.795	0.000	99	2303812	500.0	481.5	
108 1,2,3-Trichloropropane	75	9.818	9.807	0.011	99	1739553	500.0	452.2	
109 trans-1,4-Dichloro-2-butene	75	9.898	9.898	0.000	93	1081443	500.0	529.9	
110 N-Propylbenzene	91	9.966	9.955	0.011	100	8043802	500.0	472.7	
111 2-Chlorotoluene	91	10.035	10.024	0.011	97	5642629	500.0	445.2	
112 4-Ethyltoluene	105	10.172	10.161	0.011	99	6673028	500.0	459.8	
113 4-Chlorotoluene	91	10.229	10.218	0.011	96	5918795	500.0	439.7	
114 1,3,5-Trimethylbenzene	105	10.286	10.275	0.011	93	5107339	500.0	452.8	
115 Butyl Methacrylate	87	10.560	10.560	0.000	86	2701957	500.0	499.9	
116 tert-Butylbenzene	119	10.800	10.788	0.012	95	4450570	500.0	475.6	
117 1,2,4-Trimethylbenzene	105	10.880	10.880	0.000	97	5143449	500.0	453.0	
118 sec-Butylbenzene	105	11.154	11.154	0.000	99	6280536	500.0	477.1	
119 1,3-Dichlorobenzene	146	11.245	11.234	0.011	96	3529450	500.0	475.2	
* 120 1,4-Dichlorobenzene-d4	152	11.336	11.336	0.000	96	290833	50.0	50.0	
121 1,4-Dichlorobenzene	146	11.371	11.359	0.012	95	3754719	500.0	462.6	
122 4-Isopropyltoluene	119	11.382	11.382	0.000	98	4995358	500.0	476.7	
123 1,2,3-Trimethylbenzene	105	11.473	11.462	0.011	97	5477970	500.0	451.7	
124 Benzyl chloride	126	11.553	11.553	0.000	99	974258	500.0	500.1	
125 2,3-Dihydroindene	117	11.667	11.668	-0.001	95	6514115	500.0	456.0	
126 1,2-Dichlorobenzene	146	11.770	11.770	0.000	97	3590122	500.0	478.8	
127 p-Diethylbenzene	119	11.816	11.816	0.000	93	2487214	500.0	479.5	
128 n-Butylbenzene	92	11.839	11.839	0.000	97	2300387	500.0	470.3	
129 1,2-Dibromo-3-Chloropropane	157	12.455	12.455	0.000	97	432471	500.0	534.3	
130 1,2,4,5-Tetramethylbenzene	119	12.467	12.467	0.000	97	3179954	500.0	512.1	
131 1,3,5-Trichlorobenzene	180	12.615	12.615	0.000	97	1634888	500.0	505.5	
132 1,2,4-Trichlorobenzene	180	13.015	13.015	0.000	94	1567482	500.0	539.9	
133 Hexachlorobutadiene	225	13.140	13.140	0.000	98	722080	500.0	512.9	
134 Naphthalene	128	13.152	13.152	0.000	99	3816831	500.0	500.5	
135 1,2,3-Trichlorobenzene	180	13.300	13.300	0.000	96	1368188	500.0	513.2	
S 137 1,2-Dichloroethene, Total	100				0		1000.0	1093.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 138 Xylenes, Total	100				0		1000.0	998.2	
S 139 Total BTEX	1				0		2500.0	2357.2	

QC Flag Legend

Processing Flags
Review Flags
a - User Assigned ID

Reagents:

8260SURR250_00226	Amount Added:	1.00	Units: uL	
GAS Hi_00414	Amount Added:	50.00	Units: uL	
Ethanol mix_00064	Amount Added:	50.00	Units: uL	
MIX 2 Hi_00123	Amount Added:	50.00	Units: uL	
MIX I Hi_00150	Amount Added:	50.00	Units: uL	
8FreonHi_00044	Amount Added:	50.00	Units: uL	
ACROLEIN W_00139	Amount Added:	40.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent

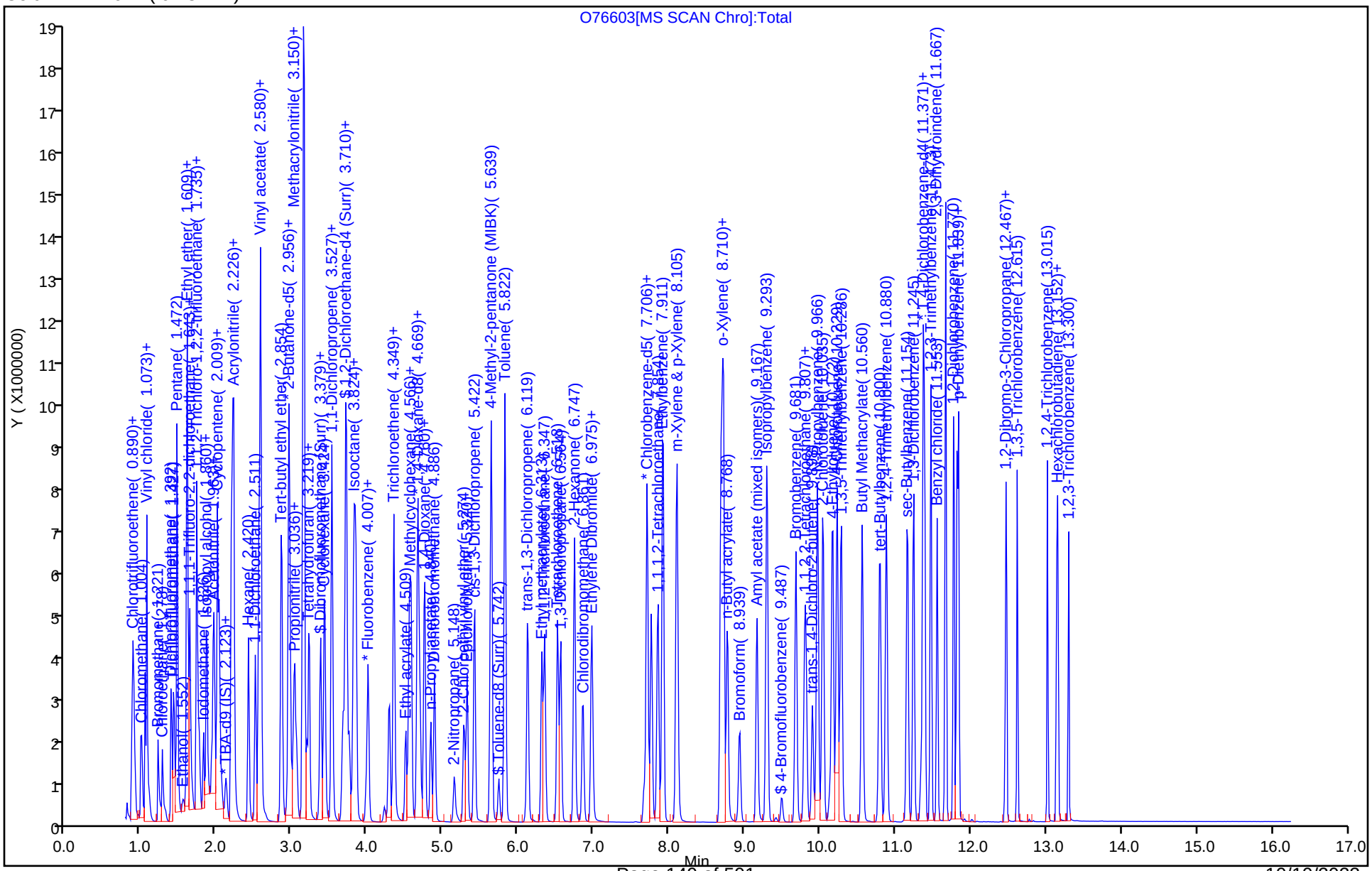
Report Date: 13-May-2022 10:23:50 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\O76603.d

Injection Date:	12-May-2022 06:25:30	Instrument ID:	CVOAMS12	Operator ID:	
Lims ID:	STD500			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260W_12	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



10/10/2023
12:43 PM

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

Lab Name: Eurofins Edison Job No.: 460-258307-1 Analy Batch No.: 845946

SDG No.:

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/22/2022 08:51 Calibration End Date: 05/22/2022 11:15 Calibration ID: 90526

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD7 460-845946/3	O76985.d
Level 2	STD1 460-845946/4	O76986.d
Level 3	STD5 460-845946/5	O76987.d
Level 4	STD20 460-845946/6	O76988.d
Level 5	STD50 460-845946/7	O76989.d
Level 6	STD200 460-845946/8	O76990.d
Level 7	STD500 460-845946/9	O76991.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	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								
Chlorotrifluoroethene	+++++ 1.3834	1.6724 1.4196	1.4583	1.2226	1.4180	Ave		1.4291				10.1		20.0			
Dichlorodifluoromethane	+++++ 0.3701	0.3070 0.3589	0.3074	0.3341	0.3682	Ave		0.3410			0.1000	8.5		20.0			
Chlorodifluoromethane	+++++ 0.0532	0.0722 0.0473	0.0481	0.0509	0.0494	Ave		0.0535				17.5		20.0			
Chloromethane	+++++ 0.3008	0.3657 0.2925	0.2982	0.3068	0.3263	Ave		0.3151			0.1000	8.7		20.0			
Vinyl chloride	+++++ 0.3101	0.3878 0.3054	0.3154	0.3117	0.3336	Ave		0.3273			0.1000	9.5		20.0			
Butadiene	0.2995 0.2843	0.3128 0.2827	0.2512	0.2843	0.2953	Ave		0.2872				6.7		20.0			
Bromomethane	+++++ 0.2499	0.3295 0.1897	0.2392	0.2360	0.2512	Ave		0.2493			0.1000	18.2		20.0			
Chloroethane	+++++ 0.1884	0.2300 0.1967	0.1819	0.1881	0.2006	Ave		0.1976			0.1000	8.7		20.0			
Dichlorofluoromethane	+++++ 0.4518	0.4931 0.4481	0.4248	0.4645	0.4872	Ave		0.4616				5.6		20.0			
Trichlorofluoromethane	+++++ 0.4636	0.4757 0.4716	0.3962	0.4608	0.4875	Ave		0.4592			0.1000	7.0		20.0			
Pentane	+++++ 0.0474	0.0789 0.0453	0.0576	0.0481	0.0436	Qua2	0.0652	0.0470	-0.000002						0.9960		0.9900
Ethanol	+++++ 0.0481	0.0740 0.0461	0.0734	0.0675	0.0643	Ave		0.0622				19.7		20.0			
1,2-Dichloro-1,1,2-trifluoroethane	+++++ 0.2748	0.2305 0.2727	0.2066	0.2041	0.2157	Ave		0.2341				13.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Edison Job No.: 460-258307-1 Analy Batch No.: 845946

SDG No.:

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/22/2022 08:51 Calibration End Date: 05/22/2022 11:15 Calibration ID: 90526

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	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								
Ethyl ether	+++++ 0.1794	0.2020 0.1704	0.1666	0.1532	0.1696	Ave		0.1735				9.4		20.0			
2-Methyl-1,3-butadiene	+++++ 0.2173	0.3114 0.2040	0.2152	0.2035	0.2000	Ave		0.2252				19.0		20.0			
1,1,1-Trifluoro-2,2-dichloroethane	+++++ 0.3457	0.2894 0.3426	0.2699	0.2575	0.2763	Ave		0.2969				12.8		20.0			
Acrolein	+++++ 1.1206	1.7402 0.9811	1.1543	1.1096	0.9032	Qua2	2.9829	0.9968	0.0000089						0.9930		0.9900
1,1-Dichloroethene	+++++ 0.2391	0.3128 0.2303	0.2238	0.2094	0.2215	Ave		0.2395			0.1000	15.6		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.2338	0.2756 0.2274	0.2121	0.2139	0.2068	Ave		0.2283			0.1000	11.1		20.0			
Acetone	+++++ 0.1744	0.2565 0.1979	0.2057	0.1765	0.1796	Ave		0.1985			0.0500	15.7		20.0			
Iodomethane	+++++ 0.4917	0.4791 0.4566	0.3954	0.4189	0.4666	Ave		0.4514				8.2		20.0			
Isopropyl alcohol	+++++ 0.5565	0.7583 0.5832	0.6702	0.6113	0.6016	Ave		0.6302				11.6		20.0			
Carbon disulfide	+++++ 0.7879	1.0958 0.7568	0.7730	0.7210	0.7426	Ave		0.8128			0.1000	17.3		20.0			
3-Chloro-1-propene	+++++ 0.1676	0.1359 0.1608	0.1628	0.1472	0.1612	Ave		0.1559				7.7		20.0			
Acetonitrile	+++++ 0.5534	0.8069 +++++	0.7855	0.6659	0.6715	Ave		0.6967				14.7		20.0			
Methyl acetate	+++++ 6.8122	6.6723 6.8595	6.5034	5.6356	6.8199	Ave		6.5505			0.1000	7.1		20.0			
Cyclopentene	+++++ 0.5742	0.7521 0.5636	0.4806	0.4752	0.4661	Ave		0.5520				19.7		20.0			
Methylene Chloride	+++++ 0.2689	0.3863 0.2548	0.2695	0.2590	0.2633	Ave		0.2837			0.1000	17.8		20.0			
2-Methyl-2-propanol	+++++ 0.9275	1.8939 0.9974	1.0619	1.0151	1.0152	QuaF		0.9009	0.0000192						1.0000		0.9900
Acrylonitrile	0.0914 0.0664	0.0628 0.0644	0.0498	0.0549	0.0598	Qua2	0.0723	0.0550	0.0000024						0.9940		0.9900
Methyl tert-butyl ether	+++++ 0.7347	1.0076 0.6909	0.6909	0.6848	0.7303	Ave		0.7565			0.1000	16.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Edison Job No.: 460-258307-1 Analy Batch No.: 845946

SDG No.:

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/22/2022 08:51 Calibration End Date: 05/22/2022 11:15 Calibration ID: 90526

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	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								
trans-1,2-Dichloroethene	+++++ 0.2835	0.3211 0.2740	0.2458	0.2235	0.2434	Ave		0.2652			0.1000	13.2		20.0			
Hexane	+++++ 0.2149	0.2605 0.2081	0.2096	0.2016	0.1921	Ave		0.2145				11.1		20.0			
1,1-Dichloroethane	+++++ 0.4834	0.5123 0.4602	0.4260	0.3896	0.4149	Ave		0.4477			0.2000	10.3		20.0			
Vinyl acetate	+++++ 0.8005	0.9095 0.7880	0.8272	0.7782	0.8433	Ave		0.8245				5.9		20.0			
Isopropyl ether	+++++ 0.8045	0.9744 0.7157	0.8138	0.7604	0.7899	Ave		0.8098				10.9		20.0			
2-Chloro-1,3-butadiene	+++++ 0.2788	0.3320 0.2699	0.2540	0.2502	0.2517	Ave		0.2728				11.4		20.0			
Tert-butyl ethyl ether	+++++ 0.8374	1.0629 0.7800	0.7903	0.7493	0.7962	Ave		0.8360				13.7		20.0			
2,2-Dichloropropane	+++++ 0.0971	0.1415 0.0924	0.0840	0.0861	0.0931	Lin2	0.0501	0.0884							0.9900		0.9900
cis-1,2-Dichloroethene	+++++ 0.3095	0.3601 0.2997	0.2614	0.2436	0.2656	Ave		0.2900			0.1000	14.6		20.0			
2-Butanone (MEK)	+++++ 0.2943	0.4162 0.3197	0.3256	0.3024	0.3178	Ave		0.3293			0.0500	13.4		20.0			
Propionitrile	+++++ 1.5032	1.0718 1.4829	1.9456	1.5142	1.7026	Ave		1.5367				18.8		20.0			
Ethyl acetate	+++++ 0.2980	0.4427 0.3193	0.3647	0.3014	0.3222	Ave		0.3414				16.1		20.0			
Methyl acrylate	+++++ 0.2052	0.1430 0.1977	0.1488	0.1749	0.1974	Ave		0.1778				15.1		20.0			
Methacrylonitrile	+++++ 0.0887	0.0869 0.0833	0.0692	0.0719	0.0812	Ave		0.0802				9.9		20.0			
Chlorobromomethane	+++++ 0.1739	0.1815 0.1717	0.1480	0.1407	0.1594	Ave		0.1625				9.8		20.0			
Tetrahydrofuran	+++++ 0.6355	0.9166 0.7281	0.5938	0.5712	0.6261	Ave		0.6786				18.9		20.0			
Chloroform	+++++ 0.4823	0.5713 0.4618	0.4210	0.3922	0.4281	Ave		0.4595			0.2000	13.8		20.0			
1,1,1-Trichloroethane	+++++ 0.4689	0.5728 0.4441	0.4312	0.4201	0.4390	Ave		0.4627			0.1000	12.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Edison Job No.: 460-258307-1 Analy Batch No.: 845946

SDG No.:

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/22/2022 08:51 Calibration End Date: 05/22/2022 11:15 Calibration ID: 90526

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	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								
Cyclohexane	+++++ 0.3263	0.3910 0.3104	0.3059	0.3021	0.2960	Ave		0.3219			0.1000	11.0		20.0			
Carbon tetrachloride	+++++ 0.4255	0.5366 0.4077	0.4014	0.3773	0.3928	Ave		0.4236			0.1000	13.6		20.0			
1,1-Dichloropropene	+++++ 0.3696	0.4686 0.3433	0.3623	0.3372	0.3500	Ave		0.3718				13.1		20.0			
Isobutyl alcohol	+++++ 0.4751	+++++ 0.4948	0.3659	0.4656	0.5728	Ave		0.4748				15.6		20.0			
Benzene	+++++ 1.1546	1.6728 1.0921	1.3497	1.1999	1.2353	Ave		1.2840			0.5000	16.3		20.0			
1,2-Dichloroethane	+++++ 0.3641	0.4273 0.3388	0.3400	0.3075	0.3397	Ave		0.3529			0.1000	11.5		20.0			
Isooctane	+++++ 0.4700	0.6086 0.4699	0.4374	0.4312	0.4405	Ave		0.4763				14.1		20.0			
Isopropyl acetate	+++++ 0.0890	0.0982 0.0854	0.0611	0.0822	0.0857	Ave		0.0836				14.7		20.0			
Tert-amyl methyl ether	+++++ 0.7903	0.9127 0.7456	0.7846	0.7252	0.7761	Ave		0.7891				8.3		20.0			
n-Heptane	+++++ 0.1811	0.2275 0.1798	0.2003	0.1612	0.1739	Ave		0.1873				12.5		20.0			
Trichloroethene	+++++ 0.2859	0.3789 0.2715	0.2799	0.2611	0.2799	Ave		0.2929			0.2000	14.7		20.0			
n-Butanol	+++++ 0.3042	+++++ 0.3196	+++++	0.1610	0.3179	Ave		0.2757				27.8	*	20.0			
Ethyl acrylate	+++++ 0.2960	+++++ 0.3205	+++++	0.1975	0.2589	Ave		0.2682				20.0		20.0			
Methylcyclohexane	+++++ 0.3011	0.3551 0.2906	0.2733	0.2750	0.2712	Ave		0.2944			0.1000	10.8		20.0			
1,2-Dichloropropane	+++++ 0.2720	0.3459 0.2532	0.2509	0.2502	0.2624	Ave		0.2724			0.1000	13.6		20.0			
Dibromomethane	+++++ 0.1680	0.1737 0.1612	0.1485	0.1427	0.1547	Ave		0.1581				7.4		20.0			
1,4-Dioxane	+++++ 0.9257	1.2906 0.8898	1.5046	0.9869	0.9653	QuaF		0.9544	-0.000006						1.0000		0.9900
Methyl methacrylate	+++++ 0.0751	0.0529 0.0740	0.0643	0.0669	0.0723	Ave		0.0676				12.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Edison Job No.: 460-258307-1 Analy Batch No.: 845946

SDG No.:

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/22/2022 08:51 Calibration End Date: 05/22/2022 11:15 Calibration ID: 90526

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	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								
n-Propyl acetate	+++++ 0.3214	0.3357 0.3001	0.2255	0.2643	0.2986	Ave		0.2909				13.8		20.0			
Dichlorobromomethane	+++++ 0.3938	0.4185 0.3741	0.3640	0.3503	0.3736	Ave		0.3790			0.2000	6.3		20.0			
2-Nitropropane	+++++ 0.0693	0.0910 0.0694	0.0611	0.0570	0.0627	Ave		0.0684				17.6		20.0			
2-Chloroethyl vinyl ether	+++++ 0.1766	0.1386 0.1754	0.1211	0.1342	0.1559	Ave		0.1503				15.2		20.0			
Epichlorohydrin	0.2254 0.2841	0.1998 0.3152	0.3005	0.2496	0.2897	Ave		0.2663				15.9		20.0			
cis-1,3-Dichloropropene	+++++ 0.5171	0.6089 0.4896	0.5175	0.5083	0.5474	Ave		0.5315			0.2000	8.0		20.0			
4-Methyl-2-pentanone (MIBK)	+++++ 2.6501	3.1234 2.7856	2.9281	2.6708	2.9903	Ave		2.8581			0.0500	6.6		20.0			
Toluene	+++++ 1.2750	1.7974 1.2225	1.4737	1.2606	1.3142	Ave		1.3906			0.4000	15.6		20.0			
trans-1,3-Dichloropropene	+++++ 0.4863	0.4497 0.4718	0.5122	0.4648	0.5067	Ave		0.4819			0.1000	5.1		20.0			
Ethyl methacrylate	+++++ 0.3566	0.3108 0.3527	0.2779	0.3230	0.3667	Ave		0.3313				10.2		20.0			
1,1,2-Trichloroethane	+++++ 0.2159	0.2895 0.2090	0.2486	0.2157	0.2368	Ave		0.2359			0.1000	12.8		20.0			
Tetrachloroethene	+++++ 0.3626	0.4429 0.3600	0.3859	0.3475	0.3642	Ave		0.3772			0.2000	9.1		20.0			
1,3-Dichloropropane	+++++ 0.4563	0.5952 0.4288	0.4993	0.4561	0.4852	Ave		0.4868				12.0		20.0			
2-Hexanone	+++++ 1.7531	0.7436 1.9736	1.3073	1.7009	1.9300	Qua2	-5.062	1.7182	0.0001010		0.0500				0.9940		0.9900
Chlorodibromomethane	+++++ 0.3767	0.4148 0.3770	0.3452	0.3349	0.3820	Ave		0.3718			0.1000	7.7		20.0			
Ethylene Dibromide	+++++ 0.3000	0.3977 0.2921	0.2958	0.2952	0.3105	Ave		0.3152			0.1000	13.0		20.0			
n-Butyl acetate	+++++ 0.3683	0.0653 0.3626	0.2747	0.3018	0.3587	Qua2	-0.276	0.3390	0.0000646						0.9970		0.9900
Chlorobenzene	+++++ 0.9069	1.1765 0.8947	1.0218	0.8798	0.9315	Ave		0.9685			0.5000	11.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Edison Job No.: 460-258307-1 Analy Batch No.: 845946

SDG No.:

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/22/2022 08:51 Calibration End Date: 05/22/2022 11:15 Calibration ID: 90526

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	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								
1,1,1,2-Tetrachloroethane	+++++ 0.3618	0.4783 0.3598	0.3692	0.3363	0.3665	Ave		0.3787				13.3		20.0			
Ethylbenzene	+++++ 0.4498	0.5813 0.4515	0.4723	0.4325	0.4631	Ave		0.4751			0.1000	11.3		20.0			
m-Xylene & p-Xylene	+++++ 0.5679	0.7475 0.5762	0.5798	0.5463	0.5843	Ave		0.6003			0.1000	12.2		20.0			
o-Xylene	+++++ 0.5703	0.6758 0.5845	0.6069	0.5331	0.5744	Ave		0.5908			0.3000	8.1		20.0			
Styrene	+++++ 1.0178	1.0290 1.0184	1.0280	0.9425	1.0317	Ave		1.0112			0.3000	3.4		20.0			
n-Butyl acrylate	+++++ 0.2159	+++++ 0.2238	0.1426	0.1814	0.2074	Ave		0.1942				17.0		20.0			
Bromoform	+++++ 0.3035	0.2687 0.3235	0.2411	0.2469	0.2849	Ave		0.2781			0.1000	11.6		20.0			
Amyl acetate (mixed isomers)	+++++ 0.7051	+++++ 0.7081	0.4532	0.6382	0.7140	Ave		0.6437				17.2		20.0			
Isopropylbenzene	+++++ 1.2502	1.6177 1.2417	1.2765	1.1834	1.2295	Ave		1.2998			0.1000	12.2		20.0			
Bromobenzene	+++++ 0.6987	0.8526 0.7225	0.7429	0.6819	0.7254	Ave		0.7373				8.2		20.0			
1,1,2,2-Tetrachloroethane	+++++ 0.5063	0.8932 0.5160	0.5977	0.5141	0.5448	Qua2	0.3783	0.5156	-0.000006		0.3000				0.9990		0.9900
1,2,3-Trichloropropane	+++++ 0.3835	0.6457 0.3892	0.3840	0.3987	0.4151	QuaF		0.3848	0.0000085						1.0000		0.9900
trans-1,4-Dichloro-2-butene	+++++ 0.2252	0.2172 0.2201	0.2342	0.2036	0.2347	Ave		0.2225				5.3		20.0			
N-Propylbenzene	+++++ 1.9026	2.4587 1.8705	2.1674	1.9369	1.9950	Ave		2.0552				10.9		20.0			
2-Chlorotoluene	+++++ 1.4071	2.2950 1.2935	1.6320	1.3797	1.5261	Qua2	0.8506	1.4449	-0.000286						0.9980		0.9900
4-Ethyltoluene	+++++ 1.7503	2.3810 1.7211	1.9227	1.7743	1.8251	Ave		1.8958				13.1		20.0			
4-Chlorotoluene	+++++ 1.2593	1.9110 1.2218	1.7983	1.5974	1.3224	Ave		1.5184				19.4		20.0			
1,3,5-Trimethylbenzene	+++++ 1.3875	1.9734 1.3375	1.5701	1.4247	1.4994	Ave		1.5321				15.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Edison Job No.: 460-258307-1 Analy Batch No.: 845946

SDG No.:

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/22/2022 08:51 Calibration End Date: 05/22/2022 11:15 Calibration ID: 90526

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	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								
Butyl Methacrylate	+++++ 0.6455	0.5135 0.6685	0.5557	0.5670	0.6473	Ave		0.5996				10.4		20.0			
tert-Butylbenzene	+++++ 1.2956	1.7702 1.3055	1.4181	1.2748	1.3382	Ave		1.4004				13.4		20.0			
1,2,4-Trimethylbenzene	+++++ 1.4336	1.9739 1.3825	1.5958	1.4685	1.5301	Ave		1.5641				13.7		20.0			
sec-Butylbenzene	+++++ 1.6809	2.2907 1.6896	1.8000	1.6470	1.7318	Ave		1.8067				13.4		20.0			
1,3-Dichlorobenzene	+++++ 1.1235	1.4867 1.1275	1.2092	1.1119	1.1874	Ave		1.2077			0.6000	11.8		20.0			
1,4-Dichlorobenzene	+++++ 1.1693	1.6185 1.1559	1.3868	1.2098	1.2484	Ave		1.2981			0.5000	13.7		20.0			
4-Isopropyltoluene	+++++ 1.4606	1.9597 1.4212	1.6320	1.4703	1.5526	Ave		1.5827				12.6		20.0			
1,2,3-Trimethylbenzene	+++++ 1.5419	2.1221 1.4620	1.6940	1.5718	1.6046	Ave		1.6661				14.2		20.0			
Benzyl chloride	+++++ 0.2564	0.2849 0.2649	0.2179	0.2305	0.2598	Ave		0.2524				9.6		20.0			
Indan	+++++ 1.8433	2.5570 1.7623	2.1070	1.9186	1.9865	Ave		2.0291				14.0		20.0			
1,2-Dichlorobenzene	+++++ 1.1456	1.3092 1.1211	1.3286	1.1260	1.2517	Ave		1.2137			0.4000	7.8		20.0			
p-Diethylbenzene	+++++ 0.7438	0.9375 0.7188	0.7993	0.7360	0.7690	Ave		0.7841				10.2		20.0			
n-Butylbenzene	+++++ 0.6037	0.7549 0.5799	0.6887	0.6206	0.6705	Ave		0.6531				9.9		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1528	0.1581 0.1613	0.1436	0.1408	0.1596	Ave		0.1527			0.0500	5.7		20.0			
1,2,4,5-Tetramethylbenzene	+++++ 0.9120	1.0439 0.9130	0.9748	0.8462	0.9291	Ave		0.9365				7.1		20.0			
1,3,5-Trichlorobenzene	+++++ 0.5951	0.6979 0.5907	0.6501	0.5814	0.6124	Ave		0.6213				7.2		20.0			
1,2,4-Trichlorobenzene	+++++ 0.5340	0.6271 0.5446	0.5103	0.5278	0.5667	Ave		0.5517			0.2000	7.5		20.0			
Hexachlorobutadiene	+++++ 0.3250	0.4879 0.3126	0.3305	0.3061	0.3229	Ave		0.3475				20.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Edison Job No.: 460-258307-1 Analy Batch No.: 845946

SDG No.:

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/22/2022 08:51 Calibration End Date: 05/22/2022 11:15 Calibration ID: 90526

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	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								
Naphthalene	+++++ 1.0014	1.4158 1.0455	0.9595	0.9549	1.1043	Ave		1.0802				16.1		20.0			
1,2,3-Trichlorobenzene	+++++ 0.4744	0.5668 0.4564	0.4531	0.4409	0.4765	Ave		0.4780				9.5		20.0			
Dibromofluoromethane (Surr)	0.2607 0.3192	0.2483 0.3055	0.2424	0.2467	0.2628	Ave		0.2694				11.3		20.0			
1,2-Dichloroethane-d4 (Surr)	0.2756 0.3157	0.2647 0.3015	0.2587	0.2591	0.2650	Ave		0.2772				8.1		20.0			
Toluene-d8 (Surr)	1.2600 1.2307	1.2603 1.1796	1.2451	1.2008	1.2270	Ave		1.2291				2.5		20.0			
4-Bromofluorobenzene	0.4563 0.5045	0.4651 0.5087	0.4826	0.4513	0.4714	Ave		0.4771				4.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Edison | Job No.: 460-258307-1 | Analy Batch No.: 845946

SDG No.:

Instrument ID: CVOAMS12 | GC Column: DB-624 | ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 05/22/2022 08:51 | Calibration End Date: 05/22/2022 11:15 | Calibration ID: 90526

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD7 460-845946/3	O76985.d
Level 2	STD1 460-845946/4	O76986.d
Level 3	STD5 460-845946/5	O76987.d
Level 4	STD20 460-845946/6	O76988.d
Level 5	STD50 460-845946/7	O76989.d
Level 6	STD200 460-845946/8	O76990.d
Level 7	STD500 460-845946/9	O76991.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
Chlorotrifluoroethene	BUT	Ave	+++++ 256072	1175 654079	4784	20200	61140	+++++ 200	1.00 500	5.00	20.0	50.0
Dichlorodifluoromethane	FB	Ave	+++++ 869830	3663 2346628	18404	84239	229587	+++++ 200	1.00 500	5.00	20.0	50.0
Chlorodifluoromethane	FB	Ave	+++++ 125073	861 309516	2878	12838	30770	+++++ 200	1.00 500	5.00	20.0	50.0
Chloromethane	FB	Ave	+++++ 707029	4363 1912458	17852	77350	203443	+++++ 200	1.00 500	5.00	20.0	50.0
Vinyl chloride	FB	Ave	+++++ 728778	4626 1996498	18878	78602	207981	+++++ 200	1.00 500	5.00	20.0	50.0
Butadiene	FB	Ave	855 668261	3732 1848251	15038	71683	184100	0.250 200	1.00 500	5.00	20.0	50.0
Bromomethane	FB	Ave	+++++ 587407	3931 1240181	14316	59518	156614	+++++ 200	1.00 500	5.00	20.0	50.0
Chloroethane	FB	Ave	+++++ 442735	2744 1285714	10891	47435	125059	+++++ 200	1.00 500	5.00	20.0	50.0
Dichlorofluoromethane	FB	Ave	+++++ 1061871	5882 2929616	25429	117135	303772	+++++ 200	1.00 500	5.00	20.0	50.0
Trichlorofluoromethane	FB	Ave	+++++ 1089657	5675 3083093	23716	116198	303959	+++++ 200	1.00 500	5.00	20.0	50.0
Pentane	FB	Qua2	+++++ 222907	1882 592863	6898	24266	54355	+++++ 400	2.00 1000	10.0	40.0	100
Ethanol	TBAd9	Ave	+++++ 74131	390 209573	1764	8032	20667	+++++ 8000	40.0 20000	200	800	2000
1,2-Dichloro-1,1,2-trifluoroethane	FB	Ave	+++++ 645821	2750 1782923	12370	51470	134506	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl ether	FB	Ave	+++++ 421737	2410 1114270	9975	38624	105727	+++++ 200	1.00 500	5.00	20.0	50.0
2-Methyl-1,3-butadiene	FB	Ave	+++++ 510693	3715 1333366	12882	51322	124724	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,1-Trifluoro-2,2-dichloroethane	FB	Ave	+++++	3452	16157	64924	172291	+++++	1.00	5.00	20.0	50.0

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

Lab Name: Eurofins Edison Job No.: 460-258307-1 Analy Batch No.: 845946

SDG No.:

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/22/2022 08:51 Calibration End Date: 05/22/2022 11:15 Calibration ID: 90526

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
			812476	2239489				200	500			
Acrolein	TBAd9	Qua2	+++++ 43145	917 89227	2775	6599	14521	+++++ 200	4.00 400	20.0	40.0	100
1,1-Dichloroethene	FB	Ave	+++++ 561849	3732 1505383	13398	52790	138133	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 549565	3288 1486340	12694	53933	128952	+++++ 200	1.00 500	5.00	20.0	50.0
Acetone	BUT	Ave	+++++ 161441	901 456000	3374	14581	38727	+++++ 1000	5.00 2500	25.0	100	250
Iodomethane	FB	Ave	+++++ 1155709	5715 2985038	23671	105625	290903	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl alcohol	TBAd9	Ave	+++++ 214275	999 663020	4028	18178	48363	+++++ 2000	10.0 5000	50.0	200	500
Carbon disulfide	FB	Ave	+++++ 1851813	13072 4947659	46272	181810	462978	+++++ 200	1.00 500	5.00	20.0	50.0
3-Chloro-1-propene	FB	Ave	+++++ 393859	1621 1051237	9747	37121	100513	+++++ 200	1.00 500	5.00	20.0	50.0
Acetonitrile	TBAd9	Ave	+++++ 213081	1063 +++++	4721	19802	53983	+++++ 2000	10.0 +++++	50.0	200	500
Methyl acetate	TBAd9	Ave	+++++ 524567	1758 1559628	7817	33516	109645	+++++ 400	2.00 1000	10.0	40.0	100
Cyclopentene	FB	Ave	+++++ 1349500	8972 3684788	28770	119836	290619	+++++ 200	1.00 500	5.00	20.0	50.0
Methylene Chloride	FB	Ave	+++++ 632071	4609 1665537	16133	65311	164189	+++++ 200	1.00 500	5.00	20.0	50.0
2-Methyl-2-propanol	TBAd9	QuaF	+++++ 357093	2495 1133885	6382	30186	81608	+++++ 2000	10.0 5000	50.0	200	500
Acrylonitrile	FB	Qua2	2087 1559786	7495 4207265	29803	138555	373094	2.00 2000	10.0 5000	50.0	200	500
Methyl tert-butyl ether	FB	Ave	+++++ 1726764	12020 4516676	41356	172680	455309	+++++ 200	1.00 500	5.00	20.0	50.0
trans-1,2-Dichloroethene	FB	Ave	+++++ 666286	3831 1791610	14716	56355	151755	+++++ 200	1.00 500	5.00	20.0	50.0
Hexane	FB	Ave	+++++ 505073	3108 1360702	12548	50841	119775	+++++ 200	1.00 500	5.00	20.0	50.0
1,1-Dichloroethane	FB	Ave	+++++ 1136061	6112 3008329	25501	98228	258674	+++++ 200	1.00 500	5.00	20.0	50.0
Vinyl acetate	BUT	Ave	+++++ 296343	1278 726160	5427	25715	72722	+++++ 400	2.00 1000	10.0	40.0	100
Isopropyl ether	FB	Ave	+++++	11624	48714	191740	492525	+++++	1.00	5.00	20.0	50.0

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

Lab Name: Eurofins Edison Job No.: 460-258307-1 Analy Batch No.: 845946

SDG No.:

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/22/2022 08:51 Calibration End Date: 05/22/2022 11:15 Calibration ID: 90526

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
			1890779	4678950				200	500			
2-Chloro-1,3-butadiene	FB	Ave	+++++ 655177	3961 1764533	15202	63096	156958	+++++ 200	1.00 500	5.00	20.0	50.0
Tert-butyl ethyl ether	FB	Ave	+++++ 1968157	12680 5099191	47311	188933	496394	+++++ 200	1.00 500	5.00	20.0	50.0
2,2-Dichloropropane	FB	Lin2	+++++ 228273	1688 604161	5029	21701	58026	+++++ 200	1.00 500	5.00	20.0	50.0
cis-1,2-Dichloroethene	FB	Ave	+++++ 727492	4296 1959277	15647	61418	165580	+++++ 200	1.00 500	5.00	20.0	50.0
2-Butanone (MEK)	BUT	Ave	+++++ 272352	1462 736581	5341	24981	68507	+++++ 1000	5.00 2500	25.0	100	250
Propionitrile	TBAd9	Ave	+++++ 578772	1412 1685789	11693	45027	136868	+++++ 2000	10.0 5000	50.0	200	500
Ethyl acetate	BUT	Ave	+++++ 110335	622 294267	2393	9961	27788	+++++ 400	2.00 1000	10.0	40.0	100
Methyl acrylate	FB	Ave	+++++ 482180	1706 1292783	8910	44097	123085	+++++ 200	1.00 500	5.00	20.0	50.0
Methacrylonitrile	FB	Ave	+++++ 2084719	10363 5443624	41418	181389	506131	+++++ 2000	10.0 5000	50.0	200	500
Chlorobromomethane	FB	Ave	+++++ 408755	2165 1122184	8862	35469	99358	+++++ 200	1.00 500	5.00	20.0	50.0
Tetrahydrofuran	BUT	Ave	+++++ 235274	1288 670894	3896	18876	53989	+++++ 400	2.00 1000	10.0	40.0	100
Chloroform	FB	Ave	+++++ 1133500	6816 3019212	25203	98906	266927	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	+++++ 1101992	6833 2903392	25811	105938	273733	+++++ 200	1.00 500	5.00	20.0	50.0
Cyclohexane	FB	Ave	+++++ 766873	4664 2029013	18311	76168	184538	+++++ 200	1.00 500	5.00	20.0	50.0
Carbon tetrachloride	FB	Ave	+++++ 1000112	6402 2665279	24029	95145	244879	+++++ 200	1.00 500	5.00	20.0	50.0
1,1-Dichloropropene	FB	Ave	+++++ 868574	5590 2244299	21687	85023	218244	+++++ 200	1.00 500	5.00	20.0	50.0
Isobutyl alcohol	TBAd9	Ave	+++++ 457270	+++++ 1406132	5498	34616	115111	+++++ 5000	+++++ 12500	125	500	1250
Benzene	CBNZd5	Ave	+++++ 2564372	16346 6702618	64229	254365	657838	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloroethane	FB	Ave	+++++ 855760	5098 2214659	20353	77533	211815	+++++ 200	1.00 500	5.00	20.0	50.0
Isooctane	FB	Ave	+++++	7261	26184	108731	274635	+++++	1.00	5.00	20.0	50.0

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

Lab Name: Eurofins Edison | Job No.: 460-258307-1 | Analy Batch No.: 845946

SDG No.:

Instrument ID: CVOAMS12 | GC Column: DB-624 | ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 05/22/2022 08:51 | Calibration End Date: 05/22/2022 11:15 | Calibration ID: 90526

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
			1104685	3072250				200	500			
Isopropyl acetate	FB	Ave	+++++ 209059	1171 558515	3657	20739	53456	+++++ 200	1.00 500	5.00	20.0	50.0
Tert-amyl methyl ether	FB	Ave	+++++ 1857315	10888 4874226	46970	182852	483861	+++++ 200	1.00 500	5.00	20.0	50.0
n-Heptane	FB	Ave	+++++ 425520	2714 1175186	11992	40659	108436	+++++ 200	1.00 500	5.00	20.0	50.0
Trichloroethene	FB	Ave	+++++ 671877	4520 1774734	16754	65832	174539	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butanol	TBAd9	Ave	+++++ 292787	+++++ 908274	+++++	11968	63879	+++++ 5000	+++++ 12500	+++++	500	1250
Ethyl acrylate	FB	Ave	+++++ 695650	+++++ 2095610	+++++	49798	161392	+++++ 200	+++++ 500	+++++	20.0	50.0
Methylcyclohexane	FB	Ave	+++++ 707610	4236 1900061	16361	69336	169105	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloropropane	FB	Ave	+++++ 639165	4127 1654998	15020	63095	163615	+++++ 200	1.00 500	5.00	20.0	50.0
Dibromomethane	FB	Ave	+++++ 394763	2072 1053609	8889	35970	96423	+++++ 200	1.00 500	5.00	20.0	50.0
1,4-Dioxane	DXE	QuaF	+++++ 122094	1571 355890	3678	11564	31692	+++++ 4000	50.0 10000	100	400	1000
Methyl methacrylate	FB	Ave	+++++ 353115	1262 967204	7701	33761	90183	+++++ 400	2.00 1000	10.0	40.0	100
n-Propyl acetate	FB	Ave	+++++ 755344	4005 1961979	13501	66640	186156	+++++ 200	1.00 500	5.00	20.0	50.0
Dichlorobromomethane	FB	Ave	+++++ 925490	4993 2445650	21791	88322	232930	+++++ 200	1.00 500	5.00	20.0	50.0
2-Nitropropane	FB	Ave	+++++ 325534	2171 908033	7313	28758	78229	+++++ 400	2.00 1000	10.0	40.0	100
2-Chloroethyl vinyl ether	FB	Ave	+++++ 416133	1658 1149496	7269	33922	97454	+++++ 200	1.00 501	5.01	20.0	50.1
Epichlorohydrin	BUT	Ave	790 1051725	2807 2904850	19714	82465	249809	5.00 4000	20.0 10000	100	400	1000
cis-1,3-Dichloropropene	CBNZd5	Ave	+++++ 1148452	5950 3005198	24627	107757	291528	+++++ 200	1.00 500	5.00	20.0	50.0
4-Methyl-2-pentanone (MIBK)	BUT	Ave	+++++ 2452655	10972 6417326	48029	220643	644661	+++++ 1000	5.00 2500	25.0	100	250
Toluene	CBNZd5	Ave	+++++ 2831886	17563 7503032	70132	267220	699876	+++++ 200	1.00 500	5.00	20.0	50.0

Lab Name: Eurofins Edison | Job No.: 460-258307-1 | Analy Batch No.: 845946

SDG No.:

Instrument ID: CVOAMS12 | GC Column: DB-624 | ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 05/22/2022 08:51 | Calibration End Date: 05/22/2022 11:15 | Calibration ID: 90526

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
trans-1,3-Dichloropropene	CBNZd5	Ave	+++++ 1080080	4394 2895390	24375	98540	269844	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl methacrylate	CBNZd5	Ave	+++++ 792146	3037 2164784	13223	68461	195294	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,2-Trichloroethane	CBNZd5	Ave	+++++ 479477	2829 1282719	11832	45722	126129	+++++ 200	1.00 500	5.00	20.0	50.0
Tetrachloroethene	CBNZd5	Ave	+++++ 805393	4328 2209335	18366	73670	193975	+++++ 200	1.00 500	5.00	20.0	50.0
1,3-Dichloropropane	CBNZd5	Ave	+++++ 1013407	5816 2631725	23763	96677	258409	+++++ 200	1.00 500	5.00	20.0	50.0
2-Hexanone	BUT	Qua2	+++++ 1622454	2612 4546552	21444	140513	416081	+++++ 1000	5.00 2500	25.0	100	250
Chlorodibromomethane	CBNZd5	Ave	+++++ 836748	4053 2313898	16430	70995	203418	+++++ 200	1.00 500	5.00	20.0	50.0
Ethylene Dibromide	CBNZd5	Ave	+++++ 666269	3886 1793003	14078	62573	165342	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butyl acetate	CBNZd5	Qua2	+++++ 817988	638 2225187	13072	63967	191026	+++++ 200	1.00 500	5.00	20.0	50.0
Chlorobenzene	CBNZd5	Ave	+++++ 2014371	11496 5491276	48628	186495	496090	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,1,2-Tetrachloroethane	CBNZd5	Ave	+++++ 803603	4674 2208248	17570	71293	195199	+++++ 200	1.00 500	5.00	20.0	50.0
Ethylbenzene	CBNZd5	Ave	+++++ 999065	5680 2771248	22476	91680	246639	+++++ 200	1.00 500	5.00	20.0	50.0
m-Xylene & p-Xylene	CBNZd5	Ave	+++++ 1261323	7304 3536690	27590	115802	311176	+++++ 200	1.00 500	5.00	20.0	50.0
o-Xylene	CBNZd5	Ave	+++++ 1266621	6604 3587554	28880	113012	305913	+++++ 200	1.00 500	5.00	20.0	50.0
Styrene	CBNZd5	Ave	+++++	10055	48921	199788	549409	+++++	1.00	5.00	20.0	50.0

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

Lab Name: Eurofins Edison | Job No.: 460-258307-1 | Analy Batch No.: 845946

SDG No.:

Instrument ID: CVOAMS12 | GC Column: DB-624 | ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 05/22/2022 08:51 | Calibration End Date: 05/22/2022 11:15 | Calibration ID: 90526

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
			2260518	6250419				200	500			
n-Butyl acrylate	CBNZd5	Ave	+++++ 479486	+++++ 1373761	6784	38462	110455	+++++ 200	+++++ 500	5.00	20.0	50.0
Bromoform	CBNZd5	Ave	+++++ 674130	2626 1985476	11472	52329	151711	+++++ 200	1.00 500	5.00	20.0	50.0
Amyl acetate (mixed isomers)	DCBd4	Ave	+++++ 1056359	+++++ 2884798	13693	85617	246786	+++++ 200	+++++ 500	5.00	20.0	50.0
Isopropylbenzene	CBNZd5	Ave	+++++ 2776826	15807 7620764	60748	250858	654746	+++++ 200	1.00 500	5.00	20.0	50.0
Bromobenzene	DCBd4	Ave	+++++ 1046750	5177 2943415	22447	91486	250724	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,2,2-Tetrachloroethane	DCBd4	Qua2	+++++ 758507	5424 2102091	18060	68968	188313	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trichloropropane	DCBd4	QuaF	+++++ 574478	3921 1585664	11602	53492	143489	+++++ 200	1.00 500	5.00	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd4	Ave	+++++ 337370	1319 896759	7076	27318	81137	+++++ 200	1.00 500	5.00	20.0	50.0
N-Propylbenzene	DCBd4	Ave	+++++ 2850346	14930 7620329	65492	259855	689552	+++++ 200	1.00 500	5.00	20.0	50.0
2-Chlorotoluene	DCBd4	Qua2	+++++ 2107994	13936 5269580	49314	185105	527482	+++++ 200	1.00 500	5.00	20.0	50.0
4-Ethyltoluene	DCBd4	Ave	+++++ 2622188	14458 7011819	58098	238042	630830	+++++ 200	1.00 500	5.00	20.0	50.0
4-Chlorotoluene	DCBd4	Ave	+++++ 1886556	11604 4977813	54339	214311	457057	+++++ 200	1.00 500	5.00	20.0	50.0
1,3,5-Trimethylbenzene	DCBd4	Ave	+++++ 2078594	11983 5448946	47444	191144	518233	+++++ 200	1.00 500	5.00	20.0	50.0
Butyl Methacrylate	DCBd4	Ave	+++++ 966983	3118 2723334	16792	76064	223733	+++++ 200	1.00 500	5.00	20.0	50.0
tert-Butylbenzene	DCBd4	Ave	+++++ 1940960	10749 5318668	42849	171034	462536	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4-Trimethylbenzene	DCBd4	Ave	+++++ 2147735	11986 5632278	48221	197016	528846	+++++ 200	1.00 500	5.00	20.0	50.0
sec-Butylbenzene	DCBd4	Ave	+++++ 2518223	13910 6883390	54391	220957	598561	+++++ 200	1.00 500	5.00	20.0	50.0
1,3-Dichlorobenzene	DCBd4	Ave	+++++ 1683112	9028 4593622	36537	149173	410408	+++++ 200	1.00 500	5.00	20.0	50.0
1,4-Dichlorobenzene	DCBd4	Ave	+++++ 1751688	9828 4709187	41905	162306	431500	+++++ 200	1.00 500	5.00	20.0	50.0

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

Lab Name: Eurofins Edison | Job No.: 460-258307-1 | Analy Batch No.: 845946

SDG No.:

Instrument ID: CVOAMS12 | GC Column: DB-624 | ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 05/22/2022 08:51 | Calibration End Date: 05/22/2022 11:15 | Calibration ID: 90526

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
4-Isopropyltoluene	DCBd4	Ave	+++++ 2188100	11900 5789965	49314	197262	536641	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trimethylbenzene	DCBd4	Ave	+++++ 2310023	12886 5956152	51188	210871	554604	+++++ 200	1.00 500	5.00	20.0	50.0
Benzyl chloride	DCBd4	Ave	+++++ 384165	1730 1079290	6584	30919	89809	+++++ 200	1.00 500	5.00	20.0	50.0
Indan	DCBd4	Ave	+++++ 2761527	15527 7179501	63665	257401	686615	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichlorobenzene	DCBd4	Ave	+++++ 1716291	7950 4567259	40146	151065	432620	+++++ 200	1.00 500	5.00	20.0	50.0
p-Diethylbenzene	DCBd4	Ave	+++++ 1114284	5693 2928488	24153	98743	265798	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butylbenzene	DCBd4	Ave	+++++ 904360	4584 2362692	20810	83267	231758	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	+++++ 228937	960 657309	4338	18896	55158	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4,5-Tetramethylbenzene	DCBd4	Ave	+++++ 1366299	6339 3719660	29456	113526	321120	+++++ 200	1.00 500	5.00	20.0	50.0
1,3,5-Trichlorobenzene	DCBd4	Ave	+++++ 891462	4238 2406486	19643	77998	211677	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4-Trichlorobenzene	DCBd4	Ave	+++++ 799943	3808 2218620	15420	70804	195887	+++++ 200	1.00 500	5.00	20.0	50.0
Hexachlorobutadiene	DCBd4	Ave	+++++ 486906	2963 1273683	9987	41065	111614	+++++ 200	1.00 500	5.00	20.0	50.0
Naphthalene	DCBd4	Ave	+++++ 1500213	8597 4259406	28992	128110	381698	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trichlorobenzene	DCBd4	Ave	+++++ 710663	3442 1859319	13692	59152	164708	+++++ 200	1.00 500	5.00	20.0	50.0
Dibromofluoromethane (Surr)	FB	Ave	148868 187547	148120 199721	145117	155505	163869	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	157391 185503	157889 197078	154839	163330	165254	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBNZd5	Ave	615060 683370	615764 723997	592535	636382	653414	50.0 50.0	50.0 50.0	50.0	50.0	50.0
4-Bromofluorobenzene	CBNZd5	Ave	222757 280157	227247 312189	229670	239194	251049	50.0 50.0	50.0 50.0	50.0	50.0	50.0

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

Lab Name: Eurofins Edison | Job No.: 460-258307-1 | Analy Batch No.: 845946

SDG No.:

Instrument ID: CVOAMS12 | GC Column: DB-624 | ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 05/22/2022 08:51 | Calibration End Date: 05/22/2022 11:15 | Calibration ID: 90526

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua2 = Quadratic 1/conc^2 ISTD
QuaF = Quadratic ISTD forced zero

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\O76985.d
Lims ID: STD7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 22-May-2022 08:51:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD7
Misc. Info.: 460-0145591-003
Operator ID: Instrument ID: CVOAMS12
Sublist: chrom-8260W_12*sub26

Method: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\8260W_12.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 23-May-2022 16:59:57 Calib Date: 22-May-2022 11:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\O76991.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: boykink Date: 22-May-2022 14:13:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Butadiene	54	1.073	1.073	0.000	20	855	0.2500	0.2607	M
* 31 TBA-d9 (IS)	65	2.043	2.043	0.000	98	131898	1000.0	1000.0	
33 Acrylonitrile	53	2.237	2.180	0.057	61	2087	2.00	2.01	M
* 43 2-Butanone-d5	46	2.911	2.911	0.000	100	175235	250.0	250.0	
$ 53 Dibromofluoromethane (Surr)	113	3.345	3.345	0.000	98	148868	50.0	48.4	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	3.641	3.642	-0.001	0	157391	50.0	49.7	
* 65 Fluorobenzene	96	3.973	3.973	-0.001	99	571010	50.0	50.0	
* 72 1,4-Dioxane-d8	96	4.680	4.669	0.011	0	28077	1000.0	1000.0	
80 Epichlorohydrin	57	5.320	5.297	0.023	40	790	5.00	4.23	a
$ 83 Toluene-d8 (Surr)	98	5.719	5.719	0.000	99	615060	50.0	51.3	
* 94 Chlorobenzene-d5	117	7.649	7.649	0.000	85	488149	50.0	50.0	
$ 105 4-Bromofluorobenzene	174	9.475	9.476	-0.001	96	222757	50.0	47.8	
* 120 1,4-Dichlorobenzene-d4	152	11.325	11.314	0.011	94	311486	50.0	50.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

8260SURR250_00226	Amount Added:	1.00	Units: uL	
MIX 2 Hi_00123	Amount Added:	0.00	Units: uL	
8260MIX1COMB_00154	Amount Added:	0.00	Units: uL	
ACROLEIN W_00140	Amount Added:	0.00	Units: uL	
GASES Li_00476	Amount Added:	2.50	Units: uL	
524freon_00052	Amount Added:	0.00	Units: uL	
GAS Hi_00414	Amount Added:	0.00	Units: uL	
ACRY/EPIH MIX_00100	Amount Added:	20.00	Units: uL	
Ethanol mix_00064	Amount Added:	0.00	Units: uL	
8FreonHi_00044	Amount Added:	0.00	Units: uL	
14DIOXINTER_00141	Amount Added:	0.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent

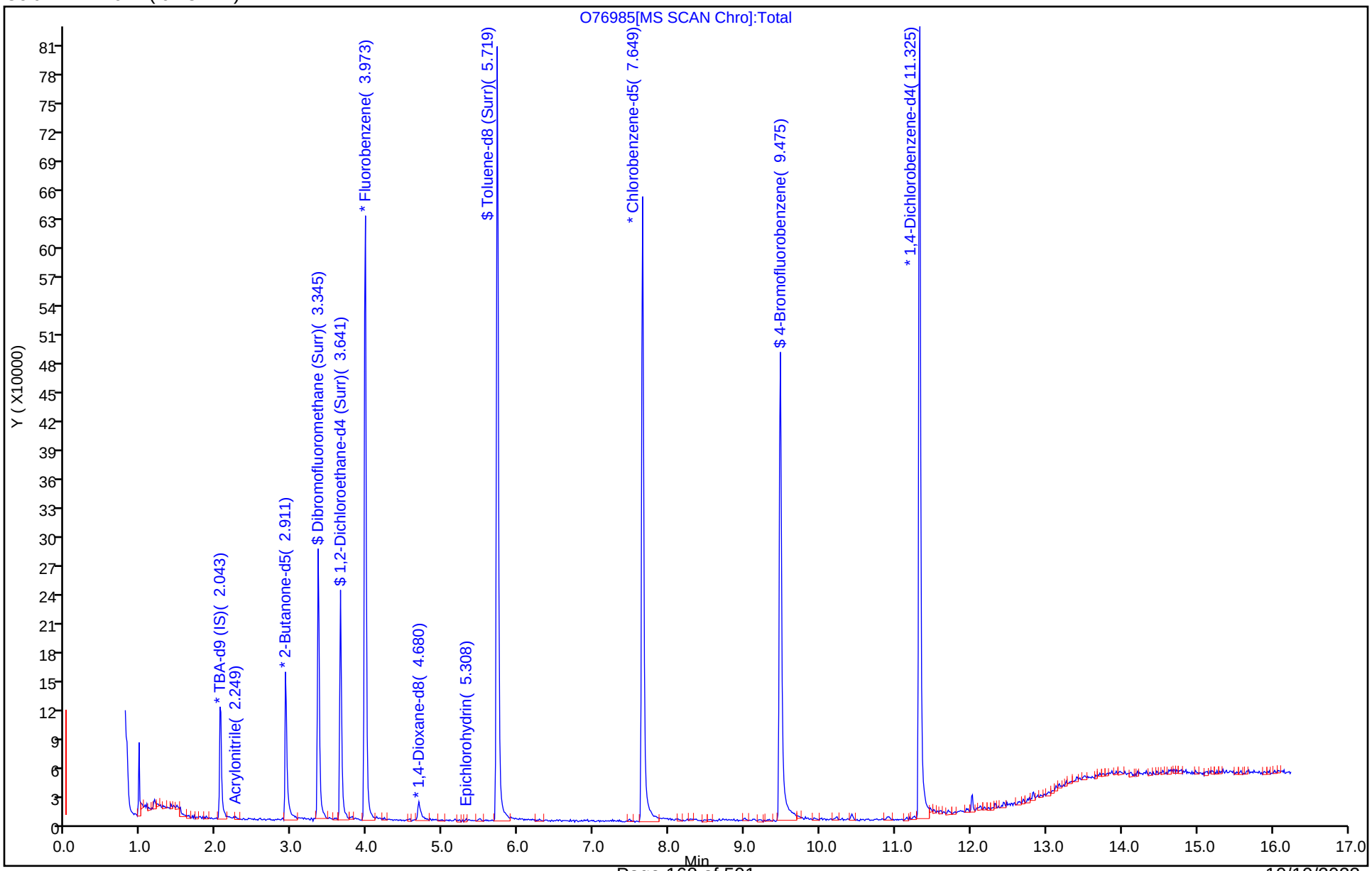
Report Date: 23-May-2022 16:59:57 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\O76985.d

Injection Date:	22-May-2022 08:51:30	Instrument ID:	CVOAMS12	Operator ID:	
Lims ID:	STD7			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260W_12	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



10/10/2023
12:43 PM

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\O76986.d
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 22-May-2022 09:15:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD1
Misc. Info.: 460-0145591-004
Operator ID: Instrument ID: CVOAMS12
Sublist: chrom-8260W_12*sub26

Method: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\8260W_12.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 23-May-2022 17:00:09 Calib Date: 22-May-2022 11:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\O76991.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: boykink Date: 22-May-2022 14:17:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116	0.879	0.879	-0.001	55	1175	1.00	1.17	
3 Dichlorodifluoromethane	85	0.890	0.890	0.000	97	3663	1.00	0.9005	
5 Chlorodifluoromethane	67	0.901	0.902	-0.001	90	861	1.00	1.35	
6 Chloromethane	50	0.993	1.004	-0.011	97	4363	1.00	1.16	
7 Vinyl chloride	62	1.050	1.050	0.000	95	4626	1.00	1.18	
8 Butadiene	54	1.073	1.073	0.000	91	3732	1.00	1.09	
9 Bromomethane	94	1.232	1.233	-0.001	98	3931	1.00	1.32	
10 Chloroethane	64	1.290	1.290	0.000	94	2744	1.00	1.16	
11 Dichlorofluoromethane	67	1.392	1.392	0.000	96	5882	1.00	1.07	
12 Trichlorofluoromethane	101	1.427	1.427	0.000	98	5675	1.00	1.04	
13 Pentane	57	1.484	1.472	0.012	95	1882	2.00	1.97	M
14 Ethanol	46	1.541	1.529	0.012	51	390	40.0	47.6	
15 Ethyl ether	59	1.598	1.598	0.000	85	2410	1.00	1.16	
16 1,2-Dichloro-1,1,2-trifluoroetha	117	1.598	1.598	0.000	79	2750	1.00	0.9847	
17 2-Methyl-1,3-butadiene	53	1.609	1.609	0.000	95	3715	1.00	1.38	M
18 1,1,1-Trifluoro-2,2-dichloroetha	83	1.632	1.632	0.000	92	3452	1.00	0.9746	
19 Acrolein	56	1.678	1.666	0.012	72	917	4.00	3.99	M
20 1,1-Dichloroethene	96	1.735	1.724	0.011	96	3732	1.00	1.31	
21 112TCTFE	101	1.735	1.735	0.000	75	3288	1.00	1.21	
22 Acetone	58	1.769	1.758	0.011	61	901	5.00	6.46	
23 Iodomethane	142	1.826	1.826	0.000	99	5715	1.00	1.06	
24 Isopropyl alcohol	45	1.860	1.849	0.011	26	999	10.0	12.0	
25 Carbon disulfide	76	1.860	1.861	-0.001	100	13072	1.00	1.35	
26 Acetonitrile	38	1.952	1.952	0.000	75	1063	10.0	11.6	
27 3-Chloro-1-propene	76	1.952	1.952	0.000	90	1621	1.00	0.8715	M
28 Methyl acetate	43	1.986	1.963	0.023	77	1758	2.00	2.04	
29 Cyclopentene	67	2.009	2.009	0.000	94	8972	1.00	1.36	
30 Methylene Chloride	84	2.032	2.032	0.000	88	4609	1.00	1.36	
* 31 TBA-d9 (IS)	65	2.043	2.043	0.000	99	131739	1000.0	1000.0	
32 2-Methyl-2-propanol	59	2.100	2.100	0.000	97	2495	10.0	21.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Acrylonitrile	53	2.203	2.180	0.023	98	7495	10.0	10.1	
34 trans-1,2-Dichloroethene	96	2.214	2.214	0.000	68	3831	1.00	1.21	
35 Methyl tert-butyl ether	73	2.214	2.214	0.000	96	12020	1.00	1.33	
36 Hexane	57	2.420	2.420	0.000	86	3108	1.00	1.21	
37 1,1-Dichloroethane	63	2.500	2.500	0.000	99	6112	1.00	1.14	
38 Vinyl acetate	86	2.568	2.546	0.022	99	1278	2.00	2.21	
39 Isopropyl ether	45	2.580	2.568	0.012	77	11624	1.00	1.20	
40 2-Chloro-1,3-butadiene	88	2.580	2.580	0.000	68	3961	1.00	1.22	
41 Tert-butyl ethyl ether	59	2.842	2.842	0.000	88	12680	1.00	1.27	
* 43 2-Butanone-d5	46	2.911	2.911	0.000	99	175643	250.0	250.0	
44 2,2-Dichloropropane	97	2.945	2.945	0.000	75	1688	1.00	1.03	M
45 cis-1,2-Dichloroethene	96	2.945	2.945	0.000	93	4296	1.00	1.24	
46 2-Butanone (MEK)	72	2.968	2.957	0.011	98	1462	5.00	6.32	M
42 Propionitrile	54	3.036	3.002	0.034	54	1412	10.0	6.97	
47 Ethyl acetate	70	3.036	3.025	0.011	96	622	2.00	2.59	Ma
48 Methyl acrylate	55	3.082	3.048	0.034	50	1706	1.00	0.8041	
50 Methacrylonitrile	67	3.139	3.128	0.011	87	10363	10.0	10.8	
49 Chlorobromomethane	128	3.139	3.139	0.000	62	2165	1.00	1.12	
51 Tetrahydrofuran	42	3.208	3.185	0.023	41	1288	2.00	2.70	
52 Chloroform	83	3.208	3.208	0.000	98	6816	1.00	1.24	
$ 53 Dibromofluoromethane (Surr)	113	3.345	3.345	0.000	98	148120	50.0	46.1	
54 1,1,1-Trichloroethane	97	3.367	3.368	-0.001	97	6833	1.00	1.24	
55 Cyclohexane	84	3.413	3.413	0.000	86	4664	1.00	1.21	
56 Carbon tetrachloride	117	3.516	3.516	0.000	95	6402	1.00	1.27	
57 1,1-Dichloropropene	75	3.527	3.516	0.011	90	5590	1.00	1.26	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	3.641	3.642	-0.001	0	157889	50.0	47.7	
59 Benzene	78	3.698	3.699	-0.001	96	16346	1.00	1.30	
60 1,2-Dichloroethane	62	3.721	3.710	0.011	52	5098	1.00	1.21	
63 Isopropyl acetate	61	3.813	3.801	0.012	81	1171	1.00	1.17	
62 Isooctane	57	3.801	3.801	0.000	93	7261	1.00	1.28	
64 Tert-amyl methyl ether	73	3.824	3.824	0.000	89	10888	1.00	1.16	
* 65 Fluorobenzene	96	3.972	3.973	-0.001	99	596486	50.0	50.0	
66 n-Heptane	43	3.995	3.996	-0.001	93	2714	1.00	1.21	M
67 Trichloroethene	95	4.349	4.338	0.011	88	4520	1.00	1.29	
70 Methylcyclohexane	83	4.543	4.532	0.011	94	4236	1.00	1.21	
71 1,2-Dichloropropane	63	4.566	4.555	0.011	89	4127	1.00	1.27	M
* 72 1,4-Dioxane-d8	96	4.680	4.669	0.011	0	24345	1000.0	1000.0	
73 Dibromomethane	93	4.692	4.681	0.011	32	2072	1.00	1.10	
74 1,4-Dioxane	88	4.737	4.726	0.011	63	1571	50.0	67.6	
75 Methyl methacrylate	100	4.760	4.738	0.022	80	1262	2.00	1.56	
76 n-Propyl acetate	43	4.874	4.818	0.056	43	4005	1.00	1.15	
77 Dichlorobromomethane	83	4.874	4.875	-0.001	96	4993	1.00	1.10	
78 2-Nitropropane	41	5.160	5.126	0.034	53	2171	2.00	2.66	
79 2-Chloroethyl vinyl ether	63	5.308	5.263	0.045	61	1658	1.00	0.9245	
80 Epichlorohydrin	57	5.354	5.297	0.057	81	2807	20.0	15.0	
81 cis-1,3-Dichloropropene	75	5.411	5.400	0.011	95	5950	1.00	1.15	
82 4-Methyl-2-pentanone (MIBK)	43	5.628	5.617	0.011	92	10972	5.00	5.46	
$ 83 Toluene-d8 (Surr)	98	5.719	5.719	0.000	99	615764	50.0	51.3	
84 Toluene	91	5.811	5.799	0.012	92	17563	1.00	1.29	
85 trans-1,3-Dichloropropene	75	6.142	6.108	0.034	94	4394	1.00	0.9331	
86 Ethyl methacrylate	69	6.347	6.290	0.057	48	3037	1.00	0.9382	a
87 1,1,2-Trichloroethane	83	6.347	6.325	0.022	92	2829	1.00	1.23	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
88 Tetrachloroethene	166	6.507	6.496	0.011	94	4328	1.00	1.17	
89 1,3-Dichloropropane	76	6.553	6.541	0.012	93	5816	1.00	1.22	
90 2-Hexanone	43	6.838	6.724	0.114	43	2612	5.00	5.11	a
91 Chlorodibromomethane	129	6.850	6.838	0.012	94	4053	1.00	1.12	
93 Ethylene Dibromide	107	6.987	6.952	0.035	93	3886	1.00	1.26	
92 n-Butyl acetate	43	6.987	6.952	0.035	32	638	1.00	1.01	
* 94 Chlorobenzene-d5	117	7.649	7.649	0.000	85	488573	50.0	50.0	
95 Chlorobenzene	112	7.694	7.683	0.011	95	11496	1.00	1.21	
96 1,1,1,2-Tetrachloroethane	131	7.831	7.820	0.011	91	4674	1.00	1.26	
97 Ethylbenzene	106	7.911	7.889	0.022	99	5680	1.00	1.22	
98 m-Xylene & p-Xylene	106	8.094	8.083	0.011	97	7304	1.00	1.25	
99 o-Xylene	106	8.676	8.665	0.011	94	6604	1.00	1.14	
100 Styrene	104	8.733	8.699	0.034	96	10055	1.00	1.02	
102 Bromoform	173	8.927	8.916	0.011	74	2626	1.00	0.9664	
104 Isopropylbenzene	105	9.281	9.270	0.011	95	15807	1.00	1.24	
$ 105 4-Bromofluorobenzene	174	9.475	9.476	-0.001	96	227247	50.0	48.7	
106 Bromobenzene	156	9.681	9.658	0.023	90	5177	1.00	1.16	
107 1,1,2,2-Tetrachloroethane	83	9.784	9.772	0.012	92	5424	1.00	1.00	
108 1,2,3-Trichloropropane	75	9.807	9.795	0.012	93	3921	1.00	1.68	
109 trans-1,4-Dichloro-2-butene	75	9.955	9.875	0.080	37	1319	1.00	0.9762	
110 N-Propylbenzene	91	9.955	9.932	0.023	99	14930	1.00	1.20	
111 2-Chlorotoluene	91	10.023	10.012	0.011	96	13936	1.00	1.00	
112 4-Ethyltoluene	105	10.149	10.138	0.011	98	14458	1.00	1.26	
113 4-Chlorotoluene	91	10.229	10.195	0.034	96	11604	1.00	1.26	
114 1,3,5-Trimethylbenzene	105	10.263	10.252	0.011	94	11983	1.00	1.29	
115 Butyl Methacrylate	87	10.571	10.537	0.034	93	3118	1.00	0.8564	
116 tert-Butylbenzene	119	10.777	10.766	0.011	95	10749	1.00	1.26	
117 1,2,4-Trimethylbenzene	105	10.868	10.857	0.011	97	11986	1.00	1.26	
118 sec-Butylbenzene	105	11.142	11.131	0.011	98	13910	1.00	1.27	
119 1,3-Dichlorobenzene	146	11.234	11.222	0.012	97	9028	1.00	1.23	
* 120 1,4-Dichlorobenzene-d4	152	11.325	11.314	0.011	94	303618	50.0	50.0	
121 1,4-Dichlorobenzene	146	11.348	11.348	0.000	94	9828	1.00	1.25	
122 4-Isopropyltoluene	119	11.371	11.371	0.000	95	11900	1.00	1.24	
123 1,2,3-Trimethylbenzene	105	11.462	11.451	0.011	97	12886	1.00	1.27	
124 Benzyl chloride	126	11.565	11.542	0.023	98	1730	1.00	1.13	
125 2,3-Dihydroindene	117	11.656	11.645	0.011	94	15527	1.00	1.26	
126 1,2-Dichlorobenzene	146	11.770	11.759	0.011	96	7950	1.00	1.08	
127 p-Diethylbenzene	119	11.816	11.805	0.011	91	5693	1.00	1.20	
128 n-Butylbenzene	92	11.839	11.828	0.011	95	4584	1.00	1.16	
129 1,2-Dibromo-3-Chloropropane	157	12.467	12.444	0.023	36	960	1.00	1.04	
130 1,2,4,5-Tetramethylbenzene	119	12.467	12.467	0.000	97	6339	1.00	1.11	
131 1,3,5-Trichlorobenzene	180	12.627	12.604	0.022	93	4238	1.00	1.12	
132 1,2,4-Trichlorobenzene	180	13.026	13.015	0.011	93	3808	1.00	1.14	
133 Hexachlorobutadiene	225	13.129	13.129	0.000	93	2963	1.00	1.40	
134 Naphthalene	128	13.163	13.152	0.011	98	8597	1.00	1.31	
135 1,2,3-Trichlorobenzene	180	13.300	13.289	0.011	93	3442	1.00	1.19	
S 137 1,2-Dichloroethene, Total	100				0		2.00	2.45	
S 138 Xylenes, Total	100				0		2.00	2.39	
S 139 Total BTEX	1				0		5.00	6.21	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260SURR250_00226	Amount Added:	1.00	Units: uL	
8260MIX1COMB_00154	Amount Added:	10.00	Units: uL	
ACROLEIN W_00140	Amount Added:	4.00	Units: uL	
GASES Li_00476	Amount Added:	10.00	Units: uL	
524freon_00052	Amount Added:	10.00	Units: uL	
14DIOXINTER_00141	Amount Added:	30.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent

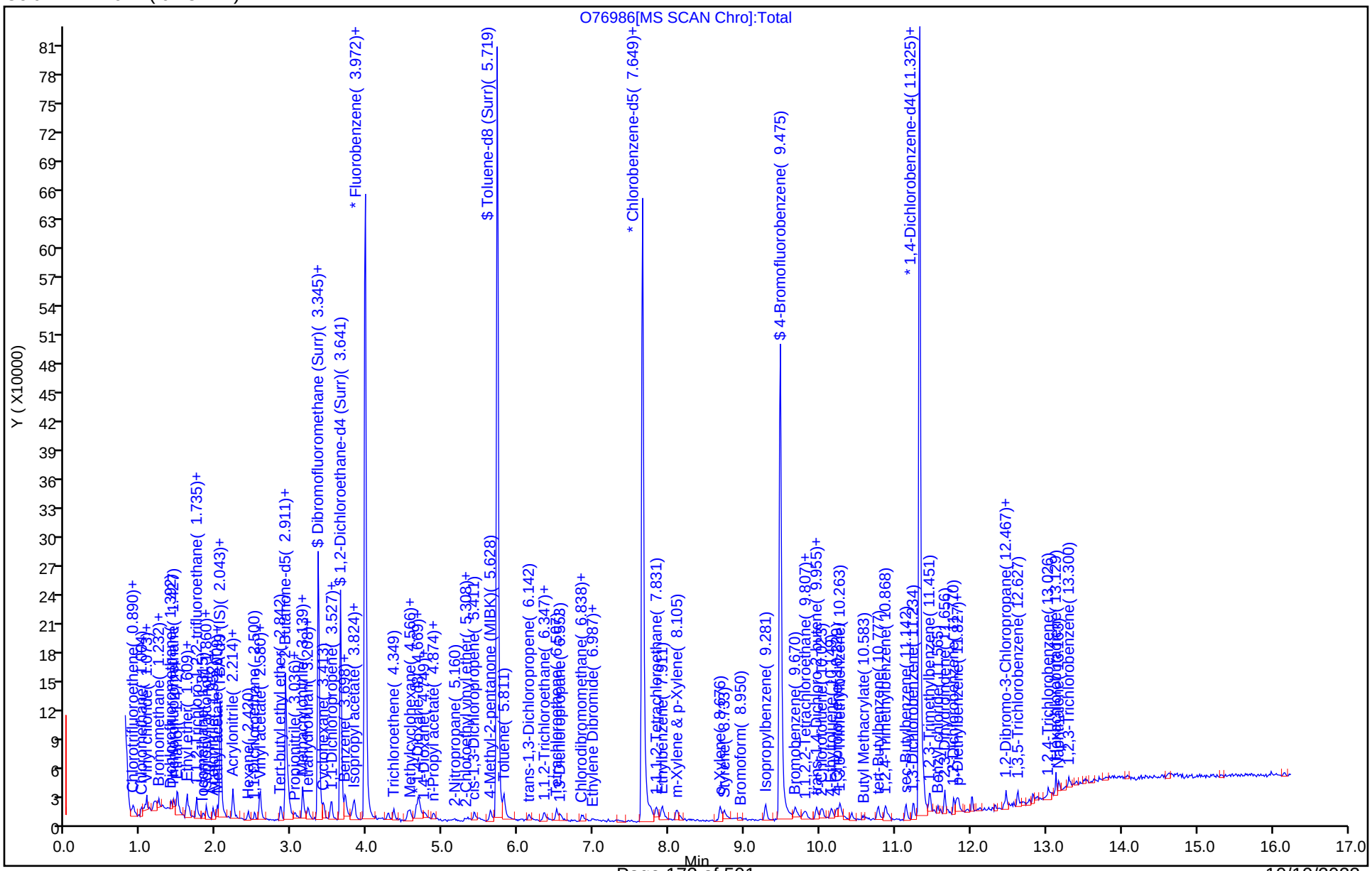
Report Date: 23-May-2022 17:00:10 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\O76986.d

Injection Date:	22-May-2022 09:15:30	Instrument ID:	CVOAMS12	Operator ID:	
Lims ID:	STD1			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260W_12	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



10/10/2023
12:43 PM

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\O76987.d
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 22-May-2022 09:39:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD5
Misc. Info.: 460-0145591-005
Operator ID: Instrument ID: CVOAMS12
Sublist: chrom-8260W_12*sub26

Method: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\8260W_12.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 23-May-2022 17:00:19 Calib Date: 22-May-2022 11:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\O76991.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: boykink Date: 22-May-2022 14:23:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116	0.879	0.879	0.000	59	4784	5.00	5.10	
3 Dichlorodifluoromethane	85	0.890	0.890	0.000	99	18404	5.00	4.51	
5 Chlorodifluoromethane	67	0.902	0.902	0.000	97	2878	5.00	4.49	
6 Chloromethane	50	0.993	1.004	-0.011	99	17852	5.00	4.73	
7 Vinyl chloride	62	1.050	1.050	0.000	98	18878	5.00	4.82	
8 Butadiene	54	1.073	1.073	0.000	97	15038	5.00	4.37	
9 Bromomethane	94	1.233	1.233	0.000	99	14316	5.00	4.80	
10 Chloroethane	64	1.290	1.290	0.000	99	10891	5.00	4.60	
11 Dichlorofluoromethane	67	1.393	1.392	0.001	98	25429	5.00	4.60	
12 Trichlorofluoromethane	101	1.427	1.427	0.000	98	23716	5.00	4.31	
13 Pentane	57	1.472	1.472	0.000	95	6898	10.0	10.9	
14 Ethanol	46	1.541	1.529	0.012	90	1764	200.0	235.8	
15 Ethyl ether	59	1.598	1.598	0.000	93	9975	5.00	4.80	
16 1,2-Dichloro-1,1,2-trifluoroetha	117	1.598	1.598	0.000	87	12370	5.00	4.41	
17 2-Methyl-1,3-butadiene	53	1.609	1.609	0.000	100	12882	5.00	4.78	
18 1,1,1-Trifluoro-2,2-dichloroetha	83	1.632	1.632	0.000	95	16157	5.00	4.55	
19 Acrolein	56	1.678	1.666	0.012	93	2775	20.0	20.2	
20 1,1-Dichloroethene	96	1.724	1.724	0.000	97	13398	5.00	4.67	
21 112TCTFE	101	1.735	1.735	0.000	93	12694	5.00	4.65	
22 Acetone	58	1.758	1.758	0.000	86	3374	25.0	25.9	
23 Iodomethane	142	1.826	1.826	0.000	99	23671	5.00	4.38	
24 Isopropyl alcohol	45	1.872	1.849	0.023	28	4028	50.0	53.2	
25 Carbon disulfide	76	1.861	1.861	0.000	100	46272	5.00	4.75	
26 Acetonitrile	38	1.952	1.952	0.000	76	4721	50.0	56.4	M
27 3-Chloro-1-propene	76	1.952	1.952	0.000	91	9747	5.00	5.22	
28 Methyl acetate	43	1.975	1.963	0.012	98	7817	10.0	9.93	
29 Cyclopentene	67	2.009	2.009	0.000	97	28770	5.00	4.35	
30 Methylene Chloride	84	2.032	2.032	0.000	88	16133	5.00	4.75	
* 31 TBA-d9 (IS)	65	2.043	2.043	0.000	99	120198	1000.0	1000.0	
32 2-Methyl-2-propanol	59	2.100	2.100	0.000	97	6382	50.0	58.9	M

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Acrylonitrile	53	2.192	2.180	0.012	95	29803	50.0	43.8	
34 trans-1,2-Dichloroethene	96	2.215	2.214	0.001	68	14716	5.00	4.63	
35 Methyl tert-butyl ether	73	2.215	2.214	0.001	97	41356	5.00	4.57	
36 Hexane	57	2.420	2.420	0.000	90	12548	5.00	4.89	
37 1,1-Dichloroethane	63	2.500	2.500	0.000	99	25501	5.00	4.76	
38 Vinyl acetate	86	2.557	2.546	0.011	100	5427	10.0	10.0	
39 Isopropyl ether	45	2.568	2.568	0.000	85	48714	5.00	5.02	
40 2-Chloro-1,3-butadiene	88	2.580	2.580	0.000	94	15202	5.00	4.66	
41 Tert-butyl ethyl ether	59	2.842	2.842	0.000	92	47311	5.00	4.73	
* 43 2-Butanone-d5	46	2.911	2.911	0.000	100	164027	250.0	250.0	
44 2,2-Dichloropropane	97	2.945	2.945	0.000	89	5029	5.00	4.19	
45 cis-1,2-Dichloroethene	96	2.945	2.945	0.000	94	15647	5.00	4.51	
46 2-Butanone (MEK)	72	2.968	2.957	0.011	99	5341	25.0	24.7	
42 Propionitrile	54	3.014	3.002	0.012	95	11693	50.0	63.3	
47 Ethyl acetate	70	3.037	3.025	0.012	99	2393	10.0	10.7	
48 Methyl acrylate	55	3.059	3.048	0.011	98	8910	5.00	4.18	
50 Methacrylonitrile	67	3.128	3.128	0.000	91	41418	50.0	43.1	
49 Chlorobromomethane	128	3.139	3.139	0.000	77	8862	5.00	4.55	
51 Tetrahydrofuran	42	3.185	3.185	0.000	41	3896	10.0	8.75	
52 Chloroform	83	3.208	3.208	0.000	98	25203	5.00	4.58	
$ 53 Dibromofluoromethane (Surr)	113	3.345	3.345	0.000	98	145117	50.0	45.0	
54 1,1,1-Trichloroethane	97	3.368	3.368	0.000	98	25811	5.00	4.66	
55 Cyclohexane	84	3.413	3.413	0.000	92	18311	5.00	4.75	
56 Carbon tetrachloride	117	3.516	3.516	0.000	95	24029	5.00	4.74	
57 1,1-Dichloropropene	75	3.516	3.516	0.000	93	21687	5.00	4.87	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	3.642	3.642	0.000	0	154839	50.0	46.7	
61 Isobutyl alcohol	43	3.687	3.653	0.034	28	5498	125.0	96.3	Ma
59 Benzene	78	3.699	3.699	0.000	96	64229	5.00	5.26	
60 1,2-Dichloroethane	62	3.710	3.710	0.000	96	20353	5.00	4.82	
63 Isopropyl acetate	61	3.813	3.801	0.012	95	3657	5.00	3.65	
62 Isooctane	57	3.801	3.801	0.000	96	26184	5.00	4.59	
64 Tert-amyl methyl ether	73	3.824	3.824	0.000	95	46970	5.00	4.97	
* 65 Fluorobenzene	96	3.973	3.973	0.000	99	598612	50.0	50.0	
66 n-Heptane	43	3.996	3.996	0.000	93	11992	5.00	5.35	
67 Trichloroethene	95	4.338	4.338	0.000	95	16754	5.00	4.78	
70 Methylcyclohexane	83	4.544	4.532	0.012	95	16361	5.00	4.64	
71 1,2-Dichloropropane	63	4.566	4.555	0.011	88	15020	5.00	4.61	
* 72 1,4-Dioxane-d8	96	4.681	4.669	0.012	0	24445	1000.0	1000.0	
73 Dibromomethane	93	4.681	4.681	0.000	90	8889	5.00	4.70	
74 1,4-Dioxane	88	4.738	4.726	0.012	29	3678	100.0	157.8	
75 Methyl methacrylate	100	4.749	4.738	0.011	89	7701	10.0	9.52	
76 n-Propyl acetate	43	4.840	4.818	0.022	98	13501	5.00	3.88	
77 Dichlorobromomethane	83	4.875	4.875	0.000	96	21791	5.00	4.80	
78 2-Nitropropane	41	5.137	5.126	0.011	98	7313	10.0	8.93	
79 2-Chloroethyl vinyl ether	63	5.274	5.263	0.011	91	7269	5.01	4.04	
80 Epichlorohydrin	57	5.320	5.297	0.023	98	19714	100.0	112.8	
81 cis-1,3-Dichloropropene	75	5.411	5.400	0.011	94	24627	5.00	4.87	
82 4-Methyl-2-pentanone (MIBK)	43	5.617	5.617	0.000	97	48029	25.0	25.6	
$ 83 Toluene-d8 (Surr)	98	5.720	5.719	0.001	100	592535	50.0	50.7	
84 Toluene	91	5.799	5.799	0.000	93	70132	5.00	5.30	
85 trans-1,3-Dichloropropene	75	6.119	6.108	0.011	98	24375	5.00	5.31	
86 Ethyl methacrylate	69	6.313	6.290	0.023	86	13223	5.00	4.19	a

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
87 1,1,2-Trichloroethane	83	6.336	6.325	0.011	95	11832	5.00	5.27	
88 Tetrachloroethene	166	6.507	6.496	0.011	94	18366	5.00	5.12	
89 1,3-Dichloropropane	76	6.553	6.541	0.012	93	23763	5.00	5.13	
90 2-Hexanone	43	6.747	6.724	0.023	98	21444	25.0	21.9	
91 Chlorodibromomethane	129	6.838	6.838	0.000	97	16430	5.00	4.64	
93 Ethylene Dibromide	107	6.975	6.952	0.023	100	14078	5.00	4.69	
92 n-Butyl acetate	43	7.010	6.952	0.058	99	13072	5.00	4.86	M
* 94 Chlorobenzene-d5	117	7.649	7.649	0.000	85	475893	50.0	50.0	
95 Chlorobenzene	112	7.695	7.683	0.012	97	48628	5.00	5.28	
96 1,1,1,2-Tetrachloroethane	131	7.832	7.820	0.012	94	17570	5.00	4.88	
97 Ethylbenzene	106	7.900	7.889	0.011	98	22476	5.00	4.97	
98 m-Xylene & p-Xylene	106	8.094	8.083	0.011	99	27590	5.00	4.83	
99 o-Xylene	106	8.665	8.665	0.000	95	28880	5.00	5.14	
100 Styrene	104	8.711	8.699	0.012	97	48921	5.00	5.08	
101 n-Butyl acrylate	73	8.791	8.756	0.035	96	6784	5.00	3.67	
102 Bromoform	173	8.928	8.916	0.012	95	11472	5.00	4.33	
103 Amyl acetate (mixed isomers)	43	9.179	9.145	0.034	86	13693	5.00	3.52	
104 Isopropylbenzene	105	9.270	9.270	0.000	95	60748	5.00	4.91	
$ 105 4-Bromofluorobenzene	174	9.476	9.476	0.000	96	229670	50.0	50.6	
106 Bromobenzene	156	9.670	9.658	0.012	89	22447	5.00	5.04	
107 1,1,2,2-Tetrachloroethane	83	9.773	9.772	0.001	95	18060	5.00	5.06	
108 1,2,3-Trichloropropane	75	9.807	9.795	0.012	94	11602	5.00	4.99	
109 trans-1,4-Dichloro-2-butene	75	9.898	9.875	0.023	82	7076	5.00	5.26	
110 N-Propylbenzene	91	9.944	9.932	0.012	100	65492	5.00	5.27	
111 2-Chlorotoluene	91	10.012	10.012	0.000	96	49314	5.00	5.06	
112 4-Ethyltoluene	105	10.149	10.138	0.011	99	58098	5.00	5.07	
113 4-Chlorotoluene	91	10.206	10.195	0.011	96	54339	5.00	5.92	
114 1,3,5-Trimethylbenzene	105	10.263	10.252	0.011	94	47444	5.00	5.12	
115 Butyl Methacrylate	87	10.560	10.537	0.023	91	16792	5.00	4.63	
116 tert-Butylbenzene	119	10.766	10.766	0.000	95	42849	5.00	5.06	
117 1,2,4-Trimethylbenzene	105	10.857	10.857	0.000	97	48221	5.00	5.10	
118 sec-Butylbenzene	105	11.131	11.131	0.000	98	54391	5.00	4.98	
119 1,3-Dichlorobenzene	146	11.234	11.222	0.012	95	36537	5.00	5.01	
* 120 1,4-Dichlorobenzene-d4	152	11.325	11.314	0.011	93	302165	50.0	50.0	
121 1,4-Dichlorobenzene	146	11.348	11.348	0.000	95	41905	5.00	5.34	
122 4-Isopropyltoluene	119	11.371	11.371	0.000	97	49314	5.00	5.16	
123 1,2,3-Trimethylbenzene	105	11.451	11.451	0.000	98	51188	5.00	5.08	
124 Benzyl chloride	126	11.554	11.542	0.012	99	6584	5.00	4.32	
125 2,3-Dihydroindene	117	11.656	11.645	0.011	94	63665	5.00	5.19	
126 1,2-Dichlorobenzene	146	11.770	11.759	0.011	97	40146	5.00	5.47	
127 p-Diethylbenzene	119	11.805	11.805	0.000	94	24153	5.00	5.10	
128 n-Butylbenzene	92	11.828	11.828	0.000	97	20810	5.00	5.27	
129 1,2-Dibromo-3-Chloropropane	157	12.456	12.444	0.012	91	4338	5.00	4.70	
130 1,2,4,5-Tetramethylbenzene	119	12.467	12.467	0.000	98	29456	5.00	5.20	
131 1,3,5-Trichlorobenzene	180	12.615	12.604	0.011	96	19643	5.00	5.23	
132 1,2,4-Trichlorobenzene	180	13.015	13.015	0.000	93	15420	5.00	4.62	
133 Hexachlorobutadiene	225	13.129	13.129	0.000	97	9987	5.00	4.76	
134 Naphthalene	128	13.163	13.152	0.011	99	28992	5.00	4.44	
135 1,2,3-Trichlorobenzene	180	13.300	13.289	0.011	95	13692	5.00	4.74	
S 137 1,2-Dichloroethene, Total	100				0		10.0	9.14	
S 138 Xylenes, Total	100				0		10.0	9.96	
S 139 Total BTEX	1				0		25.0	25.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260SURR250_00226	Amount Added:	1.00	Units: uL	
8260MIX1COMB_00154	Amount Added:	10.00	Units: uL	
ACROLEIN W_00140	Amount Added:	4.00	Units: uL	
GASES Li_00476	Amount Added:	10.00	Units: uL	
524freon_00052	Amount Added:	10.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent

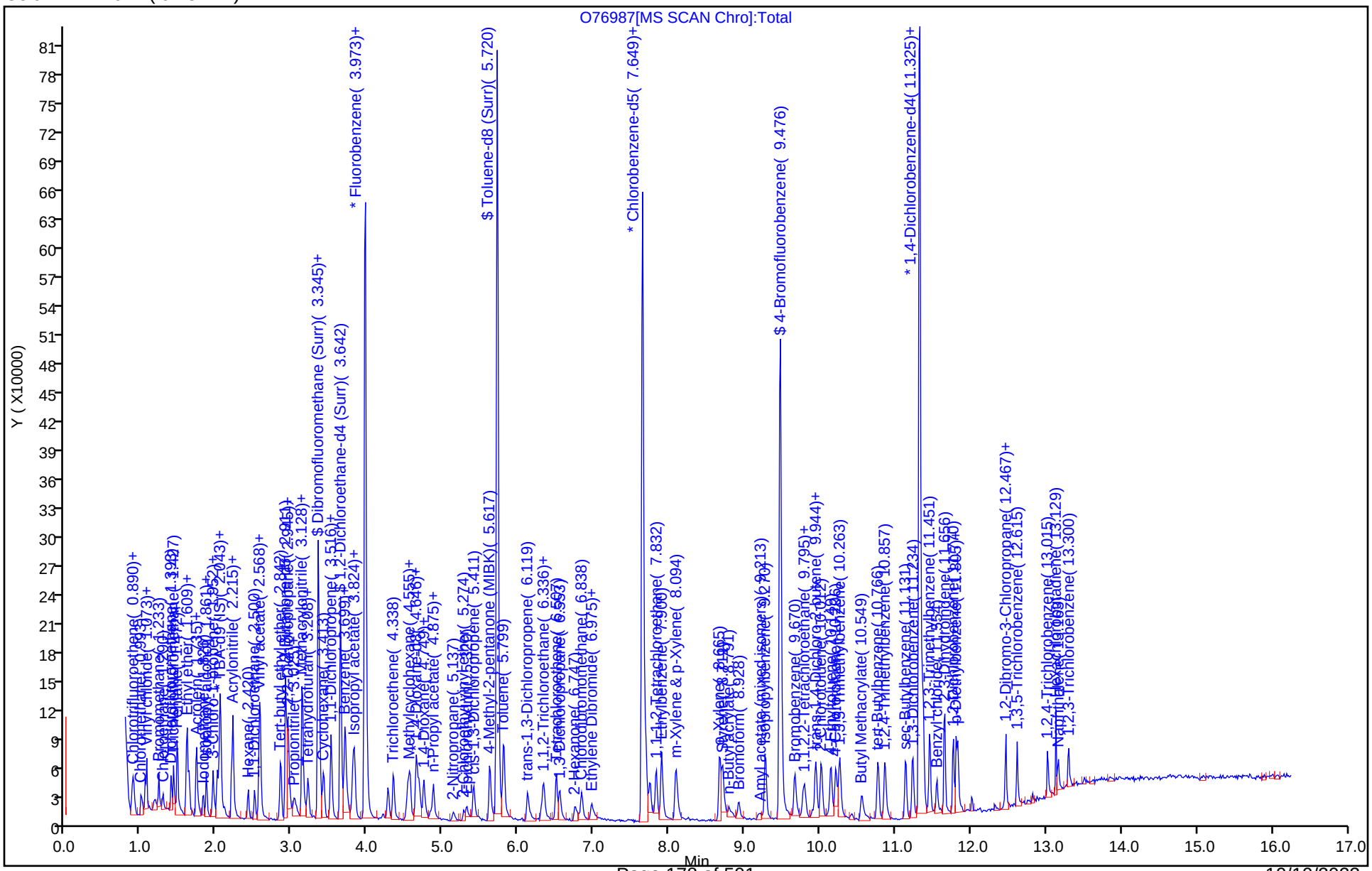
Report Date: 23-May-2022 17:00:19 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\O76987.d

Injection Date:	22-May-2022 09:39:30	Instrument ID:	CVOAMS12	Operator ID:	
Lims ID:	STD5			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260W_12	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



10/10/2023
12:43 PM

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\O76988.d
Lims ID: STD20
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 22-May-2022 10:03:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD20
Misc. Info.: 460-0145591-006
Operator ID: Instrument ID: CVOAMS12
Sublist: chrom-8260W_12*sub26

Method: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\8260W_12.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 23-May-2022 17:00:26 Calib Date: 22-May-2022 11:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\O76991.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: boykink Date: 22-May-2022 14:36:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116	0.879	0.879	0.000	85	20200	20.0	17.1	
3 Dichlorodifluoromethane	85	0.890	0.890	0.000	99	84239	20.0	19.6	
5 Chlorodifluoromethane	67	0.901	0.901	0.000	97	12838	20.0	19.0	
6 Chloromethane	50	0.993	0.993	0.000	99	77350	20.0	19.5	
7 Vinyl chloride	62	1.050	1.050	0.000	98	78602	20.0	19.0	
8 Butadiene	54	1.073	1.073	0.000	97	71683	20.0	19.8	
9 Bromomethane	94	1.232	1.232	0.000	99	59518	20.0	18.9	
10 Chloroethane	64	1.290	1.290	0.000	100	47435	20.0	19.0	
11 Dichlorofluoromethane	67	1.392	1.392	0.000	98	117135	20.0	20.1	
12 Trichlorofluoromethane	101	1.427	1.427	0.000	98	116198	20.0	20.1	
13 Pentane	57	1.472	1.472	0.000	96	24266	40.0	39.6	
14 Ethanol	46	1.541	1.541	0.000	91	8032	800.0	868.0	
15 Ethyl ether	59	1.598	1.598	0.000	93	38624	20.0	17.7	
16 1,2-Dichloro-1,1,2-trifluoroetha	117	1.598	1.598	0.000	85	51470	20.0	17.4	
17 2-Methyl-1,3-butadiene	53	1.609	1.609	0.000	96	51322	20.0	18.1	
18 1,1,1-Trifluoro-2,2-dichloroetha	83	1.632	1.632	0.000	95	64924	20.0	17.3	
19 Acrolein	56	1.666	1.666	0.000	91	6599	40.0	41.5	
20 1,1-Dichloroethene	96	1.723	1.723	0.000	98	52790	20.0	17.5	
21 112TCTFE	101	1.735	1.735	0.000	96	53933	20.0	18.7	
22 Acetone	58	1.758	1.758	0.000	85	14581	100.0	88.9	
23 Iodomethane	142	1.826	1.826	0.000	98	105625	20.0	18.6	
24 Isopropyl alcohol	45	1.849	1.849	0.000	47	18178	200.0	194.0	
25 Carbon disulfide	76	1.860	1.860	0.000	100	181810	20.0	17.7	
26 Acetonitrile	38	1.952	1.952	0.000	75	19802	200.0	191.2	
27 3-Chloro-1-propene	76	1.952	1.952	0.000	90	37121	20.0	18.9	
28 Methyl acetate	43	1.963	1.963	0.000	98	33516	40.0	34.4	
29 Cyclopentene	67	2.009	2.009	0.000	96	119836	20.0	17.2	
30 Methylene Chloride	84	2.032	2.032	0.000	90	65311	20.0	18.3	
* 31 TBA-d9 (IS)	65	2.043	2.043	0.000	99	148681	1000.0	1000.0	
32 2-Methyl-2-propanol	59	2.100	2.100	0.000	98	30186	200.0	224.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Acrylonitrile	53	2.191	2.191	0.000	93	138555	200.0	196.7	
34 trans-1,2-Dichloroethene	96	2.214	2.214	0.000	67	56355	20.0	16.9	
35 Methyl tert-butyl ether	73	2.214	2.214	0.000	96	172680	20.0	18.1	
36 Hexane	57	2.420	2.420	0.000	92	50841	20.0	18.8	
37 1,1-Dichloroethane	63	2.500	2.500	0.000	99	98228	20.0	17.4	
38 Vinyl acetate	86	2.545	2.545	0.000	99	25715	40.0	37.8	
39 Isopropyl ether	45	2.568	2.568	0.000	86	191740	20.0	18.8	
40 2-Chloro-1,3-butadiene	88	2.580	2.580	0.000	92	63096	20.0	18.3	
41 Tert-butyl ethyl ether	59	2.842	2.842	0.000	91	188933	20.0	17.9	
* 43 2-Butanone-d5	46	2.911	2.911	0.000	99	206531	250.0	250.0	
44 2,2-Dichloropropane	97	2.945	2.945	0.000	89	21701	20.0	18.9	
45 cis-1,2-Dichloroethene	96	2.945	2.945	0.000	95	61418	20.0	16.8	
46 2-Butanone (MEK)	72	2.956	2.956	0.000	99	24981	100.0	91.8	
42 Propionitrile	54	3.002	3.002	0.000	98	45027	200.0	197.1	
47 Ethyl acetate	70	3.025	3.025	0.000	100	9961	40.0	35.3	
48 Methyl acrylate	55	3.048	3.048	0.000	99	44097	20.0	19.7	
50 Methacrylonitrile	67	3.128	3.128	0.000	91	181389	200.0	179.4	
49 Chlorobromomethane	128	3.139	3.139	0.000	81	35469	20.0	17.3	
51 Tetrahydrofuran	42	3.185	3.185	0.000	90	18876	40.0	33.7	
52 Chloroform	83	3.208	3.208	0.000	99	98906	20.0	17.1	
$ 53 Dibromofluoromethane (Surr)	113	3.345	3.345	0.000	98	155505	50.0	45.8	
54 1,1,1-Trichloroethane	97	3.367	3.367	0.000	98	105938	20.0	18.2	
55 Cyclohexane	84	3.413	3.413	0.000	90	76168	20.0	18.8	
56 Carbon tetrachloride	117	3.516	3.516	0.000	97	95145	20.0	17.8	
57 1,1-Dichloropropene	75	3.516	3.516	0.000	94	85023	20.0	18.1	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	3.641	3.641	0.000	0	163330	50.0	46.7	
61 Isobutyl alcohol	43	3.664	3.664	0.000	94	34616	500.0	490.3	a
59 Benzene	78	3.698	3.698	0.000	96	254365	20.0	18.7	
60 1,2-Dichloroethane	62	3.710	3.710	0.000	98	77533	20.0	17.4	
63 Isopropyl acetate	61	3.801	3.801	0.000	96	20739	20.0	19.7	
62 Isooctane	57	3.801	3.801	0.000	96	108731	20.0	18.1	
64 Tert-amyl methyl ether	73	3.824	3.824	0.000	97	182852	20.0	18.4	
* 65 Fluorobenzene	96	3.973	3.973	0.000	99	630385	50.0	50.0	
66 n-Heptane	43	3.995	3.995	0.000	90	40659	20.0	17.2	
67 Trichloroethene	95	4.338	4.338	0.000	95	65832	20.0	17.8	
68 n-Butanol	56	4.384	4.384	0.000	88	11968	500.0	292.0	a
69 Ethyl acrylate	55	4.498	4.498	0.000	98	49798	20.0	14.7	
70 Methylcyclohexane	83	4.532	4.532	0.000	92	69336	20.0	18.7	
71 1,2-Dichloropropane	63	4.555	4.555	0.000	89	63095	20.0	18.4	
* 72 1,4-Dioxane-d8	96	4.669	4.669	0.000	0	29293	1000.0	1000.0	
73 Dibromomethane	93	4.680	4.680	0.000	90	35970	20.0	18.0	
74 1,4-Dioxane	88	4.726	4.726	0.000	29	11564	400.0	414.8	
75 Methyl methacrylate	100	4.737	4.737	0.000	86	33761	40.0	39.6	
76 n-Propyl acetate	43	4.829	4.829	0.000	98	66640	20.0	18.2	
77 Dichlorobromomethane	83	4.874	4.874	0.000	98	88322	20.0	18.5	
78 2-Nitropropane	41	5.137	5.137	0.000	98	28758	40.0	33.3	
79 2-Chloroethyl vinyl ether	63	5.263	5.263	0.000	95	33922	20.0	17.9	
80 Epichlorohydrin	57	5.297	5.297	0.000	99	82465	400.0	374.8	
81 cis-1,3-Dichloropropene	75	5.400	5.400	0.000	94	107757	20.0	19.1	
82 4-Methyl-2-pentanone (MIBK)	43	5.617	5.617	0.000	97	220643	100.0	93.4	
$ 83 Toluene-d8 (Surr)	98	5.719	5.719	0.000	99	636382	50.0	48.8	
84 Toluene	91	5.799	5.799	0.000	94	267220	20.0	18.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 trans-1,3-Dichloropropene	75	6.107	6.107	0.000	98	98540	20.0	19.3	
86 Ethyl methacrylate	69	6.290	6.290	0.000	88	68461	20.0	19.5	a
87 1,1,2-Trichloroethane	83	6.324	6.324	0.000	92	45722	20.0	18.3	
88 Tetrachloroethene	166	6.496	6.496	0.000	96	73670	20.0	18.4	
89 1,3-Dichloropropane	76	6.541	6.541	0.000	93	96677	20.0	18.7	
90 2-Hexanone	43	6.724	6.724	0.000	96	140513	100.0	101.3	
91 Chlorodibromomethane	129	6.838	6.838	0.000	97	70995	20.0	18.0	
93 Ethylene Dibromide	107	6.964	6.964	0.000	98	62573	20.0	18.7	
92 n-Butyl acetate	43	6.964	6.964	0.000	99	63967	20.0	18.6	
* 94 Chlorobenzene-d5	117	7.649	7.649	0.000	84	529964	50.0	50.0	
95 Chlorobenzene	112	7.683	7.683	0.000	97	186495	20.0	18.2	
96 1,1,1,2-Tetrachloroethane	131	7.831	7.831	0.000	95	71293	20.0	17.8	
97 Ethylbenzene	106	7.900	7.900	0.000	97	91680	20.0	18.2	
98 m-Xylene & p-Xylene	106	8.083	8.083	0.000	99	115802	20.0	18.2	
99 o-Xylene	106	8.665	8.665	0.000	95	113012	20.0	18.0	
100 Styrene	104	8.699	8.699	0.000	96	199788	20.0	18.6	
101 n-Butyl acrylate	73	8.756	8.756	0.000	97	38462	20.0	18.7	
102 Bromoform	173	8.916	8.916	0.000	97	52329	20.0	17.8	
103 Amyl acetate (mixed isomers)	43	9.156	9.156	0.000	89	85617	20.0	19.8	
104 Isopropylbenzene	105	9.270	9.270	0.000	95	250858	20.0	18.2	
$ 105 4-Bromofluorobenzene	174	9.475	9.475	0.000	96	239194	50.0	47.3	
106 Bromobenzene	156	9.658	9.658	0.000	88	91486	20.0	18.5	
107 1,1,2,2-Tetrachloroethane	83	9.772	9.772	0.000	97	68968	20.0	19.2	
108 1,2,3-Trichloropropane	75	9.795	9.795	0.000	95	53492	20.0	20.7	
109 trans-1,4-Dichloro-2-butene	75	9.886	9.875	0.011	93	27318	20.0	18.3	
110 N-Propylbenzene	91	9.944	9.944	0.000	100	259855	20.0	18.8	
111 2-Chlorotoluene	91	10.012	10.012	0.000	96	185105	20.0	18.6	
112 4-Ethyltoluene	105	10.138	10.138	0.000	99	238042	20.0	18.7	
113 4-Chlorotoluene	91	10.206	10.206	0.000	95	214311	20.0	21.0	
114 1,3,5-Trimethylbenzene	105	10.263	10.263	0.000	94	191144	20.0	18.6	
115 Butyl Methacrylate	87	10.537	10.537	0.000	91	76064	20.0	18.9	
116 tert-Butylbenzene	119	10.766	10.766	0.000	95	171034	20.0	18.2	
117 1,2,4-Trimethylbenzene	105	10.857	10.857	0.000	97	197016	20.0	18.8	
118 sec-Butylbenzene	105	11.131	11.131	0.000	98	220957	20.0	18.2	
119 1,3-Dichlorobenzene	146	11.222	11.222	0.000	98	149173	20.0	18.4	
* 120 1,4-Dichlorobenzene-d4	152	11.325	11.325	0.000	93	335403	50.0	50.0	
121 1,4-Dichlorobenzene	146	11.348	11.348	0.000	97	162306	20.0	18.6	
122 4-Isopropyltoluene	119	11.371	11.371	0.000	98	197262	20.0	18.6	
123 1,2,3-Trimethylbenzene	105	11.451	11.451	0.000	97	210871	20.0	18.9	
124 Benzyl chloride	126	11.542	11.542	0.000	99	30919	20.0	18.3	
125 2,3-Dihydroindene	117	11.645	11.645	0.000	94	257401	20.0	18.9	
126 1,2-Dichlorobenzene	146	11.759	11.759	0.000	98	151065	20.0	18.6	
127 p-Diethylbenzene	119	11.804	11.804	0.000	95	98743	20.0	18.8	
128 n-Butylbenzene	92	11.827	11.827	0.000	98	83267	20.0	19.0	
129 1,2-Dibromo-3-Chloropropane	157	12.455	12.455	0.000	92	18896	20.0	18.4	
130 1,2,4,5-Tetramethylbenzene	119	12.467	12.467	0.000	98	113526	20.0	18.1	
131 1,3,5-Trichlorobenzene	180	12.615	12.615	0.000	97	77998	20.0	18.7	
132 1,2,4-Trichlorobenzene	180	13.015	13.015	0.000	93	70804	20.0	19.1	
133 Hexachlorobutadiene	225	13.129	13.129	0.000	96	41065	20.0	17.6	
134 Naphthalene	128	13.152	13.152	0.000	99	128110	20.0	17.7	
135 1,2,3-Trichlorobenzene	180	13.289	13.289	0.000	96	59152	20.0	18.4	
S 137 1,2-Dichloroethene, Total	100				0		40.0	33.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 138 Xylenes, Total	100				0		40.0	36.2	
S 139 Total BTEX	1				0		100.0	91.3	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260SURR250_00226	Amount Added:	1.00	Units: uL	
8260MIX1COMB_00154	Amount Added:	20.00	Units: uL	
ACROLEIN W_00140	Amount Added:	4.00	Units: uL	
GASES Li_00476	Amount Added:	20.00	Units: uL	
524freon_00052	Amount Added:	20.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 23-May-2022 17:00:27 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\O76988.d

Injection Date: 22-May-2022 10:03:30 Instrument ID: CVOAMS12 Operator ID:

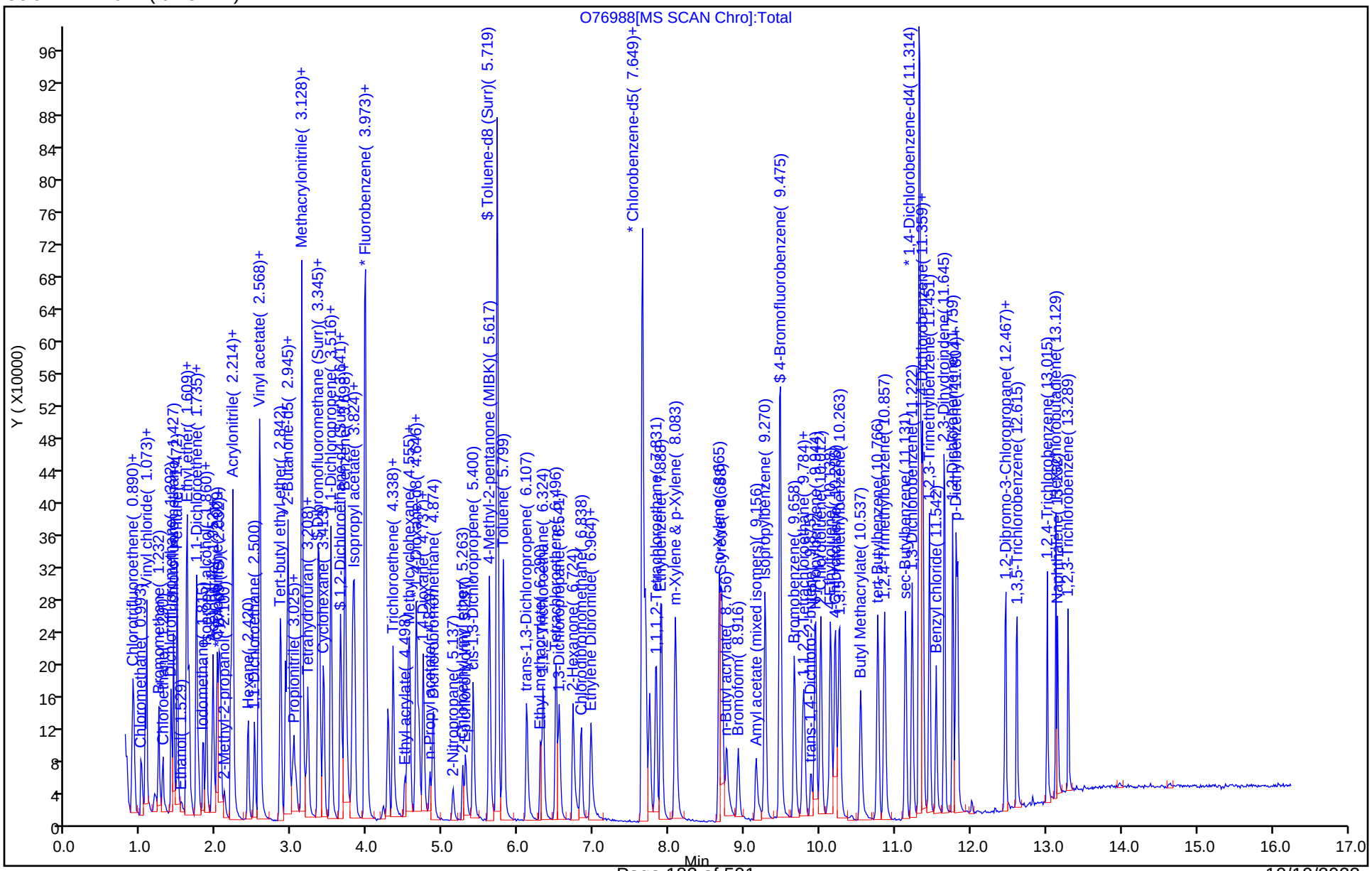
Lims ID: STD20 Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 5

Method: 8260W_12 Limit Group: VOA - 8260D Water and Solid

Column: DB-624 (0.18 mm)



Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\O76989.d
Lims ID: STD50
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 22-May-2022 10:27:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD50
Misc. Info.: 460-0145591-007
Operator ID: Instrument ID: CVOAMS12
Sublist: chrom-8260W_12*sub26

Method: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\8260W_12.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 23-May-2022 17:00:34 Calib Date: 22-May-2022 11:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\O76991.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: boykink Date: 22-May-2022 14:37:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116	0.879	0.879	0.000	85	61140	50.0	49.6	
3 Dichlorodifluoromethane	85	0.890	0.890	0.000	99	229587	50.0	54.0	
5 Chlorodifluoromethane	67	0.902	0.902	0.000	98	30770	50.0	46.1	
6 Chloromethane	50	1.004	1.004	0.000	99	203443	50.0	51.8	
7 Vinyl chloride	62	1.050	1.050	0.000	98	207981	50.0	51.0	
8 Butadiene	54	1.073	1.073	0.000	97	184100	50.0	51.4	
9 Bromomethane	94	1.233	1.233	0.000	98	156614	50.0	50.4	
10 Chloroethane	64	1.290	1.290	0.000	100	125059	50.0	50.7	
11 Dichlorofluoromethane	67	1.392	1.392	0.000	98	303772	50.0	52.8	
12 Trichlorofluoromethane	101	1.427	1.427	0.000	98	303959	50.0	53.1	
13 Pentane	57	1.472	1.472	0.000	96	54355	100.0	91.7	
14 Ethanol	46	1.529	1.529	0.000	95	20667	2000.0	2065.5	
15 Ethyl ether	59	1.598	1.598	0.000	94	105727	50.0	48.9	
16 1,2-Dichloro-1,1,2-trifluoroetha	117	1.598	1.598	0.000	86	134506	50.0	46.1	
17 2-Methyl-1,3-butadiene	53	1.609	1.609	0.000	94	124724	50.0	44.4	
18 1,1,1-Trifluoro-2,2-dichloroetha	83	1.632	1.632	0.000	95	172291	50.0	46.5	
19 Acrolein	56	1.666	1.666	0.000	90	14521	100.0	87.6	
20 1,1-Dichloroethene	96	1.724	1.724	0.000	97	138133	50.0	46.3	
21 112TCTFE	101	1.735	1.735	0.000	94	128952	50.0	45.3	
22 Acetone	58	1.758	1.758	0.000	86	38727	250.0	226.3	
23 Iodomethane	142	1.826	1.826	0.000	98	290903	50.0	51.7	
24 Isopropyl alcohol	45	1.849	1.849	0.000	98	48363	500.0	477.3	
25 Carbon disulfide	76	1.861	1.861	0.000	100	462978	50.0	45.7	
26 Acetonitrile	38	1.952	1.952	0.000	74	53983	500.0	482.0	
27 3-Chloro-1-propene	76	1.952	1.952	0.000	89	100513	50.0	51.7	
28 Methyl acetate	43	1.963	1.963	0.000	98	109645	100.0	104.1	
29 Cyclopentene	67	2.009	2.009	0.000	96	290619	50.0	42.2	
30 Methylene Chloride	84	2.032	2.032	0.000	90	164189	50.0	46.4	
* 31 TBA-d9 (IS)	65	2.043	2.043	0.000	99	160772	1000.0	1000.0	
32 2-Methyl-2-propanol	59	2.100	2.100	0.000	98	81608	500.0	556.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Acrylonitrile	53	2.180	2.180	0.000	94	373094	500.0	529.9	
34 trans-1,2-Dichloroethene	96	2.214	2.214	0.000	68	151755	50.0	45.9	
35 Methyl tert-butyl ether	73	2.214	2.214	0.000	96	455309	50.0	48.3	
36 Hexane	57	2.420	2.420	0.000	92	119775	50.0	44.8	
37 1,1-Dichloroethane	63	2.500	2.500	0.000	100	258674	50.0	46.3	
38 Vinyl acetate	86	2.546	2.546	0.000	100	72722	100.0	102.3	
39 Isopropyl ether	45	2.568	2.568	0.000	85	492525	50.0	48.8	
40 2-Chloro-1,3-butadiene	88	2.580	2.580	0.000	94	156958	50.0	46.1	
41 Tert-butyl ethyl ether	59	2.842	2.842	0.000	91	496394	50.0	47.6	
* 43 2-Butanone-d5	46	2.911	2.911	0.000	99	215583	250.0	250.0	
44 2,2-Dichloropropane	97	2.945	2.945	0.000	81	58026	50.0	52.1	
45 cis-1,2-Dichloroethene	96	2.945	2.945	0.000	95	165580	50.0	45.8	
46 2-Butanone (MEK)	72	2.957	2.957	0.000	99	68507	250.0	241.2	
42 Propionitrile	54	3.002	3.002	0.000	97	136868	500.0	554.0	
47 Ethyl acetate	70	3.025	3.025	0.000	100	27788	100.0	94.4	
48 Methyl acrylate	55	3.048	3.048	0.000	99	123085	50.0	55.5	
50 Methacrylonitrile	67	3.128	3.128	0.000	89	506131	500.0	506.2	
49 Chlorobromomethane	128	3.139	3.139	0.000	79	99358	50.0	49.0	
51 Tetrahydrofuran	42	3.185	3.185	0.000	79	53989	100.0	92.3	
52 Chloroform	83	3.208	3.208	0.000	98	266927	50.0	46.6	
$ 53 Dibromofluoromethane (Surr)	113	3.345	3.345	0.000	98	163869	50.0	48.8	
54 1,1,1-Trichloroethane	97	3.368	3.368	0.000	98	273733	50.0	47.4	
55 Cyclohexane	84	3.413	3.413	0.000	92	184538	50.0	46.0	
56 Carbon tetrachloride	117	3.516	3.516	0.000	96	244879	50.0	46.4	
57 1,1-Dichloropropene	75	3.516	3.516	0.000	92	218244	50.0	47.1	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	3.642	3.642	0.000	0	165254	50.0	47.8	
61 Isobutyl alcohol	43	3.653	3.653	0.000	92	115111	1250.0	1507.9	a
59 Benzene	78	3.699	3.699	0.000	96	657838	50.0	48.1	
60 1,2-Dichloroethane	62	3.710	3.710	0.000	98	211815	50.0	48.1	
63 Isopropyl acetate	61	3.801	3.801	0.000	96	53456	50.0	51.3	
62 Isooctane	57	3.801	3.801	0.000	95	274635	50.0	46.2	
64 Tert-amyl methyl ether	73	3.824	3.824	0.000	98	483861	50.0	49.2	
* 65 Fluorobenzene	96	3.973	3.973	0.000	99	623490	50.0	50.0	
66 n-Heptane	43	3.996	3.996	0.000	94	108436	50.0	46.4	
67 Trichloroethene	95	4.338	4.338	0.000	95	174539	50.0	47.8	
68 n-Butanol	56	4.338	4.338	0.000	33	63879	1250.0	1441.4	
69 Ethyl acrylate	55	4.486	4.486	0.000	98	161392	50.0	48.3	
70 Methylcyclohexane	83	4.532	4.532	0.000	89	169105	50.0	46.1	
71 1,2-Dichloropropane	63	4.555	4.555	0.000	89	163615	50.0	48.2	
* 72 1,4-Dioxane-d8	96	4.669	4.669	0.000	0	32830	1000.0	1000.0	
73 Dibromomethane	93	4.681	4.681	0.000	89	96423	50.0	48.9	
74 1,4-Dioxane	88	4.726	4.726	0.000	90	31692	1000.0	1018.5	
75 Methyl methacrylate	100	4.738	4.738	0.000	86	90183	100.0	107.0	
76 n-Propyl acetate	43	4.818	4.818	0.000	98	186156	50.0	51.3	
77 Dichlorobromomethane	83	4.875	4.875	0.000	99	232930	50.0	49.3	
78 2-Nitropropane	41	5.126	5.126	0.000	99	78229	100.0	91.7	
79 2-Chloroethyl vinyl ether	63	5.263	5.263	0.000	95	97454	50.1	52.0	
80 Epichlorohydrin	57	5.297	5.297	0.000	99	249809	1000.0	1087.8	
81 cis-1,3-Dichloropropene	75	5.400	5.400	0.000	94	291528	50.0	51.5	
82 4-Methyl-2-pentanone (MIBK)	43	5.617	5.617	0.000	96	644661	250.0	261.6	
$ 83 Toluene-d8 (Surr)	98	5.719	5.719	0.000	99	653414	50.0	49.9	
84 Toluene	91	5.799	5.799	0.000	94	699876	50.0	47.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 trans-1,3-Dichloropropene	75	6.108	6.108	0.000	98	269844	50.0	52.6	
86 Ethyl methacrylate	69	6.290	6.290	0.000	88	195294	50.0	55.3	a
87 1,1,2-Trichloroethane	83	6.325	6.325	0.000	92	126129	50.0	50.2	
88 Tetrachloroethene	166	6.496	6.496	0.000	96	193975	50.0	48.3	
89 1,3-Dichloropropane	76	6.541	6.541	0.000	93	258409	50.0	49.8	
90 2-Hexanone	43	6.724	6.724	0.000	97	416081	250.0	279.2	
91 Chlorodibromomethane	129	6.838	6.838	0.000	98	203418	50.0	51.4	
93 Ethylene Dibromide	107	6.952	6.952	0.000	98	165342	50.0	49.2	
92 n-Butyl acetate	43	6.952	6.952	0.000	98	191026	50.0	53.2	
* 94 Chlorobenzene-d5	117	7.649	7.649	0.000	85	532547	50.0	50.0	
95 Chlorobenzene	112	7.683	7.683	0.000	97	496090	50.0	48.1	
96 1,1,1,2-Tetrachloroethane	131	7.820	7.820	0.000	94	195199	50.0	48.4	
97 Ethylbenzene	106	7.889	7.889	0.000	97	246639	50.0	48.7	
98 m-Xylene & p-Xylene	106	8.083	8.083	0.000	99	311176	50.0	48.7	
99 o-Xylene	106	8.665	8.665	0.000	95	305913	50.0	48.6	
100 Styrene	104	8.699	8.699	0.000	97	549409	50.0	51.0	
101 n-Butyl acrylate	73	8.756	8.756	0.000	96	110455	50.0	53.4	
102 Bromoform	173	8.916	8.916	0.000	98	151711	50.0	51.2	
103 Amyl acetate (mixed isomers)	43	9.145	9.145	0.000	91	246786	50.0	55.5	
104 Isopropylbenzene	105	9.270	9.270	0.000	95	654746	50.0	47.3	
$ 105 4-Bromofluorobenzene	174	9.476	9.476	0.000	96	251049	50.0	49.4	
106 Bromobenzene	156	9.658	9.658	0.000	86	250724	50.0	49.2	
107 1,1,2,2-Tetrachloroethane	83	9.772	9.772	0.000	97	188313	50.0	52.1	
108 1,2,3-Trichloropropane	75	9.795	9.795	0.000	96	143489	50.0	53.9	
109 trans-1,4-Dichloro-2-butene	75	9.875	9.875	0.000	93	81137	50.0	52.7	
110 N-Propylbenzene	91	9.932	9.932	0.000	100	689552	50.0	48.5	
111 2-Chlorotoluene	91	10.012	10.012	0.000	96	527482	50.0	52.8	
112 4-Ethyltoluene	105	10.138	10.138	0.000	99	630830	50.0	48.1	
113 4-Chlorotoluene	91	10.195	10.195	0.000	96	457057	50.0	43.5	
114 1,3,5-Trimethylbenzene	105	10.252	10.252	0.000	94	518233	50.0	48.9	
115 Butyl Methacrylate	87	10.537	10.537	0.000	92	223733	50.0	54.0	
116 tert-Butylbenzene	119	10.766	10.766	0.000	96	462536	50.0	47.8	
117 1,2,4-Trimethylbenzene	105	10.857	10.857	0.000	97	528846	50.0	48.9	
118 sec-Butylbenzene	105	11.131	11.131	0.000	99	598561	50.0	47.9	
119 1,3-Dichlorobenzene	146	11.222	11.222	0.000	98	410408	50.0	49.2	
* 120 1,4-Dichlorobenzene-d4	152	11.314	11.314	0.000	94	345637	50.0	50.0	
121 1,4-Dichlorobenzene	146	11.348	11.348	0.000	97	431500	50.0	48.1	
122 4-Isopropyltoluene	119	11.371	11.371	0.000	98	536641	50.0	49.0	
123 1,2,3-Trimethylbenzene	105	11.451	11.451	0.000	98	554604	50.0	48.2	
124 Benzyl chloride	126	11.542	11.542	0.000	100	89809	50.0	51.5	
125 2,3-Dihydroindene	117	11.645	11.645	0.000	95	686615	50.0	49.0	
126 1,2-Dichlorobenzene	146	11.759	11.759	0.000	98	432620	50.0	51.6	
127 p-Diethylbenzene	119	11.805	11.805	0.000	95	265798	50.0	49.0	
128 n-Butylbenzene	92	11.828	11.828	0.000	95	231758	50.0	51.3	
129 1,2-Dibromo-3-Chloropropane	157	12.444	12.444	0.000	94	55158	50.0	52.3	
130 1,2,4,5-Tetramethylbenzene	119	12.467	12.467	0.000	98	321120	50.0	49.6	
131 1,3,5-Trichlorobenzene	180	12.604	12.604	0.000	97	211677	50.0	49.3	
132 1,2,4-Trichlorobenzene	180	13.015	13.015	0.000	93	195887	50.0	51.4	
133 Hexachlorobutadiene	225	13.129	13.129	0.000	97	111614	50.0	46.5	
134 Naphthalene	128	13.152	13.152	0.000	99	381698	50.0	51.1	
135 1,2,3-Trichlorobenzene	180	13.289	13.289	0.000	96	164708	50.0	49.8	
S 137 1,2-Dichloroethene, Total	100				0		100.0	91.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 138 Xylenes, Total	100				0		100.0	97.3	
S 139 Total BTEX	1				0		250.0	241.4	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260SURR250_00226	Amount Added:	1.00	Units: uL	
8260MIX1COMB_00154	Amount Added:	50.00	Units: uL	
ACROLEIN W_00140	Amount Added:	10.00	Units: uL	
GASES Li_00476	Amount Added:	50.00	Units: uL	
524freon_00052	Amount Added:	50.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent

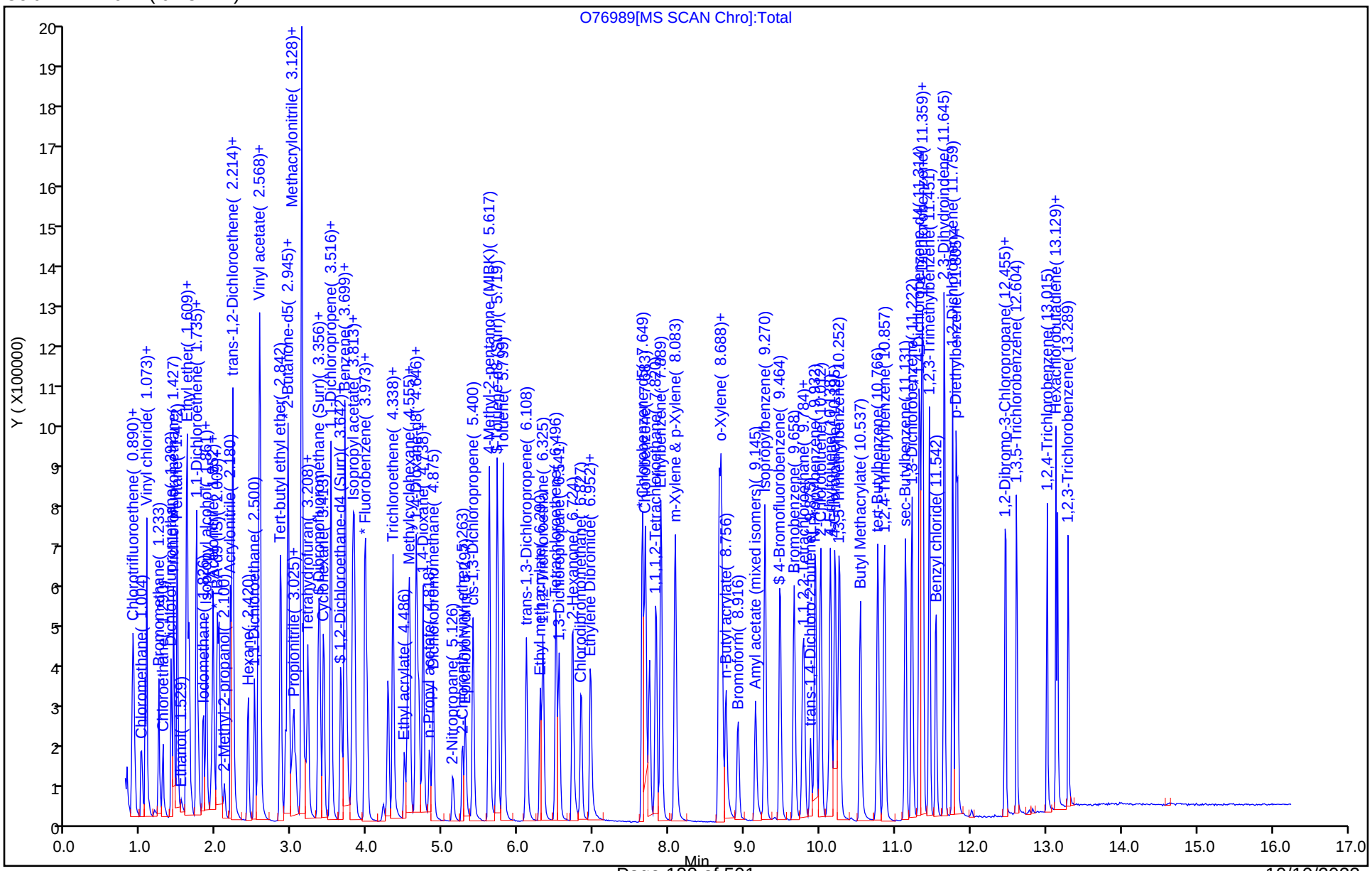
Report Date: 23-May-2022 17:00:35 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\O76989.d

Injection Date:	22-May-2022 10:27:30	Instrument ID:	CVOAMS12	Operator ID:	
Lims ID:	STD50			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260W_12	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



10/10/2023
12:43 PM

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\O76990.d
Lims ID: STD200
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 22-May-2022 10:51:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD200
Misc. Info.: 460-0145591-008
Operator ID: Instrument ID: CVOAMS12
Sublist: chrom-8260W_12*sub26

Method: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\8260W_12.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 23-May-2022 17:00:42 Calib Date: 22-May-2022 11:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\O76991.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: boykink Date: 22-May-2022 14:39:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116	0.879	0.879	0.000	86	256072	200.0	193.6	
3 Dichlorodifluoromethane	85	0.890	0.890	0.000	99	869830	200.0	217.1	
5 Chlorodifluoromethane	67	0.902	0.902	0.000	97	125073	200.0	198.9	
6 Chloromethane	50	0.993	1.004	-0.011	99	707029	200.0	191.0	
7 Vinyl chloride	62	1.050	1.050	0.000	98	728778	200.0	189.5	
8 Butadiene	54	1.073	1.073	0.000	96	668261	200.0	198.0	
9 Bromomethane	94	1.233	1.233	0.000	98	587407	200.0	200.5	
10 Chloroethane	64	1.290	1.290	0.000	100	442735	200.0	190.7	
11 Dichlorofluoromethane	67	1.392	1.392	0.000	98	1061871	200.0	195.8	
12 Trichlorofluoromethane	101	1.427	1.427	0.000	98	1089657	200.0	201.9	
13 Pentane	57	1.472	1.472	0.000	96	222907	400.0	408.3	
14 Ethanol	46	1.529	1.529	0.000	94	74131	8000.0	6187.4	
15 Ethyl ether	59	1.598	1.598	0.000	92	421737	200.0	206.8	
16 1,2-Dichloro-1,1,2-trifluoroetha	117	1.598	1.598	0.000	90	645821	200.0	234.8	
17 2-Methyl-1,3-butadiene	53	1.609	1.609	0.000	93	510693	200.0	192.9	
18 1,1,1-Trifluoro-2,2-dichloroetha	83	1.632	1.632	0.000	95	812476	200.0	232.9	
19 Acrolein	56	1.666	1.666	0.000	95	43145	200.0	221.4	
20 1,1-Dichloroethene	96	1.735	1.724	0.011	97	561849	200.0	199.6	
21 112TCTFE	101	1.735	1.735	0.000	94	549565	200.0	204.9	
22 Acetone	58	1.758	1.758	0.000	86	161441	1000.0	879.0	
23 Iodomethane	142	1.815	1.826	-0.011	98	1155709	200.0	217.9	
24 Isopropyl alcohol	45	1.849	1.849	0.000	98	214275	2000.0	1766.2	
25 Carbon disulfide	76	1.861	1.861	0.000	100	1851813	200.0	193.9	
26 Acetonitrile	38	1.952	1.952	0.000	97	213081	2000.0	1588.8	
27 3-Chloro-1-propene	76	1.952	1.952	0.000	87	393859	200.0	215.0	
28 Methyl acetate	43	1.963	1.963	0.000	99	524567	400.0	416.0	
29 Cyclopentene	67	2.009	2.009	0.000	96	1349500	200.0	208.0	
30 Methylene Chloride	84	2.032	2.032	0.000	89	632071	200.0	189.6	
* 31 TBA-d9 (IS)	65	2.043	2.043	0.000	99	192511	1000.0	1000.0	
32 2-Methyl-2-propanol	59	2.100	2.100	0.000	98	357093	2000.0	1975.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Acrylonitrile	53	2.180	2.180	0.000	94	1559786	2000.0	2197.6	
34 trans-1,2-Dichloroethene	96	2.214	2.214	0.000	91	666286	200.0	213.8	
35 Methyl tert-butyl ether	73	2.214	2.214	0.000	96	1726764	200.0	194.2	
36 Hexane	57	2.420	2.420	0.000	92	505073	200.0	200.4	
37 1,1-Dichloroethane	63	2.500	2.500	0.000	100	1136061	200.0	215.9	
38 Vinyl acetate	86	2.546	2.546	0.000	99	296343	400.0	388.4	
39 Isopropyl ether	45	2.568	2.568	0.000	86	1890779	200.0	198.7	
40 2-Chloro-1,3-butadiene	88	2.568	2.580	-0.012	92	655177	200.0	204.4	
41 Tert-butyl ethyl ether	59	2.842	2.842	0.000	91	1968157	200.0	200.3	
* 43 2-Butanone-d5	46	2.911	2.911	0.000	100	231372	250.0	250.0	
44 2,2-Dichloropropane	97	2.945	2.945	0.000	81	228273	200.0	219.3	
45 cis-1,2-Dichloroethene	96	2.945	2.945	0.000	96	727492	200.0	213.5	
46 2-Butanone (MEK)	72	2.957	2.957	0.000	99	272352	1000.0	893.6	
42 Propionitrile	54	3.002	3.002	0.000	98	578772	2000.0	1956.4	
47 Ethyl acetate	70	3.025	3.025	0.000	100	110335	400.0	349.2	
48 Methyl acrylate	55	3.048	3.048	0.000	99	482180	200.0	230.7	
50 Methacrylonitrile	67	3.128	3.128	0.000	90	2084719	2000.0	2212.3	
49 Chlorobromomethane	128	3.139	3.139	0.000	79	408755	200.0	214.0	
51 Tetrahydrofuran	42	3.173	3.185	-0.012	80	235274	400.0	374.6	
52 Chloroform	83	3.208	3.208	0.000	98	1133500	200.0	209.9	
$ 53 Dibromofluoromethane (Surr)	113	3.345	3.345	0.000	98	187547	50.0	59.2	
54 1,1,1-Trichloroethane	97	3.368	3.368	0.000	98	1101992	200.0	202.7	
55 Cyclohexane	84	3.413	3.413	0.000	90	766873	200.0	202.7	
56 Carbon tetrachloride	117	3.516	3.516	0.000	96	1000112	200.0	200.9	
57 1,1-Dichloropropene	75	3.516	3.516	0.000	92	868574	200.0	198.8	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	3.642	3.642	0.000	0	185503	50.0	56.9	
61 Isobutyl alcohol	43	3.653	3.653	0.000	98	457270	5000.0	5002.4	a
59 Benzene	78	3.699	3.699	0.000	96	2564372	200.0	179.8	
60 1,2-Dichloroethane	62	3.710	3.710	0.000	98	855760	200.0	206.4	
63 Isopropyl acetate	61	3.801	3.801	0.000	97	209059	200.0	212.8	
62 Isooctane	57	3.801	3.801	0.000	94	1104685	200.0	197.4	
64 Tert-amyl methyl ether	73	3.824	3.824	0.000	97	1857315	200.0	200.3	
* 65 Fluorobenzene	96	3.973	3.973	0.000	99	587564	50.0	50.0	
66 n-Heptane	43	3.996	3.996	0.000	91	425520	200.0	193.3	
67 Trichloroethene	95	4.338	4.338	0.000	94	671877	200.0	195.2	
68 n-Butanol	56	4.315	4.338	-0.023	87	292787	5000.0	5517.4	
69 Ethyl acrylate	55	4.486	4.486	0.000	99	695650	200.0	220.7	
70 Methylcyclohexane	83	4.532	4.532	0.000	90	707610	200.0	204.5	
71 1,2-Dichloropropane	63	4.555	4.555	0.000	89	639165	200.0	199.6	
* 72 1,4-Dioxane-d8	96	4.669	4.669	0.000	0	32975	1000.0	1000.0	
73 Dibromomethane	93	4.681	4.681	-0.001	89	394763	200.0	212.5	
74 1,4-Dioxane	88	4.726	4.726	0.000	92	122094	4000.0	3987.4	
75 Methyl methacrylate	100	4.738	4.738	0.000	85	353115	400.0	444.5	
76 n-Propyl acetate	43	4.818	4.818	0.000	98	755344	200.0	220.9	
77 Dichlorobromomethane	83	4.875	4.875	0.000	99	925490	200.0	207.8	
78 2-Nitropropane	41	5.126	5.126	0.000	99	325534	400.0	404.9	
79 2-Chloroethyl vinyl ether	63	5.251	5.263	-0.012	95	416133	200.5	235.6	
80 Epichlorohydrin	57	5.297	5.297	0.000	99	1051725	4000.0	4267.1	
81 cis-1,3-Dichloropropene	75	5.400	5.400	0.000	94	1148452	200.0	194.6	
82 4-Methyl-2-pentanone (MIBK)	43	5.617	5.617	0.000	96	2452655	1000.0	927.2	
$ 83 Toluene-d8 (Surr)	98	5.719	5.719	0.000	99	683370	50.0	50.1	
84 Toluene	91	5.799	5.799	0.000	94	2831886	200.0	183.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 trans-1,3-Dichloropropene	75	6.108	6.108	0.000	98	1080080	200.0	201.8	
86 Ethyl methacrylate	69	6.290	6.290	0.000	88	792146	200.0	215.3	a
87 1,1,2-Trichloroethane	83	6.325	6.325	0.000	92	479477	200.0	183.0	
88 Tetrachloroethene	166	6.496	6.496	0.000	96	805393	200.0	192.3	
89 1,3-Dichloropropane	76	6.541	6.541	0.000	93	1013407	200.0	187.4	
90 2-Hexanone	43	6.713	6.724	-0.011	96	1622454	1000.0	968.1	
91 Chlorodibromomethane	129	6.838	6.838	0.000	98	836748	200.0	202.7	
93 Ethylene Dibromide	107	6.952	6.952	0.000	99	666269	200.0	190.3	
92 n-Butyl acetate	43	6.952	6.952	0.000	98	817988	200.0	209.7	
* 94 Chlorobenzene-d5	117	7.649	7.649	0.000	83	555273	50.0	50.0	
95 Chlorobenzene	112	7.683	7.683	0.000	97	2014371	200.0	187.3	
96 1,1,1,2-Tetrachloroethane	131	7.832	7.820	0.012	95	803603	200.0	191.1	
97 Ethylbenzene	106	7.889	7.889	0.000	97	999065	200.0	189.4	
98 m-Xylene & p-Xylene	106	8.083	8.083	0.000	99	1261323	200.0	189.2	
99 o-Xylene	106	8.665	8.665	0.000	95	1266621	200.0	193.0	
100 Styrene	104	8.699	8.699	0.000	97	2260518	200.0	201.3	
101 n-Butyl acrylate	73	8.745	8.756	-0.011	97	479486	200.0	222.3	
102 Bromoform	173	8.916	8.916	0.000	98	674130	200.0	218.3	
103 Amyl acetate (mixed isomers)	43	9.145	9.145	0.000	91	1056359	200.0	219.1	
104 Isopropylbenzene	105	9.270	9.270	0.000	95	2776826	200.0	192.4	
$ 105 4-Bromofluorobenzene	174	9.476	9.476	0.000	96	280157	50.0	52.9	
106 Bromobenzene	156	9.658	9.658	0.000	86	1046750	200.0	189.5	
107 1,1,2,2-Tetrachloroethane	83	9.772	9.772	0.000	96	758507	200.0	196.1	
108 1,2,3-Trichloropropane	75	9.795	9.795	0.000	95	574478	200.0	198.4	
109 trans-1,4-Dichloro-2-butene	75	9.875	9.875	0.000	94	337370	200.0	202.4	
110 N-Propylbenzene	91	9.944	9.932	0.012	99	2850346	200.0	185.2	
111 2-Chlorotoluene	91	10.012	10.012	0.000	96	2107994	200.0	202.3	
112 4-Ethyltoluene	105	10.138	10.138	0.000	99	2622188	200.0	184.7	
113 4-Chlorotoluene	91	10.195	10.195	0.000	95	1886556	200.0	165.9	
114 1,3,5-Trimethylbenzene	105	10.252	10.252	0.000	94	2078594	200.0	181.1	
115 Butyl Methacrylate	87	10.537	10.537	0.000	90	966983	200.0	215.3	
116 tert-Butylbenzene	119	10.766	10.766	0.000	96	1940960	200.0	185.0	
117 1,2,4-Trimethylbenzene	105	10.857	10.857	0.000	96	2147735	200.0	183.3	
118 sec-Butylbenzene	105	11.131	11.131	0.000	98	2518223	200.0	186.1	
119 1,3-Dichlorobenzene	146	11.222	11.222	0.000	98	1683112	200.0	186.1	
* 120 1,4-Dichlorobenzene-d4	152	11.314	11.314	0.000	93	374531	50.0	50.0	
121 1,4-Dichlorobenzene	146	11.348	11.348	0.000	96	1751688	200.0	180.1	
122 4-Isopropyltoluene	119	11.371	11.371	0.000	98	2188100	200.0	184.6	
123 1,2,3-Trimethylbenzene	105	11.451	11.451	0.000	97	2310023	200.0	185.1	
124 Benzyl chloride	126	11.542	11.542	0.000	100	384165	200.0	203.2	
125 2,3-Dihydroindene	117	11.645	11.645	0.000	95	2761527	200.0	181.7	
126 1,2-Dichlorobenzene	146	11.759	11.759	0.000	98	1716291	200.0	188.8	
127 p-Diethylbenzene	119	11.805	11.805	0.000	96	1114284	200.0	189.7	
128 n-Butylbenzene	92	11.827	11.828	-0.001	96	904360	200.0	184.9	
129 1,2-Dibromo-3-Chloropropane	157	12.444	12.444	0.000	93	228937	200.0	200.1	
130 1,2,4,5-Tetramethylbenzene	119	12.467	12.467	0.000	98	1366299	200.0	194.8	
131 1,3,5-Trichlorobenzene	180	12.604	12.604	0.000	97	891462	200.0	191.6	
132 1,2,4-Trichlorobenzene	180	13.015	13.015	0.000	94	799943	200.0	193.6	
133 Hexachlorobutadiene	225	13.129	13.129	0.000	98	486906	200.0	187.0	
134 Naphthalene	128	13.152	13.152	0.000	99	1500213	200.0	185.4	
135 1,2,3-Trichlorobenzene	180	13.289	13.289	0.000	96	710663	200.0	198.5	
S 137 1,2-Dichloroethene, Total	100				0		400.0	427.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 138 Xylenes, Total	100				0		400.0	382.2	
S 139 Total BTEX	1				0		1000.0	934.8	

QC Flag Legend

Processing Flags
Review Flags
a - User Assigned ID

Reagents:

8260SURR250_00226	Amount Added:	1.00	Units: uL	
GAS Hi_00414	Amount Added:	20.00	Units: uL	
Ethanol mix_00064	Amount Added:	20.00	Units: uL	
MIX 2 Hi_00123	Amount Added:	20.00	Units: uL	
MIX I Hi_00150	Amount Added:	20.00	Units: uL	
8FreonHi_00044	Amount Added:	20.00	Units: uL	
ACROLEIN W_00140	Amount Added:	20.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent

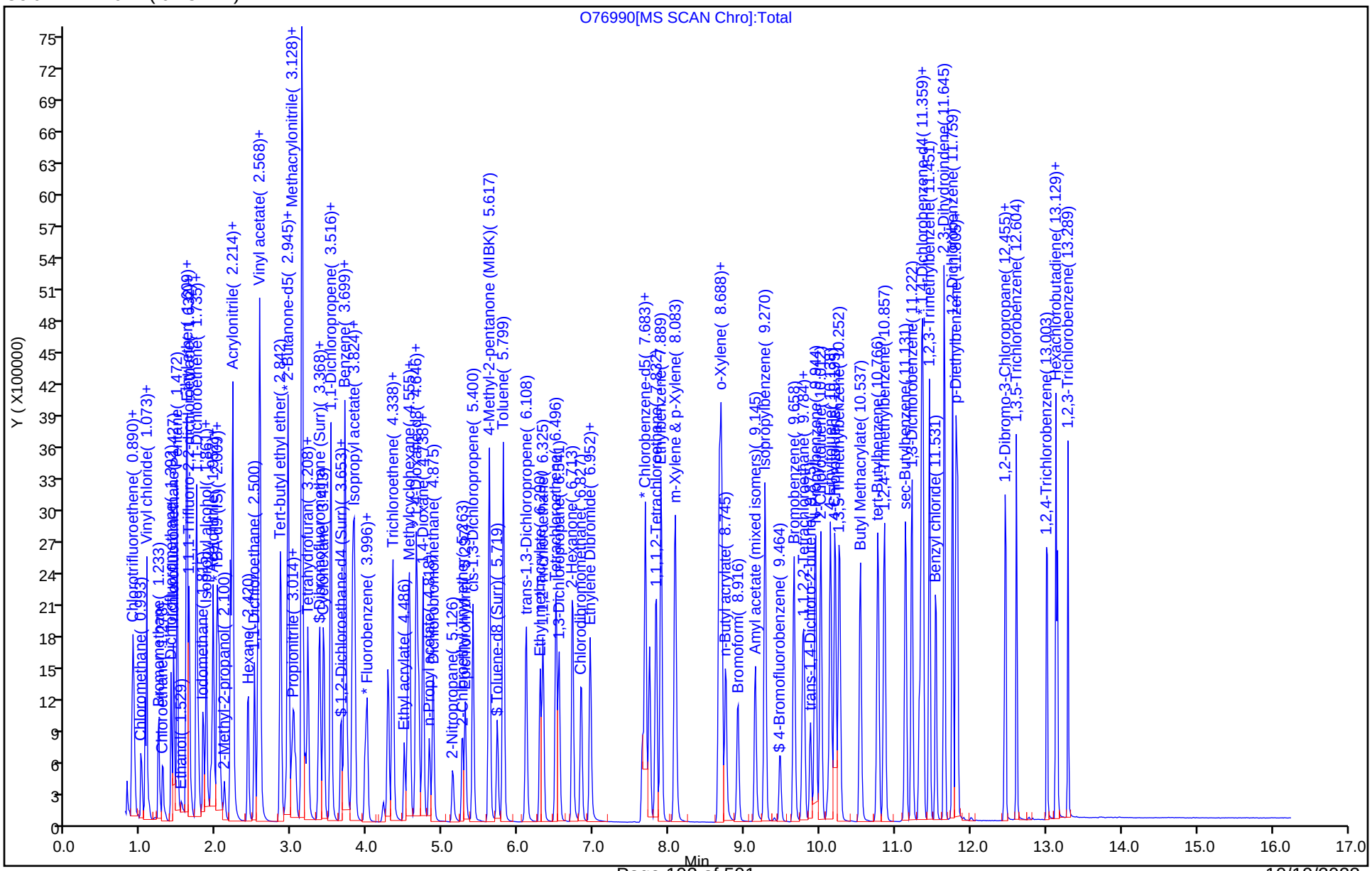
Report Date: 23-May-2022 17:00:43 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\O76990.d

Injection Date:	22-May-2022 10:51:30	Instrument ID:	CVOAMS12	Operator ID:	
Lims ID:	STD200			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260W_12	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



10/10/2023
12:43 PM

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\O76991.d
Lims ID: STD500
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 22-May-2022 11:15:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD500
Misc. Info.: 460-0145591-009
Operator ID: Instrument ID: CVOAMS12
Sublist: chrom-8260W_12*sub26

Method: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\8260W_12.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 23-May-2022 17:00:49 Calib Date: 22-May-2022 11:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\O76991.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: boykink Date: 22-May-2022 14:40:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116	0.879	0.879	0.000	86	654079	500.0	496.7	
3 Dichlorodifluoromethane	85	0.890	0.890	0.000	99	2346628	500.0	526.4	
5 Chlorodifluoromethane	67	0.901	0.902	-0.001	98	309516	500.0	442.4	
6 Chloromethane	50	0.993	1.004	-0.011	99	1912458	500.0	464.2	
7 Vinyl chloride	62	1.050	1.050	0.000	97	1996498	500.0	466.5	
8 Butadiene	54	1.073	1.073	0.000	95	1848251	500.0	492.3	
9 Bromomethane	94	1.221	1.233	-0.012	98	1240181	500.0	380.5	
10 Chloroethane	64	1.278	1.290	-0.012	99	1285714	500.0	497.6	
11 Dichlorofluoromethane	67	1.392	1.392	0.000	98	2929616	500.0	485.4	
12 Trichlorofluoromethane	101	1.427	1.427	0.000	98	3083093	500.0	513.5	
13 Pentane	57	1.472	1.472	0.000	96	592863	1000.0	999.7	
14 Ethanol	46	1.552	1.529	0.023	96	209573	20000	14811	
15 Ethyl ether	59	1.598	1.598	0.000	93	1114270	500.0	491.0	
16 1,2-Dichloro-1,1,2-trifluoroetha	117	1.598	1.598	0.000	94	1782923	500.0	582.5	
17 2-Methyl-1,3-butadiene	53	1.609	1.609	0.000	92	1333366	500.0	452.8	
18 1,1,1-Trifluoro-2,2-dichloroetha	83	1.632	1.632	0.000	93	2239489	500.0	576.9	
19 Acrolein	56	1.666	1.666	0.000	93	89227	400.0	389.4	
20 1,1-Dichloroethene	96	1.735	1.724	0.011	96	1505383	500.0	480.8	
21 112TCTFE	101	1.735	1.735	0.000	91	1486340	500.0	498.0	
22 Acetone	58	1.758	1.758	0.000	87	456000	2500.0	2493.6	
23 Iodomethane	142	1.815	1.826	-0.011	98	2985038	500.0	505.8	
24 Isopropyl alcohol	45	1.861	1.849	0.011	29	663020	5000.0	4627.2	
25 Carbon disulfide	76	1.861	1.861	-0.001	100	4947659	500.0	465.5	
26 Acetonitrile	38	1.952	1.952	0.000	89	529875	5000.0	3345.2	
27 3-Chloro-1-propene	76	1.952	1.952	0.000	90	1051237	500.0	515.7	
28 Methyl acetate	43	1.963	1.963	0.000	99	1559628	1000.0	1047.2	
29 Cyclopentene	67	2.009	2.009	0.000	97	3684788	500.0	510.6	
30 Methylene Chloride	84	2.032	2.032	0.000	89	1665537	500.0	449.1	
* 31 TBA-d9 (IS)	65	2.066	2.043	0.023	100	227367	1000.0	1000.0	
32 2-Methyl-2-propanol	59	2.112	2.100	0.012	98	1133885	5000.0	5002.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Acrylonitrile	53	2.192	2.180	0.012	95	4207265	5000.0	4821.3	
34 trans-1,2-Dichloroethene	96	2.214	2.214	0.000	89	1791610	500.0	516.6	
35 Methyl tert-butyl ether	73	2.214	2.214	0.000	96	4516676	500.0	456.6	
36 Hexane	57	2.409	2.420	-0.011	92	1360702	500.0	485.2	
37 1,1-Dichloroethane	63	2.500	2.500	0.000	99	3008329	500.0	513.9	
38 Vinyl acetate	86	2.546	2.546	0.000	99	726160	1000.0	955.8	
39 Isopropyl ether	45	2.568	2.568	0.000	89	4678950	500.0	441.9	
40 2-Chloro-1,3-butadiene	88	2.580	2.580	0.000	89	1764533	500.0	494.7	
41 Tert-butyl ethyl ether	59	2.854	2.842	0.012	91	5099191	500.0	466.5	
* 43 2-Butanone-d5	46	2.911	2.911	0.000	93	230371	250.0	250.0	
44 2,2-Dichloropropane	97	2.945	2.945	0.000	82	604161	500.0	522.4	
45 cis-1,2-Dichloroethene	96	2.945	2.945	0.000	98	1959277	500.0	516.8	
46 2-Butanone (MEK)	72	2.957	2.957	0.000	98	736581	2500.0	2427.2	
42 Propionitrile	54	3.014	3.002	0.012	96	1685789	5000.0	4824.8	
47 Ethyl acetate	70	3.025	3.025	0.000	100	294267	1000.0	935.4	
48 Methyl acrylate	55	3.048	3.048	0.000	99	1292783	500.0	556.0	
50 Methacrylonitrile	67	3.139	3.128	0.011	88	5443624	5000.0	5191.9	
49 Chlorobromomethane	128	3.151	3.139	0.012	58	1122184	500.0	528.1	
51 Tetrahydrofuran	42	3.185	3.185	0.000	93	670894	1000.0	1073.0	
52 Chloroform	83	3.208	3.208	0.000	98	3019212	500.0	502.6	
$ 53 Dibromofluoromethane (Surr)	113	3.345	3.345	0.000	99	199721	50.0	56.7	
54 1,1,1-Trichloroethane	97	3.368	3.368	0.000	97	2903392	500.0	479.9	
55 Cyclohexane	84	3.413	3.413	0.000	90	2029013	500.0	482.0	
56 Carbon tetrachloride	117	3.516	3.516	0.000	96	2665279	500.0	481.3	
57 1,1-Dichloropropene	75	3.516	3.516	0.000	92	2244299	500.0	461.6	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	3.642	3.642	0.000	0	197078	50.0	54.4	
61 Isobutyl alcohol	43	3.664	3.653	0.011	97	1406132	12500	13024	a
59 Benzene	78	3.699	3.699	0.000	95	6702618	500.0	425.2	
60 1,2-Dichloroethane	62	3.710	3.710	0.000	98	2214659	500.0	480.0	
63 Isopropyl acetate	61	3.813	3.801	0.012	98	558515	500.0	510.9	
62 Isooctane	57	3.801	3.801	0.000	95	3072250	500.0	493.3	
64 Tert-amyl methyl ether	73	3.836	3.824	0.012	98	4874226	500.0	472.4	
* 65 Fluorobenzene	96	3.973	3.973	0.000	99	653757	50.0	50.0	
66 n-Heptane	43	3.995	3.996	-0.001	89	1175186	500.0	479.9	
67 Trichloroethene	95	4.338	4.338	0.000	94	1774734	500.0	463.5	
68 n-Butanol	56	4.327	4.338	-0.011	87	908274	12500	14492	
69 Ethyl acrylate	55	4.486	4.486	0.000	99	2095610	500.0	597.5	
70 Methylcyclohexane	83	4.543	4.532	0.011	90	1900061	500.0	493.6	
71 1,2-Dichloropropane	63	4.566	4.555	0.011	89	1654998	500.0	464.6	
* 72 1,4-Dioxane-d8	96	4.680	4.669	0.011	0	39995	1000.0	1000.0	
73 Dibromomethane	93	4.680	4.681	-0.001	88	1053609	500.0	509.7	
74 1,4-Dioxane	88	4.726	4.726	0.000	94	355890	10000	10002	
75 Methyl methacrylate	100	4.738	4.738	0.000	84	967204	1000.0	1094.3	
76 n-Propyl acetate	43	4.829	4.818	0.011	98	1961979	500.0	515.8	
77 Dichlorobromomethane	83	4.875	4.875	0.000	98	2445650	500.0	493.5	
78 2-Nitropropane	41	5.137	5.126	0.011	99	908033	1000.0	1015.0	
79 2-Chloroethyl vinyl ether	63	5.263	5.263	0.000	94	1149496	501.2	584.8	
80 Epichlorohydrin	57	5.308	5.297	0.011	99	2904850	10000	11837	
81 cis-1,3-Dichloropropene	75	5.400	5.400	0.000	93	3005198	500.0	460.6	
82 4-Methyl-2-pentanone (MIBK)	43	5.628	5.617	0.011	94	6417326	2500.0	2436.7	
$ 83 Toluene-d8 (Surr)	98	5.719	5.719	0.000	100	723997	50.0	48.0	
84 Toluene	91	5.811	5.799	0.012	94	7503032	500.0	439.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 trans-1,3-Dichloropropene	75	6.108	6.108	0.000	98	2895390	500.0	489.5	
86 Ethyl methacrylate	69	6.290	6.290	0.000	88	2164784	500.0	532.3	a
87 1,1,2-Trichloroethane	83	6.336	6.325	0.011	91	1282719	500.0	442.9	
88 Tetrachloroethene	166	6.507	6.496	0.011	95	2209335	500.0	477.2	
89 1,3-Dichloropropane	76	6.541	6.541	0.000	93	2631725	500.0	440.4	
90 2-Hexanone	43	6.724	6.724	0.000	94	4546552	2500.0	2505.5	
91 Chlorodibromomethane	129	6.838	6.838	0.000	98	2313898	500.0	507.0	
93 Ethylene Dibromide	107	6.964	6.952	0.012	99	1793003	500.0	463.4	
92 n-Butyl acetate	43	6.952	6.952	0.000	98	2225187	500.0	489.8	
* 94 Chlorobenzene-d5	117	7.649	7.649	0.000	83	613750	50.0	50.0	
95 Chlorobenzene	112	7.683	7.683	0.000	97	5491276	500.0	461.9	
96 1,1,1,2-Tetrachloroethane	131	7.832	7.820	0.012	95	2208248	500.0	475.1	
97 Ethylbenzene	106	7.900	7.889	0.011	97	2771248	500.0	475.2	
98 m-Xylene & p-Xylene	106	8.083	8.083	0.000	98	3536690	500.0	479.9	
99 o-Xylene	106	8.665	8.665	0.000	96	3587554	500.0	494.7	
100 Styrene	104	8.699	8.699	0.000	97	6250419	500.0	503.6	
101 n-Butyl acrylate	73	8.756	8.756	0.000	98	1373761	500.0	576.2	
102 Bromoform	173	8.916	8.916	0.000	98	1985476	500.0	581.6	
103 Amyl acetate (mixed isomers)	43	9.145	9.145	-0.001	91	2884798	500.0	550.0	
104 Isopropylbenzene	105	9.282	9.270	0.012	95	7620764	500.0	477.6	
$ 105 4-Bromofluorobenzene	174	9.476	9.476	0.000	96	312189	50.0	53.3	
106 Bromobenzene	156	9.658	9.658	0.000	86	2943415	500.0	489.9	
107 1,1,2,2-Tetrachloroethane	83	9.772	9.772	0.000	97	2102091	500.0	502.5	
108 1,2,3-Trichloropropane	75	9.795	9.795	0.000	95	1585664	500.0	500.2	
109 trans-1,4-Dichloro-2-butene	75	9.875	9.875	0.000	96	896759	500.0	494.6	
110 N-Propylbenzene	91	9.944	9.932	0.012	99	7620329	500.0	455.1	
111 2-Chlorotoluene	91	10.024	10.012	0.012	96	5269580	500.0	495.7	
112 4-Ethyltoluene	105	10.149	10.138	0.011	98	7011819	500.0	453.9	
113 4-Chlorotoluene	91	10.206	10.195	0.011	95	4977813	500.0	402.4	
114 1,3,5-Trimethylbenzene	105	10.263	10.252	0.011	95	5448946	500.0	436.5	
115 Butyl Methacrylate	87	10.537	10.537	0.000	90	2723334	500.0	557.5	
116 tert-Butylbenzene	119	10.777	10.766	0.011	96	5318668	500.0	466.1	
117 1,2,4-Trimethylbenzene	105	10.857	10.857	0.000	96	5632278	500.0	442.0	
118 sec-Butylbenzene	105	11.142	11.131	0.011	98	6883390	500.0	467.6	
119 1,3-Dichlorobenzene	146	11.222	11.222	0.000	97	4593622	500.0	466.8	
* 120 1,4-Dichlorobenzene-d4	152	11.325	11.314	0.011	92	407400	50.0	50.0	
121 1,4-Dichlorobenzene	146	11.348	11.348	0.000	96	4709187	500.0	445.2	
122 4-Isopropyltoluene	119	11.371	11.371	0.000	98	5789965	500.0	449.0	
123 1,2,3-Trimethylbenzene	105	11.462	11.451	0.011	97	5956152	500.0	438.8	
124 Benzyl chloride	126	11.542	11.542	0.000	99	1079290	500.0	524.8	
125 2,3-Dihydroindene	117	11.656	11.645	0.011	96	7179501	500.0	434.2	
126 1,2-Dichlorobenzene	146	11.759	11.759	0.000	98	4567259	500.0	461.8	
127 p-Diethylbenzene	119	11.805	11.805	0.000	95	2928488	500.0	458.4	
128 n-Butylbenzene	92	11.827	11.828	-0.001	96	2362692	500.0	444.0	
129 1,2-Dibromo-3-Chloropropane	157	12.444	12.444	0.000	93	657309	500.0	528.3	
130 1,2,4,5-Tetramethylbenzene	119	12.467	12.467	0.000	98	3719660	500.0	487.5	
131 1,3,5-Trichlorobenzene	180	12.604	12.604	0.000	97	2406486	500.0	475.4	
132 1,2,4-Trichlorobenzene	180	13.015	13.015	0.000	93	2218620	500.0	493.5	
133 Hexachlorobutadiene	225	13.129	13.129	0.000	97	1273683	500.0	449.8	
134 Naphthalene	128	13.152	13.152	0.000	99	4259406	500.0	483.9	
135 1,2,3-Trichlorobenzene	180	13.289	13.289	0.000	95	1859319	500.0	477.4	
S 137 1,2-Dichloroethene, Total	100				0		1000.0	1033.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 138 Xylenes, Total	100				0		1000.0	974.6	
S 139 Total BTEX	1				0		2500.0	2314.6	

QC Flag Legend

Processing Flags
Review Flags
a - User Assigned ID

Reagents:

8260SURR250_00226	Amount Added:	1.00	Units: uL	
GAS Hi_00414	Amount Added:	50.00	Units: uL	
Ethanol mix_00064	Amount Added:	50.00	Units: uL	
MIX 2 Hi_00123	Amount Added:	50.00	Units: uL	
MIX I Hi_00150	Amount Added:	50.00	Units: uL	
8FreonHi_00044	Amount Added:	50.00	Units: uL	
ACROLEIN W_00140	Amount Added:	40.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 23-May-2022 17:00:50 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\O76991.d

Injection Date: 22-May-2022 11:15:30 Instrument ID: CVOAMS12 Operator ID:

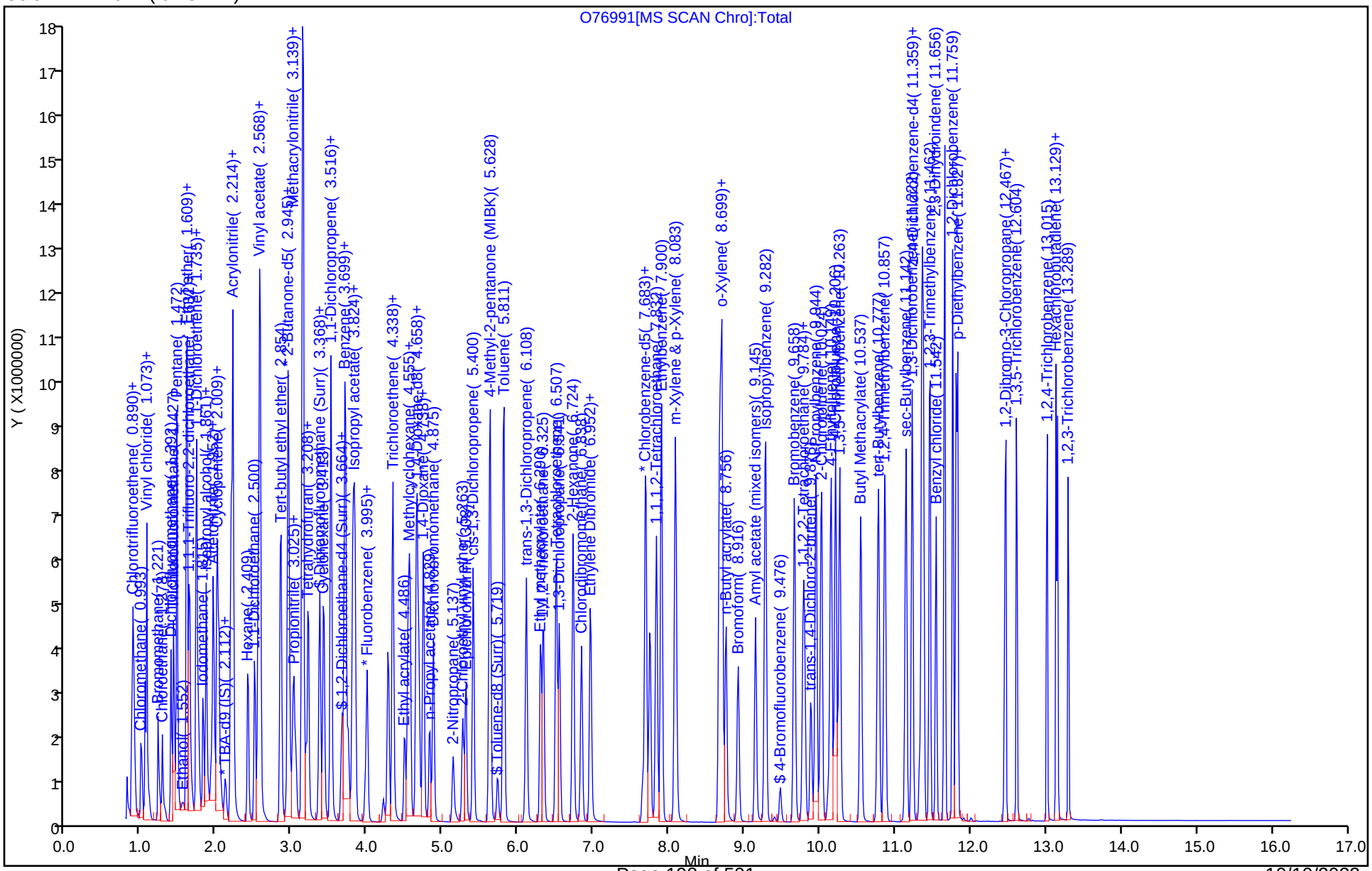
Lims ID: STD500 Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 8

Method: 8260W_12 Limit Group: VOA - 8260D Water and Solid

Column: DB-624 (0.18 mm)



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

Lab Name: Eurofins Edison Job No.: 460-258307-1 Analy Batch No.: 840582

SDG No.:

Instrument ID: CVOAMS7 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/22/2022 01:49 Calibration End Date: 04/22/2022 03:43 Calibration ID: 90258

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 460-840582/3	V18067.D
Level 2	STD5 460-840582/4	V18068.D
Level 3	STD20 460-840582/5	V18069.D
Level 4	STD50 460-840582/6	V18070.D
Level 5	STD200 460-840582/7	V18071.D
Level 6	STD500 460-840582/8	V18072.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.5181 0.7151	0.5136	0.5916	0.5724	0.7066	Ave		0.6029			0.1000	14.8		20.0			
Chlorodifluoromethane	0.1146 0.0877	0.0920	0.0910	0.0846	0.0844	Ave		0.0924				12.3		20.0			
Chloromethane	0.9230 0.9556	0.8354	0.7569	0.7572	0.8831	Ave		0.8519			0.1000	9.8		20.0			
Vinyl chloride	0.7823 0.8854	0.7781	0.7344	0.7273	0.8434	Ave		0.7918			0.1000	7.8		20.0			
Butadiene	0.7618 0.9348	0.6996	0.7087	0.7421	0.9153	Ave		0.7937				13.2		20.0			
Bromomethane	0.5349 0.2897	0.4601	0.3126	0.2781	0.3311	QuaF		0.3478	-0.000116		0.1000				0.9990		0.9900
Chloroethane	0.4491 0.3827	0.4477	0.3811	0.3643	0.4155	Ave		0.4067			0.1000	8.9		20.0			
Dichlorofluoromethane	1.1299 0.9829	0.9556	0.9240	0.8785	0.9360	Ave		0.9678				9.0		20.0			
Trichlorofluoromethane	0.6611 0.6709	0.5971	0.6228	0.5946	0.6492	Ave		0.6326			0.1000	5.2		20.0			
Pentane	0.0953 0.1219	0.0946	0.1167	0.1250	0.1207	Ave		0.1124				12.3		20.0			
Ethanol	0.0930 0.0895	0.1050	0.0664	0.0848	0.0859	Ave		0.0874				14.5		20.0			
Ethyl ether	0.6217 0.5858	0.5777	0.4669	0.4963	0.4983	Ave		0.5411				11.4		20.0			
2-Methyl-1,3-butadiene	0.5657 0.6559	0.5815	0.5338	0.5680	0.5828	Ave		0.5813				7.0		20.0			
1,2-Dichloro-1,1,2-trifluoroethane	0.4097 0.3713	0.3752	0.3484	0.3660	0.3570	Ave		0.3713				5.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Edison Job No.: 460-258307-1 Analy Batch No.: 840582

SDG No.:

Instrument ID: CVOAMS7 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/22/2022 01:49 Calibration End Date: 04/22/2022 03:43 Calibration ID: 90258

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1,1-Trifluoro-2,2-dichloroethane	0.8009 0.8036	0.7258	0.7276	0.7520	0.7459	Ave		0.7593				4.6		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3463 0.4985	0.4338	0.4414	0.4693	0.4620	Ave		0.4419			0.1000	11.8		20.0			
Acrolein	1.7274 1.4370	1.6340	1.5030	1.5299	1.4212	Ave		1.5421				7.7		20.0			
1,1-Dichloroethene	0.4220 0.4934	0.4736	0.4480	0.4539	0.4642	Ave		0.4592			0.1000	5.3		20.0			
Acetone	2.0265 1.5891	1.4398	1.3084	1.3096	1.5206	Ave		1.5323			0.0500	17.4		20.0			
Iodomethane	0.2131 0.3931	0.3961	0.4144	0.4359	0.4183	Lin2	-0.206	0.4223							0.9980		0.9900
Isopropyl alcohol	1.7379 1.3274	1.5639	1.2625	1.3432	1.3418	Ave		1.4295				12.8		20.0			
Carbon disulfide	2.1282 2.1619	2.1555	1.8968	1.9532	1.9563	Ave		2.0420			0.1000	5.8		20.0			
3-Chloro-1-propene	1.0690 1.2600	1.0831	0.9869	1.2001	1.1903	Ave		1.1316				9.0		20.0			
Methyl acetate	0.8380 0.7146	0.6635	0.5439	0.6062	0.6131	Ave		0.6632			0.1000	15.6		20.0			
Acetonitrile	1.4978 1.1283	1.5445	1.1976	1.2117	1.2558	Ave		1.3059				13.2		20.0			
Methylene Chloride	0.5927 0.6121	0.6793	0.5599	0.5791	0.5575	Ave		0.5968			0.1000	7.6		20.0			
2-Methyl-2-propanol	2.6368 1.8217	2.3654	1.9030	1.9315	1.8262	Ave		2.0808				16.3		20.0			
Methyl tert-butyl ether	1.5352 1.9754	1.8182	1.5679	1.7006	1.7027	Ave		1.7167			0.1000	9.5		20.0			
trans-1,2-Dichloroethene	0.5544 0.5913	0.6317	0.5518	0.5539	0.5425	Ave		0.5709			0.1000	6.0		20.0			
Acrylonitrile	7.6059 5.9272	7.9288	6.3959	6.3685	5.9323	Ave		6.6931				12.9		20.0			
Hexane	0.8657 1.3787	1.0315	1.0979	1.1979	1.1987	Ave		1.1284				15.4		20.0			
Isopropyl ether	2.3371 2.7108	2.3863	2.1396	2.3418	2.4760	Ave		2.3986				7.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Edison Job No.: 460-258307-1 Analy Batch No.: 840582

SDG No.:

Instrument ID: CVOAMS7 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/22/2022 01:49 Calibration End Date: 04/22/2022 03:43 Calibration ID: 90258

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1-Dichloroethane	1.3512 1.2254	1.2783	1.1150	1.1433	1.1381	Ave		1.2085			0.2000	7.7		20.0			
Vinyl acetate	0.6953 0.6817	0.7812	0.6763	0.6668	0.6622	Ave		0.6939				6.4		20.0			
2-Chloro-1,3-butadiene	0.4824 0.5912	0.5675	0.5097	0.5458	0.5540	Ave		0.5417				7.3		20.0			
Tert-butyl ethyl ether	0.6536 0.8073	0.7612	0.6835	0.7235	0.7493	Ave		0.7297				7.6		20.0			
2,2-Dichloropropane	0.3412 0.2779	0.2997	0.2550	0.2560	0.2523	Ave		0.2804				12.5		20.0			
cis-1,2-Dichloroethene	0.7542 0.6435	0.6664	0.5842	0.6009	0.5829	Ave		0.6387			0.1000	10.3		20.0			
Ethyl acetate	0.4965 0.4683	0.5809	0.4894	0.4889	0.4701	Ave		0.4990				8.4		20.0			
2-Butanone (MEK)	0.5579 0.5495	0.6343	0.5167	0.5524	0.5396	Ave		0.5584			0.0500	7.2		20.0			
Methyl acrylate	0.5672 0.7890	0.5820	0.5436	0.6614	0.7123	Ave		0.6426				14.9		20.0			
Propionitrile	0.7616 0.6494	0.8089	0.6532	0.6794	0.6442	Ave		0.6995				9.9		20.0			
Tetrahydrofuran	0.7628 0.5733	0.7559	0.6734	0.6414	0.5731	Ave		0.6633				12.7		20.0			
Chlorobromomethane	0.2804 0.2469	0.3000	0.2471	0.2613	0.2388	Ave		0.2624				9.0		20.0			
Methacrylonitrile	0.3095 0.3422	0.3447	0.2969	0.3322	0.3444	Ave		0.3283				6.2		20.0			
Chloroform	0.9477 0.9831	0.9961	0.8577	0.9198	0.8920	Ave		0.9327			0.2000	5.7		20.0			
Cyclohexane	0.8395 1.1378	1.0353	0.9949	1.0243	1.0151	Ave		1.0078			0.1000	9.6		20.0			
1,1,1-Trichloroethane	0.7584 0.7713	0.7765	0.6963	0.7040	0.6991	Ave		0.7343			0.1000	5.2		20.0			
Carbon tetrachloride	0.5389 0.5917	0.5686	0.5209	0.5609	0.5398	Ave		0.5535			0.1000	4.6		20.0			
1,1-Dichloropropene	0.7778 0.9644	0.9001	0.8124	0.8742	0.8616	Ave		0.8651				7.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Edison Job No.: 460-258307-1 Analy Batch No.: 840582

SDG No.:

Instrument ID: CVOAMS7 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/22/2022 01:49 Calibration End Date: 04/22/2022 03:43 Calibration ID: 90258

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Isobutyl alcohol	0.6169 0.6420	0.6517	0.5615	0.6263	0.6506	Ave		0.6248				5.4		20.0			
Benzene	3.5958 4.0521	3.8304	3.2909	3.4185	3.5129	Ave		3.6168			0.5000	7.7		20.0			
Isopropyl acetate	2.2401 2.8122	2.3392	2.0248	2.3241	2.4286	Ave		2.3615				11.0		20.0			
Tert-amyl methyl ether	1.8695 2.3968	2.0246	1.7921	2.0164	2.0716	Ave		2.0285				10.3		20.0			
1,2-Dichloroethane	0.7333 0.7482	0.7591	0.6515	0.6973	0.6725	Ave		0.7103			0.1000	6.1		20.0			
n-Heptane	1.0796 1.6690	1.3360	1.3418	1.4490	1.4557	Ave		1.3885				13.9		20.0			
n-Butanol	0.0979 0.3236	0.2146	0.2222	0.2747	0.3132	Qua2	-3.956	0.2535	0.0000066						0.9950		0.9900
Trichloroethene	0.5447 0.6219	0.5920	0.5452	0.5732	0.5596	Ave		0.5728			0.2000	5.2		20.0			
Ethyl acrylate	1.5249 2.4318	1.8004	1.8257	2.0667	2.1581	Ave		1.9680				16.2		20.0			
Methylcyclohexane	0.9230 1.3805	1.1150	1.1587	1.2875	1.2434	Ave		1.1847			0.1000	13.4		20.0			
1,2-Dichloropropane	0.7135 0.7915	0.7912	0.6900	0.7207	0.7155	Ave		0.7371			0.1000	5.9		20.0			
Methyl methacrylate	0.1682 0.1889	0.1499	0.1551	0.1760	0.1788	Ave		0.1695				8.7		20.0			
1,4-Dioxane	3.0296 +++++	2.7949	2.5310	2.0651	1.8761	Ave		2.4593				19.7		20.0			
n-Propyl acetate	0.9924 1.4072	1.1423	1.0569	1.2229	1.2829	Ave		1.1841				12.8		20.0			
Dibromomethane	0.4002 0.3369	0.3895	0.3205	0.3278	0.3201	Ave		0.3492				10.3		20.0			
Dichlorobromomethane	0.6632 0.7806	0.7775	0.6719	0.7078	0.7014	Ave		0.7171			0.2000	7.1		20.0			
2-Nitropropane	0.2300 0.2134	0.2091	0.1742	0.2019	0.2048	Ave		0.2056				8.9		20.0			
2-Chloroethyl vinyl ether	0.3218 0.4932	0.4108	0.3794	0.4480	0.4615	Ave		0.4191				14.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Edison Job No.: 460-258307-1 Analy Batch No.: 840582

SDG No.:

Instrument ID: CVOAMS7 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/22/2022 01:49 Calibration End Date: 04/22/2022 03:43 Calibration ID: 90258

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Epichlorohydrin	0.5179 0.5107	0.5671	0.4771	0.5068	0.4932	Ave		0.5121				6.0		20.0			
cis-1,3-Dichloropropene	1.2993 1.6513	1.4227	1.3201	1.4307	1.4458	Ave		1.4283			0.2000	8.8		20.0			
4-Methyl-2-pentanone (MIBK)	4.6267 3.9896	4.8705	4.2375	4.5000	4.4448	Ave		4.4449			0.0500	6.9		20.0			
Toluene	3.7329 3.9916	3.8196	3.3360	3.4635	3.5059	Ave		3.6416			0.4000	6.8		20.0			
trans-1,3-Dichloropropene	1.0272 1.4230	1.2641	1.1089	1.2362	1.2636	Ave		1.2205			0.1000	11.3		20.0			
Ethyl methacrylate	0.8129 1.0192	0.8365	0.7434	0.8901	0.8973	Ave		0.8666				10.8		20.0			
1,1,2-Trichloroethane	0.7380 0.6871	0.6707	0.5953	0.6427	0.6230	Ave		0.6595			0.1000	7.7		20.0			
Tetrachloroethene	0.6044 0.6669	0.6941	0.6254	0.6289	0.6104	Ave		0.6383			0.2000	5.5		20.0			
1,3-Dichloropropane	1.4363 1.4702	1.4139	1.2411	1.3428	1.3128	Ave		1.3695				6.3		20.0			
2-Hexanone	3.1050 3.2715	3.2347	2.8700	3.0902	3.1136	Ave		3.1142			0.0500	4.5		20.0			
n-Butyl acetate	0.2804 0.2787	0.2601	0.2192	0.2424	0.2541	Ave		0.2558				9.0		20.0			
Chlorodibromomethane	0.6440 0.6459	0.6072	0.5417	0.6040	0.5827	Ave		0.6043			0.1000	6.5		20.0			
Ethylene Dibromide	0.6472 0.6988	0.6657	0.6006	0.6630	0.6333	Ave		0.6515			0.1000	5.1		20.0			
Chlorobenzene	2.0506 2.1662	2.1894	1.9225	1.9702	1.9196	Ave		2.0364			0.5000	5.9		20.0			
Ethylbenzene	1.1698 1.2254	1.2788	1.0754	1.0974	1.0807	Ave		1.1546			0.1000	7.3		20.0			
1,1,1,2-Tetrachloroethane	0.6546 0.6350	0.6682	0.5468	0.6013	0.5769	Ave		0.6138				7.7		20.0			
m-Xylene & p-Xylene	1.3100 1.5199	1.4683	1.2797	1.3543	1.3157	Ave		1.3747			0.1000	7.1		20.0			
n-Butyl acrylate	0.7991 0.8269	0.6565	0.5516	0.6692	0.6898	Ave		0.6989				14.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Edison Job No.: 460-258307-1 Analy Batch No.: 840582

SDG No.:

Instrument ID: CVOAMS7 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/22/2022 01:49 Calibration End Date: 04/22/2022 03:43 Calibration ID: 90258

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
o-Xylene	1.4296 1.4450	1.4543	1.2430	1.3041	1.2690	Ave		1.3575			0.3000	7.1		20.0			
Styrene	2.2686 2.6378	2.4404	2.1346	2.2907	2.2609	Ave		2.3388			0.3000	7.5		20.0			
Amyl acetate (mixed isomers)	3.6432 4.4962	3.5521	3.1772	3.7393	3.9751	Ave		3.7638				11.8		20.0			
Bromoform	0.4126 0.4110	0.3708	0.3515	0.3818	0.3611	Ave		0.3815			0.1000	6.7		20.0			
Cumene	3.4588 3.6876	3.7274	3.2927	3.4365	3.4099	Ave		3.5021			0.1000	4.8		20.0			
Bromobenzene	1.7969 1.5302	1.5966	1.4151	1.5398	1.4308	Ave		1.5516				8.9		20.0			
1,1,2,2-Tetrachloroethane	2.5211 2.5064	2.3311	2.0248	2.3131	2.2773	Ave		2.3290			0.3000	7.8		20.0			
N-Propylbenzene	2.0762 2.0402	2.0707	1.8547	2.0225	1.9232	Ave		1.9979				4.5		20.0			
1,2,3-Trichloropropane	0.6487 0.5665	0.5758	0.4714	0.5693	0.5154	Ave		0.5578				10.8		20.0			
trans-1,4-Dichloro-2-butene	0.7449 0.8346	0.6925	0.6003	0.6778	0.7200	Ave		0.7117				10.9		20.0			
2-Chlorotoluene	1.7765 1.6012	1.6653	1.4518	1.5977	1.5376	Ave		1.6050				6.9		20.0			
4-Ethyltoluene	7.5285 7.5796	7.5801	6.9066	7.4165	7.6740	Ave		7.4475				3.7		20.0			
1,3,5-Trimethylbenzene	6.5463 6.1452	6.6907	5.9803	6.4851	6.3504	Ave		6.3663				4.2		20.0			
4-Chlorotoluene	5.9263 6.2588	5.8532	5.2632	5.6729	5.6693	Ave		5.7740				5.7		20.0			
Butyl Methacrylate	2.2748 2.6311	2.0089	1.8383	2.2610	2.3981	Ave		2.2354				12.6		20.0			
tert-Butylbenzene	5.1246 5.4265	5.4284	4.8092	5.2354	5.0188	Ave		5.1738				4.7		20.0			
1,2,4-Trimethylbenzene	5.6955 6.5174	6.5784	5.9850	6.4037	6.3113	Ave		6.2485				5.5		20.0			
sec-Butylbenzene	8.3212 7.4705	8.5764	7.9366	8.6193	8.5654	Ave		8.2482				5.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Edison Job No.: 460-258307-1 Analy Batch No.: 840582

SDG No.:

Instrument ID: CVOAMS7 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/22/2022 01:49 Calibration End Date: 04/22/2022 03:43 Calibration ID: 90258

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
4-Isopropyltoluene	7.2906 6.4188	7.1113	6.2766	6.8136	6.8066	Ave		6.7862				5.7		20.0			
1,3-Dichlorobenzene	3.1317 3.0731	3.3033	2.8344	3.0010	2.8866	Ave		3.0384			0.6000	5.6		20.0			
1,4-Dichlorobenzene	3.4223 3.1480	3.3240	2.8117	3.0695	2.9312	Ave		3.1178			0.5000	7.4		20.0			
1,2,3-Trimethylbenzene	7.0571 6.1509	6.9852	6.3266	6.6081	6.7620	Ave		6.6483				5.4		20.0			
Benzyl chloride	1.1379 0.8725	0.7760	0.7110	0.7807	0.8366	Ave		0.8524				17.6		20.0			
Indan	2.2519 2.1014	2.3927	2.0447	2.1287	2.0932	Ave		2.1688				6.0		20.0			
p-Diethylbenzene	3.4792 3.6948	3.5667	3.2534	3.5351	3.5746	Ave		3.5173				4.2		20.0			
n-Butylbenzene	4.1659 4.5197	4.1391	3.8061	4.1761	4.1579	Ave		4.1608				5.4		20.0			
1,2-Dichlorobenzene	3.3584 2.9958	3.0240	2.7009	2.8856	2.8115	Ave		2.9627			0.4000	7.7		20.0			
1,2,4,5-Tetramethylbenzene	6.5699 5.7657	6.4771	5.6188	6.1134	6.5880	Ave		6.1888				6.8		20.0			
1,2-Dibromo-3-Chloropropane	0.4475 0.4367	0.5268	0.3648	0.4140	0.4186	Ave		0.4347			0.0500	12.3		20.0			
1,3,5-Trichlorobenzene	2.3032 2.0867	2.2378	2.0310	2.0851	2.1817	Ave		2.1542				4.8		20.0			
1,2,4-Trichlorobenzene	2.0307 1.9844	2.2325	1.8579	2.0259	1.9807	Ave		2.0186			0.2000	6.0		20.0			
Hexachlorobutadiene	0.9264 0.8707	0.9683	0.8484	0.8990	0.8829	Ave		0.8993				4.8		20.0			
Naphthalene	7.7549 5.8881	6.7756	5.9155	6.5500	6.6917	Ave		6.5960				10.4		20.0			
1,2,3-Trichlorobenzene	2.1198 1.8572	1.9513	1.7308	1.8869	1.8537	Ave		1.8999				6.8		20.0			
Dibromofluoromethane (Surr)	0.2658 0.2514	0.2467	0.2545	0.2471	0.2485	Ave		0.2523				2.9		20.0			
1,2-Dichloroethane-d4 (Surr)	0.3092 0.3509	0.2992	0.2969	0.3061	0.3133	Ave		0.3126				6.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Edison Job No.: 460-258307-1 Analy Batch No.: 840582

SDG No.:

Instrument ID: CVOAMS7 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/22/2022 01:49 Calibration End Date: 04/22/2022 03:43 Calibration ID: 90258

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Toluene-d8 (Surr)	1.7384 1.7604	1.6426	1.6599	1.6393	1.6717	Ave		1.6854				3.1		20.0			
4-Bromofluorobenzene	0.9007 0.8810	0.8561	0.9113	0.9021	0.8717	Ave		0.8871				2.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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

Lab Name: Eurofins Edison | Job No.: 460-258307-1 | Analy Batch No.: 840582

SDG No.:

Instrument ID: CVOAMS7 | GC Column: DB-624 | ID: 0.18(mm) | Heated Purge: (Y/N) Y

Calibration Start Date: 04/22/2022 01:49 | Calibration End Date: 04/22/2022 03:43 | Calibration ID: 90258

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 460-840582/3	V18067.D
Level 2	STD5 460-840582/4	V18068.D
Level 3	STD20 460-840582/5	V18069.D
Level 4	STD50 460-840582/6	V18070.D
Level 5	STD200 460-840582/7	V18071.D
Level 6	STD500 460-840582/8	V18072.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	4484 3936993	22535	105499	278646	1431988	1.00 500	5.00	20.0	50.0	200
Chlorodifluoromethane	FB	Ave	992 482660	4038	16225	41207	171026	1.00 500	5.00	20.0	50.0	200
Chloromethane	FB	Ave	7989 5261103	36657	134986	368632	1789819	1.00 500	5.00	20.0	50.0	200
Vinyl chloride	FB	Ave	6771 4874823	34143	130972	354040	1709281	1.00 500	5.00	20.0	50.0	200
Butadiene	FB	Ave	6593 5146768	30696	126383	361256	1854948	1.00 500	5.00	20.0	50.0	200
Bromomethane	FB	QuaF	4630 1595019	20188	55743	135403	671051	1.00 500	5.00	20.0	50.0	200
Chloroethane	FB	Ave	3887 2107076	19646	67974	177325	842145	1.00 500	5.00	20.0	50.0	200
Dichlorofluoromethane	FB	Ave	9779 5411682	41930	164778	427688	1896996	1.00 500	5.00	20.0	50.0	200
Trichlorofluoromethane	FB	Ave	5722 3693888	26200	111072	289456	1315756	1.00 500	5.00	20.0	50.0	200
Pentane	FB	Ave	1649 1342814	8299	41611	121726	489093	2.00 1000	10.0	40.0	100	400
Ethanol	TBAd9	Ave	1339 1093385	7566	20737	76240	354823	40.0 20000	200	800	2000	8000
Ethyl ether	FB	Ave	5381 3225298	25348	83264	241628	1010007	1.00 500	5.00	20.0	50.0	200
2-Methyl-1,3-butadiene	FB	Ave	4896 3610947	25517	95190	276505	1181157	1.00 500	5.00	20.0	50.0	200
1,2-Dichloro-1,1,2-trifluoroethane	FB	Ave	3546 2044319	16464	62126	178194	723594	1.00 500	5.00	20.0	50.0	200
1,1,1-Trifluoro-2,2-dichloroethane	FB	Ave	6932 4424162	31849	129757	366102	1511732	1.00 500	5.00	20.0	50.0	200
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	2997	19033	78719	228461	936370	1.00	5.00	20.0	50.0	200

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

Lab Name: Eurofins Edison | Job No.: 460-258307-1 | Analy Batch No.: 840582

SDG No.:

Instrument ID: CVOAMS7 | GC Column: DB-624 | ID: 0.18(mm) | Heated Purge: (Y/N) Y

Calibration Start Date: 04/22/2022 01:49 | Calibration End Date: 04/22/2022 03:43 | Calibration ID: 90258

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			2744591					500				
Acrolein	TBAd9	Ave	63035 533974	119345	178610	279078	372124	101 608	203	304	406	507
1,1-Dichloroethene	FB	Ave	3652 2716511	20781	79888	220981	940777	1.00 500	5.00	20.0	50.0	200
Acetone	BUT	Ave	13735 9131901	49010	192539	571720	2979951	5.00 2500	25.0	100	250	1000
Iodomethane	FB	Lin2	1844 2164262	17382	73913	212213	847763	1.00 500	5.00	20.0	50.0	200
Isopropyl alcohol	TBAd9	Ave	6254 4053723	28162	98643	302043	1386018	10.0 5000	50.0	200	500	2000
Carbon disulfide	FB	Ave	18420 11902521	94582	338273	950843	3964878	1.00 500	5.00	20.0	50.0	200
3-Chloro-1-propene	FB	Ave	9252 6936951	47526	175995	584251	2412323	1.00 500	5.00	20.0	50.0	200
Methyl acetate	FB	Ave	14506 7869125	58226	194013	590250	2484999	2.00 1000	10.0	40.0	100	400
Acetonitrile	TBAd9	Ave	5390 3445715	27813	93571	272474	1297121	10.0 5000	50.0	200	500	2000
Methylene Chloride	FB	Ave	5130 3369802	29807	99845	281914	1129983	1.00 500	5.00	20.0	50.0	200
2-Methyl-2-propanol	TBAd9	Ave	9489 5563053	42596	148683	434331	1886361	10.0 5000	50.0	200	500	2000
Methyl tert-butyl ether	FB	Ave	13287 10876054	79782	279612	827879	3450883	1.00 500	5.00	20.0	50.0	200
trans-1,2-Dichloroethene	FB	Ave	4798 3255640	27717	98400	269662	1099529	1.00 500	5.00	20.0	50.0	200
Acrylonitrile	TBAd9	Ave	27371 18100802	142780	499723	1432083	6127659	10.0 5000	50.0	200	500	2000
Hexane	FB	Ave	7493 7590388	45259	195805	583169	2429504	1.00 500	5.00	20.0	50.0	200
Isopropyl ether	FB	Ave	20228 14924849	104706	381568	1140013	5018217	1.00 500	5.00	20.0	50.0	200
1,1-Dichloroethane	FB	Ave	11695 6746811	56088	198841	556572	2306534	1.00 500	5.00	20.0	50.0	200
Vinyl acetate	BUT	Ave	1885 1567044	10637	39811	116437	519119	2.00 1000	10.0	40.0	100	400
2-Chloro-1,3-butadiene	FB	Ave	4175 3254775	24899	90900	265686	1122867	1.00 500	5.00	20.0	50.0	200
Tert-butyl ethyl ether	FB	Ave	5657 4444412	33400	121894	352216	1518543	1.00 500	5.00	20.0	50.0	200

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

Lab Name: Eurofins Edison Job No.: 460-258307-1 Analy Batch No.: 840582

SDG No.:

Instrument ID: CVOAMS7 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/22/2022 01:49 Calibration End Date: 04/22/2022 03:43 Calibration ID: 90258

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
2,2-Dichloropropane	FB	Ave	2953 1530255	13151	45480	124650	511401	1.00 500	5.00	20.0	50.0	200
cis-1,2-Dichloroethene	FB	Ave	6528 3542988	29241	104178	292530	1181297	1.00 500	5.00	20.0	50.0	200
Ethyl acetate	BUT	Ave	1346 1076430	7910	28808	85372	368536	2.00 1000	10.0	40.0	100	400
2-Butanone (MEK)	BUT	Ave	3781 3157780	21593	76030	241172	1057373	5.00 2500	25.0	100	250	1000
Methyl acrylate	FB	Ave	4909 4343683	25539	96954	321979	1443606	1.00 500	5.00	20.0	50.0	200
Propionitrile	BUT	Ave	10324 7463901	55070	192249	593241	2524692	10.0 5000	50.0	200	500	2000
Tetrahydrofuran	BUT	Ave	2068 1317783	10292	39640	112014	449222	2.00 1000	10.0	40.0	100	400
Chlorobromomethane	FB	Ave	2427 1359348	13165	44076	127216	484032	1.00 500	5.00	20.0	50.0	200
Methacrylonitrile	FB	Ave	26790 18839339	151228	529448	1617193	6980742	10.0 5000	50.0	200	500	2000
Chloroform	FB	Ave	8202 5412367	43707	152954	447760	1807847	1.00 500	5.00	20.0	50.0	200
Cyclohexane	FB	Ave	7266 6264338	45428	177425	498627	2057258	1.00 500	5.00	20.0	50.0	200
1,1,1-Trichloroethane	FB	Ave	6564 4246309	34073	124172	342726	1416910	1.00 500	5.00	20.0	50.0	200
Carbon tetrachloride	FB	Ave	4664 3257750	24949	92896	273080	1094104	1.00 500	5.00	20.0	50.0	200
1,1-Dichloropropene	FB	Ave	6732 5309569	39497	144879	425572	1746117	1.00 500	5.00	20.0	50.0	200
Isobutyl alcohol	TBAd9	Ave	5550 4901687	29339	109681	352089	1679959	25.0 12500	125	500	1250	5000
Benzene	CBNZd5	Ave	23362 16233763	127661	445414	1277561	5383310	1.00 500	5.00	20.0	50.0	200
Isopropyl acetate	FB	Ave	19388 15483114	102640	361101	1131441	4922026	1.00 500	5.00	20.0	50.0	200
Tert-amyl methyl ether	FB	Ave	16181 13196074	88836	319609	981632	4198543	1.00 500	5.00	20.0	50.0	200
1,2-Dichloroethane	FB	Ave	6347 4119467	33309	116196	339461	1362917	1.00 500	5.00	20.0	50.0	200
n-Heptane	FB	Ave	9344 9188822	58623	239298	705385	2950316	1.00 500	5.00	20.0	50.0	200

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

Lab Name: Eurofins Edison | Job No.: 460-258307-1 | Analy Batch No.: 840582

SDG No.:

Instrument ID: CVOAMS7 | GC Column: DB-624 | ID: 0.18(mm) | Heated Purge: (Y/N) Y

Calibration Start Date: 04/22/2022 01:49 | Calibration End Date: 04/22/2022 03:43 | Calibration ID: 90258

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
n-Butanol	TBAd9	Qua2	881 2470822	9661	43403	154405	808667	25.0 12500	125	500	1250	5000
Trichloroethene	FB	Ave	4714 3423998	25974	97239	279042	1134085	1.00 500	5.00	20.0	50.0	200
Ethyl acrylate	FB	Ave	13198 13388793	79001	325594	1006124	4373843	1.00 500	5.00	20.0	50.0	200
Methylcyclohexane	FB	Ave	7989 7600713	48924	206642	626791	2520098	1.00 500	5.00	20.0	50.0	200
1,2-Dichloropropane	FB	Ave	6175 4357785	34719	123062	350832	1450043	1.00 500	5.00	20.0	50.0	200
Methyl methacrylate	FB	Ave	2912 2079495	13158	55338	171385	724645	2.00 1000	10.0	40.0	100	400
1,4-Dioxane	DXE	Ave	1819 +++++	8829	28400	77676	311658	20.0 +++++	100	400	1000	4000
n-Propyl acetate	FB	Ave	8589 7747753	50123	188482	595352	2599994	1.00 500	5.00	20.0	50.0	200
Dibromomethane	FB	Ave	3464 1854628	17091	57162	159560	648735	1.00 500	5.00	20.0	50.0	200
Dichlorobromomethane	FB	Ave	5740 4297710	34115	119822	344591	1421430	1.00 500	5.00	20.0	50.0	200
2-Nitropropane	FB	Ave	3982 2349835	18349	62131	196609	830261	2.00 1000	10.0	40.0	100	400
2-Chloroethyl vinyl ether	FB	Ave	2792 2722067	18070	67826	218642	937660	1.00 501	5.01	20.0	50.1	200
Epichlorohydrin	BUT	Ave	14040 11738798	77222	280855	884938	3865821	20.0 10000	100	400	1000	4000
cis-1,3-Dichloropropene	CBNZd5	Ave	8442 6615578	47417	178668	534697	2215592	1.00 500	5.00	20.0	50.0	200
4-Methyl-2-pentanone (MIBK)	BUT	Ave	31359 22926355	165792	623578	1964561	8710413	5.00 2500	25.0	100	250	1000
Toluene	CBNZd5	Ave	24253 15991738	127301	451525	1294392	5372515	1.00 500	5.00	20.0	50.0	200
trans-1,3-Dichloropropene	CBNZd5	Ave	6674 5701152	42129	150084	461999	1936307	1.00 500	5.00	20.0	50.0	200
Ethyl methacrylate	FB	Ave	7036 5611256	36703	132585	433321	1818649	1.00 500	5.00	20.0	50.0	200
1,1,2-Trichloroethane	CBNZd5	Ave	4795 2752665	22352	80575	240187	954739	1.00 500	5.00	20.0	50.0	200

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

Lab Name: Eurofins Edison | Job No.: 460-258307-1 | Analy Batch No.: 840582

SDG No.:

Instrument ID: CVOAMS7 | GC Column: DB-624 | ID: 0.18(mm) | Heated Purge: (Y/N) Y

Calibration Start Date: 04/22/2022 01:49 | Calibration End Date: 04/22/2022 03:43 | Calibration ID: 90258

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Tetrachloroethene	CBNZd5	Ave	3927 2671635	23132	84643	235023	935431	1.00 500	5.00	20.0	50.0	200
1,3-Dichloropropane	CBNZd5	Ave	9332 5890211	47123	167976	501817	2011730	1.00 500	5.00	20.0	50.0	200
2-Hexanone	BUT	Ave	21045 18799499	110108	422343	1349116	6101764	5.00 2500	25.0	100	250	1000
n-Butyl acetate	CBNZd5	Ave	1822 1116406	8670	29665	90581	389437	1.00 500	5.00	20.0	50.0	200
Chlorodibromomethane	CBNZd5	Ave	4184 2587829	20236	73320	225739	892938	1.00 500	5.00	20.0	50.0	200
Ethylene Dibromide	CBNZd5	Ave	4205 2799647	22188	81289	247793	970501	1.00 500	5.00	20.0	50.0	200
Chlorobenzene	CBNZd5	Ave	13323 8678381	72970	260214	736296	2941703	1.00 500	5.00	20.0	50.0	200
Ethylbenzene	CBNZd5	Ave	7600 4909199	42621	145560	410134	1656155	1.00 500	5.00	20.0	50.0	200
1,1,1,2-Tetrachloroethane	CBNZd5	Ave	4253 2544177	22271	74012	224732	884054	1.00 500	5.00	20.0	50.0	200
m-Xylene & p-Xylene	CBNZd5	Ave	8511 6089348	48937	173201	506126	2016262	1.00 500	5.00	20.0	50.0	200
n-Butyl acrylate	CBNZd5	Ave	5192 3312869	21880	74663	250109	1057117	1.00 500	5.00	20.0	50.0	200
o-Xylene	CBNZd5	Ave	9288 5789068	48469	168239	487354	1944652	1.00 500	5.00	20.0	50.0	200
Styrene	CBNZd5	Ave	14739 10567987	81335	288922	856093	3464592	1.00 500	5.00	20.0	50.0	200
Amyl acetate (mixed isomers)	DCBd4	Ave	11283 8695698	57013	200179	628528	2718382	1.00 500	5.00	20.0	50.0	200
Bromoform	CBNZd5	Ave	2681 1646703	12359	47580	142696	553406	1.00 500	5.00	20.0	50.0	200

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

Lab Name: Eurofins Edison | Job No.: 460-258307-1 | Analy Batch No.: 840582

SDG No.:

Instrument ID: CVOAMS7 | GC Column: DB-624 | ID: 0.18(mm) | Heated Purge: (Y/N) Y

Calibration Start Date: 04/22/2022 01:49 | Calibration End Date: 04/22/2022 03:43 | Calibration ID: 90258

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Cumene	CBNZd5	Ave	22472 14773593	124229	445667	1284272	5225419	1.00 500	5.00	20.0	50.0	200
Bromobenzene	DCBd4	Ave	5565 2959411	25626	89157	258825	978449	1.00 500	5.00	20.0	50.0	200
1,1,2,2-Tetrachloroethane	DCBd4	Ave	7808 4847493	37416	127571	388793	1557317	1.00 500	5.00	20.0	50.0	200
N-Propylbenzene	DCBd4	Ave	6430 3945821	33235	116857	339955	1315196	1.00 500	5.00	20.0	50.0	200
1,2,3-Trichloropropane	DCBd4	Ave	2009 1095602	9242	29702	95685	352463	1.00 500	5.00	20.0	50.0	200
trans-1,4-Dichloro-2-butene	DCBd4	Ave	2307 1614094	11115	37823	113933	492350	1.00 500	5.00	20.0	50.0	200
2-Chlorotoluene	DCBd4	Ave	5502 3096790	26729	91470	268543	1051521	1.00 500	5.00	20.0	50.0	200
4-Ethyltoluene	DCBd4	Ave	23316 14659006	121665	435153	1246602	5247900	1.00 500	5.00	20.0	50.0	200
1,3,5-Trimethylbenzene	DCBd4	Ave	20274 11884937	107389	376793	1090062	4342770	1.00 500	5.00	20.0	50.0	200
4-Chlorotoluene	DCBd4	Ave	18354 12104660	93946	331614	953529	3876967	1.00 500	5.00	20.0	50.0	200
Butyl Methacrylate	DCBd4	Ave	7045 5088615	32244	115826	380040	1639968	1.00 500	5.00	20.0	50.0	200
tert-Butylbenzene	DCBd4	Ave	15871 10494996	87129	303008	879998	3432150	1.00 500	5.00	20.0	50.0	200
1,2,4-Trimethylbenzene	DCBd4	Ave	17639 12604718	105586	377087	1076379	4316013	1.00 500	5.00	20.0	50.0	200
sec-Butylbenzene	DCBd4	Ave	25771 14447981	137655	500052	1448786	5857494	1.00 500	5.00	20.0	50.0	200
4-Isopropyltoluene	DCBd4	Ave	22579 12414002	114140	395460	1145275	4654758	1.00 500	5.00	20.0	50.0	200
1,3-Dichlorobenzene	DCBd4	Ave	9699 5943460	53020	178585	504419	1974049	1.00 500	5.00	20.0	50.0	200
1,4-Dichlorobenzene	DCBd4	Ave	10599 6088347	53352	177150	515939	2004518	1.00 500	5.00	20.0	50.0	200
1,2,3-Trimethylbenzene	DCBd4	Ave	21856 11895960	112116	398613	1110737	4624243	1.00 500	5.00	20.0	50.0	200
Benzyl chloride	DCBd4	Ave	3524 1687439	12455	44797	131230	572102	1.00 500	5.00	20.0	50.0	200
Indan	FB	Ave	19490 11569335	104988	364652	1036302	4242352	1.00 500	5.00	20.0	50.0	200

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

Lab Name: Eurofins Edison | Job No.: 460-258307-1 | Analy Batch No.: 840582

SDG No.:

Instrument ID: CVOAMS7 | GC Column: DB-624 | ID: 0.18(mm) | Heated Purge: (Y/N) Y

Calibration Start Date: 04/22/2022 01:49 | Calibration End Date: 04/22/2022 03:43 | Calibration ID: 90258

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
p-Diethylbenzene	DCBd4	Ave	10775 7145743	57248	204985	594195	2444503	1.00 500	5.00	20.0	50.0	200
n-Butylbenzene	DCBd4	Ave	12902 8741119	66435	239804	701946	2843432	1.00 500	5.00	20.0	50.0	200
1,2-Dichlorobenzene	DCBd4	Ave	10401 5793959	48537	170170	485032	1922676	1.00 500	5.00	20.0	50.0	200
1,2,4,5-Tetramethylbenzene	DCBd4	Ave	20347 11151006	103961	354017	1027576	4505218	1.00 500	5.00	20.0	50.0	200
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	1386 844566	8455	22982	69596	286247	1.00 500	5.00	20.0	50.0	200
1,3,5-Trichlorobenzene	DCBd4	Ave	7133 4035674	35918	127967	350474	1491944	1.00 500	5.00	20.0	50.0	200
1,2,4-Trichlorobenzene	DCBd4	Ave	6289 3837766	35832	117055	340524	1354495	1.00 500	5.00	20.0	50.0	200
Hexachlorobutadiene	DCBd4	Ave	2869 1683927	15542	53455	151105	603768	1.00 500	5.00	20.0	50.0	200
Naphthalene	DCBd4	Ave	24017 11387717	108751	372712	1100963	4576189	1.00 500	5.00	20.0	50.0	200
1,2,3-Trichlorobenzene	DCBd4	Ave	6565 3591763	31319	109051	317169	1267678	1.00 500	5.00	20.0	50.0	200
Dibromofluoromethane (Surr)	FB	Ave	115027 138398	108270	113467	120311	125892	50.0 50.0	50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	133807 193198	131301	132370	148997	158760	50.0 50.0	50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBNZd5	Ave	564715 705284	547434	561659	612642	640434	50.0 50.0	50.0	50.0	50.0	50.0
4-Bromofluorobenzene	DCBd4	Ave	139482 170384	137406	143539	151623	149028	50.0 50.0	50.0	50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua2 = Quadratic 1/conc^2 ISTD
QuaF = Quadratic ISTD forced zero

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18067.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 22-Apr-2022 01:49:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD1
Misc. Info.: 460-0144336-003
Operator ID: Instrument ID: CVOAMS7
Sublist: chrom-8260S_7*sub1

Method: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\8260S_7.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 22-Apr-2022 09:55:12 Calib Date: 22-Apr-2022 03:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18072.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1607

First Level Reviewer: boykink Date: 22-Apr-2022 02:13:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.286	1.286	0.000	79	4484	1.00	0.8593	
2 Chlorodifluoromethane	67	1.309	1.309	0.000	67	992	1.00	1.24	
3 Chloromethane	50	1.423	1.423	0.000	99	7989	1.00	1.08	
4 Vinyl chloride	62	1.480	1.492	-0.012	79	6771	1.00	0.9880	
5 Butadiene	54	1.503	1.503	0.000	94	6593	1.00	0.9598	
6 Bromomethane	94	1.709	1.709	0.000	92	4630	1.00	1.54	
7 Chloroethane	64	1.766	1.766	0.000	86	3887	1.00	1.10	
8 Dichlorofluoromethane	67	1.892	1.892	0.000	96	9779	1.00	1.17	
9 Trichlorofluoromethane	101	1.903	1.903	0.000	97	5722	1.00	1.05	
10 Pentane	72	1.938	1.938	0.000	96	1649	2.00	1.70	
11 Ethanol	46	2.052	2.052	0.000	82	1339	40.0	42.6	
12 Ethyl ether	59	2.086	2.086	0.000	96	5381	1.00	1.15	
13 2-Methyl-1,3-butadiene	53	2.109	2.109	0.000	94	4896	1.00	0.9732	
14 1,2-Dichloro-1,1,2-trifluoroetha	117	2.121	2.120	0.000	81	3546	1.00	1.10	
15 1,1,1-Trifluoro-2,2-dichloroetha	83	2.155	2.155	0.000	92	6932	1.00	1.05	
17 Acrolein	56	2.223	2.223	0.000	95	63035	101.4	113.6	
16 112TCTFE	101	2.223	2.223	0.000	28	2997	1.00	0.7836	
18 1,1-Dichloroethene	96	2.258	2.258	0.000	94	3652	1.00	0.9189	
19 Acetone	43	2.326	2.315	0.011	85	13735	5.00	6.61	
21 Iodomethane	142	2.383	2.383	0.000	22	1844	1.00	0.99	M
20 Isopropyl alcohol	45	2.406	2.383	0.023	23	6254	10.0	12.2	a
22 Carbon disulfide	76	2.418	2.418	0.000	99	18420	1.00	1.04	
23 3-Chloro-1-propene	39	2.521	2.509	0.012	83	9252	1.00	0.9447	
24 Methyl acetate	43	2.521	2.509	0.012	97	14506	2.00	2.53	
25 Acetonitrile	40	2.589	2.566	0.023	20	5390	10.0	11.5	Ma
* 26 TBA-d9 (IS)	65	2.589	2.589	0.000	0	359867	1000.0	1000.0	
27 Methylene Chloride	84	2.612	2.623	-0.011	99	5130	1.00	0.99	
28 2-Methyl-2-propanol	59	2.646	2.646	0.000	98	9489	10.0	12.7	
29 Methyl tert-butyl ether	73	2.738	2.738	0.000	96	13287	1.00	0.8943	
30 trans-1,2-Dichloroethene	96	2.783	2.772	0.011	94	4798	1.00	0.9710	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	2.841	2.829	0.012	97	27371	10.0	11.4	
32 Hexane	57	2.898	2.898	0.000	90	7493	1.00	0.7672	
33 Isopropyl ether	45	3.069	3.069	0.000	98	20228	1.00	0.9744	
34 1,1-Dichloroethane	63	3.115	3.115	0.000	87	11695	1.00	1.12	
35 Vinyl acetate	86	3.126	3.115	0.011	99	1885	2.00	2.00	
36 2-Chloro-1,3-butadiene	88	3.161	3.161	0.000	89	4175	1.00	0.8904	
37 Tert-butyl ethyl ether	87	3.355	3.355	0.000	88	5657	1.00	0.8957	
* 38 2-Butanone-d5	46	3.538	3.538	0.000	0	338889	250.0	250.0	
39 2,2-Dichloropropane	79	3.561	3.549	0.012	74	2953	1.00	1.22	
40 cis-1,2-Dichloroethene	96	3.584	3.583	0.001	54	6528	1.00	1.18	
41 Ethyl acetate	70	3.595	3.583	0.012	94	1346	2.00	1.99	
42 2-Butanone (MEK)	72	3.595	3.583	0.012	96	3781	5.00	5.00	
43 Methyl acrylate	55	3.664	3.641	0.023	29	4909	1.00	0.8827	
44 Propionitrile	54	3.732	3.709	0.023	93	10324	10.0	10.9	
45 Tetrahydrofuran	72	3.812	3.789	0.023	30	2068	2.00	2.30	
46 Chlorobromomethane	128	3.789	3.789	0.000	77	2427	1.00	1.07	
47 Methacrylonitrile	67	3.812	3.801	0.011	92	26790	10.0	9.43	
48 Chloroform	83	3.846	3.846	0.000	95	8202	1.00	1.02	
49 Cyclohexane	84	3.961	3.961	0.000	92	7266	1.00	0.8330	
50 1,1,1-Trichloroethane	97	3.972	3.972	0.000	90	6564	1.00	1.03	
$ 51 Dibromofluoromethane (Surr)	113	3.995	3.995	0.000	96	115027	50.0	52.7	
52 Carbon tetrachloride	117	4.086	4.086	0.000	96	4664	1.00	0.9736	
53 1,1-Dichloropropene	75	4.121	4.121	0.000	90	6732	1.00	0.8991	
54 Isobutyl alcohol	42	4.269	4.235	0.034	52	5550	25.0	24.7	M
55 Benzene	78	4.315	4.303	0.012	94	23362	1.00	0.99	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.326	4.326	0.000	0	133807	50.0	49.5	
57 Isopropyl acetate	43	4.349	4.349	0.000	92	19388	1.00	0.9486	
58 Tert-amyl methyl ether	73	4.361	4.361	0.000	88	16181	1.00	0.9216	
59 1,2-Dichloroethane	62	4.406	4.395	0.011	95	6347	1.00	1.03	
60 n-Heptane	43	4.452	4.452	0.000	94	9344	1.00	0.7775	
* 61 Fluorobenzene	96	4.589	4.589	0.000	99	432752	50.0	50.0	
62 n-Butanol	43	5.024	4.921	0.103	22	881	25.0	25.2	Ma
63 Trichloroethene	95	4.955	4.955	0.000	95	4714	1.00	0.9509	
64 Ethyl acrylate	55	5.069	5.069	0.000	91	13198	1.00	0.7749	a
65 Methylcyclohexane	83	5.069	5.069	0.000	90	7989	1.00	0.7791	
66 1,2-Dichloropropane	63	5.241	5.241	0.000	86	6175	1.00	0.9680	
* 67 1,4-Dioxane-d8	96	5.321	5.309	0.012	0	30020	1000.0	1000.0	
68 Methyl methacrylate	100	5.332	5.321	0.011	87	2912	2.00	1.99	M
69 1,4-Dioxane	88	5.389	5.366	0.023	24	1819	20.0	24.6	M
70 n-Propyl acetate	43	5.389	5.378	0.011	96	8589	1.00	0.8381	
71 Dibromomethane	93	5.378	5.378	0.000	66	3464	1.00	1.15	
72 Dichlorobromomethane	83	5.549	5.538	0.011	96	5740	1.00	0.9249	
73 2-Nitropropane	41	5.892	5.881	0.011	90	3982	2.00	2.24	M
74 2-Chloroethyl vinyl ether	63	5.904	5.892	0.012	64	2792	1.00	0.7696	
75 Epichlorohydrin	57	6.029	6.007	0.022	96	14040	20.0	20.2	
76 cis-1,3-Dichloropropene	75	6.075	6.075	0.000	94	8442	1.00	0.9097	
77 4-Methyl-2-pentanone (MIBK)	43	6.235	6.235	0.000	96	31359	5.00	5.20	
$ 78 Toluene-d8 (Surr)	98	6.327	6.327	0.000	98	564715	50.0	51.6	
79 Toluene	91	6.418	6.407	0.011	91	24253	1.00	1.03	
80 trans-1,3-Dichloropropene	75	6.818	6.818	0.000	95	6674	1.00	0.8416	
81 Ethyl methacrylate	69	6.852	6.841	0.011	72	7036	1.00	0.9381	
82 1,1,2-Trichloroethane	83	7.047	7.047	0.000	86	4795	1.00	1.12	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.104	7.092	0.012	88	3927	1.00	0.9469	
84 1,3-Dichloropropane	76	7.287	7.275	0.012	93	9332	1.00	1.05	
85 2-Hexanone	43	7.367	7.344	0.023	99	21045	5.00	4.99	
86 n-Butyl acetate	73	7.527	7.492	0.035	96	1822	1.00	1.10	
87 Chlorodibromomethane	129	7.550	7.538	0.012	92	4184	1.00	1.07	
88 Ethylene Dibromide	107	7.698	7.698	0.000	87	4205	1.00	0.99	
* 89 Chlorobenzene-d5	117	8.247	8.247	0.000	88	324855	50.0	50.0	
90 Chlorobenzene	112	8.281	8.270	0.011	89	13323	1.00	1.01	
91 Ethylbenzene	106	8.373	8.372	0.001	99	7600	1.00	1.01	
92 1,1,1,2-Tetrachloroethane	131	8.384	8.384	0.000	43	4253	1.00	1.07	
93 m-Xylene & p-Xylene	106	8.510	8.510	0.000	95	8511	1.00	0.9529	
94 o-Xylene	106	8.944	8.944	0.000	94	9288	1.00	1.05	
95 n-Butyl acrylate	73	8.944	8.944	0.000	63	5192	1.00	1.14	
96 Styrene	104	8.978	8.967	0.011	93	14739	1.00	0.9699	
97 Amyl acetate (mixed isomers)	43	9.184	9.173	0.011	88	11283	1.00	0.9679	
98 Bromoform	173	9.184	9.184	0.000	49	2681	1.00	1.08	
99 Isopropylbenzene	105	9.298	9.298	0.000	95	22472	1.00	0.9876	
$ 100 4-Bromofluorobenzene	174	9.504	9.504	0.000	83	139482	50.0	50.8	
101 Bromobenzene	156	9.630	9.630	0.000	92	5565	1.00	1.16	
102 1,1,2,2-Tetrachloroethane	83	9.687	9.687	0.000	51	7808	1.00	1.08	
103 N-Propylbenzene	120	9.698	9.698	0.000	98	6430	1.00	1.04	
104 1,2,3-Trichloropropane	110	9.721	9.721	0.000	87	2009	1.00	1.16	
105 trans-1,4-Dichloro-2-butene	53	9.744	9.744	0.000	63	2307	1.00	1.05	
106 2-Chlorotoluene	126	9.790	9.790	0.000	94	5502	1.00	1.11	
107 4-Ethyltoluene	105	9.801	9.801	0.000	91	23316	1.00	1.01	
108 1,3,5-Trimethylbenzene	105	9.870	9.870	0.000	93	20274	1.00	1.03	
109 4-Chlorotoluene	91	9.904	9.904	0.000	96	18354	1.00	1.03	
110 Butyl Methacrylate	87	9.961	9.961	0.000	97	7045	1.00	1.02	
111 tert-Butylbenzene	119	10.133	10.133	0.000	91	15871	1.00	0.99	
112 1,2,4-Trimethylbenzene	105	10.201	10.190	0.011	97	17639	1.00	0.9115	
113 sec-Butylbenzene	105	10.327	10.327	0.000	99	25771	1.00	1.01	
114 4-Isopropyltoluene	119	10.453	10.453	0.000	98	22579	1.00	1.07	
115 1,3-Dichlorobenzene	146	10.464	10.453	0.011	95	9699	1.00	1.03	
* 116 1,4-Dichlorobenzene-d4	152	10.521	10.521	0.000	97	154851	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.544	10.533	0.011	89	10599	1.00	1.10	
118 1,2,3-Trimethylbenzene	105	10.556	10.556	0.000	97	21856	1.00	1.06	
119 Benzyl chloride	126	10.658	10.658	0.000	96	3524	1.00	1.33	M
120 2,3-Dihydroindene	117	10.716	10.716	0.000	95	19490	1.00	1.04	
121 p-Diethylbenzene	119	10.761	10.761	0.000	92	10775	1.00	0.9892	
122 n-Butylbenzene	92	10.784	10.784	0.000	96	12902	1.00	1.00	
123 1,2-Dichlorobenzene	146	10.841	10.841	0.000	93	10401	1.00	1.13	
124 1,2,4,5-Tetramethylbenzene	119	11.379	11.378	0.001	94	20347	1.00	1.06	
125 1,2-Dibromo-3-Chloropropane	157	11.481	11.470	0.011	39	1386	1.00	1.03	
126 1,3,5-Trichlorobenzene	180	11.573	11.573	0.000	93	7133	1.00	1.07	
127 1,2,4-Trichlorobenzene	180	12.041	12.041	0.000	90	6289	1.00	1.01	
128 Hexachlorobutadiene	225	12.121	12.121	0.000	89	2869	1.00	1.03	
129 Naphthalene	128	12.224	12.224	0.000	98	24017	1.00	1.18	
130 1,2,3-Trichlorobenzene	180	12.396	12.396	0.000	93	6565	1.00	1.12	
S 131 1,2-Dichloroethene, Total	100				0		2.00	2.15	
S 132 1,3-Dichloropropene, Total	100				0		2.00	1.75	
S 133 Xylenes, Total	100				0		2.00	2.01	
S 134 Total BTEX	1				0		5.00	5.04	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260MIX1COMB_00153	Amount Added:	1.00	Units: uL	
524freon_00051	Amount Added:	1.00	Units: uL	
ACROLEIN W_00139	Amount Added:	10.00	Units: uL	
GASES Li_00472	Amount Added:	1.00	Units: uL	
8260SURR250_00226	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00117	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 22-Apr-2022 09:55:12 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18067.D

Injection Date: 22-Apr-2022 01:49:30 Instrument ID: CVOAMS7 Operator ID:

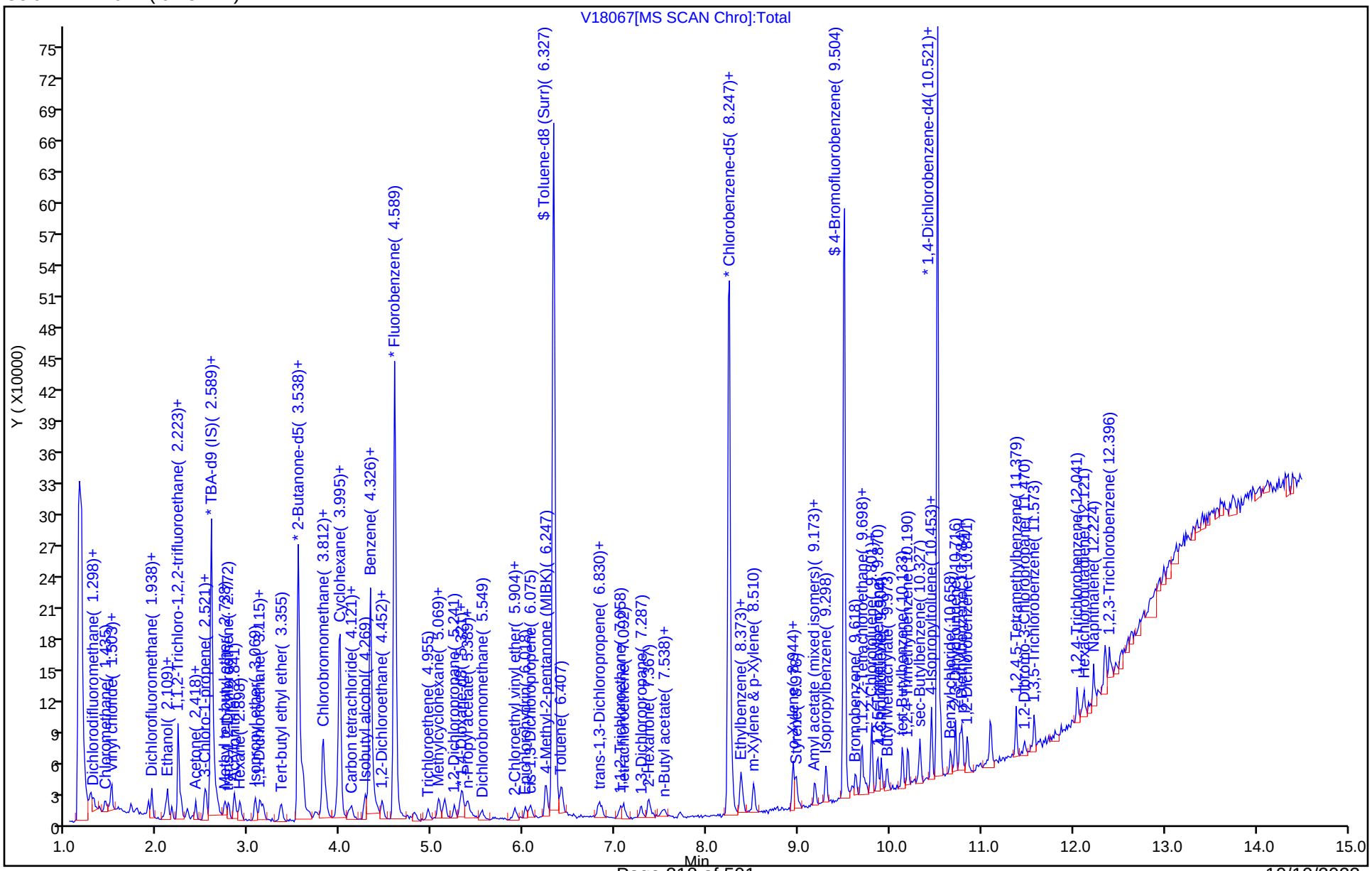
Lims ID: STD1 Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8260S_7 Limit Group: VOA - 8260D Water and Solid

Column: DB-624 (0.18 mm)



10/10/2023
12:43 PM

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18068.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 22-Apr-2022 02:12:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD5
Misc. Info.: 460-0144336-004
Operator ID: Instrument ID: CVOAMS7
Sublist: chrom-8260S_7*sub1

Method: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\8260S_7.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 22-Apr-2022 09:55:16 Calib Date: 22-Apr-2022 03:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18072.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1607

First Level Reviewer: boykink Date: 22-Apr-2022 02:33:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.286	1.286	0.000	99	22535	5.00	4.26	
2 Chlorodifluoromethane	67	1.309	1.309	0.000	97	4038	5.00	4.98	
3 Chloromethane	50	1.423	1.423	0.000	98	36657	5.00	4.90	
4 Vinyl chloride	62	1.492	1.492	0.000	82	34143	5.00	4.91	
5 Butadiene	54	1.503	1.503	0.000	98	30696	5.00	4.41	
6 Bromomethane	94	1.709	1.709	0.000	97	20188	5.00	6.63	
7 Chloroethane	64	1.777	1.766	0.011	98	19646	5.00	5.50	
8 Dichlorofluoromethane	67	1.903	1.892	0.011	98	41930	5.00	4.94	
9 Trichlorofluoromethane	101	1.915	1.903	0.012	97	26200	5.00	4.72	
10 Pentane	72	1.949	1.938	0.011	96	8299	10.0	8.42	
11 Ethanol	46	2.052	2.052	0.000	91	7566	200.0	240.3	
12 Ethyl ether	59	2.086	2.086	0.000	97	25348	5.00	5.34	
13 2-Methyl-1,3-butadiene	53	2.109	2.109	0.000	97	25517	5.00	5.00	
14 1,2-Dichloro-1,1,2-trifluoroetha	117	2.120	2.120	0.000	94	16464	5.00	5.05	
15 1,1,1-Trifluoro-2,2-dichloroetha	83	2.166	2.155	0.011	95	31849	5.00	4.78	
17 Acrolein	56	2.223	2.223	0.000	96	119345	202.8	214.9	
16 112TCTFE	101	2.223	2.223	0.000	92	19033	5.00	4.91	
18 1,1-Dichloroethene	96	2.258	2.258	0.000	94	20781	5.00	5.16	
19 Acetone	43	2.326	2.315	0.011	88	49010	25.0	23.5	
21 Iodomethane	142	2.383	2.383	0.000	95	17382	5.00	5.18	
20 Isopropyl alcohol	45	2.395	2.383	0.012	99	28162	50.0	54.7	
22 Carbon disulfide	76	2.418	2.418	0.000	99	94582	5.00	5.28	
23 3-Chloro-1-propene	39	2.520	2.509	0.011	92	47526	5.00	4.79	
24 Methyl acetate	43	2.520	2.509	0.011	98	58226	10.0	10.0	
25 Acetonitrile	40	2.578	2.566	0.012	89	27813	50.0	59.1	
* 26 TBA-d9 (IS)	65	2.589	2.589	0.000	0	360157	1000.0	1000.0	
27 Methylene Chloride	84	2.623	2.623	0.000	94	29807	5.00	5.69	
28 2-Methyl-2-propanol	59	2.658	2.646	0.012	99	42596	50.0	56.8	
29 Methyl tert-butyl ether	73	2.738	2.738	0.000	98	79782	5.00	5.30	
30 trans-1,2-Dichloroethene	96	2.783	2.772	0.011	96	27717	5.00	5.53	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	2.829	2.829	0.000	95	142780	50.0	59.2	
32 Hexane	57	2.898	2.898	0.000	95	45259	5.00	4.57	
33 Isopropyl ether	45	3.069	3.069	0.000	99	104706	5.00	4.97	
34 1,1-Dichloroethane	63	3.115	3.115	0.000	98	56088	5.00	5.29	
35 Vinyl acetate	86	3.115	3.115	0.000	100	10637	10.0	11.3	
36 2-Chloro-1,3-butadiene	88	3.160	3.161	-0.001	91	24899	5.00	5.24	
37 Tert-butyl ethyl ether	87	3.355	3.355	0.000	87	33400	5.00	5.22	
* 38 2-Butanone-d5	46	3.538	3.538	0.000	0	340398	250.0	250.0	
39 2,2-Dichloropropane	79	3.561	3.549	0.011	67	13151	5.00	5.34	
40 cis-1,2-Dichloroethene	96	3.583	3.583	0.000	90	29241	5.00	5.22	
41 Ethyl acetate	70	3.583	3.583	0.000	92	7910	10.0	11.6	
42 2-Butanone (MEK)	72	3.595	3.583	0.012	95	21593	25.0	28.4	
43 Methyl acrylate	55	3.652	3.641	0.011	99	25539	5.00	4.53	
44 Propionitrile	54	3.721	3.709	0.012	98	55070	50.0	57.8	
45 Tetrahydrofuran	72	3.801	3.789	0.012	78	10292	10.0	11.4	
46 Chlorobromomethane	128	3.801	3.789	0.012	97	13165	5.00	5.72	
47 Methacrylonitrile	67	3.801	3.801	0.000	92	151228	50.0	52.5	
48 Chloroform	83	3.846	3.846	0.000	98	43707	5.00	5.34	
49 Cyclohexane	84	3.961	3.961	0.000	93	45428	5.00	5.14	
50 1,1,1-Trichloroethane	97	3.972	3.972	0.000	94	34073	5.00	5.29	
$ 51 Dibromofluoromethane (Surr)	113	3.995	3.995	0.000	96	108270	50.0	48.9	
52 Carbon tetrachloride	117	4.098	4.086	0.012	96	24949	5.00	5.14	
53 1,1-Dichloropropene	75	4.121	4.121	0.000	97	39497	5.00	5.20	
54 Isobutyl alcohol	42	4.246	4.235	0.011	91	29339	125.0	130.4	
55 Benzene	78	4.315	4.303	0.012	95	127661	5.00	5.30	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.326	4.326	0.000	0	131301	50.0	47.9	
57 Isopropyl acetate	43	4.349	4.349	0.000	94	102640	5.00	4.95	
58 Tert-amyl methyl ether	73	4.361	4.361	0.000	91	88836	5.00	4.99	
59 1,2-Dichloroethane	62	4.406	4.395	0.011	95	33309	5.00	5.34	
60 n-Heptane	43	4.452	4.452	0.000	95	58623	5.00	4.81	
* 61 Fluorobenzene	96	4.589	4.589	0.000	98	438787	50.0	50.0	
62 n-Butanol	43	4.955	4.921	0.034	38	9661	125.0	121.0	
63 Trichloroethene	95	4.955	4.955	0.000	95	25974	5.00	5.17	
64 Ethyl acrylate	55	5.069	5.069	0.000	93	79001	5.00	4.57	
65 Methylcyclohexane	83	5.069	5.069	0.000	82	48924	5.00	4.71	
66 1,2-Dichloropropane	63	5.241	5.241	0.000	93	34719	5.00	5.37	
* 67 1,4-Dioxane-d8	96	5.309	5.309	0.000	0	31590	1000.0	1000.0	
68 Methyl methacrylate	100	5.321	5.321	0.000	95	13158	10.0	8.85	
69 1,4-Dioxane	88	5.378	5.366	0.012	28	8829	100.0	113.6	
70 n-Propyl acetate	43	5.378	5.378	0.000	98	50123	5.00	4.82	
71 Dibromomethane	93	5.389	5.378	0.011	50	17091	5.00	5.58	
72 Dichlorobromomethane	83	5.549	5.538	0.011	98	34115	5.00	5.42	
73 2-Nitropropane	41	5.892	5.881	0.011	83	18349	10.0	10.2	
74 2-Chloroethyl vinyl ether	63	5.904	5.892	0.012	86	18070	5.01	4.91	
75 Epichlorohydrin	57	6.018	6.007	0.011	99	77222	100.0	110.7	
76 cis-1,3-Dichloropropene	75	6.075	6.075	0.000	93	47417	5.00	4.98	
77 4-Methyl-2-pentanone (MIBK)	43	6.235	6.235	0.000	97	165792	25.0	27.4	
$ 78 Toluene-d8 (Surr)	98	6.326	6.327	-0.001	99	547434	50.0	48.7	
79 Toluene	91	6.407	6.407	-0.001	93	127301	5.00	5.24	
80 trans-1,3-Dichloropropene	75	6.818	6.818	0.000	97	42129	5.00	5.18	
81 Ethyl methacrylate	69	6.841	6.841	0.000	74	36703	5.00	4.83	
82 1,1,2-Trichloroethane	83	7.047	7.047	0.000	96	22352	5.00	5.08	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.092	7.092	0.000	94	23132	5.00	5.44	
84 1,3-Dichloropropane	76	7.275	7.275	0.000	95	47123	5.00	5.16	
85 2-Hexanone	43	7.355	7.344	0.011	98	110108	25.0	26.0	
86 n-Butyl acetate	73	7.504	7.492	0.012	98	8670	5.00	5.08	
87 Chlorodibromomethane	129	7.549	7.538	0.011	97	20236	5.00	5.02	
88 Ethylene Dibromide	107	7.698	7.698	0.000	100	22188	5.00	5.11	
* 89 Chlorobenzene-d5	117	8.247	8.247	0.000	89	333283	50.0	50.0	
90 Chlorobenzene	112	8.281	8.270	0.011	96	72970	5.00	5.38	
91 Ethylbenzene	106	8.372	8.372	0.000	99	42621	5.00	5.54	
92 1,1,1,2-Tetrachloroethane	131	8.395	8.384	0.011	96	22271	5.00	5.44	
93 m-Xylene & p-Xylene	106	8.510	8.510	0.000	97	48937	5.00	5.34	
94 o-Xylene	106	8.944	8.944	0.000	92	48469	5.00	5.36	
95 n-Butyl acrylate	73	8.944	8.944	0.000	61	21880	5.00	4.70	
96 Styrene	104	8.978	8.967	0.011	95	81335	5.00	5.22	
97 Amyl acetate (mixed isomers)	43	9.172	9.173	-0.001	90	57013	5.00	4.72	
98 Bromoform	173	9.184	9.184	0.000	89	12359	5.00	4.86	
99 Isopropylbenzene	105	9.298	9.298	0.000	95	124229	5.00	5.32	
$ 100 4-Bromofluorobenzene	174	9.504	9.504	0.000	82	137406	50.0	48.2	
101 Bromobenzene	156	9.630	9.630	0.000	93	25626	5.00	5.15	
102 1,1,2,2-Tetrachloroethane	83	9.687	9.687	0.000	99	37416	5.00	5.00	
103 N-Propylbenzene	120	9.698	9.698	0.000	99	33235	5.00	5.18	
104 1,2,3-Trichloropropane	110	9.721	9.721	0.000	97	9242	5.00	5.16	
105 trans-1,4-Dichloro-2-butene	53	9.744	9.744	0.000	78	11115	5.00	4.87	
106 2-Chlorotoluene	126	9.801	9.790	0.011	95	26729	5.00	5.19	
107 4-Ethyltoluene	105	9.801	9.801	0.000	98	121665	5.00	5.09	
108 1,3,5-Trimethylbenzene	105	9.870	9.870	0.000	94	107389	5.00	5.25	
109 4-Chlorotoluene	91	9.904	9.904	0.000	98	93946	5.00	5.07	
110 Butyl Methacrylate	87	9.961	9.961	0.000	99	32244	5.00	4.49	
111 tert-Butylbenzene	119	10.133	10.133	0.000	93	87129	5.00	5.25	
112 1,2,4-Trimethylbenzene	105	10.190	10.190	0.000	99	105586	5.00	5.26	
113 sec-Butylbenzene	105	10.327	10.327	0.000	99	137655	5.00	5.20	
114 4-Isopropyltoluene	119	10.453	10.453	0.000	98	114140	5.00	5.24	
115 1,3-Dichlorobenzene	146	10.453	10.453	0.000	94	53020	5.00	5.44	
* 116 1,4-Dichlorobenzene-d4	152	10.521	10.521	0.000	97	160505	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.544	10.533	0.011	94	53352	5.00	5.33	
118 1,2,3-Trimethylbenzene	105	10.555	10.556	-0.001	99	112116	5.00	5.25	
119 Benzyl chloride	126	10.658	10.658	0.000	98	12455	5.00	4.55	
120 2,3-Dihydroindene	117	10.716	10.716	0.000	95	104988	5.00	5.52	
121 p-Diethylbenzene	119	10.761	10.761	0.000	91	57248	5.00	5.07	
122 n-Butylbenzene	92	10.784	10.784	0.000	99	66435	5.00	4.97	
123 1,2-Dichlorobenzene	146	10.841	10.841	0.000	92	48537	5.00	5.10	
124 1,2,4,5-Tetramethylbenzene	119	11.378	11.378	0.000	97	103961	5.00	5.23	
125 1,2-Dibromo-3-Chloropropane	157	11.470	11.470	0.000	94	8455	5.00	6.06	
126 1,3,5-Trichlorobenzene	180	11.573	11.573	0.000	93	35918	5.00	5.19	
127 1,2,4-Trichlorobenzene	180	12.041	12.041	0.000	93	35832	5.00	5.53	
128 Hexachlorobutadiene	225	12.121	12.121	0.000	94	15542	5.00	5.38	
129 Naphthalene	128	12.224	12.224	0.000	98	108751	5.00	5.14	
130 1,2,3-Trichlorobenzene	180	12.396	12.396	0.000	95	31319	5.00	5.14	
S 131 1,2-Dichloroethene, Total	100				0		10.0	10.7	
S 132 1,3-Dichloropropene, Total	100				0		10.0	10.2	
S 133 Xylenes, Total	100				0		10.0	10.7	
S 134 Total BTEX	1				0		25.0	26.8	

QC Flag Legend

Processing Flags

Reagents:

8260MIX1COMB_00153	Amount Added:	5.00	Units: uL	
524freon_00051	Amount Added:	5.00	Units: uL	
ACROLEIN W_00139	Amount Added:	20.00	Units: uL	
GASES Li_00472	Amount Added:	5.00	Units: uL	
8260SURR250_00226	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00117	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 22-Apr-2022 09:55:16 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18068.D

Injection Date: 22-Apr-2022 02:12:30 Instrument ID: CVOAMS7 Operator ID:

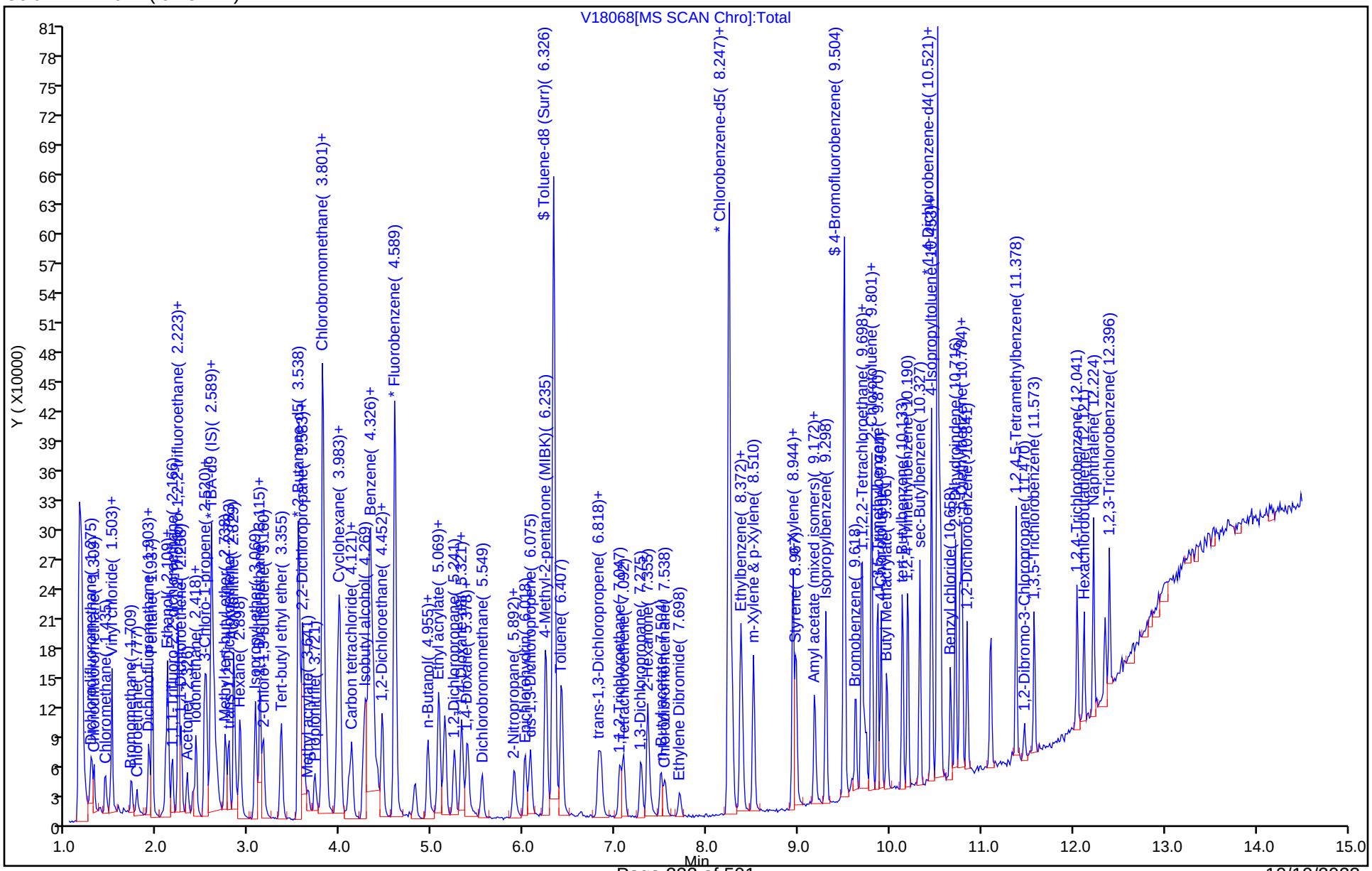
Lims ID: STD5 Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: 8260S_7 Limit Group: VOA - 8260D Water and Solid

Column: DB-624 (0.18 mm)



10/10/2023
12:43 PM

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18069.D
Lims ID: STD20
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 22-Apr-2022 02:34:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD20
Misc. Info.: 460-0144336-005
Operator ID: Instrument ID: CVOAMS7
Sublist: chrom-8260S_7*sub1

Method: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\8260S_7.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 22-Apr-2022 09:55:19 Calib Date: 22-Apr-2022 03:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18072.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1607

First Level Reviewer: boykink Date: 22-Apr-2022 02:53:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.286	1.286	0.000	99	105499	20.0	19.6	
2 Chlorodifluoromethane	67	1.309	1.309	0.000	97	16225	20.0	19.7	
3 Chloromethane	50	1.423	1.423	0.000	99	134986	20.0	17.8	
4 Vinyl chloride	62	1.492	1.492	0.000	97	130972	20.0	18.5	
5 Butadiene	54	1.503	1.503	0.000	98	126383	20.0	17.9	
6 Bromomethane	94	1.709	1.709	0.000	99	55743	20.0	18.1	
7 Chloroethane	64	1.766	1.766	0.000	100	67974	20.0	18.7	
8 Dichlorofluoromethane	67	1.892	1.892	0.000	98	164778	20.0	19.1	
9 Trichlorofluoromethane	101	1.903	1.903	0.000	96	111072	20.0	19.7	
10 Pentane	72	1.938	1.938	0.000	97	41611	40.0	41.5	
11 Ethanol	46	2.052	2.052	0.000	95	20737	800.0	607.2	
12 Ethyl ether	59	2.086	2.086	0.000	93	83264	20.0	17.3	
13 2-Methyl-1,3-butadiene	53	2.109	2.109	0.000	97	95190	20.0	18.4	
14 1,2-Dichloro-1,1,2-trifluoroetha	117	2.120	2.120	0.000	97	62126	20.0	18.8	
15 1,1,1-Trifluoro-2,2-dichloroetha	83	2.155	2.155	0.000	96	129757	20.0	19.2	
17 Acrolein	56	2.223	2.223	0.000	96	178610	304.2	296.5	
16 112TCTFE	101	2.223	2.223	0.000	92	78719	20.0	20.0	
18 1,1-Dichloroethene	96	2.258	2.258	0.000	96	79888	20.0	19.5	
19 Acetone	43	2.315	2.315	0.000	87	192539	100.0	85.4	
21 Iodomethane	142	2.383	2.383	0.000	96	73913	20.0	20.1	
20 Isopropyl alcohol	45	2.383	2.383	0.000	59	98643	200.0	176.6	
22 Carbon disulfide	76	2.418	2.418	0.000	99	338273	20.0	18.6	
23 3-Chloro-1-propene	39	2.509	2.509	0.000	92	175995	20.0	17.4	
24 Methyl acetate	43	2.509	2.509	0.000	98	194013	40.0	32.8	
25 Acetonitrile	40	2.566	2.566	0.000	100	93571	200.0	183.4	
* 26 TBA-d9 (IS)	65	2.589	2.589	0.000	0	390660	1000.0	1000.0	
27 Methylene Chloride	84	2.623	2.623	0.000	96	99845	20.0	18.8	
28 2-Methyl-2-propanol	59	2.646	2.646	0.000	98	148683	200.0	182.9	
29 Methyl tert-butyl ether	73	2.738	2.738	0.000	98	279612	20.0	18.3	
30 trans-1,2-Dichloroethene	96	2.772	2.772	0.000	96	98400	20.0	19.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	2.829	2.829	0.000	96	499723	200.0	191.1	
32 Hexane	57	2.898	2.898	0.000	93	195805	20.0	19.5	
33 Isopropyl ether	45	3.069	3.069	0.000	99	381568	20.0	17.8	
34 1,1-Dichloroethane	63	3.115	3.115	0.000	65	198841	20.0	18.5	
35 Vinyl acetate	86	3.115	3.115	0.000	100	39811	40.0	39.0	
36 2-Chloro-1,3-butadiene	88	3.161	3.161	0.000	91	90900	20.0	18.8	
37 Tert-butyl ethyl ether	87	3.355	3.355	0.000	88	121894	20.0	18.7	
* 38 2-Butanone-d5	46	3.538	3.538	0.000	0	367892	250.0	250.0	
39 2,2-Dichloropropane	79	3.549	3.549	0.000	95	45480	20.0	18.2	
40 cis-1,2-Dichloroethene	96	3.583	3.583	0.000	91	104178	20.0	18.3	
41 Ethyl acetate	70	3.583	3.583	0.000	95	28808	40.0	39.2	
42 2-Butanone (MEK)	72	3.583	3.583	0.000	96	76030	100.0	92.5	
43 Methyl acrylate	55	3.641	3.641	0.000	99	96954	20.0	16.9	
44 Propionitrile	54	3.709	3.709	0.000	99	192249	200.0	186.8	
45 Tetrahydrofuran	72	3.789	3.789	0.000	85	39640	40.0	40.6	
46 Chlorobromomethane	128	3.789	3.789	0.000	97	44076	20.0	18.8	
47 Methacrylonitrile	67	3.801	3.801	0.000	94	529448	200.0	180.8	
48 Chloroform	83	3.846	3.846	0.000	98	152954	20.0	18.4	
49 Cyclohexane	84	3.961	3.961	0.000	93	177425	20.0	19.7	
50 1,1,1-Trichloroethane	97	3.972	3.972	0.000	98	124172	20.0	19.0	
$ 51 Dibromofluoromethane (Surr)	113	3.995	3.995	0.000	96	113467	50.0	50.4	
52 Carbon tetrachloride	117	4.086	4.086	0.000	95	92896	20.0	18.8	
53 1,1-Dichloropropene	75	4.121	4.121	0.000	95	144879	20.0	18.8	
54 Isobutyl alcohol	42	4.235	4.235	0.000	91	109681	500.0	449.3	
55 Benzene	78	4.303	4.303	0.000	97	445414	20.0	18.2	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.326	4.326	0.000	0	132370	50.0	47.5	
57 Isopropyl acetate	43	4.349	4.349	0.000	95	361101	20.0	17.1	
58 Tert-amyl methyl ether	73	4.361	4.361	0.000	91	319609	20.0	17.7	
59 1,2-Dichloroethane	62	4.395	4.395	0.000	94	116196	20.0	18.3	
60 n-Heptane	43	4.452	4.452	0.000	94	239298	20.0	19.3	
* 61 Fluorobenzene	96	4.589	4.589	0.000	98	445850	50.0	50.0	
62 n-Butanol	43	4.921	4.921	0.000	89	43403	500.0	448.7	
63 Trichloroethene	95	4.955	4.955	0.000	97	97239	20.0	19.0	
64 Ethyl acrylate	55	5.069	5.069	0.000	93	325594	20.0	18.6	a
65 Methylcyclohexane	83	5.069	5.069	0.000	80	206642	20.0	19.6	
66 1,2-Dichloropropane	63	5.241	5.241	0.000	94	123062	20.0	18.7	
* 67 1,4-Dioxane-d8	96	5.309	5.309	0.000	0	28052	1000.0	1000.0	
68 Methyl methacrylate	100	5.321	5.321	0.000	95	55338	40.0	36.6	
69 1,4-Dioxane	88	5.366	5.366	0.000	30	28400	400.0	411.7	
70 n-Propyl acetate	43	5.378	5.378	0.000	98	188482	20.0	17.9	
71 Dibromomethane	93	5.378	5.378	0.000	87	57162	20.0	18.4	
72 Dichlorobromomethane	83	5.538	5.538	0.000	97	119822	20.0	18.7	
73 2-Nitropropane	41	5.881	5.881	0.000	97	62131	40.0	33.9	
74 2-Chloroethyl vinyl ether	63	5.892	5.892	0.000	95	67826	20.0	18.1	
75 Epichlorohydrin	57	6.007	6.007	0.000	99	280855	400.0	372.7	
76 cis-1,3-Dichloropropene	75	6.075	6.075	0.000	92	178668	20.0	18.5	
77 4-Methyl-2-pentanone (MIBK)	43	6.235	6.235	0.000	97	623578	100.0	95.3	
$ 78 Toluene-d8 (Surr)	98	6.327	6.327	0.000	99	561659	50.0	49.2	
79 Toluene	91	6.407	6.407	0.000	94	451525	20.0	18.3	
80 trans-1,3-Dichloropropene	75	6.818	6.818	0.000	98	150084	20.0	18.2	
81 Ethyl methacrylate	69	6.841	6.841	0.000	73	132585	20.0	17.2	
82 1,1,2-Trichloroethane	83	7.047	7.047	0.000	97	80575	20.0	18.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.092	7.092	0.000	94	84643	20.0	19.6	
84 1,3-Dichloropropane	76	7.275	7.275	0.000	95	167976	20.0	18.1	
85 2-Hexanone	43	7.344	7.344	0.000	97	422343	100.0	92.2	
86 n-Butyl acetate	73	7.492	7.492	0.000	99	29665	20.0	17.1	
87 Chlorodibromomethane	129	7.538	7.538	0.000	97	73320	20.0	17.9	
88 Ethylene Dibromide	107	7.698	7.698	0.000	98	81289	20.0	18.4	
* 89 Chlorobenzene-d5	117	8.247	8.247	0.000	88	338372	50.0	50.0	
90 Chlorobenzene	112	8.270	8.270	0.000	93	260214	20.0	18.9	
91 Ethylbenzene	106	8.372	8.372	0.000	99	145560	20.0	18.6	
92 1,1,1,2-Tetrachloroethane	131	8.384	8.384	0.000	96	74012	20.0	17.8	
93 m-Xylene & p-Xylene	106	8.510	8.510	0.000	99	173201	20.0	18.6	
94 o-Xylene	106	8.944	8.944	0.000	92	168239	20.0	18.3	
95 n-Butyl acrylate	73	8.944	8.944	0.000	66	74663	20.0	15.8	
96 Styrene	104	8.967	8.967	0.000	95	288922	20.0	18.3	
97 Amyl acetate (mixed isomers)	43	9.173	9.173	0.000	90	200179	20.0	16.9	
98 Bromoform	173	9.184	9.184	0.000	93	47580	20.0	18.4	
99 Isopropylbenzene	105	9.298	9.298	0.000	96	445667	20.0	18.8	
$ 100 4-Bromofluorobenzene	174	9.504	9.504	0.000	84	143539	50.0	51.4	
101 Bromobenzene	156	9.630	9.630	0.000	93	89157	20.0	18.2	
102 1,1,2,2-Tetrachloroethane	83	9.687	9.687	0.000	99	127571	20.0	17.4	
103 N-Propylbenzene	120	9.698	9.698	0.000	99	116857	20.0	18.6	
104 1,2,3-Trichloropropane	110	9.721	9.721	0.000	92	29702	20.0	16.9	
105 trans-1,4-Dichloro-2-butene	53	9.744	9.744	0.000	87	37823	20.0	16.9	
106 2-Chlorotoluene	126	9.790	9.790	0.000	96	91470	20.0	18.1	
107 4-Ethyltoluene	105	9.801	9.801	0.000	98	435153	20.0	18.5	
108 1,3,5-Trimethylbenzene	105	9.870	9.870	0.000	93	376793	20.0	18.8	
109 4-Chlorotoluene	91	9.904	9.904	0.000	98	331614	20.0	18.2	
110 Butyl Methacrylate	87	9.961	9.961	0.000	99	115826	20.0	16.4	
111 tert-Butylbenzene	119	10.133	10.133	0.000	93	303008	20.0	18.6	
112 1,2,4-Trimethylbenzene	105	10.190	10.190	0.000	98	377087	20.0	19.2	
113 sec-Butylbenzene	105	10.327	10.327	0.000	99	500052	20.0	19.2	
114 4-Isopropyltoluene	119	10.453	10.453	0.000	98	395460	20.0	18.5	
115 1,3-Dichlorobenzene	146	10.453	10.453	0.000	93	178585	20.0	18.7	
* 116 1,4-Dichlorobenzene-d4	152	10.521	10.521	0.000	95	157514	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.533	10.533	0.000	92	177150	20.0	18.0	
118 1,2,3-Trimethylbenzene	105	10.556	10.556	0.000	99	398613	20.0	19.0	
119 Benzyl chloride	126	10.658	10.658	0.000	98	44797	20.0	16.7	
120 2,3-Dihydroindene	117	10.716	10.716	0.000	95	364652	20.0	18.9	
121 p-Diethylbenzene	119	10.761	10.761	0.000	92	204985	20.0	18.5	
122 n-Butylbenzene	92	10.784	10.784	0.000	96	239804	20.0	18.3	
123 1,2-Dichlorobenzene	146	10.841	10.841	0.000	94	170170	20.0	18.2	
124 1,2,4,5-Tetramethylbenzene	119	11.378	11.378	0.000	97	354017	20.0	18.2	
125 1,2-Dibromo-3-Chloropropane	157	11.470	11.470	0.000	94	22982	20.0	16.8	
126 1,3,5-Trichlorobenzene	180	11.573	11.573	0.000	96	127967	20.0	18.9	
127 1,2,4-Trichlorobenzene	180	12.041	12.041	0.000	94	117055	20.0	18.4	
128 Hexachlorobutadiene	225	12.121	12.121	0.000	93	53455	20.0	18.9	
129 Naphthalene	128	12.224	12.224	0.000	99	372712	20.0	17.9	
130 1,2,3-Trichlorobenzene	180	12.396	12.396	0.000	94	109051	20.0	18.2	
S 131 1,2-Dichloroethene, Total	100				0		40.0	37.6	
S 132 1,3-Dichloropropene, Total	100				0		40.0	36.7	
S 133 Xylenes, Total	100				0		40.0	36.9	
S 134 Total BTEX	1				0		100.0	92.1	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260MIX1COMB_00153	Amount Added:	2.00	Units: uL	
524freon_00051	Amount Added:	2.00	Units: uL	
ACROLEIN W_00139	Amount Added:	3.00	Units: uL	
GASES Li_00472	Amount Added:	2.00	Units: uL	
8260SURR250_00226	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00117	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 22-Apr-2022 09:55:20 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18069.D

Injection Date: 22-Apr-2022 02:34:30 Instrument ID: CVOAMS7 Operator ID:

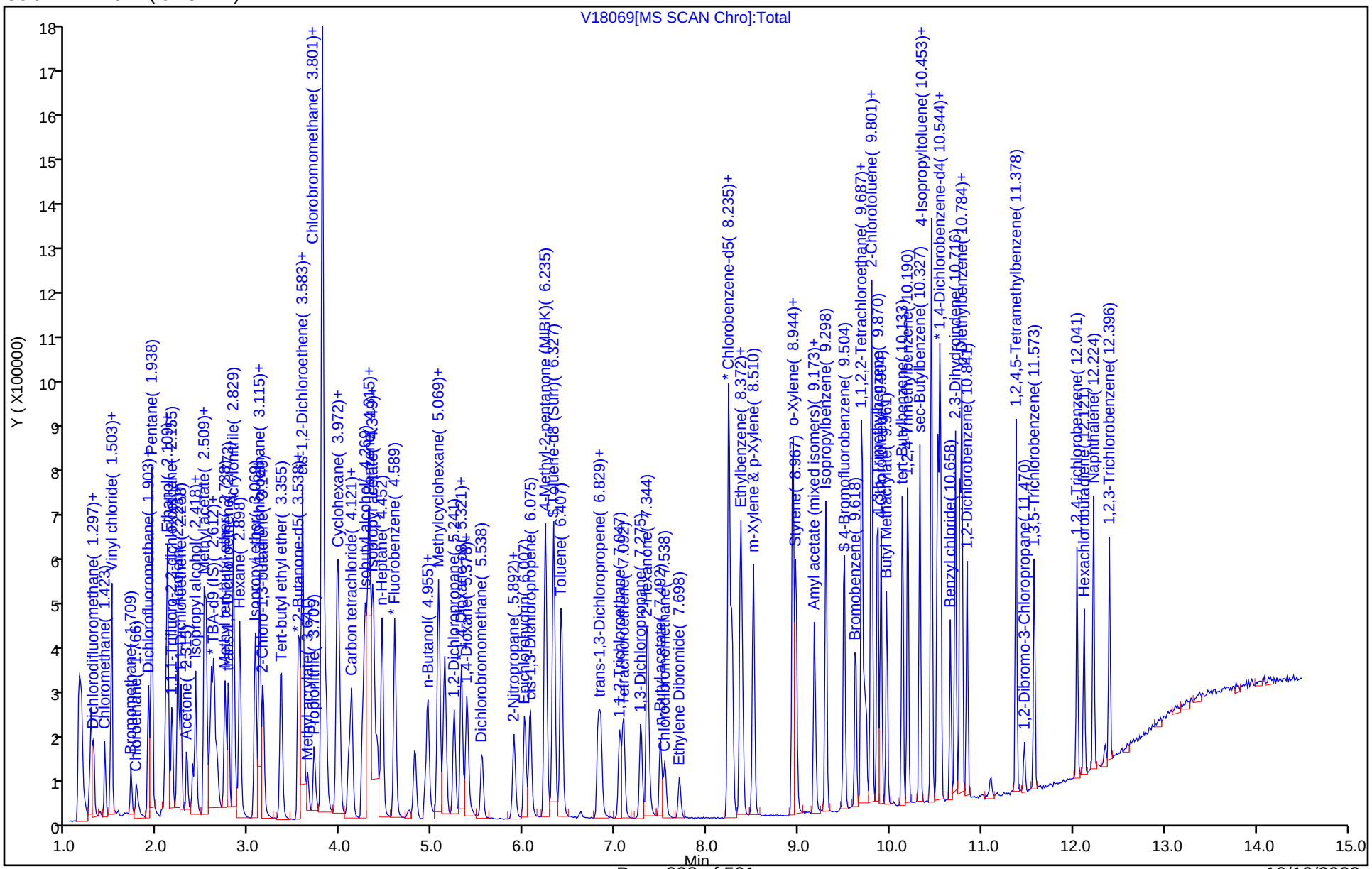
Lims ID: STD20 Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: 8260S_7 Limit Group: VOA - 8260D Water and Solid

Column: DB-624 (0.18 mm)



10/10/2023
12:43 PM

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18070.D
Lims ID: STD50
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 22-Apr-2022 02:57:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD50
Misc. Info.: 460-0144336-006
Operator ID: Instrument ID: CVOAMS7
Sublist: chrom-8260S_7*sub1

Method: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\8260S_7.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 22-Apr-2022 09:55:24 Calib Date: 22-Apr-2022 03:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18072.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1607

First Level Reviewer: boykink Date: 22-Apr-2022 03:15:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.286	1.286	0.000	98	278646	50.0	47.5	
2 Chlorodifluoromethane	67	1.309	1.309	0.000	97	41207	50.0	45.8	
3 Chloromethane	50	1.423	1.423	0.000	99	368632	50.0	44.4	
4 Vinyl chloride	62	1.492	1.492	0.000	97	354040	50.0	45.9	
5 Butadiene	54	1.503	1.503	0.000	99	361256	50.0	46.7	
6 Bromomethane	94	1.709	1.709	0.000	98	135403	50.0	40.5	
7 Chloroethane	64	1.766	1.766	0.000	99	177325	50.0	44.8	
8 Dichlorofluoromethane	67	1.903	1.892	0.011	98	427688	50.0	45.4	
9 Trichlorofluoromethane	101	1.903	1.903	0.000	98	289456	50.0	47.0	
10 Pentane	72	1.938	1.938	0.000	97	121726	100.0	111.3	
11 Ethanol	46	2.052	2.052	0.000	96	76240	2000.0	1939.0	
12 Ethyl ether	59	2.086	2.086	0.000	94	241628	50.0	45.9	
13 2-Methyl-1,3-butadiene	53	2.109	2.109	0.000	97	276505	50.0	48.9	
14 1,2-Dichloro-1,1,2-trifluoroetha	117	2.120	2.120	0.000	96	178194	50.0	49.3	
15 1,1,1-Trifluoro-2,2-dichloroetha	83	2.155	2.155	0.000	96	366102	50.0	49.5	
17 Acrolein	56	2.223	2.223	0.000	95	279078	405.6	402.4	
16 112TCTFE	101	2.223	2.223	0.000	94	228461	50.0	53.1	
18 1,1-Dichloroethene	96	2.258	2.258	0.000	96	220981	50.0	49.4	
19 Acetone	43	2.315	2.315	0.000	86	571720	250.0	213.7	
21 Iodomethane	142	2.383	2.383	0.000	96	212213	50.0	52.1	
20 Isopropyl alcohol	45	2.395	2.383	0.012	98	302043	500.0	469.8	
22 Carbon disulfide	76	2.418	2.418	0.000	99	950843	50.0	47.8	
23 3-Chloro-1-propene	39	2.509	2.509	0.000	94	584251	50.0	53.0	
24 Methyl acetate	43	2.509	2.509	0.000	99	590250	100.0	91.4	
25 Acetonitrile	40	2.566	2.566	0.000	98	272474	500.0	463.9	a
* 26 TBA-d9 (IS)	65	2.601	2.589	0.012	0	449738	1000.0	1000.0	
27 Methylene Chloride	84	2.623	2.623	0.000	96	281914	50.0	48.5	
28 2-Methyl-2-propanol	59	2.658	2.646	0.012	99	434331	500.0	464.1	
29 Methyl tert-butyl ether	73	2.738	2.738	0.000	98	827879	50.0	49.5	
30 trans-1,2-Dichloroethene	96	2.772	2.772	0.000	97	269662	50.0	48.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	2.829	2.829	0.000	96	1432083	500.0	475.8	
32 Hexane	57	2.898	2.898	0.000	94	583169	50.0	53.1	
33 Isopropyl ether	45	3.069	3.069	0.000	98	1140013	50.0	48.8	
34 1,1-Dichloroethane	63	3.115	3.115	0.000	61	556572	50.0	47.3	
35 Vinyl acetate	86	3.115	3.115	0.000	100	116437	100.0	96.1	
36 2-Chloro-1,3-butadiene	88	3.161	3.161	0.000	91	265686	50.0	50.4	
37 Tert-butyl ethyl ether	87	3.355	3.355	0.000	88	352216	50.0	49.6	
* 38 2-Butanone-d5	46	3.538	3.538	0.000	0	436573	250.0	250.0	
39 2,2-Dichloropropane	79	3.549	3.549	0.000	99	124650	50.0	45.7	
40 cis-1,2-Dichloroethene	96	3.583	3.583	0.000	88	292530	50.0	47.0	
41 Ethyl acetate	70	3.583	3.583	0.000	94	85372	100.0	98.0	
42 2-Butanone (MEK)	72	3.583	3.583	0.000	96	241172	250.0	247.3	
43 Methyl acrylate	55	3.641	3.641	0.000	99	321979	50.0	51.5	
44 Propionitrile	54	3.709	3.709	0.000	99	593241	500.0	485.7	
45 Tetrahydrofuran	72	3.789	3.789	0.000	86	112014	100.0	96.7	
46 Chlorobromomethane	128	3.801	3.789	0.012	96	127216	50.0	49.8	
47 Methacrylonitrile	67	3.801	3.801	0.000	93	1617193	500.0	505.9	
48 Chloroform	83	3.846	3.846	0.000	98	447760	50.0	49.3	
49 Cyclohexane	84	3.961	3.961	0.000	94	498627	50.0	50.8	
50 1,1,1-Trichloroethane	97	3.972	3.972	0.000	98	342726	50.0	47.9	
$ 51 Dibromofluoromethane (Surr)	113	3.995	3.995	0.000	96	120311	50.0	49.0	
52 Carbon tetrachloride	117	4.086	4.086	0.000	96	273080	50.0	50.7	
53 1,1-Dichloropropene	75	4.121	4.121	0.000	95	425572	50.0	50.5	
54 Isobutyl alcohol	42	4.235	4.235	0.000	93	352089	1250.0	1252.9	
55 Benzene	78	4.304	4.303	0.001	97	1277561	50.0	47.3	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.326	4.326	0.000	0	148997	50.0	49.0	
57 Isopropyl acetate	43	4.349	4.349	0.000	95	1131441	50.0	49.2	
58 Tert-amyl methyl ether	73	4.361	4.361	0.000	92	981632	50.0	49.7	
59 1,2-Dichloroethane	62	4.395	4.395	0.000	94	339461	50.0	49.1	
60 n-Heptane	43	4.452	4.452	0.000	94	705385	50.0	52.2	
* 61 Fluorobenzene	96	4.589	4.589	0.000	98	486820	50.0	50.0	
62 n-Butanol	43	4.921	4.921	0.000	87	154405	1250.0	1324.5	
63 Trichloroethene	95	4.955	4.955	0.000	97	279042	50.0	50.0	
64 Ethyl acrylate	55	5.069	5.069	0.000	93	1006124	50.0	52.5	a
65 Methylcyclohexane	83	5.069	5.069	0.000	80	626791	50.0	54.3	
66 1,2-Dichloropropane	63	5.241	5.241	0.000	94	350832	50.0	48.9	
* 67 1,4-Dioxane-d8	96	5.321	5.309	0.012	0	37613	1000.0	1000.0	
68 Methyl methacrylate	100	5.321	5.321	0.000	96	171385	100.0	103.9	
69 1,4-Dioxane	88	5.378	5.366	0.012	28	77676	1000.0	839.7	
70 n-Propyl acetate	43	5.378	5.378	0.000	99	595352	50.0	51.6	
71 Dibromomethane	93	5.378	5.378	0.000	94	159560	50.0	46.9	
72 Dichlorobromomethane	83	5.538	5.538	0.000	99	344591	50.0	49.4	
73 2-Nitropropane	41	5.881	5.881	0.000	97	196609	100.0	98.2	
74 2-Chloroethyl vinyl ether	63	5.892	5.892	0.000	96	218642	50.1	53.6	
75 Epichlorohydrin	57	6.007	6.007	0.000	99	884938	1000.0	989.5	
76 cis-1,3-Dichloropropene	75	6.075	6.075	0.000	92	534697	50.0	50.1	
77 4-Methyl-2-pentanone (MIBK)	43	6.235	6.235	0.000	97	1964561	250.0	253.1	
$ 78 Toluene-d8 (Surr)	98	6.327	6.327	0.000	98	612642	50.0	48.6	
79 Toluene	91	6.407	6.407	0.000	94	1294392	50.0	47.6	
80 trans-1,3-Dichloropropene	75	6.807	6.818	-0.011	98	461999	50.0	50.6	
81 Ethyl methacrylate	69	6.841	6.841	0.000	74	433321	50.0	51.4	
82 1,1,2-Trichloroethane	83	7.047	7.047	0.000	96	240187	50.0	48.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.092	7.092	0.000	94	235023	50.0	49.3	
84 1,3-Dichloropropane	76	7.275	7.275	0.000	96	501817	50.0	49.0	
85 2-Hexanone	43	7.344	7.344	0.000	98	1349116	250.0	248.1	
86 n-Butyl acetate	73	7.492	7.492	0.000	99	90581	50.0	47.4	
87 Chlorodibromomethane	129	7.538	7.538	0.000	97	225739	50.0	50.0	
88 Ethylene Dibromide	107	7.698	7.698	0.000	96	247793	50.0	50.9	
* 89 Chlorobenzene-d5	117	8.247	8.247	0.000	89	373719	50.0	50.0	
90 Chlorobenzene	112	8.270	8.270	0.000	92	736296	50.0	48.4	
91 Ethylbenzene	106	8.373	8.372	0.001	99	410134	50.0	47.5	
92 1,1,1,2-Tetrachloroethane	131	8.384	8.384	0.000	97	224732	50.0	49.0	
93 m-Xylene & p-Xylene	106	8.510	8.510	0.000	98	506126	50.0	49.3	
94 o-Xylene	106	8.944	8.944	0.000	93	487354	50.0	48.0	
95 n-Butyl acrylate	73	8.933	8.944	-0.011	71	250109	50.0	47.9	
96 Styrene	104	8.967	8.967	0.000	95	856093	50.0	49.0	
97 Amyl acetate (mixed isomers)	43	9.173	9.173	0.000	90	628528	50.0	49.7	
98 Bromoform	173	9.184	9.184	0.000	94	142696	50.0	50.0	
99 Isopropylbenzene	105	9.298	9.298	0.000	96	1284272	50.0	49.1	
$ 100 4-Bromofluorobenzene	174	9.504	9.504	0.000	84	151623	50.0	50.8	
101 Bromobenzene	156	9.618	9.630	-0.012	93	258825	50.0	49.6	
102 1,1,2,2-Tetrachloroethane	83	9.687	9.687	0.000	99	388793	50.0	49.7	
103 N-Propylbenzene	120	9.698	9.698	0.000	98	339955	50.0	50.6	
104 1,2,3-Trichloropropane	110	9.721	9.721	0.000	93	95685	50.0	51.0	
105 trans-1,4-Dichloro-2-butene	53	9.744	9.744	0.000	90	113933	50.0	47.6	
106 2-Chlorotoluene	126	9.790	9.790	0.000	95	268543	50.0	49.8	
107 4-Ethyltoluene	105	9.801	9.801	0.000	99	1246602	50.0	49.8	
108 1,3,5-Trimethylbenzene	105	9.870	9.870	0.000	92	1090062	50.0	50.9	
109 4-Chlorotoluene	91	9.904	9.904	0.000	98	953529	50.0	49.1	
110 Butyl Methacrylate	87	9.961	9.961	0.000	99	380040	50.0	50.6	
111 tert-Butylbenzene	119	10.133	10.133	0.000	93	879998	50.0	50.6	
112 1,2,4-Trimethylbenzene	105	10.190	10.190	0.000	98	1076379	50.0	51.2	
113 sec-Butylbenzene	105	10.327	10.327	0.000	99	1448786	50.0	52.2	
114 4-Isopropyltoluene	119	10.453	10.453	0.000	98	1145275	50.0	50.2	
115 1,3-Dichlorobenzene	146	10.453	10.453	0.000	93	504419	50.0	49.4	
* 116 1,4-Dichlorobenzene-d4	152	10.521	10.521	0.000	97	168086	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.533	10.533	0.000	92	515939	50.0	49.2	
118 1,2,3-Trimethylbenzene	105	10.556	10.556	0.000	98	1110737	50.0	49.7	
119 Benzyl chloride	126	10.658	10.658	0.000	98	131230	50.0	45.8	
120 2,3-Dihydroindene	117	10.716	10.716	0.000	95	1036302	50.0	49.1	
121 p-Diethylbenzene	119	10.761	10.761	0.000	92	594195	50.0	50.3	
122 n-Butylbenzene	92	10.784	10.784	0.000	98	701946	50.0	50.2	
123 1,2-Dichlorobenzene	146	10.841	10.841	0.000	94	485032	50.0	48.7	
124 1,2,4,5-Tetramethylbenzene	119	11.379	11.378	0.001	97	1027576	50.0	49.4	
125 1,2-Dibromo-3-Chloropropane	157	11.470	11.470	0.000	97	69596	50.0	47.6	
126 1,3,5-Trichlorobenzene	180	11.573	11.573	0.000	95	350474	50.0	48.4	
127 1,2,4-Trichlorobenzene	180	12.041	12.041	0.000	93	340524	50.0	50.2	
128 Hexachlorobutadiene	225	12.121	12.121	0.000	93	151105	50.0	50.0	
129 Naphthalene	128	12.224	12.224	0.000	99	1100963	50.0	49.7	
130 1,2,3-Trichlorobenzene	180	12.396	12.396	0.000	95	317169	50.0	49.7	
S 131 1,2-Dichloroethene, Total	100				0		100.0	95.6	
S 132 1,3-Dichloropropene, Total	100				0		100.0	100.7	
S 133 Xylenes, Total	100				0		100.0	97.3	
S 134 Total BTEX	1				0		250.0	239.6	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260MIX1COMB_00153	Amount Added:	5.00	Units: uL	
524freon_00051	Amount Added:	5.00	Units: uL	
ACROLEIN W_00139	Amount Added:	4.00	Units: uL	
GASES Li_00472	Amount Added:	5.00	Units: uL	
8260SURR250_00226	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00117	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 22-Apr-2022 09:55:25 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18070.D

Injection Date: 22-Apr-2022 02:57:30 Instrument ID: CVOAMS7 Operator ID:

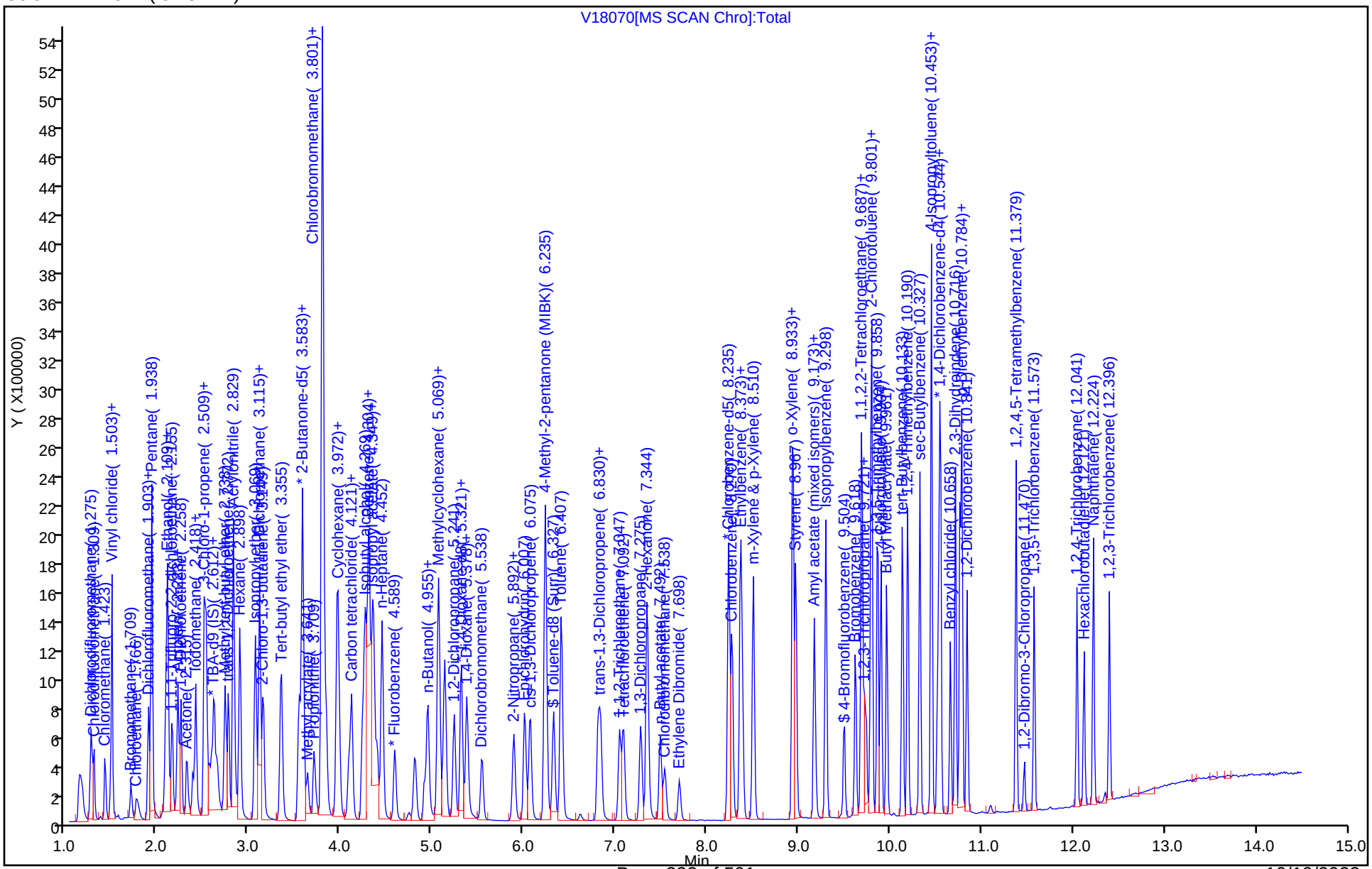
Lims ID: STD50 Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 5

Method: 8260S_7 Limit Group: VOA - 8260D Water and Solid

Column: DB-624 (0.18 mm)



10/10/2023
12:43 PM

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18071.D
Lims ID: STD200
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 22-Apr-2022 03:20:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD200
Misc. Info.: 460-0144336-007
Operator ID: Instrument ID: CVOAMS7
Sublist: chrom-8260S_7*sub1

Method: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\8260S_7.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 22-Apr-2022 09:55:29 Calib Date: 22-Apr-2022 03:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18072.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1607

First Level Reviewer: boykink Date: 22-Apr-2022 04:20:43

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1	Dichlorodifluoromethane	85	1.286	1.286	0.000	99	1431988	200.0	234.4	
2	Chlorodifluoromethane	67	1.309	1.309	0.000	97	171026	200.0	182.7	
3	Chloromethane	50	1.423	1.423	0.000	99	1789819	200.0	207.3	
4	Vinyl chloride	62	1.492	1.492	0.000	98	1709281	200.0	213.0	
5	Butadiene	54	1.503	1.503	0.000	98	1854948	200.0	230.6	
6	Bromomethane	94	1.709	1.709	0.000	99	671051	200.0	204.2	
7	Chloroethane	64	1.778	1.766	0.012	99	842145	200.0	204.3	
8	Dichlorofluoromethane	67	1.903	1.892	0.011	99	1896996	200.0	193.4	
9	Trichlorofluoromethane	101	1.903	1.903	0.000	98	1315756	200.0	205.2	
10	Pentane	72	1.938	1.938	0.000	97	489093	400.0	429.6	
11	Ethanol	46	2.052	2.052	0.000	98	354823	8000.0	7858.3	
12	Ethyl ether	59	2.086	2.086	0.000	93	1010007	200.0	184.2	
13	2-Methyl-1,3-butadiene	53	2.109	2.109	0.000	97	1181157	200.0	200.5	
14	1,2-Dichloro-1,1,2-trifluoroetha	117	2.121	2.120	0.001	96	723594	200.0	192.3	
15	1,1,1-Trifluoro-2,2-dichloroetha	83	2.166	2.155	0.011	95	1511732	200.0	196.5	
17	Acrolein	56	2.223	2.223	0.000	94	372124	507.0	467.2	
16	112TCTFE	101	2.223	2.223	0.000	93	936370	200.0	209.1	
18	1,1-Dichloroethene	96	2.258	2.258	0.000	95	940777	200.0	202.2	
19	Acetone	43	2.315	2.315	0.000	87	2979951	1000.0	992.4	
21	Iodomethane	142	2.383	2.383	0.000	96	847763	200.0	198.6	
20	Isopropyl alcohol	45	2.383	2.383	0.000	98	1386018	2000.0	1877.4	
22	Carbon disulfide	76	2.418	2.418	0.000	99	3964878	200.0	191.6	
23	3-Chloro-1-propene	39	2.509	2.509	0.000	91	2412323	200.0	210.4	
24	Methyl acetate	43	2.509	2.509	0.000	98	2484999	400.0	369.7	
25	Acetonitrile	40	2.566	2.566	0.000	96	1297121	2000.0	1923.2	a
* 26	TBA-d9 (IS)	65	2.601	2.589	0.012	0	516463	1000.0	1000.0	
27	Methylene Chloride	84	2.623	2.623	0.000	98	1129983	200.0	186.9	
28	2-Methyl-2-propanol	59	2.658	2.646	0.012	99	1886361	2000.0	1755.3	
29	Methyl tert-butyl ether	73	2.738	2.738	0.000	98	3450883	200.0	198.4	
30	trans-1,2-Dichloroethene	96	2.772	2.772	0.000	98	1099529	200.0	190.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	2.829	2.829	0.000	96	6127659	2000.0	1772.7	
32 Hexane	57	2.898	2.898	0.000	95	2429504	200.0	212.5	
33 Isopropyl ether	45	3.069	3.069	0.000	99	5018217	200.0	206.5	
34 1,1-Dichloroethane	63	3.115	3.115	0.000	58	2306534	200.0	188.3	
35 Vinyl acetate	86	3.115	3.115	0.000	100	519119	400.0	381.7	
36 2-Chloro-1,3-butadiene	88	3.161	3.161	0.000	91	1122867	200.0	204.5	
37 Tert-butyl ethyl ether	87	3.355	3.355	0.000	88	1518543	200.0	205.4	
* 38 2-Butanone-d5	46	3.538	3.538	0.000	0	489924	250.0	250.0	
39 2,2-Dichloropropane	79	3.549	3.549	0.000	98	511401	200.0	180.0	
40 cis-1,2-Dichloroethene	96	3.584	3.583	0.001	44	1181297	200.0	182.5	
41 Ethyl acetate	70	3.584	3.583	0.001	93	368536	400.0	376.9	
42 2-Butanone (MEK)	72	3.584	3.583	0.001	95	1057373	1000.0	966.3	
43 Methyl acrylate	55	3.641	3.641	0.000	99	1443606	200.0	221.7	
44 Propionitrile	54	3.709	3.709	0.000	99	2524692	2000.0	1841.9	
45 Tetrahydrofuran	72	3.789	3.789	0.000	89	449222	400.0	345.6	
46 Chlorobromomethane	128	3.801	3.789	0.012	93	484032	200.0	182.0	
47 Methacrylonitrile	67	3.812	3.801	0.011	93	6980742	2000.0	2098.2	
48 Chloroform	83	3.846	3.846	0.000	98	1807847	200.0	191.3	
49 Cyclohexane	84	3.961	3.961	0.000	94	2057258	200.0	201.4	
50 1,1,1-Trichloroethane	97	3.972	3.972	0.000	97	1416910	200.0	190.4	
$ 51 Dibromofluoromethane (Surr)	113	3.995	3.995	0.000	97	125892	50.0	49.2	
52 Carbon tetrachloride	117	4.086	4.086	0.000	97	1094104	200.0	195.1	
53 1,1-Dichloropropene	75	4.121	4.121	0.000	96	1746117	200.0	199.2	
54 Isobutyl alcohol	42	4.235	4.235	0.000	89	1679959	5000.0	5205.9	
55 Benzene	78	4.304	4.303	0.001	95	5383310	200.0	194.3	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.326	4.326	0.000	0	158760	50.0	50.1	
57 Isopropyl acetate	43	4.349	4.349	0.000	95	4922026	200.0	205.7	
58 Tert-amyl methyl ether	73	4.361	4.361	0.000	92	4198543	200.0	204.2	
59 1,2-Dichloroethane	62	4.406	4.395	0.011	93	1362917	200.0	189.3	
60 n-Heptane	43	4.452	4.452	0.000	95	2950316	200.0	209.7	
* 61 Fluorobenzene	96	4.589	4.589	0.000	98	506676	50.0	50.0	
62 n-Butanol	43	4.909	4.921	-0.012	88	808667	5000.0	5429.5	
63 Trichloroethene	95	4.955	4.955	0.000	96	1134085	200.0	195.4	
64 Ethyl acrylate	55	5.069	5.069	0.000	96	4373843	200.0	219.3	
65 Methylcyclohexane	83	5.069	5.069	0.000	78	2520098	200.0	209.9	
66 1,2-Dichloropropane	63	5.241	5.241	0.000	94	1450043	200.0	194.1	
* 67 1,4-Dioxane-d8	96	5.309	5.309	0.000	0	41531	1000.0	1000.0	Ma
68 Methyl methacrylate	100	5.321	5.321	0.000	95	724645	400.0	421.9	
69 1,4-Dioxane	88	5.367	5.366	0.001	28	311658	4000.0	3051.3	
70 n-Propyl acetate	43	5.378	5.378	0.000	99	2599994	200.0	216.7	
71 Dibromomethane	93	5.378	5.378	0.000	91	648735	200.0	183.3	
72 Dichlorobromomethane	83	5.549	5.538	0.011	99	1421430	200.0	195.6	
73 2-Nitropropane	41	5.881	5.881	0.000	89	830261	400.0	398.5	
74 2-Chloroethyl vinyl ether	63	5.892	5.892	0.000	91	937660	200.5	220.8	
75 Epichlorohydrin	57	6.007	6.007	0.000	99	3865821	4000.0	3851.9	
76 cis-1,3-Dichloropropene	75	6.075	6.075	0.000	92	2215592	200.0	202.4	
77 4-Methyl-2-pentanone (MIBK)	43	6.235	6.235	0.000	97	8710413	1000.0	1000.0	
$ 78 Toluene-d8 (Surr)	98	6.327	6.327	0.000	98	640434	50.0	49.6	
79 Toluene	91	6.407	6.407	0.000	93	5372515	200.0	192.5	
80 trans-1,3-Dichloropropene	75	6.807	6.818	-0.011	98	1936307	200.0	207.1	
81 Ethyl methacrylate	69	6.841	6.841	0.000	74	1818649	200.0	207.1	
82 1,1,2-Trichloroethane	83	7.047	7.047	0.000	97	954739	200.0	188.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.092	7.092	0.000	94	935431	200.0	191.3	
84 1,3-Dichloropropane	76	7.275	7.275	0.000	95	2011730	200.0	191.7	
85 2-Hexanone	43	7.344	7.344	0.000	98	6101764	1000.0	999.8	
86 n-Butyl acetate	73	7.492	7.492	0.000	99	389437	200.0	198.7	
87 Chlorodibromomethane	129	7.538	7.538	0.000	97	892938	200.0	192.9	
88 Ethylene Dibromide	107	7.698	7.698	0.000	98	970501	200.0	194.4	
* 89 Chlorobenzene-d5	117	8.247	8.247	0.000	89	383107	50.0	50.0	
90 Chlorobenzene	112	8.270	8.270	0.000	91	2941703	200.0	188.5	
91 Ethylbenzene	106	8.373	8.372	0.001	99	1656155	200.0	187.2	
92 1,1,1,2-Tetrachloroethane	131	8.384	8.384	0.000	97	884054	200.0	188.0	
93 m-Xylene & p-Xylene	106	8.510	8.510	0.000	98	2016262	200.0	191.4	
94 o-Xylene	106	8.944	8.944	0.000	93	1944652	200.0	187.0	
95 n-Butyl acrylate	73	8.933	8.944	-0.011	79	1057117	200.0	197.4	
96 Styrene	104	8.967	8.967	0.000	94	3464592	200.0	193.3	
97 Amyl acetate (mixed isomers)	43	9.173	9.173	0.000	89	2718382	200.0	211.2	
98 Bromoform	173	9.184	9.184	0.000	94	553406	200.0	189.3	
99 Isopropylbenzene	105	9.298	9.298	0.000	95	5225419	200.0	194.7	
$ 100 4-Bromofluorobenzene	174	9.504	9.504	0.000	82	149028	50.0	49.1	
101 Bromobenzene	156	9.630	9.630	0.000	91	978449	200.0	184.4	
102 1,1,2,2-Tetrachloroethane	83	9.687	9.687	0.000	99	1557317	200.0	195.6	
103 N-Propylbenzene	120	9.698	9.698	0.000	98	1315196	200.0	192.5	
104 1,2,3-Trichloropropane	110	9.721	9.721	0.000	97	352463	200.0	184.8	
105 trans-1,4-Dichloro-2-butene	53	9.744	9.744	0.000	91	492350	200.0	202.3	
106 2-Chlorotoluene	126	9.801	9.790	0.011	95	1051521	200.0	191.6	
107 4-Ethyltoluene	105	9.801	9.801	0.000	98	5247900	200.0	206.1	
108 1,3,5-Trimethylbenzene	105	9.870	9.870	0.000	92	4342770	200.0	199.5	
109 4-Chlorotoluene	91	9.904	9.904	0.000	98	3876967	200.0	196.4	
110 Butyl Methacrylate	87	9.961	9.961	0.000	98	1639968	200.0	214.6	
111 tert-Butylbenzene	119	10.133	10.133	0.000	93	3432150	200.0	194.0	
112 1,2,4-Trimethylbenzene	105	10.190	10.190	0.000	97	4316013	200.0	202.0	
113 sec-Butylbenzene	105	10.327	10.327	0.000	99	5857494	200.0	207.7	
114 4-Isopropyltoluene	119	10.453	10.453	0.000	98	4654758	200.0	200.6	
115 1,3-Dichlorobenzene	146	10.453	10.453	0.000	66	1974049	200.0	190.0	
* 116 1,4-Dichlorobenzene-d4	152	10.521	10.521	0.000	96	170964	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.544	10.533	0.011	94	2004518	200.0	188.0	
118 1,2,3-Trimethylbenzene	105	10.556	10.556	0.000	99	4624243	200.0	203.4	
119 Benzyl chloride	126	10.659	10.658	0.000	98	572102	200.0	196.3	
120 2,3-Dihydroindene	117	10.716	10.716	0.000	94	4242352	200.0	193.0	
121 p-Diethylbenzene	119	10.761	10.761	0.000	90	2444503	200.0	203.3	
122 n-Butylbenzene	92	10.784	10.784	0.000	97	2843432	200.0	199.9	
123 1,2-Dichlorobenzene	146	10.841	10.841	0.000	93	1922676	200.0	189.8	
124 1,2,4,5-Tetramethylbenzene	119	11.379	11.378	0.001	97	4505218	200.0	212.9	
125 1,2-Dibromo-3-Chloropropane	157	11.470	11.470	0.000	96	286247	200.0	192.6	
126 1,3,5-Trichlorobenzene	180	11.573	11.573	0.000	95	1491944	200.0	202.5	
127 1,2,4-Trichlorobenzene	180	12.042	12.041	0.001	93	1354495	200.0	196.2	
128 Hexachlorobutadiene	225	12.122	12.121	0.001	92	603768	200.0	196.4	
129 Naphthalene	128	12.224	12.224	0.000	99	4576189	200.0	202.9	
130 1,2,3-Trichlorobenzene	180	12.396	12.396	0.000	95	1267678	200.0	195.1	
S 131 1,2-Dichloroethene, Total	100				0		400.0	372.6	
S 132 1,3-Dichloropropene, Total	100				0		400.0	409.5	
S 133 Xylenes, Total	100				0		400.0	378.4	
S 134 Total BTEX	1				0		1000.0	952.4	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ACROLEIN W_00139	Amount Added:	5.00	Units: uL	
GAS Hi_00412	Amount Added:	2.00	Units: uL	
Ethanol mix_00063	Amount Added:	2.00	Units: uL	
MIX 2 Hi_00122	Amount Added:	2.00	Units: uL	
MIX I Hi_00149	Amount Added:	2.00	Units: uL	
8FreonHi_00043	Amount Added:	2.00	Units: uL	
8260SURR250_00226	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00117	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 22-Apr-2022 09:55:30 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18071.D

Injection Date: 22-Apr-2022 03:20:30 Instrument ID: CVOAMS7 Operator ID:

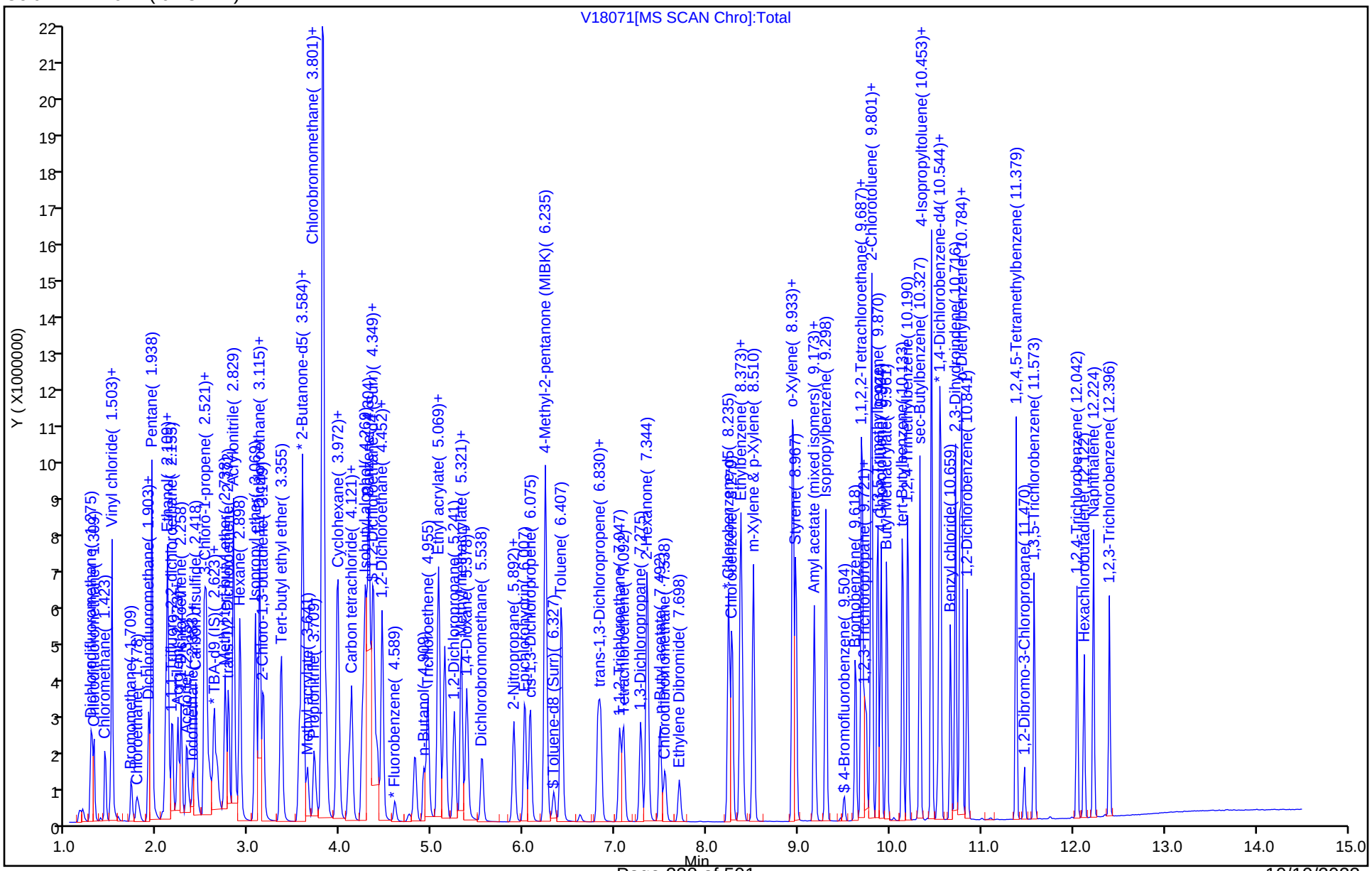
Lims ID: STD200 Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 6

Method: 8260S_7 Limit Group: VOA - 8260D Water and Solid

Column: DB-624 (0.18 mm)



Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18072.D
Lims ID: STD500
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 22-Apr-2022 03:43:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD500
Misc. Info.: 460-0144336-008
Operator ID: Instrument ID: CVOAMS7
Sublist: chrom-8260S_7*sub1

Method: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\8260S_7.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 22-Apr-2022 09:55:34 Calib Date: 22-Apr-2022 03:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18072.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1607

First Level Reviewer: boykink Date: 22-Apr-2022 04:24:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.286	1.286	0.000	99	3936993	500.0	593.1	
2 Chlorodifluoromethane	67	1.309	1.309	0.000	97	482660	500.0	474.5	
3 Chloromethane	50	1.423	1.423	0.000	99	5261103	500.0	560.9	
4 Vinyl chloride	62	1.492	1.492	0.000	97	4874823	500.0	559.1	
5 Butadiene	54	1.503	1.503	0.000	98	5146768	500.0	588.9	
6 Bromomethane	94	1.709	1.709	0.000	98	1595019	500.0	499.3	
7 Chloroethane	64	1.789	1.766	0.023	100	2107076	500.0	470.5	
8 Dichlorofluoromethane	67	1.903	1.892	0.011	91	5411682	500.0	507.8	
9 Trichlorofluoromethane	101	1.903	1.903	0.000	96	3693888	500.0	530.3	
10 Pentane	72	1.937	1.938	-0.001	96	1342814	1000.0	1085.4	
11 Ethanol	46	2.086	2.052	0.034	71	1093385	20000	20476	
12 Ethyl ether	59	2.086	2.086	0.000	95	3225298	500.0	541.3	
13 2-Methyl-1,3-butadiene	53	2.097	2.109	-0.012	97	3610947	500.0	564.2	
14 1,2-Dichloro-1,1,2-trifluoroetha	117	2.120	2.120	0.000	96	2044319	500.0	500.1	
15 1,1,1-Trifluoro-2,2-dichloroetha	83	2.155	2.155	0.000	95	4424162	500.0	529.1	a
17 Acrolein	56	2.223	2.223	0.000	95	533974	608.4	566.9	
16 112TCTFE	101	2.212	2.223	-0.011	93	2744591	500.0	564.1	
18 1,1-Dichloroethene	96	2.257	2.258	-0.001	94	2716511	500.0	537.3	
19 Acetone	43	2.315	2.315	0.000	87	9131901	2500.0	2592.7	
21 Iodomethane	142	2.383	2.383	0.000	96	2164262	500.0	465.9	
20 Isopropyl alcohol	45	2.395	2.383	0.012	98	4053723	5000.0	4643.1	
22 Carbon disulfide	76	2.417	2.418	-0.001	99	11902521	500.0	529.4	
23 3-Chloro-1-propene	39	2.509	2.509	0.000	86	6936951	500.0	556.7	
24 Methyl acetate	43	2.509	2.509	0.000	99	7869125	1000.0	1077.5	
25 Acetonitrile	40	2.566	2.566	0.000	97	3445715	5000.0	4320.0	a
* 26 TBA-d9 (IS)	65	2.600	2.589	0.011	0	610767	1000.0	1000.0	
27 Methylene Chloride	84	2.623	2.623	0.000	99	3369802	500.0	512.8	
28 2-Methyl-2-propanol	59	2.657	2.646	0.011	99	5563053	5000.0	4377.4	
29 Methyl tert-butyl ether	73	2.737	2.738	-0.001	98	10876054	500.0	575.4	
30 trans-1,2-Dichloroethene	96	2.772	2.772	0.000	97	3255640	500.0	517.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	2.829	2.829	0.000	91	18100802	5000.0	4427.9	e
32 Hexane	57	2.897	2.898	-0.001	94	7590388	500.0	610.9	a
33 Isopropyl ether	45	3.069	3.069	0.000	100	14924849	500.0	565.1	
34 1,1-Dichloroethane	63	3.115	3.115	0.000	97	6746811	500.0	507.0	
35 Vinyl acetate	86	3.115	3.115	0.000	100	1567044	1000.0	982.4	eMa
36 2-Chloro-1,3-butadiene	88	3.149	3.161	-0.012	91	3254775	500.0	545.6	
37 Tert-butyl ethyl ether	87	3.355	3.355	0.000	87	4444412	500.0	553.1	
* 38 2-Butanone-d5	46	3.538	3.538	0.000	0	574647	250.0	250.0	
39 2,2-Dichloropropane	79	3.549	3.549	0.000	98	1530255	500.0	495.7	
40 cis-1,2-Dichloroethene	96	3.583	3.583	0.000	85	3542988	500.0	503.8	
41 Ethyl acetate	70	3.583	3.583	0.000	93	1076430	1000.0	938.4	
42 2-Butanone (MEK)	72	3.583	3.583	0.000	97	3157780	2500.0	2460.3	
43 Methyl acrylate	55	3.640	3.641	-0.001	99	4343683	500.0	613.9	
44 Propionitrile	54	3.720	3.709	0.011	99	7463901	5000.0	4642.4	
45 Tetrahydrofuran	72	3.789	3.789	0.000	85	1317783	1000.0	864.3	
46 Chlorobromomethane	128	3.800	3.789	0.011	84	1359348	500.0	470.4	
47 Methacrylonitrile	67	3.812	3.801	0.011	80	18839339	5000.0	5211.3	eM
48 Chloroform	83	3.846	3.846	0.000	97	5412367	500.0	527.0	
49 Cyclohexane	84	3.960	3.961	-0.001	94	6264338	500.0	564.5	
50 1,1,1-Trichloroethane	97	3.972	3.972	0.000	97	4246309	500.0	525.2	
$ 51 Dibromofluoromethane (Surr)	113	3.995	3.995	0.000	96	138398	50.0	49.8	
52 Carbon tetrachloride	117	4.086	4.086	0.000	97	3257750	500.0	534.5	
53 1,1-Dichloropropene	75	4.120	4.121	-0.001	95	5309569	500.0	557.4	
54 Isobutyl alcohol	42	4.246	4.235	0.011	89	4901687	12500	12844	
55 Benzene	78	4.303	4.303	0.000	96	16233763	500.0	560.2	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.326	4.326	0.000	0	193198	50.0	56.1	
57 Isopropyl acetate	43	4.349	4.349	0.000	90	15483114	500.0	595.4	
58 Tert-amyl methyl ether	73	4.360	4.361	-0.001	97	13196074	500.0	590.8	M
59 1,2-Dichloroethane	62	4.406	4.395	0.011	95	4119467	500.0	526.7	
60 n-Heptane	43	4.452	4.452	0.000	95	9188822	500.0	601.0	
* 61 Fluorobenzene	96	4.589	4.589	0.000	98	550561	50.0	50.0	
62 n-Butanol	43	4.909	4.921	-0.012	87	2470822	12500	12153	
63 Trichloroethene	95	4.955	4.955	0.000	94	3423998	500.0	542.9	
64 Ethyl acrylate	55	5.069	5.069	0.000	97	13388793	500.0	617.9	
65 Methylcyclohexane	83	5.069	5.069	0.000	86	7600713	500.0	582.7	
66 1,2-Dichloropropane	63	5.241	5.241	0.000	95	4357785	500.0	536.9	
* 67 1,4-Dioxane-d8	96	5.378	5.309	0.069	0	53847	1000.0	1000.0	Ma
68 Methyl methacrylate	100	5.321	5.321	0.000	94	2079495	1000.0	1114.2	
69 1,4-Dioxane	88	5.378	5.366	0.012	33	926752	10000	6998.1	
70 n-Propyl acetate	43	5.378	5.378	0.000	99	7747753	500.0	594.2	
71 Dibromomethane	93	5.389	5.378	0.011	91	1854628	500.0	482.4	
72 Dichlorobromomethane	83	5.549	5.538	0.011	98	4297710	500.0	544.3	
73 2-Nitropropane	41	5.892	5.881	0.011	95	2349835	1000.0	1038.1	
74 2-Chloroethyl vinyl ether	63	5.903	5.892	0.011	97	2722067	501.2	589.8	
75 Epichlorohydrin	57	6.018	6.007	0.011	98	11738798	10000	9972.1	
76 cis-1,3-Dichloropropene	75	6.075	6.075	0.000	91	6615578	500.0	578.1	
77 4-Methyl-2-pentanone (MIBK)	43	6.235	6.235	0.000	95	22926355	2500.0	2244.0	e
$ 78 Toluene-d8 (Surr)	98	6.326	6.327	-0.001	98	705284	50.0	52.2	
79 Toluene	91	6.418	6.407	0.011	94	15991738	500.0	548.1	
80 trans-1,3-Dichloropropene	75	6.818	6.818	0.000	97	5701152	500.0	583.0	
81 Ethyl methacrylate	69	6.841	6.841	0.000	73	5611256	500.0	588.1	
82 1,1,2-Trichloroethane	83	7.046	7.047	-0.001	97	2752665	500.0	520.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.092	7.092	0.000	93	2671635	500.0	522.3	
84 1,3-Dichloropropane	76	7.275	7.275	0.000	96	5890211	500.0	536.8	
85 2-Hexanone	43	7.355	7.344	0.011	97	18799499	2500.0	2626.3	
86 n-Butyl acetate	73	7.492	7.492	0.000	99	1116406	500.0	544.6	
87 Chlorodibromomethane	129	7.549	7.538	0.011	97	2587829	500.0	534.5	
88 Ethylene Dibromide	107	7.698	7.698	0.000	98	2799647	500.0	536.3	
* 89 Chlorobenzene-d5	117	8.247	8.247	0.000	91	400630	50.0	50.0	
90 Chlorobenzene	112	8.281	8.270	0.011	91	8678381	500.0	531.9	
91 Ethylbenzene	106	8.372	8.372	0.000	99	4909199	500.0	530.6	e
92 1,1,1,2-Tetrachloroethane	131	8.395	8.384	0.011	97	2544177	500.0	517.3	
93 m-Xylene & p-Xylene	106	8.509	8.510	-0.001	98	6089348	500.0	552.8	a
94 o-Xylene	106	8.944	8.944	0.000	92	5789068	500.0	532.2	
95 n-Butyl acrylate	73	8.944	8.944	0.000	82	3312869	500.0	591.6	
96 Styrene	104	8.978	8.967	0.011	94	10567987	500.0	563.9	
97 Amyl acetate (mixed isomers)	43	9.172	9.173	-0.001	88	8695698	500.0	597.3	
98 Bromoform	173	9.184	9.184	0.000	94	1646703	500.0	538.7	
99 Isopropylbenzene	105	9.298	9.298	0.000	98	14773593	500.0	526.5	e
$ 100 4-Bromofluorobenzene	174	9.504	9.504	0.000	81	170384	50.0	49.7	
101 Bromobenzene	156	9.630	9.630	0.000	90	2959411	500.0	493.1	
102 1,1,2,2-Tetrachloroethane	83	9.687	9.687	0.000	99	4847493	500.0	538.1	
103 N-Propylbenzene	120	9.698	9.698	0.000	98	3945821	500.0	510.6	e
104 1,2,3-Trichloropropane	110	9.721	9.721	0.000	95	1095602	500.0	507.8	
105 trans-1,4-Dichloro-2-butene	53	9.744	9.744	0.000	91	1614094	500.0	586.3	
106 2-Chlorotoluene	126	9.801	9.790	0.011	95	3096790	500.0	498.8	a
107 4-Ethyltoluene	105	9.801	9.801	0.000	97	14659006	500.0	508.9	e
108 1,3,5-Trimethylbenzene	105	9.870	9.870	0.000	95	11884937	500.0	482.6	e
109 4-Chlorotoluene	91	9.904	9.904	0.000	98	12104660	500.0	542.0	e
110 Butyl Methacrylate	87	9.972	9.961	0.011	99	5088615	500.0	588.5	
111 tert-Butylbenzene	119	10.144	10.133	0.011	92	10494996	500.0	524.4	
112 1,2,4-Trimethylbenzene	105	10.201	10.190	0.011	98	12604718	500.0	521.5	e
113 sec-Butylbenzene	105	10.327	10.327	0.000	97	14447981	500.0	452.9	e
114 4-Isopropyltoluene	119	10.452	10.453	-0.001	96	12414002	500.0	472.9	e
115 1,3-Dichlorobenzene	146	10.464	10.453	0.011	92	5943460	500.0	505.7	
* 116 1,4-Dichlorobenzene-d4	152	10.521	10.521	0.000	93	193401	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.544	10.533	0.011	92	6088347	500.0	504.9	
118 1,2,3-Trimethylbenzene	105	10.555	10.556	-0.001	98	11895960	500.0	462.6	e
119 Benzyl chloride	126	10.658	10.658	0.000	98	1687439	500.0	511.8	
120 2,3-Dihydroindene	117	10.715	10.716	-0.001	96	11569335	500.0	484.5	e
121 p-Diethylbenzene	119	10.773	10.761	0.012	93	7145743	500.0	525.2	
122 n-Butylbenzene	92	10.784	10.784	0.000	97	8741119	500.0	543.1	
123 1,2-Dichlorobenzene	146	10.841	10.841	0.000	93	5793959	500.0	505.6	
124 1,2,4,5-Tetramethylbenzene	119	11.378	11.378	0.000	98	11151006	500.0	465.8	e
125 1,2-Dibromo-3-Chloropropane	157	11.470	11.470	0.000	94	844566	500.0	502.3	
126 1,3,5-Trichlorobenzene	180	11.573	11.573	0.000	95	4035674	500.0	484.3	
127 1,2,4-Trichlorobenzene	180	12.041	12.041	0.000	93	3837766	500.0	491.5	
128 Hexachlorobutadiene	225	12.121	12.121	0.000	92	1683927	500.0	484.1	
129 Naphthalene	128	12.224	12.224	0.000	96	11387717	500.0	446.3	e
130 1,2,3-Trichlorobenzene	180	12.396	12.396	0.000	95	3591763	500.0	488.7	
S 131 1,2-Dichloroethene, Total	100				0		1000.0	1021.7	
S 132 1,3-Dichloropropene, Total	100				0		1000.0	1161.0	
S 133 Xylenes, Total	100				0		1000.0	1085.1	
S 134 Total BTEX	1				0		2500.0	2724.0	

QC Flag Legend

Processing Flags

e - Potential Peak Saturated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8FreonHi_00043	Amount Added:	5.00	Units: uL	
MIX I Hi_00149	Amount Added:	5.00	Units: uL	
MIX 2 Hi_00122	Amount Added:	5.00	Units: uL	
Ethanol mix_00063	Amount Added:	5.00	Units: uL	
GAS Hi_00412	Amount Added:	5.00	Units: uL	
ACROLEIN W_00139	Amount Added:	6.00	Units: uL	
8260SURR250_00226	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00117	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 22-Apr-2022 09:55:35 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18072.D

Injection Date: 22-Apr-2022 03:43:30 Instrument ID: CVOAMS7 Operator ID:

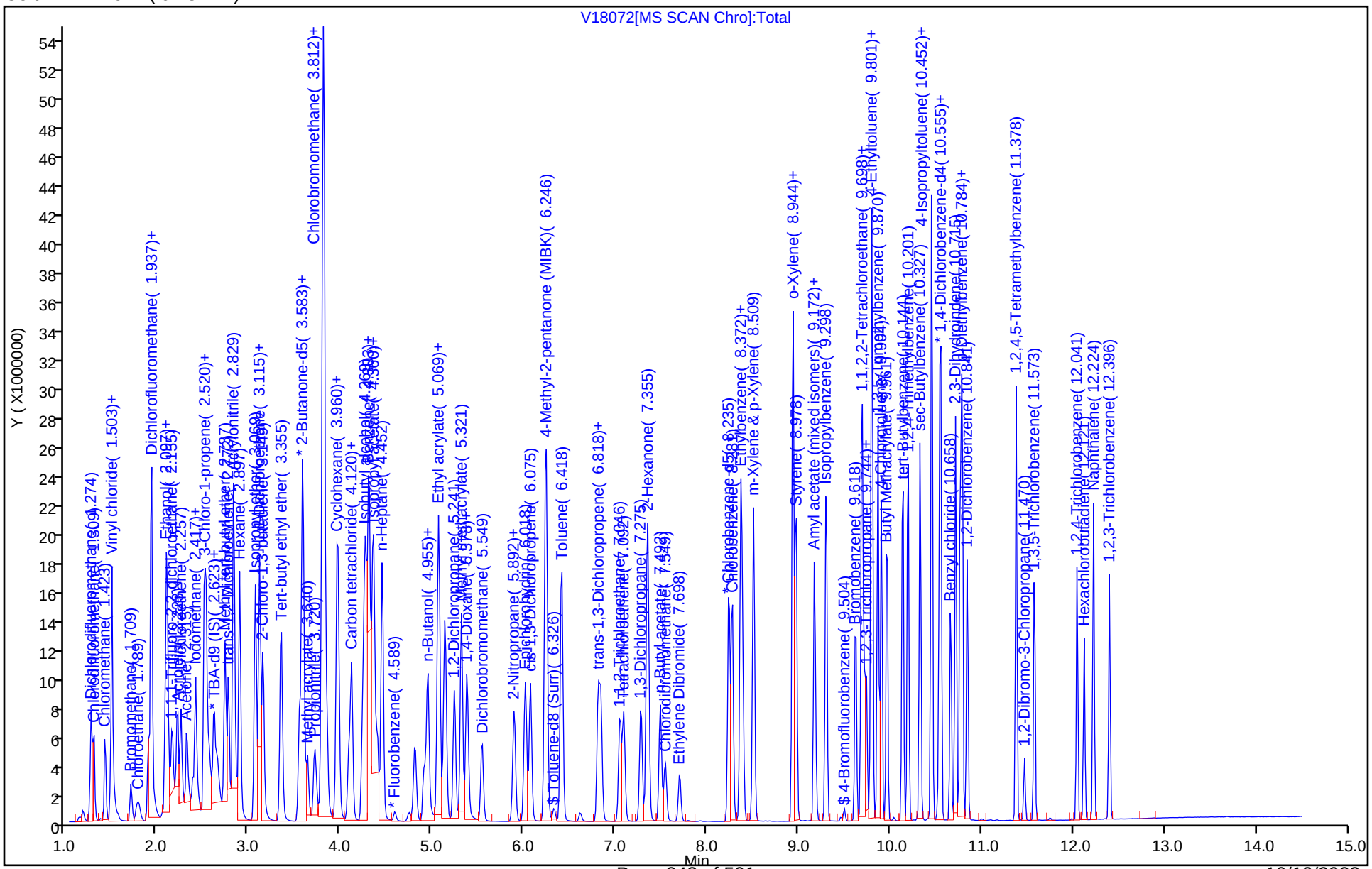
Lims ID: STD500 Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 7

Method: 8260S_7 Limit Group: VOA - 8260D Water and Solid

Column: DB-624 (0.18 mm)



10/10/2023
12:43 PM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab Sample ID: ICV 460-844084/17 Calibration Date: 05/12/2022 10:23

Instrument ID: CVOAMS12 Calib Start Date: 05/12/2022 04:01

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/12/2022 06:25

Lab File ID: O76611.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
Chlorotrifluoroethene	Ave	0.8603	0.7431		17.3	20.0	-13.6	30.0
Dichlorodifluoromethane	Ave	0.2733	0.2751	0.1000	20.1	20.0	0.6	30.0
Chlorodifluoromethane	Ave	0.0417	0.0393		18.9	20.0	-5.7	30.0
Chloromethane	Ave	0.3576	0.3214	0.1000	18.0	20.0	-10.1	30.0
Vinyl chloride	Ave	0.3511	0.3287	0.1000	18.7	20.0	-6.4	30.0
Butadiene	Lin2		0.2441		16.6	20.0	-17.1	30.0
Bromomethane	Ave	0.2470	0.2266	0.1000	18.3	20.0	-8.3	30.0
Chloroethane	Ave	0.2076	0.2035	0.1000	19.6	20.0	-2.0	30.0
Dichlorofluoromethane	Ave	0.4566	0.4258		18.7	20.0	-6.7	30.0
Trichlorofluoromethane	Ave	0.3336	0.3168	0.1000	19.0	20.0	-5.0	30.0
Pentane	Ave	0.0488	0.0546		44.7	40.0	11.8	30.0
Ethanol	Ave	0.0859	0.0820		763	800	-4.6	30.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.1864	0.1657		17.8	20.0	-11.1	30.0
Ethyl ether	Ave	0.1907	0.1756		18.4	20.0	-7.9	30.0
2-Methyl-1,3-butadiene	Ave	0.2086	0.2104		20.2	20.0	0.9	30.0
1,1,1-Trifluoro-2,2-dichloro ethane	Ave	0.2998	0.2698		18.0	20.0	-10.0	30.0
Acrolein	Lin2		1.885		57.8	40.1	44.3*	30.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.1828	0.1866	0.1000	20.4	20.0	2.1	30.0
1,1-Dichloroethene	Ave	0.2162	0.2040	0.1000	18.9	20.0	-5.6	30.0
Acetone	Ave	0.2147	0.1738	0.0500	81.0	100	-19.0	30.0
Iodomethane	Ave	0.3095	0.2863		18.5	20.0	-7.5	30.0
Isopropyl alcohol	Ave	0.7524	0.6902		183	200	-8.3	30.0
Carbon disulfide	Ave	0.8195	0.7917	0.1000	19.3	20.0	-3.4	30.0
3-Chloro-1-propene	Ave	0.1635	0.1623		19.9	20.0	-0.7	30.0
Acetonitrile	Ave	0.5058	0.5211		206	200	3.0	30.0
Methyl acetate	Ave	6.558	6.148	0.1000	37.5	40.0	-6.2	30.0
Cyclopentene	Ave	0.5782	0.5277		18.3	20.0	-8.7	30.0
Methylene Chloride	Ave	0.2755	0.2507	0.1000	18.2	20.0	-9.0	30.0
2-Methyl-2-propanol	Ave	1.191	1.126		189	200	-5.4	30.0
Acrylonitrile	Ave	0.0717	0.0618		176	200	-13.9	30.0
trans-1,2-Dichloroethene	Ave	0.2395	0.2219	0.1000	18.5	20.0	-7.4	30.0
Methyl tert-butyl ether	Ave	0.6997	0.6643	0.1000	19.0	20.0	-5.1	30.0
Hexane	Ave	0.2307	0.2364		20.5	20.0	2.5	30.0
1,1-Dichloroethane	Ave	0.4503	0.3963	0.2000	17.6	20.0	-12.0	30.0
Vinyl acetate	Ave	0.6322	0.6235		39.5	40.0	-1.4	30.0
2-Chloro-1,3-butadiene	Ave	0.2537	0.2322		18.3	20.0	-8.5	30.0
Isopropyl ether	Ave	0.8633	0.8257		19.1	20.0	-4.4	30.0
Tert-butyl ethyl ether	Ave	0.8118	0.7517		18.5	20.0	-7.4	30.0
2,2-Dichloropropane	Ave	0.0862	0.0832		19.3	20.0	-3.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab Sample ID: ICV 460-844084/17 Calibration Date: 05/12/2022 10:23

Instrument ID: CVOAMS12 Calib Start Date: 05/12/2022 04:01

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/12/2022 06:25

Lab File ID: O76611.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
cis-1,2-Dichloroethene	Ave	0.2634	0.2351	0.1000	17.9	20.0	-10.7	30.0
2-Butanone (MEK)	Ave	0.3398	0.3021	0.0500	88.9	100	-11.1	30.0
Propionitrile	Qua2		1.921		196	200	-2.2	30.0
Ethyl acetate	Ave	0.3250	0.3040		37.4	40.0	-6.5	30.0
Methyl acrylate	Ave	0.2172	0.1853		17.1	20.0	-14.7	30.0
Methacrylonitrile	Ave	0.0887	0.0824		186	200	-7.1	30.0
Chlorobromomethane	Ave	0.1259	0.1101		17.5	20.0	-12.6	30.0
Tetrahydrofuran	Ave	0.6598	0.5875		35.6	40.0	-11.0	30.0
Chloroform	Ave	0.4092	0.3560	0.2000	17.4	20.0	-13.0	30.0
1,1,1-Trichloroethane	Ave	0.3528	0.3224	0.1000	18.3	20.0	-8.6	30.0
Cyclohexane	Ave	0.3033	0.2997	0.1000	19.8	20.0	-1.2	30.0
1,1-Dichloropropene	Ave	0.3591	0.3319		18.5	20.0	-7.6	30.0
Carbon tetrachloride	Ave	0.2833	0.2551	0.1000	18.0	20.0	-10.0	30.0
Isobutyl alcohol	Ave	0.6044	0.4968		411	500	-17.8	30.0
Benzene	Ave	1.644	1.527	0.5000	18.6	20.0	-7.2	30.0
1,2-Dichloroethane	Ave	0.2864	0.2498	0.1000	17.4	20.0	-12.8	30.0
Isooctane	Ave	0.4893	0.4594		18.8	20.0	-6.1	30.0
Isopropyl acetate	Ave	0.0949	0.0810		17.1	20.0	-14.7	30.0
Tert-amyl methyl ether	Ave	0.7499	0.6913		18.4	20.0	-7.8	30.0
n-Heptane	Ave	0.2164	0.1831		16.9	20.0	-15.4	30.0
Trichloroethene	Ave	0.2621	0.2379	0.2000	18.2	20.0	-9.2	30.0
n-Butanol	Ave	0.3248	0.2438		375	500	-25.0	30.0
Ethyl acrylate	QuaF		0.2416		15.2	20.0	-24.0	30.0
Methylcyclohexane	Ave	0.2786	0.2625	0.1000	18.8	20.0	-5.8	30.0
1,2-Dichloropropane	Ave	0.2962	0.2703	0.1000	18.2	20.0	-8.8	30.0
Dibromomethane	Ave	0.1369	0.1226		17.9	20.0	-10.5	30.0
1,4-Dioxane	Ave	1.133	1.154		408	400	1.9	30.0
Methyl methacrylate	Ave	0.0595	0.0579		38.9	40.0	-2.7	30.0
n-Propyl acetate	Ave	0.2832	0.2703		19.1	20.0	-4.5	30.0
Dichlorobromomethane	Ave	0.3231	0.2957	0.2000	18.3	20.0	-8.5	30.0
2-Nitropropane	Ave	0.0486	0.0410		33.7	40.0	-15.7	30.0
2-Chloroethyl vinyl ether	Qua		0.1297		15.3	20.0	-23.6	30.0
Epichlorohydrin	Ave	0.2783	0.2688		19.4	20.0	-3.4	30.0
cis-1,3-Dichloropropene	Ave	0.6721	0.6128	0.2000	18.2	20.0	-8.8	30.0
4-Methyl-2-pentanone (MIBK)	Ave	2.359	2.235	0.0500	94.8	100	-5.2	30.0
Toluene	Ave	1.673	1.544	0.4000	18.5	20.0	-7.7	30.0
trans-1,3-Dichloropropene	Ave	0.5742	0.5627	0.1000	19.6	20.0	-2.0	30.0
Ethyl methacrylate	Ave	0.4215	0.3907		18.5	20.0	-7.3	30.0
1,1,2-Trichloroethane	Ave	0.2802	0.2610	0.1000	18.6	20.0	-6.8	30.0
Tetrachloroethene	Ave	0.3130	0.2909	0.2000	18.6	20.0	-7.1	30.0
1,3-Dichloropropane	Ave	0.5877	0.5622		19.1	20.0	-4.3	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab Sample ID: ICV 460-844084/17 Calibration Date: 05/12/2022 10:23

Instrument ID: CVOAMS12 Calib Start Date: 05/12/2022 04:01

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/12/2022 06:25

Lab File ID: O76611.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
2-Hexanone	Qua		1.397	0.0500	78.2	100	-21.8	30.0
Chlorodibromomethane	Ave	0.3301	0.3060	0.1000	18.5	20.0	-7.3	30.0
Ethylene Dibromide	Ave	0.3169	0.3000	0.1000	18.9	20.0	-5.3	30.0
n-Butyl acetate	QuaF		0.4131		15.5	20.0	-22.4	30.0
Chlorobenzene	Ave	1.012	0.9383	0.5000	18.5	20.0	-7.3	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3321	0.3055		18.4	20.0	-8.0	30.0
Ethylbenzene	Ave	0.5231	0.4966	0.1000	19.0	20.0	-5.1	30.0
m-Xylene & p-Xylene	Ave	0.6658	0.6102	0.1000	18.3	20.0	-8.4	30.0
o-Xylene	Ave	0.6429	0.5653	0.3000	17.6	20.0	-12.1	30.0
Styrene	Ave	1.059	0.9348	0.3000	17.6	20.0	-11.8	30.0
n-Butyl acrylate	QuaF		0.2055		14.1	20.0	-29.3	30.0
Bromoform	Ave	0.1986	0.1683	0.1000	17.0	20.0	-15.2	30.0
Amyl acetate (mixed isomers)	Ave	0.8410	0.8404		20.0	20.0	-0.0	30.0
Isopropylbenzene	Ave	1.411	1.276	0.1000	18.1	20.0	-9.6	30.0
Bromobenzene	Ave	0.7485	0.7091		18.9	20.0	-5.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.8226	0.7450	0.3000	18.1	20.0	-9.4	30.0
1,2,3-Trichloropropane	Ave	0.6614	0.5908		17.9	20.0	-10.7	30.0
trans-1,4-Dichloro-2-butene	Ave	0.3509	0.3319		18.9	20.0	-5.4	30.0
N-Propylbenzene	Ave	2.926	2.845		19.4	20.0	-2.8	30.0
2-Chlorotoluene	Ave	2.179	2.105		19.3	20.0	-3.4	30.0
4-Ethyltoluene	Ave	2.495	2.383		19.1	20.0	-4.5	30.0
4-Chlorotoluene	Ave	2.314	2.292		19.8	20.0	-1.0	30.0
1,3,5-Trimethylbenzene	Ave	1.939	1.930		19.9	20.0	-0.4	30.0
Butyl Methacrylate	QuaF		0.6978		15.5	20.0	-22.4	30.0
tert-Butylbenzene	Ave	1.609	1.520		18.9	20.0	-5.5	30.0
1,2,4-Trimethylbenzene	Ave	1.952	1.836		18.8	20.0	-6.0	30.0
sec-Butylbenzene	Ave	2.263	2.186		19.3	20.0	-3.4	30.0
1,3-Dichlorobenzene	Ave	1.277	1.242	0.6000	19.5	20.0	-2.7	30.0
1,4-Dichlorobenzene	Ave	1.395	1.338	0.5000	19.2	20.0	-4.1	30.0
4-Isopropyltoluene	Ave	1.802	1.764		19.6	20.0	-2.1	30.0
1,2,3-Trimethylbenzene	Ave	2.085	2.001		19.2	20.0	-4.0	30.0
Benzyl chloride	Qua		0.3108		17.5	20.0	-12.5	30.0
Indan	Ave	2.456	2.418		19.7	20.0	-1.5	30.0
1,2-Dichlorobenzene	Ave	1.289	1.270	0.4000	19.7	20.0	-1.5	30.0
p-Diethylbenzene	Ave	0.8918	1.015		22.8	20.0	13.8	30.0
n-Butylbenzene	Ave	0.8409	0.8221		19.6	20.0	-2.2	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.1391	0.1310	0.0500	18.8	20.0	-5.8	30.0
1,2,4,5-Tetramethylbenzene	Ave	1.068	1.058		19.8	20.0	-0.9	30.0
1,3,5-Trichlorobenzene	Ave	0.5561	0.5459		19.6	20.0	-1.8	30.0
1,2,4-Trichlorobenzene	Ave	0.4992	0.4655	0.2000	18.7	20.0	-6.7	30.0
Hexachlorobutadiene	Ave	0.2420	0.2620		21.6	20.0	8.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab Sample ID: ICV 460-844084/17 Calibration Date: 05/12/2022 10:23

Instrument ID: CVOAMS12 Calib Start Date: 05/12/2022 04:01

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/12/2022 06:25

Lab File ID: O76611.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
Naphthalene	Ave	1.311	1.037		15.8	20.0	-20.9	30.0
1,2,3-Trichlorobenzene	Ave	0.4584	0.4118		18.0	20.0	-10.2	30.0
Dibromofluoromethane (Surr)	Ave	0.2187	0.2087		47.7	50.0	-4.6	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2385	0.2183		45.8	50.0	-8.4	30.0
Toluene-d8 (Surr)	Ave	1.464	1.503		51.3	50.0	2.7	30.0
4-Bromofluorobenzene	Ave	0.3673	0.3664		49.9	50.0	-0.2	30.0

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\O76611.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 12-May-2022 10:23:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 460-0145170-017
Operator ID: Instrument ID: CVOAMS12
Sublist:

Method: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\8260W_12.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 13-May-2022 10:11:14 Calib Date: 12-May-2022 06:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\O76603.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: delpolitov Date: 13-May-2022 10:10:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116	0.879	0.879	0.000	83	15613	20.0	17.3	
3 Dichlorodifluoromethane	85	0.890	0.890	0.000	99	77651	20.0	20.1	
5 Chlorodifluoromethane	67	0.901	0.901	0.000	97	11095	20.0	18.9	
6 Chloromethane	50	0.993	1.004	-0.011	99	90726	20.0	18.0	
7 Vinyl chloride	62	1.050	1.050	0.000	97	92779	20.0	18.7	
8 Butadiene	54	1.073	1.073	0.000	94	68913	20.0	16.6	
9 Bromomethane	94	1.233	1.233	0.001	98	63962	20.0	18.3	
10 Chloroethane	64	1.290	1.290	0.000	98	57445	20.0	19.6	
11 Dichlorofluoromethane	67	1.404	1.404	0.000	99	120206	20.0	18.7	
12 Trichlorofluoromethane	101	1.427	1.427	0.000	99	89427	20.0	19.0	
13 Pentane	57	1.484	1.472	0.012	97	30826	40.0	44.7	
14 Ethanol	46	1.541	1.541	0.000	95	11566	800.0	762.9	
15 Ethyl ether	59	1.598	1.598	0.000	94	49559	20.0	18.4	
16 1,2-Dichloro-1,1,2-trifluoroetha	117	1.598	1.598	0.000	89	46775	20.0	17.8	
17 2-Methyl-1,3-butadiene	53	1.609	1.609	0.000	91	59385	20.0	20.2	
18 1,1,1-Trifluoro-2,2-dichloroetha	83	1.644	1.644	0.000	95	76162	20.0	18.0	
19 Acrolein	56	1.678	1.678	0.000	92	13322	40.1	57.8	M
20 1,1-Dichloroethene	96	1.735	1.735	0.000	97	57595	20.0	18.9	
21 112TCTFE	101	1.735	1.735	0.000	95	52674	20.0	20.4	
22 Acetone	58	1.769	1.769	0.000	89	18260	100.0	81.0	
23 Iodomethane	142	1.826	1.826	0.000	97	80805	20.0	18.5	
24 Isopropyl alcohol	45	1.861	1.860	0.000	97	24354	200.0	183.5	
25 Carbon disulfide	76	1.872	1.872	0.000	98	223482	20.0	19.3	
26 Acetonitrile	38	1.952	1.952	0.000	80	18386	200.0	206.0	
27 3-Chloro-1-propene	76	1.952	1.952	0.000	96	45806	20.0	19.9	
28 Methyl acetate	43	1.975	1.975	0.000	97	43387	40.0	37.5	
29 Cyclopentene	67	2.009	2.009	0.000	96	148976	20.0	18.3	
30 Methylene Chloride	84	2.032	2.032	0.000	92	70756	20.0	18.2	
* 31 TBA-d9 (IS)	65	2.055	2.055	0.000	100	176415	1000.0	1000.0	
32 2-Methyl-2-propanol	59	2.112	2.112	0.000	99	39745	200.0	189.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Acrylonitrile	53	2.192	2.192	0.000	95	174376	200.0	175.7	
34 trans-1,2-Dichloroethene	96	2.214	2.214	0.000	96	62641	20.0	18.5	
35 Methyl tert-butyl ether	73	2.226	2.226	0.000	97	187513	20.0	19.0	
36 Hexane	57	2.420	2.420	0.000	91	66743	20.0	20.5	
37 1,1-Dichloroethane	63	2.511	2.511	0.000	99	111876	20.0	17.6	
38 Vinyl acetate	86	2.557	2.557	0.000	100	26203	40.0	39.5	
39 Isopropyl ether	45	2.580	2.580	0.000	95	233074	20.0	19.1	
40 2-Chloro-1,3-butadiene	88	2.580	2.580	0.000	88	65559	20.0	18.3	
41 Tert-butyl ethyl ether	59	2.854	2.854	0.000	90	212204	20.0	18.5	
* 43 2-Butanone-d5	46	2.922	2.922	0.000	99	262640	250.0	250.0	
45 cis-1,2-Dichloroethene	96	2.957	2.956	0.001	93	66362	20.0	17.9	
44 2,2-Dichloropropane	97	2.957	2.956	0.001	81	23500	20.0	19.3	
46 2-Butanone (MEK)	72	2.968	2.968	0.000	99	31737	100.0	88.9	
42 Propionitrile	54	3.014	3.014	0.000	95	67790	200.0	195.5	
47 Ethyl acetate	70	3.036	3.036	0.000	99	12775	40.0	37.4	
48 Methyl acrylate	55	3.059	3.059	0.000	99	52314	20.0	17.1	
50 Methacrylonitrile	67	3.139	3.139	0.000	89	232510	200.0	185.7	
49 Chlorobromomethane	128	3.151	3.151	0.000	91	31069	20.0	17.5	
51 Tetrahydrofuran	42	3.196	3.196	0.000	87	24690	40.0	35.6	
52 Chloroform	83	3.219	3.219	0.000	100	100483	20.0	17.4	
$ 53 Dibromofluoromethane (Surr)	113	3.356	3.356	0.000	97	147276	50.0	47.7	
54 1,1,1-Trichloroethane	97	3.379	3.379	0.000	98	91010	20.0	18.3	
55 Cyclohexane	84	3.425	3.425	0.000	89	84591	20.0	19.8	
56 Carbon tetrachloride	117	3.527	3.527	0.000	97	72017	20.0	18.0	
57 1,1-Dichloropropene	75	3.527	3.527	0.000	99	93694	20.0	18.5	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	3.653	3.653	0.000	0	154090	50.0	45.8	
61 Isobutyl alcohol	43	3.676	3.664	0.012	94	43824	500.0	411.0	a
59 Benzene	78	3.710	3.710	0.000	95	285703	20.0	18.6	
60 1,2-Dichloroethane	62	3.721	3.721	0.000	96	70515	20.0	17.4	
62 Isooctane	57	3.813	3.813	0.000	93	129692	20.0	18.8	
63 Isopropyl acetate	61	3.813	3.813	0.000	97	22867	20.0	17.1	
64 Tert-amyl methyl ether	73	3.836	3.836	0.000	98	195154	20.0	18.4	
* 65 Fluorobenzene	96	3.984	3.984	0.000	99	705714	50.0	50.0	
66 n-Heptane	43	4.007	4.007	0.000	89	51698	20.0	16.9	
67 Trichloroethene	95	4.349	4.349	0.000	98	67147	20.0	18.2	
68 n-Butanol	56	4.384	4.349	0.035	93	21501	500.0	375.2	
69 Ethyl acrylate	55	4.509	4.498	0.011	98	68206	20.0	15.2	
70 Methylcyclohexane	83	4.555	4.555	0.000	94	74109	20.0	18.8	
71 1,2-Dichloropropane	63	4.578	4.578	0.000	95	76301	20.0	18.2	
* 72 1,4-Dioxane-d8	96	4.692	4.692	0.000	0	32022	1000.0	1000.0	
73 Dibromomethane	93	4.692	4.692	0.000	98	34597	20.0	17.9	
74 1,4-Dioxane	88	4.738	4.737	0.001	28	14783	400.0	407.6	
75 Methyl methacrylate	100	4.749	4.749	0.000	86	32668	40.0	38.9	
76 n-Propyl acetate	43	4.840	4.840	0.000	98	76305	20.0	19.1	
77 Dichlorobromomethane	83	4.886	4.886	0.000	99	83474	20.0	18.3	
78 2-Nitropropane	41	5.149	5.149	0.001	97	23121	40.0	33.7	
79 2-Chloroethyl vinyl ether	63	5.274	5.274	0.000	96	36603	20.0	15.3	
80 Epichlorohydrin	57	5.331	5.308	0.023	1	5648	20.0	19.4	Ma
81 cis-1,3-Dichloropropene	75	5.423	5.411	0.012	90	114678	20.0	18.2	
82 4-Methyl-2-pentanone (MIBK)	43	5.628	5.628	0.000	96	234826	100.0	94.8	
$ 83 Toluene-d8 (Surr)	98	5.742	5.731	0.011	99	703367	50.0	51.3	
84 Toluene	91	5.822	5.822	0.000	93	288951	20.0	18.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 trans-1,3-Dichloropropene	75	6.130	6.119	0.011	94	105302	20.0	19.6	
86 Ethyl methacrylate	69	6.313	6.302	0.011	87	73122	20.0	18.5	a
87 1,1,2-Trichloroethane	83	6.347	6.347	0.000	97	48855	20.0	18.6	
88 Tetrachloroethene	166	6.519	6.519	0.000	96	54439	20.0	18.6	
89 1,3-Dichloropropane	76	6.564	6.553	0.011	91	105221	20.0	19.1	
90 2-Hexanone	43	6.747	6.735	0.012	95	146727	100.0	78.2	
91 Chlorodibromomethane	129	6.850	6.850	0.000	99	57268	20.0	18.5	
93 Ethylene Dibromide	107	6.975	6.975	0.000	99	56152	20.0	18.9	
92 n-Butyl acetate	43	6.987	6.975	0.012	99	77314	20.0	15.5	
* 94 Chlorobenzene-d5	117	7.660	7.660	0.000	86	467878	50.0	50.0	
95 Chlorobenzene	112	7.706	7.706	0.000	96	175602	20.0	18.5	
96 1,1,1,2-Tetrachloroethane	131	7.843	7.843	0.000	98	57167	20.0	18.4	
97 Ethylbenzene	106	7.911	7.911	0.000	97	92937	20.0	19.0	
98 m-Xylene & p-Xylene	106	8.106	8.094	0.012	99	114194	20.0	18.3	
99 o-Xylene	106	8.688	8.688	0.000	93	105800	20.0	17.6	
100 Styrene	104	8.722	8.711	0.011	96	174953	20.0	17.6	
101 n-Butyl acrylate	73	8.779	8.768	0.011	99	38459	20.0	14.1	
102 Bromoform	173	8.939	8.927	0.012	95	31505	20.0	17.0	
103 Amyl acetate (mixed isomers)	43	9.167	9.167	0.000	92	78836	20.0	20.0	
104 Isopropylbenzene	105	9.293	9.293	0.000	95	238849	20.0	18.1	
$ 105 4-Bromofluorobenzene	174	9.487	9.487	0.000	86	171419	50.0	49.9	
106 Bromobenzene	156	9.681	9.681	0.000	97	66522	20.0	18.9	
107 1,1,2,2-Tetrachloroethane	83	9.795	9.795	0.000	99	69891	20.0	18.1	
108 1,2,3-Trichloropropane	75	9.818	9.807	0.011	98	55425	20.0	17.9	
109 trans-1,4-Dichloro-2-butene	75	9.898	9.898	0.000	92	31136	20.0	18.9	
110 N-Propylbenzene	91	9.955	9.955	0.000	99	266893	20.0	19.4	
111 2-Chlorotoluene	91	10.035	10.024	0.011	96	197428	20.0	19.3	
112 4-Ethyltoluene	105	10.161	10.161	0.000	99	223516	20.0	19.1	
113 4-Chlorotoluene	91	10.218	10.218	0.000	96	215013	20.0	19.8	
114 1,3,5-Trimethylbenzene	105	10.275	10.275	0.000	92	181098	20.0	19.9	
115 Butyl Methacrylate	87	10.560	10.560	0.000	88	65465	20.0	15.5	
116 tert-Butylbenzene	119	10.789	10.788	0.001	94	142625	20.0	18.9	
117 1,2,4-Trimethylbenzene	105	10.880	10.880	0.000	97	172198	20.0	18.8	
118 sec-Butylbenzene	105	11.154	11.154	0.000	99	205091	20.0	19.3	
119 1,3-Dichlorobenzene	146	11.234	11.234	0.000	95	116553	20.0	19.5	
* 120 1,4-Dichlorobenzene-d4	152	11.337	11.336	0.001	95	234528	50.0	50.0	
121 1,4-Dichlorobenzene	146	11.371	11.359	0.012	96	125476	20.0	19.2	
122 4-Isopropyltoluene	119	11.382	11.382	0.000	98	165472	20.0	19.6	
123 1,2,3-Trimethylbenzene	105	11.462	11.462	0.000	98	187730	20.0	19.2	
124 Benzyl chloride	126	11.553	11.553	0.000	99	29158	20.0	17.5	
125 2,3-Dihydroindene	117	11.668	11.668	0.000	94	226851	20.0	19.7	
126 1,2-Dichlorobenzene	146	11.770	11.770	0.000	95	119121	20.0	19.7	
127 p-Diethylbenzene	119	11.816	11.816	0.000	93	95207	20.0	22.8	
128 n-Butylbenzene	92	11.839	11.839	0.000	97	77121	20.0	19.6	
129 1,2-Dibromo-3-Chloropropane	157	12.455	12.455	0.000	94	12292	20.0	18.8	
130 1,2,4,5-Tetramethylbenzene	119	12.467	12.467	0.000	97	99209	20.0	19.8	
131 1,3,5-Trichlorobenzene	180	12.615	12.615	0.000	97	51216	20.0	19.6	
132 1,2,4-Trichlorobenzene	180	13.026	13.015	0.011	93	43672	20.0	18.7	
133 Hexachlorobutadiene	225	13.140	13.140	0.000	97	24577	20.0	21.6	
134 Naphthalene	128	13.163	13.152	0.011	99	97254	20.0	15.8	
135 1,2,3-Trichlorobenzene	180	13.300	13.300	0.000	94	38633	20.0	18.0	
S 137 1,2-Dichloroethene, Total	100				0		40.0	36.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 138 Xylenes, Total	100				0		40.0	35.9	
S 139 Total BTEX	1				0		100.0	91.9	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

ACROLEIN SP_00137	Amount Added:	4.00	Units: uL	
8FreonsSS_00045	Amount Added:	20.00	Units: uL	
GAS C SP_00461	Amount Added:	20.00	Units: uL	
8260 SP_00154	Amount Added:	20.00	Units: uL	
8260SURR250_00226	Amount Added:	1.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent

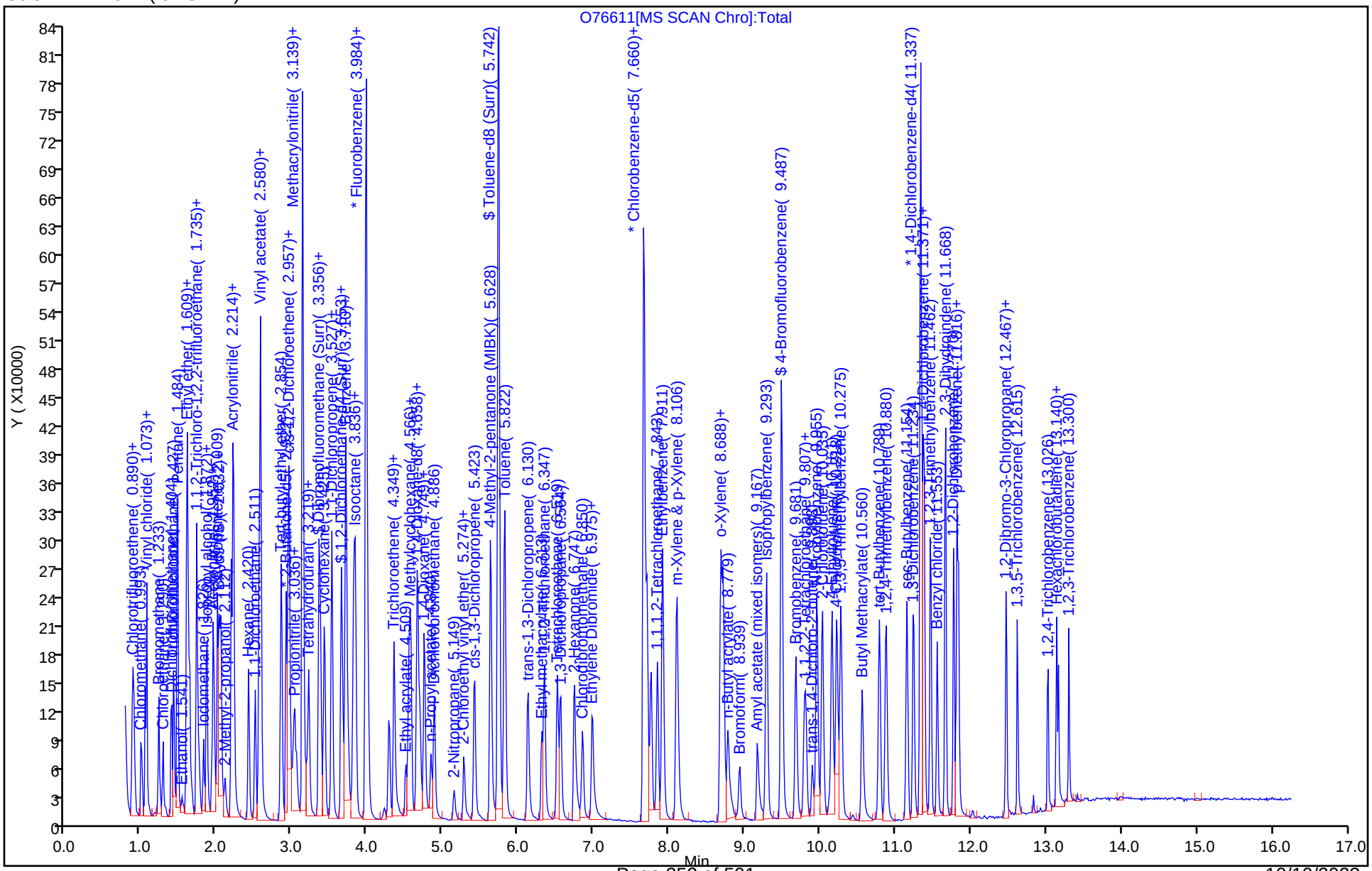
Report Date: 13-May-2022 10:12:00 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\O76611.d

Injection Date:	12-May-2022 10:23:30	Instrument ID:	CVOAMS12	Operator ID:	
Lims ID:	ICV			Worklist Smp#:	17
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8260W_12	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab Sample ID: CCVIS 460-845588/2 Calibration Date: 05/20/2022 05:21

Instrument ID: CVOAMS12 Calib Start Date: 05/12/2022 04:01

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/12/2022 06:25

Lab File ID: O76948.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
Chlorotrifluoroethene	Ave	0.8603	1.481		34.4	20.0	72.2*	20.0
Chlorodifluoromethane	Ave	0.0417	0.0383		18.4	20.0	-8.2	20.0
Dichlorodifluoromethane	Ave	0.2733	0.2759	0.1000	20.2	20.0	0.9	20.0
Chloromethane	Ave	0.3576	0.2921	0.1000	16.3	20.0	-18.3	20.0
Vinyl chloride	Ave	0.3511	0.3132	0.1000	17.8	20.0	-10.8	20.0
Butadiene	Lin2		0.2832		19.3	20.0	-3.7	20.0
Bromomethane	Ave	0.2470	0.2210	0.1000	17.9	20.0	-10.5	50.0
Chloroethane	Ave	0.2076	0.1901	0.1000	18.3	20.0	-8.5	50.0
Dichlorofluoromethane	Ave	0.4566	0.4187		18.3	20.0	-8.3	20.0
Trichlorofluoromethane	Ave	0.3336	0.3537	0.1000	21.2	20.0	6.0	20.0
Pentane	Ave	0.0488	0.0394		32.3	40.0	-19.2	20.0
Ethanol	Ave	0.0859	0.0794		739	800	-7.6	50.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.1864	0.1811		19.4	20.0	-2.8	20.0
Ethyl ether	Ave	0.1907	0.1537		16.1	20.0	-19.4	20.0
2-Methyl-1,3-butadiene	Ave	0.2086	0.2042		19.6	20.0	-2.1	20.0
1,1,1-Trifluoro-2,2-dichloro ethane	Ave	0.2998	0.2657		17.7	20.0	-11.4	20.0
Acrolein	Lin2		1.131		35.4	40.0	-11.5	50.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.1828	0.2014	0.1000	22.0	20.0	10.2	20.0
1,1-Dichloroethene	Ave	0.2162	0.2142	0.1000	19.8	20.0	-0.9	20.0
Acetone	Ave	0.2147	0.2176	0.0500	101	100	1.3	50.0
Iodomethane	Ave	0.3095	0.3551		22.9	20.0	14.7	20.0
Isopropyl alcohol	Ave	0.7524	0.6825		181	200	-9.3	50.0
Carbon disulfide	Ave	0.8195	0.8073	0.1000	19.7	20.0	-1.5	50.0
3-Chloro-1-propene	Ave	0.1635	0.1624		19.9	20.0	-0.6	20.0
Acetonitrile	Ave	0.5058	0.4378		173	200	-13.5	20.0
Methyl acetate	Ave	6.558	5.408	0.1000	33.0	40.0	-17.5	20.0
Cyclopentene	Ave	0.5782	0.5133		17.8	20.0	-11.2	20.0
Methylene Chloride	Ave	0.2755	0.2635	0.1000	19.1	20.0	-4.4	20.0
2-Methyl-2-propanol	Ave	1.191	1.072		180	200	-9.9	50.0
Acrylonitrile	Ave	0.0717	0.0561		157	200	-21.7*	20.0
trans-1,2-Dichloroethene	Ave	0.2395	0.2319	0.1000	19.4	20.0	-3.2	20.0
Methyl tert-butyl ether	Ave	0.6997	0.6469	0.1000	18.5	20.0	-7.6	20.0
Hexane	Ave	0.2307	0.2254		19.5	20.0	-2.3	20.0
1,1-Dichloroethane	Ave	0.4503	0.3682	0.2000	16.4	20.0	-18.2	20.0
Vinyl acetate	Ave	0.6322	0.8952		56.6	40.0	41.6*	20.0
2-Chloro-1,3-butadiene	Ave	0.2537	0.2562		20.2	20.0	1.0	20.0
Isopropyl ether	Ave	0.8633	0.6975		16.2	20.0	-19.2	20.0
Tert-butyl ethyl ether	Ave	0.8118	0.7024		17.3	20.0	-13.5	20.0
2,2-Dichloropropane	Ave	0.0862	0.0870		20.2	20.0	1.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab Sample ID: CCVIS 460-845588/2 Calibration Date: 05/20/2022 05:21

Instrument ID: CVOAMS12 Calib Start Date: 05/12/2022 04:01

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/12/2022 06:25

Lab File ID: O76948.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
cis-1,2-Dichloroethene	Ave	0.2634	0.2464	0.1000	18.7	20.0	-6.5	20.0
2-Butanone (MEK)	Ave	0.3398	0.3648	0.0500	107	100	7.4	50.0
Propionitrile	Qua2		1.833		187	200	-6.6	20.0
Ethyl acetate	Ave	0.3250	0.3881		47.8	40.0	19.4	20.0
Methyl acrylate	Ave	0.2172	0.1849		17.0	20.0	-14.9	20.0
Chlorobromomethane	Ave	0.1259	0.1299		20.6	20.0	3.1	20.0
Methacrylonitrile	Ave	0.0887	0.0769		173	200	-13.3	20.0
Tetrahydrofuran	Ave	0.6598	0.5873		35.6	40.0	-11.0	20.0
Chloroform	Ave	0.4092	0.3504	0.2000	17.1	20.0	-14.4	20.0
1,1,1-Trichloroethane	Ave	0.3528	0.3325	0.1000	18.8	20.0	-5.8	20.0
Cyclohexane	Ave	0.3033	0.3175	0.1000	20.9	20.0	4.7	50.0
Carbon tetrachloride	Ave	0.2833	0.2792	0.1000	19.7	20.0	-1.5	20.0
1,1-Dichloropropene	Ave	0.3591	0.3384		18.8	20.0	-5.8	20.0
Isobutyl alcohol	Ave	0.6044	0.5100		422	500	-15.6	50.0
Benzene	Ave	1.644	1.488	0.5000	18.1	20.0	-9.5	20.0
1,2-Dichloroethane	Ave	0.2864	0.2398	0.1000	16.7	20.0	-16.3	20.0
Isooctane	Ave	0.4893	0.5847		23.9	20.0	19.5	20.0
Isopropyl acetate	Ave	0.0949	0.0832		17.5	20.0	-12.4	20.0
Tert-amyl methyl ether	Ave	0.7499	0.6916		18.4	20.0	-7.8	20.0
n-Heptane	Ave	0.2164	0.2019		18.7	20.0	-6.7	20.0
Trichloroethene	Ave	0.2621	0.2503	0.2000	19.1	20.0	-4.5	20.0
n-Butanol	Ave	0.3248	0.2260		348	500	-30.4	50.0
Ethyl acrylate	QuaF		0.2129		13.4	20.0	-33.1*	20.0
Methylcyclohexane	Ave	0.2786	0.2893	0.1000	20.8	20.0	3.9	50.0
1,2-Dichloropropane	Ave	0.2962	0.2644	0.1000	17.8	20.0	-10.8	20.0
Dibromomethane	Ave	0.1369	0.1236		18.1	20.0	-9.7	20.0
1,4-Dioxane	Ave	1.133	1.184		418	400	4.5	50.0
Methyl methacrylate	Ave	0.0595	0.0657		44.2	40.0	10.5	20.0
n-Propyl acetate	Ave	0.2832	0.2277		16.1	20.0	-19.6	20.0
Dichlorobromomethane	Ave	0.3231	0.3004	0.2000	18.6	20.0	-7.0	20.0
2-Nitropropane	Ave	0.0486	0.0358		29.5	40.0	-26.3*	20.0
2-Chloroethyl vinyl ether	Qua		0.1393		16.4	20.0	-18.2	20.0
Epichlorohydrin	Ave	0.2783	0.2947		423	400	5.9	20.0
cis-1,3-Dichloropropene	Ave	0.6721	0.6143	0.2000	18.3	20.0	-8.6	50.0
4-Methyl-2-pentanone (MIBK)	Ave	2.359	2.559	0.0500	108	100	8.5	50.0
Toluene	Ave	1.673	1.510	0.4000	18.1	20.0	-9.7	20.0
trans-1,3-Dichloropropene	Ave	0.5742	0.5337	0.1000	18.6	20.0	-7.0	50.0
Ethyl methacrylate	Ave	0.4215	0.3809		18.1	20.0	-9.6	20.0
1,1,2-Trichloroethane	Ave	0.2802	0.2567	0.1000	18.3	20.0	-8.4	20.0
Tetrachloroethene	Ave	0.3130	0.3143	0.2000	20.1	20.0	0.4	20.0
1,3-Dichloropropane	Ave	0.5877	0.5245		17.8	20.0	-10.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab Sample ID: CCVIS 460-845588/2 Calibration Date: 05/20/2022 05:21

Instrument ID: CVOAMS12 Calib Start Date: 05/12/2022 04:01

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/12/2022 06:25

Lab File ID: O76948.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
2-Hexanone	Qua		1.563	0.0500	87.2	100	-12.8	50.0
Chlorodibromomethane	Ave	0.3301	0.3243	0.1000	19.6	20.0	-1.8	50.0
Ethylene Dibromide	Ave	0.3169	0.3121	0.1000	19.7	20.0	-1.5	20.0
n-Butyl acetate	QuaF		0.3415		12.8	20.0	-35.9*	20.0
Chlorobenzene	Ave	1.012	0.997	0.5000	19.7	20.0	-1.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3321	0.3237		19.5	20.0	-2.5	20.0
Ethylbenzene	Ave	0.5231	0.4971	0.1000	19.0	20.0	-5.0	20.0
m-Xylene & p-Xylene	Ave	0.6658	0.6252	0.1000	18.8	20.0	-6.1	20.0
o-Xylene	Ave	0.6429	0.5964	0.3000	18.6	20.0	-7.2	20.0
Styrene	Ave	1.059	1.026	0.3000	19.4	20.0	-3.2	20.0
n-Butyl acrylate	QuaF		0.2115		14.5	20.0	-27.3*	20.0
Bromoform	Ave	0.1986	0.1908	0.1000	19.2	20.0	-4.0	20.0
Amyl acetate (mixed isomers)	Ave	0.8410	0.6766		16.1	20.0	-19.6	20.0
Isopropylbenzene	Ave	1.411	1.296	0.1000	18.4	20.0	-8.2	20.0
Bromobenzene	Ave	0.7485	0.6996		18.7	20.0	-6.5	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8226	0.6838	0.3000	16.6	20.0	-16.9	20.0
1,2,3-Trichloropropane	Ave	0.6614	0.4825		14.6	20.0	-27.0*	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3509	0.2915		16.6	20.0	-16.9	20.0
N-Propylbenzene	Ave	2.926	2.623		17.9	20.0	-10.4	20.0
2-Chlorotoluene	Ave	2.179	1.997		18.3	20.0	-8.4	20.0
4-Ethyltoluene	Ave	2.495	2.319		18.6	20.0	-7.1	20.0
4-Chlorotoluene	Ave	2.314	2.011		17.4	20.0	-13.1	20.0
1,3,5-Trimethylbenzene	Ave	1.939	1.820		18.8	20.0	-6.1	20.0
Butyl Methacrylate	QuaF		0.7500		16.7	20.0	-16.6	20.0
tert-Butylbenzene	Ave	1.609	1.635		20.3	20.0	1.6	20.0
1,2,4-Trimethylbenzene	Ave	1.952	1.804		18.5	20.0	-7.6	20.0
sec-Butylbenzene	Ave	2.263	2.231		19.7	20.0	-1.4	20.0
1,3-Dichlorobenzene	Ave	1.277	1.256	0.6000	19.7	20.0	-1.6	20.0
1,4-Dichlorobenzene	Ave	1.395	1.349	0.5000	19.3	20.0	-3.3	20.0
4-Isopropyltoluene	Ave	1.802	1.879		20.9	20.0	4.3	20.0
1,2,3-Trimethylbenzene	Ave	2.085	1.961		18.8	20.0	-6.0	20.0
Benzyl chloride	Qua		0.3361		18.9	20.0	-5.5	50.0
Indan	Ave	2.456	2.387		19.4	20.0	-2.8	20.0
1,2-Dichlorobenzene	Ave	1.289	1.293	0.4000	20.1	20.0	0.3	20.0
p-Diethylbenzene	Ave	0.8918	0.9654		21.7	20.0	8.3	20.0
n-Butylbenzene	Ave	0.8409	0.8879		21.1	20.0	5.6	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1391	0.1418	0.0500	20.4	20.0	1.9	50.0
1,2,4,5-Tetramethylbenzene	Ave	1.068	1.075		20.1	20.0	0.7	20.0
1,3,5-Trichlorobenzene	Ave	0.5561	0.6133		22.1	20.0	10.3	20.0
1,2,4-Trichlorobenzene	Ave	0.4992	0.5697	0.2000	22.8	20.0	14.1	20.0
Hexachlorobutadiene	Ave	0.2420	0.2769		22.9	20.0	14.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab Sample ID: CCVIS 460-845588/2 Calibration Date: 05/20/2022 05:21

Instrument ID: CVOAMS12 Calib Start Date: 05/12/2022 04:01

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/12/2022 06:25

Lab File ID: O76948.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
Naphthalene	Ave	1.311	1.293		19.7	20.0	-1.3	50.0
1,2,3-Trichlorobenzene	Ave	0.4584	0.4647		20.3	20.0	1.4	20.0
Dibromofluoromethane (Surr)	Ave	0.2187	0.2102		48.1	50.0	-3.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2385	0.1957		41.0	50.0	-17.9	20.0
Toluene-d8 (Surr)	Ave	1.464	1.392		47.5	50.0	-4.9	20.0
4-Bromofluorobenzene	Ave	0.3673	0.3803		51.8	50.0	3.5	20.0

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220520-145506.b\O76948.d
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 20-May-2022 05:21:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0145506-002
Operator ID: Instrument ID: CVOAMS12
Sublist: chrom-8260W_12*sub26

Method: \\chromfs\Edison\ChromData\CVOAMS12\20220520-145506.b\8260W_12.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 23-May-2022 15:23:30 Calib Date: 12-May-2022 06:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\O76603.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1657

First Level Reviewer: tupayachia Date: 20-May-2022 06:02:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116	0.879	0.879	0.000	87	26048	20.0	34.4	
3 Dichlorodifluoromethane	85	0.902	0.902	0.000	99	81816	20.0	20.2	
5 Chlorodifluoromethane	67	0.902	0.902	0.000	97	11349	20.0	18.4	
6 Chloromethane	50	1.004	1.004	0.000	98	86639	20.0	16.3	
7 Vinyl chloride	62	1.050	1.050	0.000	97	92891	20.0	17.8	
8 Butadiene	54	1.073	1.073	0.000	93	83994	20.0	19.3	
9 Bromomethane	94	1.233	1.233	0.000	100	65554	20.0	17.9	
10 Chloroethane	64	1.290	1.290	0.000	98	56378	20.0	18.3	
11 Dichlorofluoromethane	67	1.404	1.404	0.000	98	124195	20.0	18.3	
12 Trichlorofluoromethane	101	1.427	1.427	0.000	97	104906	20.0	21.2	
13 Pentane	57	1.484	1.484	0.000	96	23394	40.0	32.3	
14 Ethanol	46	1.552	1.552	0.000	92	11115	800.0	739.2	
15 Ethyl ether	59	1.598	1.598	0.000	94	45594	20.0	16.1	
16 1,2-Dichloro-1,1,2-trifluoroetha	117	1.598	1.598	0.000	86	53725	20.0	19.4	
17 2-Methyl-1,3-butadiene	53	1.609	1.609	0.000	91	60554	20.0	19.6	
18 1,1,1-Trifluoro-2,2-dichloroetha	83	1.644	1.644	0.000	93	78792	20.0	17.7	
19 Acrolein	56	1.678	1.678	0.000	95	7915	40.0	35.4	
20 1,1-Dichloroethene	96	1.735	1.735	0.000	94	63539	20.0	19.8	
21 112TCTFE	101	1.735	1.735	0.000	98	59744	20.0	22.0	
22 Acetone	58	1.769	1.769	0.000	90	19130	100.0	101.3	
23 Iodomethane	142	1.826	1.826	0.000	96	105313	20.0	22.9	
24 Isopropyl alcohol	45	1.861	1.861	0.000	26	23886	200.0	181.4	
25 Carbon disulfide	76	1.872	1.872	0.000	98	239449	20.0	19.7	
26 Acetonitrile	38	1.952	1.952	0.000	81	15321	200.0	173.1	
27 3-Chloro-1-propene	76	1.952	1.952	0.000	94	48178	20.0	19.9	
28 Methyl acetate	43	1.975	1.975	0.000	96	37851	40.0	33.0	
29 Cyclopentene	67	2.009	2.009	0.000	95	152231	20.0	17.8	
30 Methylene Chloride	84	2.032	2.032	0.000	83	78160	20.0	19.1	
* 31 TBA-d9 (IS)	65	2.055	2.055	0.000	99	174981	1000.0	1000.0	
32 2-Methyl-2-propanol	59	2.112	2.112	0.000	100	37526	200.0	180.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Acrylonitrile	53	2.192	2.192	0.000	94	166443	200.0	156.5	
34 trans-1,2-Dichloroethene	96	2.215	2.215	0.000	88	68782	20.0	19.4	
35 Methyl tert-butyl ether	73	2.226	2.226	0.000	96	191853	20.0	18.5	
36 Hexane	57	2.420	2.420	0.000	88	66844	20.0	19.5	
37 1,1-Dichloroethane	63	2.511	2.511	0.000	99	109205	20.0	16.4	
38 Vinyl acetate	86	2.557	2.557	0.000	100	31485	40.0	56.6	
39 Isopropyl ether	45	2.580	2.580	0.000	88	206868	20.0	16.2	
40 2-Chloro-1,3-butadiene	88	2.580	2.580	0.000	84	75993	20.0	20.2	
41 Tert-butyl ethyl ether	59	2.854	2.854	0.000	91	208317	20.0	17.3	
* 43 2-Butanone-d5	46	2.922	2.922	0.000	100	219819	250.0	250.0	
44 2,2-Dichloropropane	97	2.945	2.945	0.000	80	25811	20.0	20.2	
45 cis-1,2-Dichloroethene	96	2.957	2.957	0.000	97	73070	20.0	18.7	
46 2-Butanone (MEK)	72	2.968	2.968	0.000	99	32079	100.0	107.4	
42 Propionitrile	54	3.014	3.014	0.000	96	64158	200.0	186.7	
47 Ethyl acetate	70	3.037	3.037	0.000	98	13649	40.0	47.8	
48 Methyl acrylate	55	3.059	3.059	0.000	99	54837	20.0	17.0	
50 Methacrylonitrile	67	3.139	3.139	0.000	87	228067	200.0	173.4	
49 Chlorobromomethane	128	3.139	3.139	0.000	82	38517	20.0	20.6	
51 Tetrahydrofuran	42	3.196	3.196	0.000	77	20657	40.0	35.6	
52 Chloroform	83	3.219	3.219	0.000	99	103938	20.0	17.1	
$ 53 Dibromofluoromethane (Surr)	113	3.356	3.356	0.000	98	155874	50.0	48.1	
54 1,1,1-Trichloroethane	97	3.368	3.368	0.000	97	98608	20.0	18.8	
55 Cyclohexane	84	3.425	3.425	0.000	85	94159	20.0	20.9	
56 Carbon tetrachloride	117	3.516	3.516	0.000	96	82807	20.0	19.7	
57 1,1-Dichloropropene	75	3.527	3.527	0.000	97	100376	20.0	18.8	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	3.642	3.642	0.000	0	145102	50.0	41.0	
61 Isobutyl alcohol	43	3.664	3.664	0.000	95	44624	500.0	421.9	a
59 Benzene	78	3.710	3.710	0.000	94	306966	20.0	18.1	
60 1,2-Dichloroethane	62	3.722	3.722	0.000	97	71111	20.0	16.7	
62 Isooctane	57	3.813	3.813	0.000	96	173415	20.0	23.9	
63 Isopropyl acetate	61	3.813	3.813	0.000	94	24678	20.0	17.5	
64 Tert-amyl methyl ether	73	3.836	3.836	0.000	98	205111	20.0	18.4	
* 65 Fluorobenzene	96	3.973	3.973	0.000	100	741479	50.0	50.0	
66 n-Heptane	43	3.996	3.996	0.000	87	59885	20.0	18.7	
67 Trichloroethene	95	4.349	4.349	0.000	96	74234	20.0	19.1	
68 n-Butanol	56	4.372	4.372	0.000	91	19771	500.0	347.9	
69 Ethyl acrylate	55	4.498	4.498	0.000	97	63133	20.0	13.4	
70 Methylcyclohexane	83	4.544	4.544	0.000	89	85811	20.0	20.8	
71 1,2-Dichloropropane	63	4.566	4.566	0.000	95	78404	20.0	17.8	
* 72 1,4-Dioxane-d8	96	4.681	4.681	0.000	0	37015	1000.0	1000.0	
73 Dibromomethane	93	4.692	4.692	0.000	98	36644	20.0	18.1	
74 1,4-Dioxane	88	4.738	4.738	0.000	29	17523	400.0	417.9	
75 Methyl methacrylate	100	4.749	4.749	0.000	82	38963	40.0	44.2	
76 n-Propyl acetate	43	4.829	4.829	0.000	96	67524	20.0	16.1	
77 Dichlorobromomethane	83	4.875	4.875	0.000	98	89103	20.0	18.6	
78 2-Nitropropane	41	5.137	5.137	0.000	95	21252	40.0	29.5	
79 2-Chloroethyl vinyl ether	63	5.263	5.263	0.000	91	41403	20.0	16.4	
80 Epichlorohydrin	57	5.309	5.309	0.000	99	103642	400.0	423.5	
81 cis-1,3-Dichloropropene	75	5.411	5.411	0.000	87	126702	20.0	18.3	
82 4-Methyl-2-pentanone (MIBK)	43	5.628	5.628	0.000	92	224972	100.0	108.5	
$ 83 Toluene-d8 (Surr)	98	5.731	5.731	0.000	99	717659	50.0	47.5	
84 Toluene	91	5.811	5.811	0.000	93	311554	20.0	18.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 trans-1,3-Dichloropropene	75	6.119	6.119	0.000	93	110097	20.0	18.6	
86 Ethyl methacrylate	69	6.302	6.302	0.000	85	78568	20.0	18.1	a
87 1,1,2-Trichloroethane	83	6.336	6.336	0.000	94	52945	20.0	18.3	
88 Tetrachloroethene	166	6.507	6.507	0.000	97	64826	20.0	20.1	
89 1,3-Dichloropropane	76	6.553	6.553	0.000	88	108184	20.0	17.8	
90 2-Hexanone	43	6.736	6.736	0.000	92	137399	100.0	87.2	
91 Chlorodibromomethane	129	6.838	6.838	0.000	97	66890	20.0	19.6	
93 Ethylene Dibromide	107	6.964	6.964	0.000	97	64383	20.0	19.7	
92 n-Butyl acetate	43	6.975	6.975	0.000	97	70444	20.0	12.8	
* 94 Chlorobenzene-d5	117	7.649	7.649	0.000	83	515677	50.0	50.0	
95 Chlorobenzene	112	7.695	7.695	0.000	98	205648	20.0	19.7	
96 1,1,1,2-Tetrachloroethane	131	7.832	7.832	0.000	96	66772	20.0	19.5	
97 Ethylbenzene	106	7.900	7.900	0.000	97	102531	20.0	19.0	
98 m-Xylene & p-Xylene	106	8.094	8.094	0.000	99	128958	20.0	18.8	
99 o-Xylene	106	8.676	8.676	0.000	94	123013	20.0	18.6	
100 Styrene	104	8.711	8.711	0.000	97	211598	20.0	19.4	
101 n-Butyl acrylate	73	8.768	8.768	0.000	100	43629	20.0	14.5	
102 Bromoform	173	8.928	8.928	0.000	97	39351	20.0	19.2	
103 Amyl acetate (mixed isomers)	43	9.156	9.156	0.000	93	73919	20.0	16.1	
104 Isopropylbenzene	105	9.282	9.282	0.000	94	267252	20.0	18.4	
$ 105 4-Bromofluorobenzene	174	9.476	9.476	0.000	91	196109	50.0	51.8	
106 Bromobenzene	156	9.670	9.670	0.000	97	76437	20.0	18.7	
107 1,1,2,2-Tetrachloroethane	83	9.784	9.784	0.000	98	74706	20.0	16.6	
108 1,2,3-Trichloropropane	75	9.807	9.807	0.000	97	52720	20.0	14.6	
109 trans-1,4-Dichloro-2-butene	75	9.887	9.887	0.000	89	31850	20.0	16.6	
110 N-Propylbenzene	91	9.944	9.944	0.000	100	286538	20.0	17.9	
111 2-Chlorotoluene	91	10.024	10.024	0.000	96	218184	20.0	18.3	
112 4-Ethyltoluene	105	10.149	10.149	0.000	99	253312	20.0	18.6	
113 4-Chlorotoluene	91	10.206	10.206	0.000	95	219666	20.0	17.4	
114 1,3,5-Trimethylbenzene	105	10.263	10.263	0.000	93	198829	20.0	18.8	
115 Butyl Methacrylate	87	10.549	10.549	0.000	85	81941	20.0	16.7	
116 tert-Butylbenzene	119	10.777	10.777	0.000	96	178608	20.0	20.3	
117 1,2,4-Trimethylbenzene	105	10.869	10.869	0.000	96	197113	20.0	18.5	
118 sec-Butylbenzene	105	11.143	11.143	0.000	99	243759	20.0	19.7	
119 1,3-Dichlorobenzene	146	11.234	11.234	0.000	97	137242	20.0	19.7	
* 120 1,4-Dichlorobenzene-d4	152	11.325	11.325	0.000	93	273141	50.0	50.0	
121 1,4-Dichlorobenzene	146	11.359	11.359	0.000	96	147387	20.0	19.3	
122 4-Isopropyltoluene	119	11.371	11.371	0.000	98	205313	20.0	20.9	
123 1,2,3-Trimethylbenzene	105	11.462	11.462	0.000	97	214222	20.0	18.8	
124 Benzyl chloride	126	11.542	11.542	0.000	100	36720	20.0	18.9	
125 2,3-Dihydroindene	117	11.656	11.656	0.000	94	260772	20.0	19.4	
126 1,2-Dichlorobenzene	146	11.770	11.770	0.000	97	141307	20.0	20.1	
127 p-Diethylbenzene	119	11.805	11.805	0.000	95	105472	20.0	21.7	
128 n-Butylbenzene	92	11.828	11.828	0.000	98	97012	20.0	21.1	
129 1,2-Dibromo-3-Chloropropane	157	12.455	12.455	0.000	92	15493	20.0	20.4	
130 1,2,4,5-Tetramethylbenzene	119	12.467	12.467	0.000	98	117453	20.0	20.1	
131 1,3,5-Trichlorobenzene	180	12.615	12.615	0.000	97	67005	20.0	22.1	
132 1,2,4-Trichlorobenzene	180	13.015	13.015	0.000	94	62245	20.0	22.8	
133 Hexachlorobutadiene	225	13.129	13.129	0.000	93	30256	20.0	22.9	
134 Naphthalene	128	13.152	13.152	0.000	99	141322	20.0	19.7	
135 1,2,3-Trichlorobenzene	180	13.300	13.300	0.000	96	50772	20.0	20.3	
S 137 1,2-Dichloroethene, Total	100				0		40.0	38.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 138 Xylenes, Total	100				0		40.0	37.3	
S 139 Total BTEX	1				0		100.0	92.5	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260MIX1COMB_00154	Amount Added:	20.00	Units: uL	
ACROLEIN W_00140	Amount Added:	4.00	Units: uL	
GASES Li_00476	Amount Added:	20.00	Units: uL	
524freon_00052	Amount Added:	20.00	Units: uL	
8260SURR250_00226	Amount Added:	1.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 23-May-2022 15:23:31 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220520-145506.b\O76948.d

Injection Date: 20-May-2022 05:21:30 Instrument ID: CVOAMS12 Operator ID:

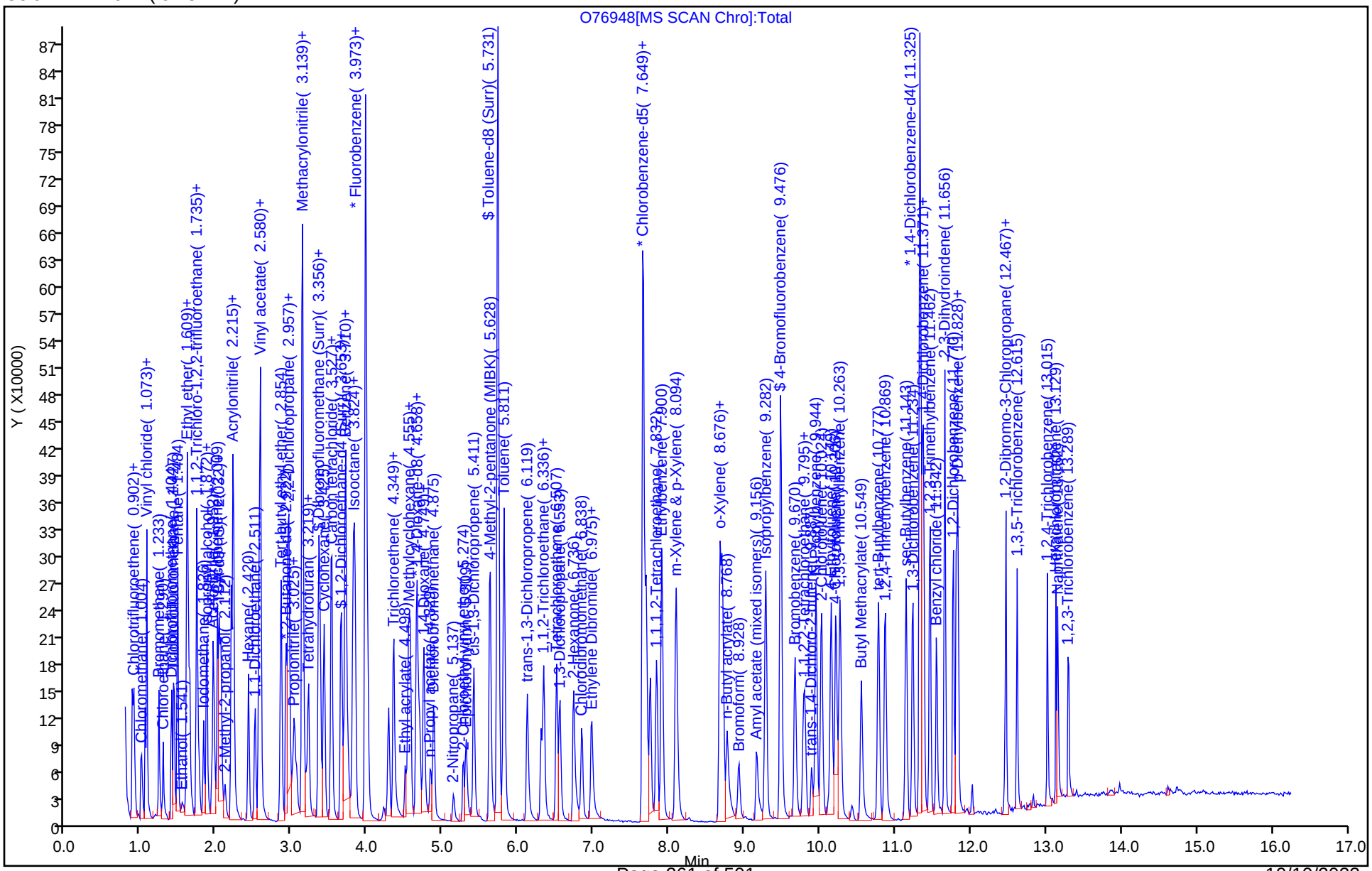
Lims ID: CCVIS Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 1

Method: 8260W_12 Limit Group: VOA - 8260D Water and Solid

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab Sample ID: ICV 460-845946/17 Calibration Date: 05/22/2022 14:28

Instrument ID: CVOAMS12 Calib Start Date: 05/22/2022 08:51

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/22/2022 11:15

Lab File ID: O76999.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
Chlorotrifluoroethene	Ave	1.429	0.8520		11.9	20.0	-40.4*	30.0
Dichlorodifluoromethane	Ave	0.3410	0.3507	0.1000	20.6	20.0	2.9	30.0
Chlorodifluoromethane	Ave	0.0535	0.0474		17.7	20.0	-11.4	30.0
Chloromethane	Ave	0.3151	0.3217	0.1000	20.4	20.0	2.1	30.0
Vinyl chloride	Ave	0.3273	0.3302	0.1000	20.2	20.0	0.9	30.0
Butadiene	Ave	0.2872	0.2746		19.1	20.0	-4.4	30.0
Bromomethane	Ave	0.2493	0.2704	0.1000	21.7	20.0	8.5	30.0
Chloroethane	Ave	0.1976	0.1970	0.1000	19.9	20.0	-0.3	30.0
Dichlorofluoromethane	Ave	0.4616	0.4926		21.3	20.0	6.7	30.0
Trichlorofluoromethane	Ave	0.4592	0.4942	0.1000	21.5	20.0	7.6	30.0
Pentane	Qua2		0.0551		45.6	40.0	13.9	30.0
Ethanol	Ave	0.0622	0.0616		791	800	-1.1	30.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.2341	0.2218		18.9	20.0	-5.3	30.0
Ethyl ether	Ave	0.1735	0.1710		19.7	20.0	-1.5	30.0
2-Methyl-1,3-butadiene	Ave	0.2252	0.2233		19.8	20.0	-0.9	30.0
1,1,1-Trifluoro-2,2-dichloro ethane	Ave	0.2969	0.2878		19.4	20.0	-3.1	30.0
Acrolein	Qua2		1.137		42.7	40.1	6.6	30.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.2283	0.2322	0.1000	20.3	20.0	1.7	30.0
1,1-Dichloroethene	Ave	0.2395	0.2293	0.1000	19.1	20.0	-4.3	30.0
Acetone	Ave	0.1985	0.1441	0.0500	72.6	100	-27.4	30.0
Iodomethane	Ave	0.4514	0.3693		16.4	20.0	-18.2	30.0
Isopropyl alcohol	Ave	0.6302	0.5374		171	200	-14.7	30.0
Carbon disulfide	Ave	0.8128	0.7482	0.1000	18.4	20.0	-8.0	30.0
3-Chloro-1-propene	Ave	0.1559	0.1619		20.8	20.0	3.8	30.0
Acetonitrile	Ave	0.6967	0.5139		148	200	-26.2	30.0
Methyl acetate	Ave	6.550	4.863	0.1000	29.7	40.0	-25.8	30.0
Cyclopentene	Ave	0.5520	0.5150		18.7	20.0	-6.7	30.0
Methylene Chloride	Ave	0.2837	0.2611	0.1000	18.4	20.0	-8.0	30.0
2-Methyl-2-propanol	QuaF		0.9328		206	200	3.1	30.0
Acrylonitrile	Qua2		0.0609		218	200	8.9	30.0
Methyl tert-butyl ether	Ave	0.7565	0.7257	0.1000	19.2	20.0	-4.1	30.0
trans-1,2-Dichloroethene	Ave	0.2652	0.2428	0.1000	18.3	20.0	-8.5	30.0
Hexane	Ave	0.2145	0.1992		18.6	20.0	-7.1	30.0
1,1-Dichloroethane	Ave	0.4477	0.3937	0.2000	17.6	20.0	-12.1	30.0
Vinyl acetate	Ave	0.8245	0.6160		29.9	40.0	-25.3	30.0
Isopropyl ether	Ave	0.8098	0.7322		18.1	20.0	-9.6	30.0
2-Chloro-1,3-butadiene	Ave	0.2728	0.2501		18.3	20.0	-8.3	30.0
Tert-butyl ethyl ether	Ave	0.8360	0.7722		18.5	20.0	-7.6	30.0
2,2-Dichloropropane	Lin2		0.0922		20.3	20.0	1.6	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab Sample ID: ICV 460-845946/17 Calibration Date: 05/22/2022 14:28

Instrument ID: CVOAMS12 Calib Start Date: 05/22/2022 08:51

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/22/2022 11:15

Lab File ID: O76999.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
cis-1,2-Dichloroethene	Ave	0.2900	0.2597	0.1000	17.9	20.0	-10.4	30.0
2-Butanone (MEK)	Ave	0.3293	0.2951	0.0500	89.6	100	-10.4	30.0
Propionitrile	Ave	1.537	1.277		166	200	-16.9	30.0
Ethyl acetate	Ave	0.3414	0.3051		35.7	40.0	-10.6	30.0
Methyl acrylate	Ave	0.1778	0.1997		22.5	20.0	12.3	30.0
Methacrylonitrile	Ave	0.0802	0.0808		202	200	0.8	30.0
Chlorobromomethane	Ave	0.1625	0.1476		18.2	20.0	-9.2	30.0
Tetrahydrofuran	Ave	0.6786	0.5001		29.5	40.0	-26.3	30.0
Chloroform	Ave	0.4595	0.4187	0.2000	18.2	20.0	-8.9	30.0
1,1,1-Trichloroethane	Ave	0.4627	0.4204	0.1000	18.2	20.0	-9.1	30.0
Cyclohexane	Ave	0.3219	0.3113	0.1000	19.3	20.0	-3.3	30.0
1,1-Dichloropropene	Ave	0.3718	0.3406		18.3	20.0	-8.4	30.0
Carbon tetrachloride	Ave	0.4236	0.3785	0.1000	17.9	20.0	-10.6	30.0
Isobutyl alcohol	Ave	0.4748	0.3969		418	500	-16.4	30.0
Benzene	Ave	1.284	1.098	0.5000	17.1	20.0	-14.5	30.0
1,2-Dichloroethane	Ave	0.3529	0.3300	0.1000	18.7	20.0	-6.5	30.0
Isooctane	Ave	0.4763	0.4091		17.2	20.0	-14.1	30.0
Isopropyl acetate	Ave	0.0836	0.0829		19.8	20.0	-0.9	30.0
Tert-amyl methyl ether	Ave	0.7891	0.7434		18.8	20.0	-5.8	30.0
n-Heptane	Ave	0.1873	0.1547		16.5	20.0	-17.4	30.0
Trichloroethene	Ave	0.2929	0.2749	0.2000	18.8	20.0	-6.1	30.0
n-Butanol	Ave	0.2757	0.1994		362	500	-27.7	30.0
Ethyl acrylate	Ave	0.2682	0.2655		19.8	20.0	-1.0	30.0
Methylcyclohexane	Ave	0.2944	0.2718	0.1000	18.5	20.0	-7.7	30.0
1,2-Dichloropropane	Ave	0.2724	0.2455	0.1000	18.0	20.0	-9.9	30.0
Dibromomethane	Ave	0.1581	0.1466		18.5	20.0	-7.3	30.0
1,4-Dioxane	QuaF		0.9487		399	400	-0.3	30.0
Methyl methacrylate	Ave	0.0676	0.0729		43.2	40.0	7.9	30.0
n-Propyl acetate	Ave	0.2909	0.2982		20.5	20.0	2.5	30.0
Dichlorobromomethane	Ave	0.3790	0.3420	0.2000	18.0	20.0	-9.8	30.0
2-Nitropropane	Ave	0.0684	0.0585		34.2	40.0	-14.5	30.0
2-Chloroethyl vinyl ether	Ave	0.1503	0.1299		17.3	20.0	-13.6	30.0
Epichlorohydrin	Ave	0.2663	0.3089		23.2	20.0	16.0	30.0
cis-1,3-Dichloropropene	Ave	0.5315	0.4570	0.2000	17.2	20.0	-14.0	30.0
4-Methyl-2-pentanone (MIBK)	Ave	2.858	2.361	0.0500	82.6	100	-17.4	30.0
Toluene	Ave	1.391	1.152	0.4000	16.6	20.0	-17.1	30.0
trans-1,3-Dichloropropene	Ave	0.4819	0.4269	0.1000	17.7	20.0	-11.4	30.0
Ethyl methacrylate	Ave	0.3313	0.3135		18.9	20.0	-5.4	30.0
1,1,2-Trichloroethane	Ave	0.2359	0.2111	0.1000	17.9	20.0	-10.5	30.0
Tetrachloroethene	Ave	0.3772	0.3421	0.2000	18.1	20.0	-9.3	30.0
1,3-Dichloropropane	Ave	0.4868	0.4212		17.3	20.0	-13.5	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab Sample ID: ICV 460-845946/17 Calibration Date: 05/22/2022 14:28

Instrument ID: CVOAMS12 Calib Start Date: 05/22/2022 08:51

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/22/2022 11:15

Lab File ID: O76999.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
2-Hexanone	Qua2		1.544	0.0500	92.3	100	-7.7	30.0
Chlorodibromomethane	Ave	0.3718	0.3267	0.1000	17.6	20.0	-12.1	30.0
Ethylene Dibromide	Ave	0.3152	0.2700	0.1000	17.1	20.0	-14.3	30.0
n-Butyl acetate	Qua2		0.3199		19.6	20.0	-1.9	30.0
Chlorobenzene	Ave	0.9685	0.8193	0.5000	16.9	20.0	-15.4	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3787	0.3217		17.0	20.0	-15.0	30.0
Ethylbenzene	Ave	0.4751	0.4188	0.1000	17.6	20.0	-11.8	30.0
m-Xylene & p-Xylene	Ave	0.6003	0.5112	0.1000	17.0	20.0	-14.8	30.0
o-Xylene	Ave	0.5908	0.5097	0.3000	17.3	20.0	-13.7	30.0
Styrene	Ave	1.011	0.8522	0.3000	16.9	20.0	-15.7	30.0
n-Butyl acrylate	Ave	0.1942	0.1700		17.5	20.0	-12.4	30.0
Bromoform	Ave	0.2781	0.2334	0.1000	16.8	20.0	-16.1	30.0
Amyl acetate (mixed isomers)	Ave	0.6437	0.5918		18.4	20.0	-8.1	30.0
Isopropylbenzene	Ave	1.300	1.109	0.1000	17.1	20.0	-14.6	30.0
Bromobenzene	Ave	0.7373	0.6254		17.0	20.0	-15.2	30.0
1,1,2,2-Tetrachloroethane	Qua2		0.4882	0.3000	18.2	20.0	-9.0	30.0
1,2,3-Trichloropropane	QuaF		0.3824		19.9	20.0	-0.7	30.0
trans-1,4-Dichloro-2-butene	Ave	0.2225	0.1942		17.5	20.0	-12.7	30.0
N-Propylbenzene	Ave	2.055	1.781		17.3	20.0	-13.3	30.0
2-Chlorotoluene	Qua2		1.261		16.9	20.0	-15.4	30.0
4-Ethyltoluene	Ave	1.896	1.660		17.5	20.0	-12.4	30.0
4-Chlorotoluene	Ave	1.518	1.442		19.0	20.0	-5.0	30.0
1,3,5-Trimethylbenzene	Ave	1.532	1.306		17.1	20.0	-14.7	30.0
Butyl Methacrylate	Ave	0.5996	0.5388		18.0	20.0	-10.1	30.0
tert-Butylbenzene	Ave	1.400	1.193		17.0	20.0	-14.8	30.0
1,2,4-Trimethylbenzene	Ave	1.564	1.316		16.8	20.0	-15.9	30.0
sec-Butylbenzene	Ave	1.807	1.534		17.0	20.0	-15.1	30.0
1,3-Dichlorobenzene	Ave	1.208	1.031	0.6000	17.1	20.0	-14.6	30.0
1,4-Dichlorobenzene	Ave	1.298	1.117	0.5000	17.2	20.0	-14.0	30.0
4-Isopropyltoluene	Ave	1.583	1.365		17.3	20.0	-13.7	30.0
1,2,3-Trimethylbenzene	Ave	1.666	1.424		17.1	20.0	-14.5	30.0
Benzyl chloride	Ave	0.2524	0.2392		19.0	20.0	-5.2	30.0
Indan	Ave	2.029	1.777		17.5	20.0	-12.4	30.0
1,2-Dichlorobenzene	Ave	1.214	1.095	0.4000	18.1	20.0	-9.7	30.0
p-Diethylbenzene	Ave	0.7841	0.7862		20.1	20.0	0.3	30.0
n-Butylbenzene	Ave	0.6531	0.5646		17.3	20.0	-13.5	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.1527	0.1369	0.0500	17.9	20.0	-10.4	30.0
1,2,4,5-Tetramethylbenzene	Ave	0.9365	0.7766		16.6	20.0	-17.1	30.0
1,3,5-Trichlorobenzene	Ave	0.6213	0.5576		18.0	20.0	-10.2	30.0
1,2,4-Trichlorobenzene	Ave	0.5517	0.4878	0.2000	17.7	20.0	-11.6	30.0
Hexachlorobutadiene	Ave	0.3475	0.3338		19.2	20.0	-4.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab Sample ID: ICV 460-845946/17 Calibration Date: 05/22/2022 14:28

Instrument ID: CVOAMS12 Calib Start Date: 05/22/2022 08:51

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/22/2022 11:15

Lab File ID: O76999.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
Naphthalene	Ave	1.080	0.9192		17.0	20.0	-14.9	30.0
1,2,3-Trichlorobenzene	Ave	0.4780	0.4182		17.5	20.0	-12.5	30.0
Dibromofluoromethane (Surr)	Ave	0.2694	0.2756		51.1	50.0	2.3	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2772	0.2906		52.4	50.0	4.8	30.0
Toluene-d8 (Surr)	Ave	1.229	1.192		48.5	50.0	-3.0	30.0
4-Bromofluorobenzene	Ave	0.4771	0.4638		48.6	50.0	-2.8	30.0

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\O76999.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 22-May-2022 14:28:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 460-0145591-017
Operator ID: Instrument ID: CVOAMS12
Sublist:

Method: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\8260W_12.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 23-May-2022 17:16:56 Calib Date: 22-May-2022 11:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\O76991.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: boykink Date: 22-May-2022 14:53:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116	0.879	0.879	-0.001	84	16245	20.0	11.9	
3 Dichlorodifluoromethane	85	0.890	0.890	0.000	98	82796	20.0	20.6	
5 Chlorodifluoromethane	67	0.901	0.902	-0.001	98	11198	20.0	17.7	
6 Chloromethane	50	1.004	1.004	0.000	99	75936	20.0	20.4	
7 Vinyl chloride	62	1.050	1.050	0.000	98	77948	20.0	20.2	
8 Butadiene	54	1.073	1.073	0.000	97	64831	20.0	19.1	
9 Bromomethane	94	1.232	1.233	-0.001	98	63828	20.0	21.7	
10 Chloroethane	64	1.290	1.290	0.000	100	46506	20.0	19.9	
11 Dichlorofluoromethane	67	1.392	1.392	0.000	98	116301	20.0	21.3	
12 Trichlorofluoromethane	101	1.427	1.427	-0.001	98	116671	20.0	21.5	
13 Pentane	57	1.472	1.472	0.000	96	25995	40.0	45.6	
14 Ethanol	46	1.541	1.529	0.012	96	9935	800.0	791.4	
15 Ethyl ether	59	1.598	1.598	0.000	95	40368	20.0	19.7	
16 1,2-Dichloro-1,1,2-trifluoroetha	117	1.598	1.598	0.000	86	52354	20.0	18.9	
17 2-Methyl-1,3-butadiene	53	1.609	1.609	0.000	95	52716	20.0	19.8	
18 1,1,1-Trifluoro-2,2-dichloroetha	83	1.632	1.632	0.000	95	67949	20.0	19.4	
19 Acrolein	56	1.666	1.666	0.000	95	9189	40.1	42.7	
20 1,1-Dichloroethene	96	1.735	1.724	0.011	98	54126	20.0	19.1	
21 112TCTFE	101	1.735	1.735	0.000	95	54827	20.0	20.3	
22 Acetone	58	1.758	1.758	0.000	86	13738	100.0	72.6	
23 Iodomethane	142	1.826	1.826	0.000	99	87182	20.0	16.4	
24 Isopropyl alcohol	45	1.849	1.849	0.000	65	21682	200.0	170.6	
25 Carbon disulfide	76	1.860	1.861	-0.001	100	176624	20.0	18.4	
26 Acetonitrile	38	1.952	1.952	0.000	74	20732	200.0	147.5	
27 3-Chloro-1-propene	76	1.952	1.952	0.000	89	38213	20.0	20.8	
28 Methyl acetate	43	1.963	1.963	0.000	97	39240	40.0	29.7	
29 Cyclopentene	67	2.009	2.009	0.000	96	121571	20.0	18.7	
30 Methylene Chloride	84	2.032	2.032	0.000	89	61631	20.0	18.4	
* 31 TBA-d9 (IS)	65	2.054	2.043	0.011	99	201723	1000.0	1000.0	
32 2-Methyl-2-propanol	59	2.100	2.100	0.000	98	37634	200.0	206.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Acrylonitrile	53	2.191	2.180	0.011	94	143747	200.0	217.9	
34 trans-1,2-Dichloroethene	96	2.214	2.214	0.000	90	57324	20.0	18.3	
35 Methyl tert-butyl ether	73	2.214	2.214	0.000	97	171323	20.0	19.2	
36 Hexane	57	2.420	2.420	0.000	90	47038	20.0	18.6	
37 1,1-Dichloroethane	63	2.500	2.500	0.000	100	92946	20.0	17.6	
38 Vinyl acetate	86	2.557	2.546	0.011	99	23490	40.0	29.9	
39 Isopropyl ether	45	2.568	2.568	0.000	83	172859	20.0	18.1	
40 2-Chloro-1,3-butadiene	88	2.580	2.580	0.000	92	59050	20.0	18.3	
41 Tert-butyl ethyl ether	59	2.842	2.842	0.000	90	182309	20.0	18.5	
* 43 2-Butanone-d5	46	2.911	2.911	0.000	99	238338	250.0	250.0	
44 2,2-Dichloropropane	97	2.945	2.945	0.000	89	21776	20.0	20.3	
45 cis-1,2-Dichloroethene	96	2.945	2.945	0.000	95	61315	20.0	17.9	
46 2-Butanone (MEK)	72	2.968	2.957	0.011	99	28133	100.0	89.6	
42 Propionitrile	54	3.002	3.002	0.000	97	51533	200.0	166.2	
47 Ethyl acetate	70	3.025	3.025	0.000	100	11636	40.0	35.7	
48 Methyl acrylate	55	3.059	3.048	0.011	99	47134	20.0	22.5	
50 Methacrylonitrile	67	3.128	3.128	0.000	91	190729	200.0	201.5	
49 Chlorobromomethane	128	3.139	3.139	0.000	83	34854	20.0	18.2	
51 Tetrahydrofuran	42	3.185	3.185	0.000	87	19069	40.0	29.5	
52 Chloroform	83	3.208	3.208	0.000	99	98854	20.0	18.2	
$ 53 Dibromofluoromethane (Surr)	113	3.345	3.345	0.000	98	162628	50.0	51.1	
54 1,1,1-Trichloroethane	97	3.367	3.368	-0.001	98	99239	20.0	18.2	
55 Cyclohexane	84	3.413	3.413	0.000	89	73495	20.0	19.3	
56 Carbon tetrachloride	117	3.516	3.516	0.000	94	89345	20.0	17.9	
57 1,1-Dichloropropene	75	3.516	3.516	0.000	93	80418	20.0	18.3	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	3.641	3.642	-0.001	0	171493	50.0	52.4	
61 Isobutyl alcohol	43	3.664	3.653	0.011	97	40034	500.0	418.0	a
59 Benzene	78	3.698	3.699	-0.001	96	231494	20.0	17.1	
60 1,2-Dichloroethane	62	3.710	3.710	0.000	97	77913	20.0	18.7	
63 Isopropyl acetate	61	3.801	3.801	0.000	97	19564	20.0	19.8	
62 Isooctane	57	3.801	3.801	0.000	95	96585	20.0	17.2	
64 Tert-amyl methyl ether	73	3.824	3.824	0.000	98	175506	20.0	18.8	
* 65 Fluorobenzene	96	3.972	3.966	0.006	99	590190	50.0	50.0	
66 n-Heptane	43	3.995	3.996	-0.001	89	36532	20.0	16.5	
67 Trichloroethene	95	4.338	4.338	0.000	95	64902	20.0	18.8	
68 n-Butanol	56	4.361	4.338	0.023	88	20110	500.0	361.7	
69 Ethyl acrylate	55	4.498	4.486	0.012	98	62682	20.0	19.8	
70 Methylcyclohexane	83	4.543	4.532	0.011	88	64166	20.0	18.5	
71 1,2-Dichloropropane	63	4.555	4.555	0.000	88	57946	20.0	18.0	
* 72 1,4-Dioxane-d8	96	4.669	4.669	0.000	0	37092	1000.0	1000.0	
73 Dibromomethane	93	4.680	4.681	-0.001	90	34599	20.0	18.5	
74 1,4-Dioxane	88	4.726	4.726	0.000	29	14075	400.0	398.7	
75 Methyl methacrylate	100	4.737	4.738	-0.001	84	34443	40.0	43.2	
76 n-Propyl acetate	43	4.829	4.818	0.011	99	70406	20.0	20.5	
77 Dichlorobromomethane	83	4.874	4.875	-0.001	99	80729	20.0	18.0	
78 2-Nitropropane	41	5.137	5.126	0.011	99	27628	40.0	34.2	
79 2-Chloroethyl vinyl ether	63	5.263	5.263	0.000	95	30667	20.0	17.3	
80 Epichlorohydrin	57	5.320	5.297	0.023	1	5890	20.0	23.2	
81 cis-1,3-Dichloropropene	75	5.400	5.400	0.000	94	96377	20.0	17.2	
82 4-Methyl-2-pentanone (MIBK)	43	5.617	5.617	0.000	97	225080	100.0	82.6	
$ 83 Toluene-d8 (Surr)	98	5.719	5.719	0.000	100	628564	50.0	48.5	
84 Toluene	91	5.799	5.799	0.000	94	243070	20.0	16.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 trans-1,3-Dichloropropene	75	6.107	6.108	-0.001	98	90031	20.0	17.7	
86 Ethyl methacrylate	69	6.290	6.290	0.000	88	66118	20.0	18.9	a
87 1,1,2-Trichloroethane	83	6.336	6.325	0.011	93	44523	20.0	17.9	
88 Tetrachloroethene	166	6.496	6.496	0.000	96	72153	20.0	18.1	
89 1,3-Dichloropropane	76	6.541	6.541	0.000	93	88845	20.0	17.3	
90 2-Hexanone	43	6.724	6.724	0.000	96	147235	100.0	92.3	
91 Chlorodibromomethane	129	6.838	6.838	0.000	98	68895	20.0	17.6	
93 Ethylene Dibromide	107	6.964	6.952	0.012	100	56949	20.0	17.1	
92 n-Butyl acetate	43	6.964	6.952	0.012	98	67475	20.0	19.6	
* 94 Chlorobenzene-d5	117	7.649	7.649	0.000	84	527277	50.0	50.0	
95 Chlorobenzene	112	7.683	7.683	0.000	97	172792	20.0	16.9	
96 1,1,1,2-Tetrachloroethane	131	7.831	7.820	0.011	93	67851	20.0	17.0	
97 Ethylbenzene	106	7.900	7.889	0.011	97	88334	20.0	17.6	
98 m-Xylene & p-Xylene	106	8.083	8.083	0.000	99	107820	20.0	17.0	
99 o-Xylene	106	8.665	8.665	0.000	95	107495	20.0	17.3	
100 Styrene	104	8.699	8.699	0.000	97	179735	20.0	16.9	
101 n-Butyl acrylate	73	8.756	8.756	0.000	97	35865	20.0	17.5	
102 Bromoform	173	8.916	8.916	0.000	98	49224	20.0	16.8	
103 Amyl acetate (mixed isomers)	43	9.156	9.145	0.011	91	80967	20.0	18.4	
104 Isopropylbenzene	105	9.270	9.270	0.000	95	233999	20.0	17.1	
$ 105 4-Bromofluorobenzene	174	9.475	9.476	-0.001	96	244570	50.0	48.6	
106 Bromobenzene	156	9.658	9.658	0.000	86	85575	20.0	17.0	
107 1,1,2,2-Tetrachloroethane	83	9.772	9.772	0.000	96	66797	20.0	18.2	
108 1,2,3-Trichloropropane	75	9.795	9.795	0.000	95	52322	20.0	19.9	
109 trans-1,4-Dichloro-2-butene	75	9.875	9.875	0.000	91	26570	20.0	17.5	
110 N-Propylbenzene	91	9.944	9.932	0.012	100	243744	20.0	17.3	
111 2-Chlorotoluene	91	10.012	10.012	0.000	96	172499	20.0	16.9	
112 4-Ethyltoluene	105	10.138	10.138	0.000	99	227178	20.0	17.5	
113 4-Chlorotoluene	91	10.206	10.195	0.011	95	197281	20.0	19.0	
114 1,3,5-Trimethylbenzene	105	10.263	10.252	0.011	94	178720	20.0	17.1	
115 Butyl Methacrylate	87	10.537	10.537	0.000	92	73720	20.0	18.0	
116 tert-Butylbenzene	119	10.766	10.766	0.000	96	163284	20.0	17.0	
117 1,2,4-Trimethylbenzene	105	10.857	10.857	0.000	96	180022	20.0	16.8	
118 sec-Butylbenzene	105	11.131	11.131	0.000	99	209845	20.0	17.0	
119 1,3-Dichlorobenzene	146	11.222	11.222	0.000	98	141102	20.0	17.1	
* 120 1,4-Dichlorobenzene-d4	152	11.325	11.314	0.011	93	342054	50.0	50.0	
121 1,4-Dichlorobenzene	146	11.348	11.348	0.000	96	152772	20.0	17.2	
122 4-Isopropyltoluene	119	11.371	11.371	0.000	98	186794	20.0	17.3	
123 1,2,3-Trimethylbenzene	105	11.451	11.451	0.000	97	194883	20.0	17.1	
124 Benzyl chloride	126	11.542	11.542	0.000	99	32727	20.0	19.0	
125 2,3-Dihydroindene	117	11.645	11.645	0.000	94	243102	20.0	17.5	
126 1,2-Dichlorobenzene	146	11.759	11.759	0.000	98	149879	20.0	18.1	
127 p-Diethylbenzene	119	11.804	11.805	-0.001	96	107573	20.0	20.1	
128 n-Butylbenzene	92	11.827	11.828	-0.001	98	77250	20.0	17.3	
129 1,2-Dibromo-3-Chloropropane	157	12.455	12.444	0.011	92	18726	20.0	17.9	
130 1,2,4,5-Tetramethylbenzene	119	12.467	12.467	0.000	99	106259	20.0	16.6	
131 1,3,5-Trichlorobenzene	180	12.615	12.604	0.011	96	76297	20.0	18.0	
132 1,2,4-Trichlorobenzene	180	13.015	13.015	0.000	93	66735	20.0	17.7	
133 Hexachlorobutadiene	225	13.140	13.129	0.011	97	45667	20.0	19.2	
134 Naphthalene	128	13.163	13.152	0.011	99	125760	20.0	17.0	
135 1,2,3-Trichlorobenzene	180	13.300	13.289	0.011	96	57214	20.0	17.5	
S 137 1,2-Dichloroethene, Total	100				0		40.0	36.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 138 Xylenes, Total	100				0		40.0	34.3	
S 139 Total BTEX	1				0		100.0	85.6	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN SP_00137	Amount Added:	4.00	Units: uL	
8FreonsSS_00045	Amount Added:	20.00	Units: uL	
GAS C SP_00462	Amount Added:	20.00	Units: uL	
8260 SP_00154	Amount Added:	20.00	Units: uL	
8260SURR250_00226	Amount Added:	1.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent

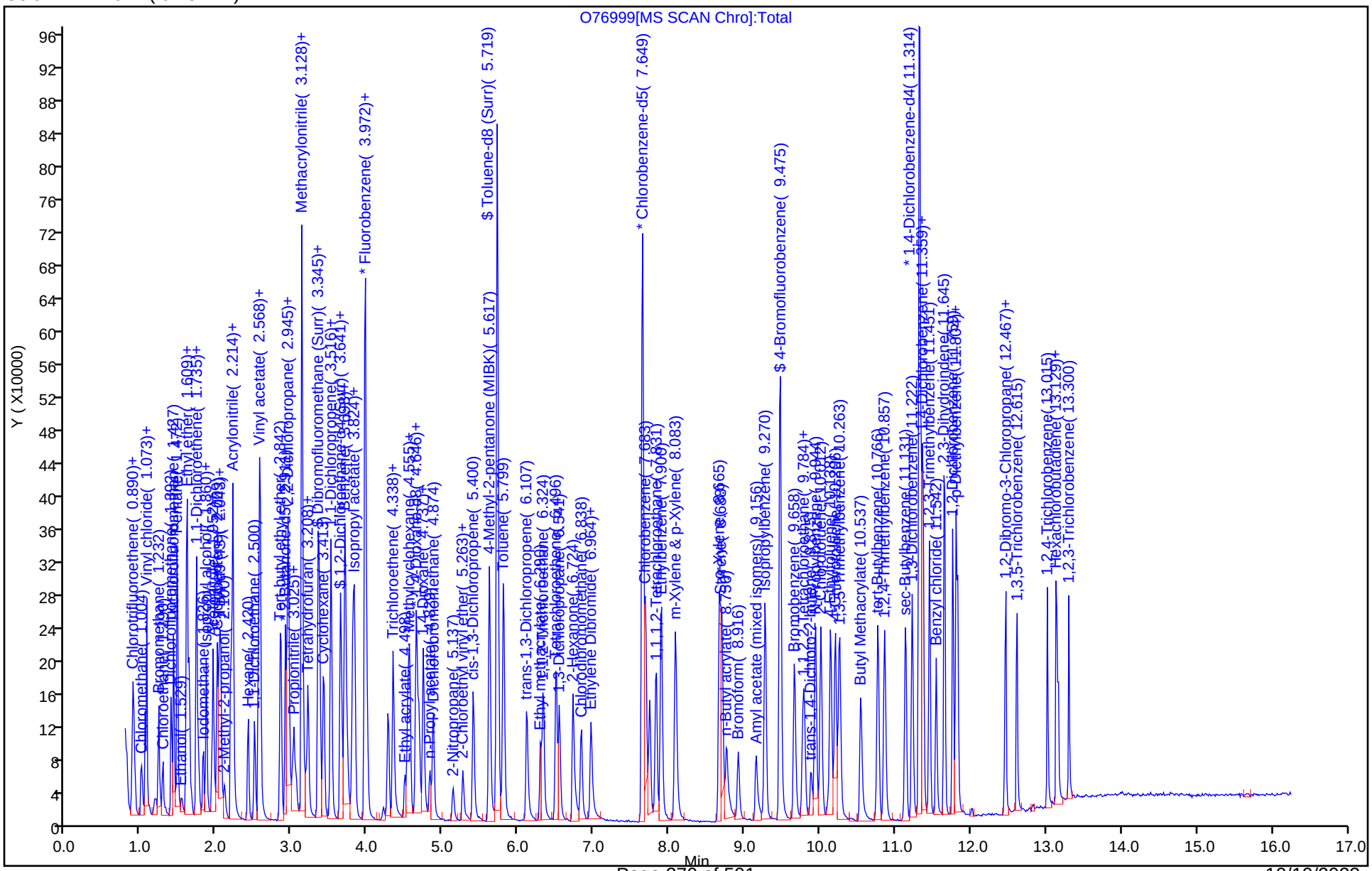
Report Date: 23-May-2022 17:16:59 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\O76999.d

Injection Date:	22-May-2022 14:28:30	Instrument ID:	CVOAMS12	Operator ID:	
Lims ID:	ICV			Worklist Smp#:	17
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8260W_12	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab Sample ID: CCVIS 460-846046/3 Calibration Date: 05/23/2022 05:55

Instrument ID: CVOAMS12 Calib Start Date: 05/22/2022 08:51

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/22/2022 11:15

Lab File ID: O77036.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
Chlorotrifluoroethene	Ave	1.429	1.542		21.6	20.0	7.9	20.0
Dichlorodifluoromethane	Ave	0.3410	0.4021	0.1000	23.6	20.0	17.9	20.0
Chlorodifluoromethane	Ave	0.0535	0.0527		19.7	20.0	-1.6	20.0
Chloromethane	Ave	0.3151	0.3196	0.1000	20.3	20.0	1.4	20.0
Vinyl chloride	Ave	0.3273	0.3472	0.1000	21.2	20.0	6.1	20.0
Butadiene	Ave	0.2872	0.3009		21.0	20.0	4.8	20.0
Bromomethane	Ave	0.2493	0.2870	0.1000	23.0	20.0	15.1	50.0
Chloroethane	Ave	0.1976	0.2190	0.1000	22.2	20.0	10.8	50.0
Dichlorofluoromethane	Ave	0.4616	0.5401		23.4	20.0	17.0	20.0
Trichlorofluoromethane	Ave	0.4592	0.5466	0.1000	23.8	20.0	19.0	20.0
Pentane	Qua2		0.0530		43.8	40.0	9.6	20.0
Ethanol	Ave	0.0622	0.0800		1030	800	28.6	50.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.2341	0.2246		19.2	20.0	-4.1	20.0
Ethyl ether	Ave	0.1735	0.1690		19.5	20.0	-2.6	20.0
2-Methyl-1,3-butadiene	Ave	0.2252	0.2242		19.9	20.0	-0.5	20.0
1,1,1-Trifluoro-2,2-dichloro ethane	Ave	0.2969	0.2809		18.9	20.0	-5.4	20.0
Acrolein	Qua2		1.118		41.9	40.0	4.7	50.0
1,1-Dichloroethene	Ave	0.2395	0.2346	0.1000	19.6	20.0	-2.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2283	0.2385	0.1000	20.9	20.0	4.5	20.0
Acetone	Ave	0.1985	0.2076	0.0500	105	100	4.6	50.0
Iodomethane	Ave	0.4514	0.4932		21.9	20.0	9.3	20.0
Isopropyl alcohol	Ave	0.6302	0.7291		231	200	15.7	50.0
Carbon disulfide	Ave	0.8128	0.7992	0.1000	19.7	20.0	-1.7	50.0
3-Chloro-1-propene	Ave	0.1559	0.1603		20.6	20.0	2.8	20.0
Acetonitrile	Ave	0.6967	0.7411		213	200	6.4	20.0
Methyl acetate	Ave	6.550	6.368	0.1000	38.9	40.0	-2.8	20.0
Cyclopentene	Ave	0.5520	0.5247		19.0	20.0	-4.9	20.0
Methylene Chloride	Ave	0.2837	0.2817	0.1000	19.9	20.0	-0.7	20.0
2-Methyl-2-propanol	QuaF		1.190		263	200	31.3	50.0
Acrylonitrile	Qua2		0.0569		203	200	1.7	20.0
Methyl tert-butyl ether	Ave	0.7565	0.7355	0.1000	19.4	20.0	-2.8	20.0
trans-1,2-Dichloroethene	Ave	0.2652	0.2593	0.1000	19.6	20.0	-2.2	20.0
Hexane	Ave	0.2145	0.2311		21.6	20.0	7.8	20.0
1,1-Dichloroethane	Ave	0.4477	0.4136	0.2000	18.5	20.0	-7.6	20.0
Vinyl acetate	Ave	0.8245	1.008		48.9	40.0	22.3*	20.0
Isopropyl ether	Ave	0.8098	0.7756		19.2	20.0	-4.2	20.0
2-Chloro-1,3-butadiene	Ave	0.2728	0.2776		20.4	20.0	1.8	20.0
Tert-butyl ethyl ether	Ave	0.8360	0.7971		19.1	20.0	-4.6	20.0
2,2-Dichloropropane	Lin2		0.1060		23.4	20.0	17.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab Sample ID: CCVIS 460-846046/3 Calibration Date: 05/23/2022 05:55

Instrument ID: CVOAMS12 Calib Start Date: 05/22/2022 08:51

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/22/2022 11:15

Lab File ID: O77036.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
cis-1,2-Dichloroethene	Ave	0.2900	0.2742	0.1000	18.9	20.0	-5.4	20.0
2-Butanone (MEK)	Ave	0.3293	0.3954	0.0500	120	100	20.1	50.0
Propionitrile	Ave	1.537	1.779		232	200	15.8	20.0
Ethyl acetate	Ave	0.3414	0.4076		47.8	40.0	19.4	20.0
Methyl acrylate	Ave	0.1778	0.1874		21.1	20.0	5.4	20.0
Methacrylonitrile	Ave	0.0802	0.0802		200	200	0.0	20.0
Chlorobromomethane	Ave	0.1625	0.1582		19.5	20.0	-2.7	20.0
Tetrahydrofuran	Ave	0.6786	0.6704		39.5	40.0	-1.2	20.0
Chloroform	Ave	0.4595	0.4414	0.2000	19.2	20.0	-3.9	20.0
1,1,1-Trichloroethane	Ave	0.4627	0.4864	0.1000	21.0	20.0	5.1	20.0
Cyclohexane	Ave	0.3219	0.3568	0.1000	22.2	20.0	10.8	50.0
1,1-Dichloropropene	Ave	0.3718	0.3842		20.7	20.0	3.3	20.0
Carbon tetrachloride	Ave	0.4236	0.4365	0.1000	20.6	20.0	3.1	20.0
Isobutyl alcohol	Ave	0.4748	0.5242		552	500	10.4	50.0
Benzene	Ave	1.284	1.310	0.5000	20.4	20.0	2.0	20.0
1,2-Dichloroethane	Ave	0.3529	0.3431	0.1000	19.4	20.0	-2.8	20.0
Isooctane	Ave	0.4763	0.6121		25.7	20.0	28.5*	20.0
Isopropyl acetate	Ave	0.0836	0.0768		18.4	20.0	-8.1	20.0
Tert-amyl methyl ether	Ave	0.7891	0.7748		19.6	20.0	-1.8	20.0
n-Heptane	Ave	0.1873	0.2156		23.0	20.0	15.1	20.0
Trichloroethene	Ave	0.2929	0.3075	0.2000	21.0	20.0	5.0	20.0
n-Butanol	Ave	0.2757	0.2207		400	500	-19.9	50.0
Ethyl acrylate	Ave	0.2682	0.2101		15.7	20.0	-21.7*	20.0
Methylcyclohexane	Ave	0.2944	0.3257	0.1000	22.1	20.0	10.6	50.0
1,2-Dichloropropane	Ave	0.2724	0.2662	0.1000	19.5	20.0	-2.3	20.0
Dibromomethane	Ave	0.1581	0.1547		19.6	20.0	-2.1	20.0
1,4-Dioxane	QuaF		1.191		501	400	25.2	50.0
Methyl methacrylate	Ave	0.0676	0.0699		41.4	40.0	3.4	20.0
n-Propyl acetate	Ave	0.2909	0.2733		18.8	20.0	-6.0	20.0
Dichlorobromomethane	Ave	0.3790	0.3856	0.2000	20.3	20.0	1.7	20.0
2-Nitropropane	Ave	0.0684	0.0570		33.3	40.0	-16.7	20.0
2-Chloroethyl vinyl ether	Ave	0.1503	0.1462		19.5	20.0	-2.8	20.0
Epichlorohydrin	Ave	0.2663	0.3131		470	400	17.5	20.0
cis-1,3-Dichloropropene	Ave	0.5315	0.5571	0.2000	21.0	20.0	4.8	50.0
4-Methyl-2-pentanone (MIBK)	Ave	2.858	3.102	0.0500	109	100	8.5	50.0
Toluene	Ave	1.391	1.450	0.4000	20.9	20.0	4.3	20.0
trans-1,3-Dichloropropene	Ave	0.4819	0.5193	0.1000	21.6	20.0	7.8	50.0
Ethyl methacrylate	Ave	0.3313	0.3520		21.3	20.0	6.3	20.0
1,1,2-Trichloroethane	Ave	0.2359	0.2407	0.1000	20.4	20.0	2.0	20.0
Tetrachloroethene	Ave	0.3772	0.4277	0.2000	22.7	20.0	13.4	20.0
1,3-Dichloropropane	Ave	0.4868	0.5084		20.9	20.0	4.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab Sample ID: CCVIS 460-846046/3 Calibration Date: 05/23/2022 05:55

Instrument ID: CVOAMS12 Calib Start Date: 05/22/2022 08:51

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/22/2022 11:15

Lab File ID: O77036.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
2-Hexanone	Qua2		2.024	0.0500	120	100	19.9	50.0
Chlorodibromomethane	Ave	0.3718	0.3745	0.1000	20.1	20.0	0.7	50.0
Ethylene Dibromide	Ave	0.3152	0.3193	0.1000	20.3	20.0	1.3	20.0
n-Butyl acetate	Qua2		0.3123		19.2	20.0	-4.1	20.0
Chlorobenzene	Ave	0.9685	1.028	0.5000	21.2	20.0	6.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3787	0.3923		20.7	20.0	3.6	20.0
Ethylbenzene	Ave	0.4751	0.5110	0.1000	21.5	20.0	7.5	20.0
m-Xylene & p-Xylene	Ave	0.6003	0.6273	0.1000	20.9	20.0	4.5	20.0
o-Xylene	Ave	0.5908	0.6347	0.3000	21.5	20.0	7.4	20.0
Styrene	Ave	1.011	1.096	0.3000	21.7	20.0	8.4	20.0
n-Butyl acrylate	Ave	0.1942	0.1794		18.5	20.0	-7.6	20.0
Bromoform	Ave	0.2781	0.2671	0.1000	19.2	20.0	-3.9	20.0
Amyl acetate (mixed isomers)	Ave	0.6437	0.5853		18.2	20.0	-9.1	20.0
Isopropylbenzene	Ave	1.300	1.410	0.1000	21.7	20.0	8.5	20.0
Bromobenzene	Ave	0.7373	0.7837		21.3	20.0	6.3	20.0
1,1,2,2-Tetrachloroethane	Qua2		0.5330	0.3000	19.9	20.0	-0.3	20.0
1,2,3-Trichloropropane	QuaF		0.4101		21.3	20.0	6.5	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2225	0.2182		19.6	20.0	-1.9	20.0
N-Propylbenzene	Ave	2.055	2.263		22.0	20.0	10.1	20.0
2-Chlorotoluene	Qua2		1.774		24.1	20.0	20.4*	20.0
4-Ethyltoluene	Ave	1.896	2.046		21.6	20.0	7.9	20.0
4-Chlorotoluene	Ave	1.518	1.795		23.6	20.0	18.2	20.0
1,3,5-Trimethylbenzene	Ave	1.532	1.647		21.5	20.0	7.5	20.0
Butyl Methacrylate	Ave	0.5996	0.5995		20.0	20.0	-0.0	20.0
tert-Butylbenzene	Ave	1.400	1.534		21.9	20.0	9.6	20.0
1,2,4-Trimethylbenzene	Ave	1.564	1.687		21.6	20.0	7.8	20.0
sec-Butylbenzene	Ave	1.807	2.023		22.4	20.0	12.0	20.0
1,3-Dichlorobenzene	Ave	1.208	1.324	0.6000	21.9	20.0	9.7	20.0
1,4-Dichlorobenzene	Ave	1.298	1.367	0.5000	21.1	20.0	5.3	20.0
4-Isopropyltoluene	Ave	1.583	1.796		22.7	20.0	13.5	20.0
1,2,3-Trimethylbenzene	Ave	1.666	1.818		21.8	20.0	9.1	20.0
Benzyl chloride	Ave	0.2524	0.2803		22.2	20.0	11.0	50.0
Indan	Ave	2.029	2.157		21.3	20.0	6.3	20.0
1,2-Dichlorobenzene	Ave	1.214	1.310	0.4000	21.6	20.0	7.9	20.0
p-Diethylbenzene	Ave	0.7841	0.8997		22.9	20.0	14.7	20.0
n-Butylbenzene	Ave	0.6531	0.7281		22.3	20.0	11.5	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1527	0.1512	0.0500	19.8	20.0	-1.0	50.0
1,2,4,5-Tetramethylbenzene	Ave	0.9365	1.070		22.9	20.0	14.3	20.0
1,3,5-Trichlorobenzene	Ave	0.6213	0.7416		23.9	20.0	19.4	20.0
1,2,4-Trichlorobenzene	Ave	0.5517	0.6454	0.2000	23.4	20.0	17.0	20.0
Hexachlorobutadiene	Ave	0.3475	0.4142		23.8	20.0	19.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab Sample ID: CCVIS 460-846046/3 Calibration Date: 05/23/2022 05:55

Instrument ID: CVOAMS12 Calib Start Date: 05/22/2022 08:51

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/22/2022 11:15

Lab File ID: O77036.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
Naphthalene	Ave	1.080	1.145		21.2	20.0	6.0	50.0
1,2,3-Trichlorobenzene	Ave	0.4780	0.5406		22.6	20.0	13.1	20.0
Dibromofluoromethane (Surr)	Ave	0.2694	0.2825		52.4	50.0	4.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2772	0.2980		53.8	50.0	7.5	20.0
Toluene-d8 (Surr)	Ave	1.229	1.374		55.9	50.0	11.8	20.0
4-Bromofluorobenzene	Ave	0.4771	0.5415		56.7	50.0	13.5	20.0

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220523-145613.b\O77036.d
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 23-May-2022 05:55:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0145613-003
Operator ID: Instrument ID: CVOAMS12
Sublist: chrom-8260W_12*sub26

Method: \\chromfs\Edison\ChromData\CVOAMS12\20220523-145613.b\8260W_12.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 23-May-2022 17:28:12 Calib Date: 22-May-2022 11:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\O76991.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1657

First Level Reviewer: delpolitov Date: 23-May-2022 17:28:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116	0.867	0.867	0.000	89	19312	20.0	21.6	
3 Dichlorodifluoromethane	85	0.890	0.890	0.000	98	87749	20.0	23.6	
5 Chlorodifluoromethane	67	0.901	0.901	0.000	97	11493	20.0	19.7	
6 Chloromethane	50	0.993	0.993	0.000	98	69743	20.0	20.3	
7 Vinyl chloride	62	1.050	1.050	0.000	98	75775	20.0	21.2	
8 Butadiene	54	1.073	1.073	0.000	96	65663	20.0	21.0	
9 Bromomethane	94	1.232	1.232	0.000	99	62631	20.0	23.0	
10 Chloroethane	64	1.278	1.278	0.000	99	47801	20.0	22.2	
11 Dichlorofluoromethane	67	1.392	1.392	0.000	98	117877	20.0	23.4	
12 Trichlorofluoromethane	101	1.427	1.427	0.000	98	119293	20.0	23.8	
13 Pentane	57	1.472	1.472	0.000	95	23152	40.0	43.8	
14 Ethanol	46	1.529	1.529	0.000	61	8215	800.0	1028.7	
15 Ethyl ether	59	1.598	1.598	0.000	93	36882	20.0	19.5	
16 1,2-Dichloro-1,1,2-trifluoroetha	117	1.598	1.598	0.000	86	49017	20.0	19.2	
17 2-Methyl-1,3-butadiene	53	1.609	1.609	0.000	96	48925	20.0	19.9	
18 1,1,1-Trifluoro-2,2-dichloroetha	83	1.632	1.632	0.000	93	61315	20.0	18.9	
19 Acrolein	56	1.666	1.666	0.000	92	5741	40.0	41.9	
20 1,1-Dichloroethene	96	1.723	1.723	0.000	97	51204	20.0	19.6	
21 112TCTFE	101	1.735	1.735	0.000	93	52057	20.0	20.9	
22 Acetone	58	1.758	1.758	0.000	87	13005	100.0	104.6	
23 Iodomethane	142	1.815	1.815	0.000	98	107629	20.0	21.9	
24 Isopropyl alcohol	45	1.849	1.849	0.000	26	18713	200.0	231.4	
25 Carbon disulfide	76	1.860	1.860	0.000	100	174431	20.0	19.7	
26 Acetonitrile	38	1.952	1.952	0.000	74	19021	200.0	212.8	
27 3-Chloro-1-propene	76	1.952	1.952	0.000	90	34982	20.0	20.6	
28 Methyl acetate	43	1.963	1.963	0.000	98	32688	40.0	38.9	
29 Cyclopentene	67	2.009	2.009	0.000	97	114514	20.0	19.0	
30 Methylene Chloride	84	2.032	2.032	0.000	86	61484	20.0	19.9	
* 31 TBA-d9 (IS)	65	2.043	2.043	0.000	99	128321	1000.0	1000.0	
32 2-Methyl-2-propanol	59	2.100	2.100	0.000	98	30533	200.0	262.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Acrylonitrile	53	2.180	2.180	0.000	94	124094	200.0	203.5	
34 trans-1,2-Dichloroethene	96	2.214	2.214	0.000	69	56584	20.0	19.6	
35 Methyl tert-butyl ether	73	2.214	2.214	0.000	96	160528	20.0	19.4	
36 Hexane	57	2.408	2.408	0.000	91	50446	20.0	21.6	
37 1,1-Dichloroethane	63	2.500	2.500	0.000	99	90271	20.0	18.5	
38 Vinyl acetate	86	2.545	2.545	0.000	99	25256	40.0	48.9	
39 Isopropyl ether	45	2.568	2.568	0.000	82	169281	20.0	19.2	
40 2-Chloro-1,3-butadiene	88	2.580	2.580	0.000	91	60594	20.0	20.4	
41 Tert-butyl ethyl ether	59	2.842	2.842	0.000	91	173974	20.0	19.1	
* 43 2-Butanone-d5	46	2.911	2.911	0.000	100	156599	250.0	250.0	
44 2,2-Dichloropropane	97	2.945	2.945	0.000	86	23128	20.0	23.4	
45 cis-1,2-Dichloroethene	96	2.945	2.945	0.000	95	59840	20.0	18.9	
46 2-Butanone (MEK)	72	2.956	2.956	0.000	98	24768	100.0	120.1	
42 Propionitrile	54	3.002	3.002	0.000	96	45668	200.0	231.6	
47 Ethyl acetate	70	3.025	3.025	0.000	100	10212	40.0	47.8	
48 Methyl acrylate	55	3.048	3.048	0.000	99	40906	20.0	21.1	
50 Methacrylonitrile	67	3.128	3.128	0.000	90	175011	200.0	200.0	
49 Chlorobromomethane	128	3.139	3.139	0.000	79	34525	20.0	19.5	
51 Tetrahydrofuran	42	3.185	3.185	0.000	88	16798	40.0	39.5	
52 Chloroform	83	3.208	3.208	0.000	99	96329	20.0	19.2	
$ 53 Dibromofluoromethane (Surr)	113	3.345	3.345	0.000	98	154135	50.0	52.4	
54 1,1,1-Trichloroethane	97	3.367	3.367	0.000	97	106152	20.0	21.0	
55 Cyclohexane	84	3.413	3.413	0.000	88	77861	20.0	22.2	
56 Carbon tetrachloride	117	3.516	3.516	0.000	97	95262	20.0	20.6	
57 1,1-Dichloropropene	75	3.516	3.516	0.000	93	83846	20.0	20.7	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	3.641	3.641	0.000	0	162587	50.0	53.8	
61 Isobutyl alcohol	43	3.664	3.664	0.000	96	33631	500.0	551.9	a
59 Benzene	78	3.699	3.699	0.000	95	238901	20.0	20.4	
60 1,2-Dichloroethane	62	3.710	3.710	0.000	97	74879	20.0	19.4	
63 Isopropyl acetate	61	3.801	3.801	0.000	95	16768	20.0	18.4	
62 Isooctane	57	3.801	3.801	0.000	95	133580	20.0	25.7	
64 Tert-amyl methyl ether	73	3.824	3.824	0.000	97	169089	20.0	19.6	
* 65 Fluorobenzene	96	3.961	3.961	0.000	99	545613	50.0	50.0	
66 n-Heptane	43	3.995	3.995	0.000	88	47051	20.0	23.0	
67 Trichloroethene	95	4.338	4.338	0.000	94	67110	20.0	21.0	
68 n-Butanol	56	4.372	4.372	0.000	75	14163	500.0	400.4	
69 Ethyl acrylate	55	4.498	4.498	0.000	94	45864	20.0	15.7	
70 Methylcyclohexane	83	4.532	4.532	0.000	94	71089	20.0	22.1	
71 1,2-Dichloropropane	63	4.555	4.555	0.000	89	58104	20.0	19.5	
* 72 1,4-Dioxane-d8	96	4.669	4.669	0.000	0	27829	1000.0	1000.0	
73 Dibromomethane	93	4.680	4.680	0.000	89	33769	20.0	19.6	
74 1,4-Dioxane	88	4.726	4.726	0.000	86	13260	400.0	501.0	
75 Methyl methacrylate	100	4.737	4.737	0.000	85	30501	40.0	41.4	
76 n-Propyl acetate	43	4.829	4.829	0.000	98	59654	20.0	18.8	
77 Dichlorobromomethane	83	4.874	4.874	0.000	99	84159	20.0	20.3	
78 2-Nitropropane	41	5.137	5.137	0.000	99	24870	40.0	33.3	
79 2-Chloroethyl vinyl ether	63	5.263	5.263	0.000	93	31974	20.0	19.5	
80 Epichlorohydrin	57	5.297	5.297	0.000	99	78438	400.0	470.2	
81 cis-1,3-Dichloropropene	75	5.400	5.400	0.000	93	101631	20.0	21.0	
82 4-Methyl-2-pentanone (MIBK)	43	5.617	5.617	0.000	96	194295	100.0	108.5	
$ 83 Toluene-d8 (Surr)	98	5.719	5.719	0.000	100	626562	50.0	55.9	
84 Toluene	91	5.799	5.799	0.000	93	264593	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
85 trans-1,3-Dichloropropene	75	6.108	6.108	0.000	98	94738	20.0	21.6	
86 Ethyl methacrylate	69	6.290	6.290	0.000	88	64223	20.0	21.3	a
87 1,1,2-Trichloroethane	83	6.324	6.324	0.000	94	43905	20.0	20.4	
88 Tetrachloroethene	166	6.496	6.496	0.000	96	78024	20.0	22.7	
89 1,3-Dichloropropane	76	6.541	6.541	0.000	92	92754	20.0	20.9	
90 2-Hexanone	43	6.724	6.724	0.000	96	126794	100.0	119.9	
91 Chlorodibromomethane	129	6.838	6.838	0.000	97	68315	20.0	20.1	
93 Ethylene Dibromide	107	6.964	6.964	0.000	99	58242	20.0	20.3	
92 n-Butyl acetate	43	6.964	6.964	0.000	98	56977	20.0	19.2	
* 94 Chlorobenzene-d5	117	7.649	7.649	0.000	83	456072	50.0	50.0	
95 Chlorobenzene	112	7.683	7.683	0.000	98	187493	20.0	21.2	
96 1,1,1,2-Tetrachloroethane	131	7.820	7.820	0.000	94	71559	20.0	20.7	
97 Ethylbenzene	106	7.889	7.889	0.000	97	93213	20.0	21.5	
98 m-Xylene & p-Xylene	106	8.083	8.083	0.000	99	114441	20.0	20.9	
99 o-Xylene	106	8.665	8.665	0.000	95	115787	20.0	21.5	
100 Styrene	104	8.699	8.699	0.000	97	199971	20.0	21.7	
101 n-Butyl acrylate	73	8.768	8.768	0.000	97	32731	20.0	18.5	
102 Bromoform	173	8.916	8.916	0.000	98	48731	20.0	19.2	
103 Amyl acetate (mixed isomers)	43	9.156	9.156	0.000	92	69528	20.0	18.2	
104 Isopropylbenzene	105	9.270	9.270	0.000	95	257176	20.0	21.7	
$ 105 4-Bromofluorobenzene	174	9.475	9.475	0.000	96	246973	50.0	56.7	
106 Bromobenzene	156	9.658	9.658	0.000	85	93108	20.0	21.3	
107 1,1,2,2-Tetrachloroethane	83	9.772	9.772	0.000	97	63316	20.0	19.9	
108 1,2,3-Trichloropropane	75	9.795	9.795	0.000	95	48723	20.0	21.3	
109 trans-1,4-Dichloro-2-butene	75	9.875	9.875	0.000	92	25928	20.0	19.6	
110 N-Propylbenzene	91	9.932	9.932	0.000	100	268810	20.0	22.0	
111 2-Chlorotoluene	91	10.012	10.012	0.000	96	210765	20.0	24.1	
112 4-Ethyltoluene	105	10.138	10.138	0.000	99	243044	20.0	21.6	
113 4-Chlorotoluene	91	10.206	10.206	0.000	94	213293	20.0	23.6	
114 1,3,5-Trimethylbenzene	105	10.263	10.263	0.000	94	195623	20.0	21.5	
115 Butyl Methacrylate	87	10.537	10.537	0.000	90	71223	20.0	20.0	
116 tert-Butylbenzene	119	10.766	10.766	0.000	97	182265	20.0	21.9	
117 1,2,4-Trimethylbenzene	105	10.857	10.857	0.000	96	200390	20.0	21.6	
118 sec-Butylbenzene	105	11.131	11.131	0.000	99	240337	20.0	22.4	
119 1,3-Dichlorobenzene	146	11.222	11.222	0.000	99	157351	20.0	21.9	
* 120 1,4-Dichlorobenzene-d4	152	11.314	11.314	0.000	93	297001	50.0	50.0	
121 1,4-Dichlorobenzene	146	11.348	11.348	0.000	97	162400	20.0	21.1	
122 4-Isopropyltoluene	119	11.371	11.371	0.000	98	213349	20.0	22.7	
123 1,2,3-Trimethylbenzene	105	11.451	11.451	0.000	97	215963	20.0	21.8	
124 Benzyl chloride	126	11.542	11.542	0.000	99	33295	20.0	22.2	
125 2,3-Dihydroindene	117	11.645	11.645	0.000	94	256286	20.0	21.3	
126 1,2-Dichlorobenzene	146	11.759	11.759	0.000	98	155641	20.0	21.6	
127 p-Diethylbenzene	119	11.805	11.805	0.000	94	106886	20.0	22.9	
128 n-Butylbenzene	92	11.827	11.827	0.000	97	86498	20.0	22.3	
129 1,2-Dibromo-3-Chloropropane	157	12.455	12.455	0.000	90	17959	20.0	19.8	
130 1,2,4,5-Tetramethylbenzene	119	12.467	12.467	0.000	98	127131	20.0	22.9	
131 1,3,5-Trichlorobenzene	180	12.615	12.615	0.000	98	88102	20.0	23.9	
132 1,2,4-Trichlorobenzene	180	13.015	13.015	0.000	93	76670	20.0	23.4	
133 Hexachlorobutadiene	225	13.129	13.129	0.000	98	49203	20.0	23.8	
134 Naphthalene	128	13.152	13.152	0.000	99	136062	20.0	21.2	
135 1,2,3-Trichlorobenzene	180	13.289	13.289	0.000	96	64218	20.0	22.6	
S 137 1,2-Dichloroethene, Total	100				0		40.0	38.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 138 Xylenes, Total	100				0		40.0	42.4	
S 139 Total BTEX	1				0		100.0	105.2	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260SURR250_00226	Amount Added:	1.00	Units: uL	
8260MIX1COMB_00154	Amount Added:	20.00	Units: uL	
ACROLEIN W_00140	Amount Added:	4.00	Units: uL	
GASES Li_00476	Amount Added:	20.00	Units: uL	
524freon_00052	Amount Added:	20.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 23-May-2022 17:28:13 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220523-145613.b\O77036.d

Injection Date: 23-May-2022 05:55:30 Instrument ID: CVOAMS12 Operator ID:

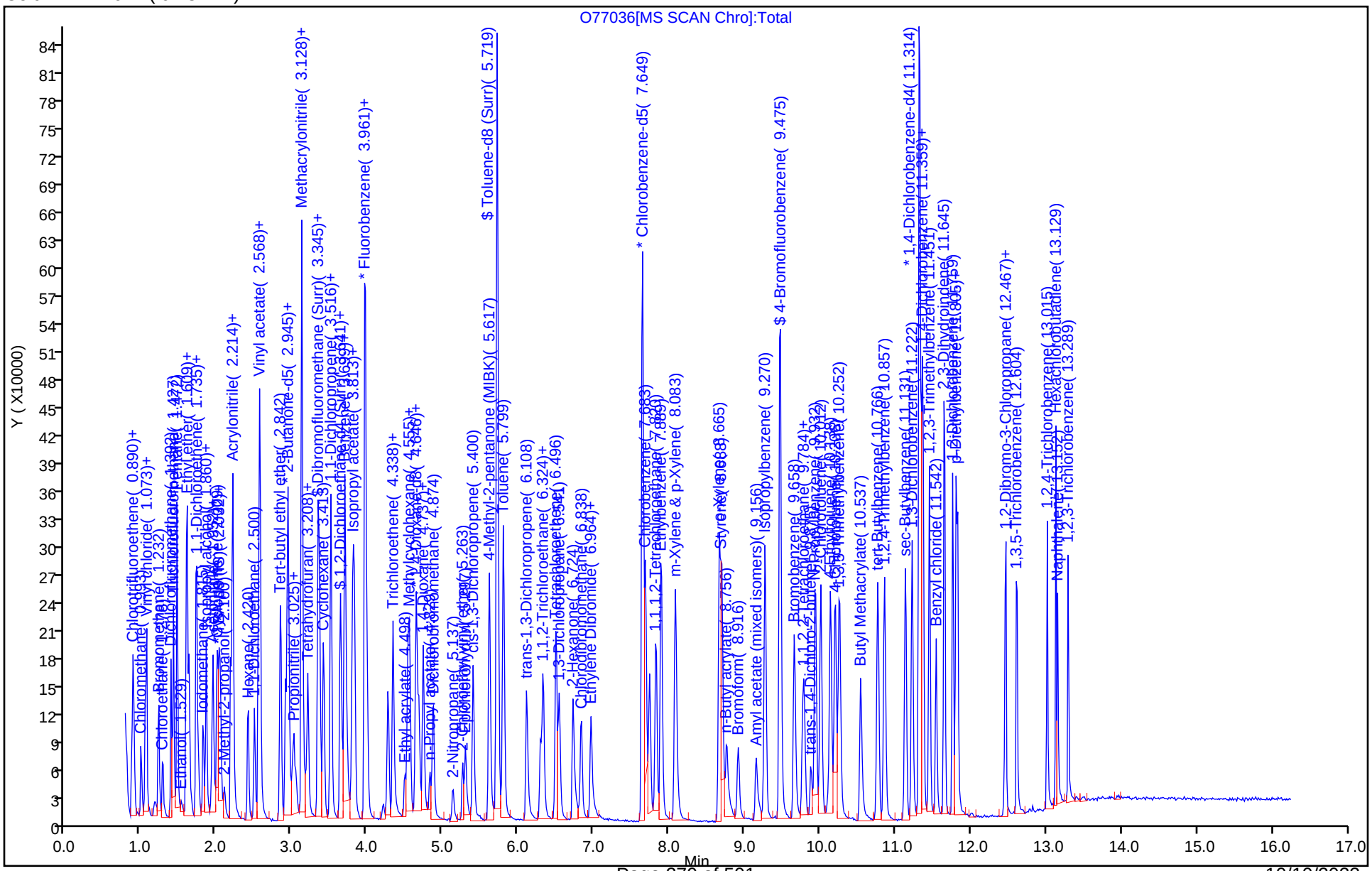
Lims ID: CCVIS Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8260W_12 Limit Group: VOA - 8260D Water and Solid

Column: DB-624 (0.18 mm)



10/10/2023
12:43 PM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab Sample ID: ICV 460-840582/13 Calibration Date: 04/22/2022 05:36

Instrument ID: CVOAMS7 Calib Start Date: 04/22/2022 01:49

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/22/2022 03:43

Lab File ID: V18077.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.6029	0.5666	0.1000	18.8	20.0	-6.0	30.0
Chlorodifluoromethane	Ave	0.0924	0.1001		21.7	20.0	8.4	30.0
Chloromethane	Ave	0.8519	0.7988	0.1000	18.8	20.0	-6.2	30.0
Vinyl chloride	Ave	0.7918	0.6882	0.1000	17.4	20.0	-13.1	30.0
Butadiene	Ave	0.7937	0.6449		16.2	20.0	-18.8	30.0
Bromomethane	QuaF		0.3696	0.1000	21.4	20.0	7.0	30.0
Chloroethane	Ave	0.4067	0.3618	0.1000	17.8	20.0	-11.1	30.0
Dichlorofluoromethane	Ave	0.9678	0.8405		17.4	20.0	-13.2	30.0
Trichlorofluoromethane	Ave	0.6326	0.6039	0.1000	19.1	20.0	-4.5	30.0
Pentane	Ave	0.1124	0.1323		47.1	40.0	17.7	30.0
Ethanol	Ave	0.0874	0.0907		830	800	3.7	30.0
Ethyl ether	Ave	0.5411	0.4866		18.0	20.0	-10.1	30.0
2-Methyl-1,3-butadiene	Ave	0.5813	0.6141		21.1	20.0	5.6	30.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.3713	0.3933		21.2	20.0	5.9	30.0
1,1,1-Trifluoro-2,2-dichloro ethane	Ave	0.7593	0.7727		20.4	20.0	1.8	30.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.4419	0.4798	0.1000	21.7	20.0	8.6	30.0
Acrolein	Ave	1.542	1.210		236	300	-21.6	30.0
1,1-Dichloroethene	Ave	0.4592	0.4876	0.1000	21.2	20.0	6.2	30.0
Acetone	Ave	1.532	1.290	0.0500	84.2	100	-15.8	30.0
Iodomethane	Lin2		0.4070		19.8	20.0	-1.2	30.0
Isopropyl alcohol	Ave	1.429	1.271		178	200	-11.1	30.0
Carbon disulfide	Ave	2.042	2.006	0.1000	19.6	20.0	-1.8	30.0
3-Chloro-1-propene	Ave	1.132	1.185		20.9	20.0	4.7	30.0
Methyl acetate	Ave	0.6632	0.5688	0.1000	34.3	40.0	-14.2	30.0
Acetonitrile	Ave	1.306	1.286		197	200	-1.6	30.0
Methylene Chloride	Ave	0.5968	0.5696	0.1000	19.1	20.0	-4.6	30.0
2-Methyl-2-propanol	Ave	2.081	1.908		183	200	-8.3	30.0
Methyl tert-butyl ether	Ave	1.717	1.644	0.1000	19.1	20.0	-4.3	30.0
trans-1,2-Dichloroethene	Ave	0.5709	0.5909	0.1000	20.7	20.0	3.5	30.0
Acrylonitrile	Ave	6.693	6.479		194	200	-3.2	30.0
Hexane	Ave	1.128	1.203		21.3	20.0	6.6	30.0
Isopropyl ether	Ave	2.399	2.123		17.7	20.0	-11.5	30.0
1,1-Dichloroethane	Ave	1.209	1.152	0.2000	19.1	20.0	-4.7	30.0
Vinyl acetate	Ave	0.6939	0.7350		42.4	40.0	5.9	30.0
2-Chloro-1,3-butadiene	Ave	0.5417	0.5292		19.5	20.0	-2.3	30.0
Tert-butyl ethyl ether	Ave	0.7297	0.6978		19.1	20.0	-4.4	30.0
2,2-Dichloropropane	Ave	0.2804	0.2563		18.3	20.0	-8.6	30.0
2-Butanone (MEK)	Ave	0.5584	0.5112	0.0500	91.6	100	-8.4	30.0
cis-1,2-Dichloroethene	Ave	0.6387	0.6121	0.1000	19.2	20.0	-4.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab Sample ID: ICV 460-840582/13 Calibration Date: 04/22/2022 05:36

Instrument ID: CVOAMS7 Calib Start Date: 04/22/2022 01:49

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/22/2022 03:43

Lab File ID: V18077.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethyl acetate	Ave	0.4990	0.4959		39.8	40.0	-0.6	30.0
Methyl acrylate	Ave	0.6426	0.6063		18.9	20.0	-5.7	30.0
Propionitrile	Ave	0.6995	0.6981		200	200	-0.2	30.0
Chlorobromomethane	Ave	0.2624	0.2580		19.7	20.0	-1.7	30.0
Tetrahydrofuran	Ave	0.6633	0.6046		36.5	40.0	-8.8	30.0
Methacrylonitrile	Ave	0.3283	0.3097		189	200	-5.7	30.0
Chloroform	Ave	0.9327	0.9349	0.2000	20.0	20.0	0.2	30.0
Cyclohexane	Ave	1.008	1.078	0.1000	21.4	20.0	7.0	30.0
1,1,1-Trichloroethane	Ave	0.7343	0.7227	0.1000	19.7	20.0	-1.6	30.0
Carbon tetrachloride	Ave	0.5535	0.5573	0.1000	20.1	20.0	0.7	30.0
1,1-Dichloropropene	Ave	0.8651	0.8564		19.8	20.0	-1.0	30.0
Isobutyl alcohol	Ave	0.6248	0.5796		464	500	-7.2	30.0
Benzene	Ave	3.617	3.502	0.5000	19.4	20.0	-3.2	30.0
Isopropyl acetate	Ave	2.362	2.077		17.6	20.0	-12.0	30.0
Tert-amyl methyl ether	Ave	2.029	1.824		18.0	20.0	-10.1	30.0
1,2-Dichloroethane	Ave	0.7103	0.6851	0.1000	19.3	20.0	-3.6	30.0
n-Heptane	Ave	1.389	1.378		19.9	20.0	-0.7	30.0
n-Butanol	Qua2		0.2346		472	500	-5.5	30.0
Trichloroethene	Ave	0.5728	0.5723	0.2000	20.0	20.0	-0.0	30.0
Ethyl acrylate	Ave	1.968	1.931		19.6	20.0	-1.9	30.0
Methylcyclohexane	Ave	1.185	1.262	0.1000	21.3	20.0	6.5	30.0
1,2-Dichloropropane	Ave	0.7371	0.7160	0.1000	19.4	20.0	-2.9	30.0
Methyl methacrylate	Ave	0.1695	0.1617		38.2	40.0	-4.6	30.0
1,4-Dioxane	Ave	2.459	2.181		355	400	-11.3	30.0
Dibromomethane	Ave	0.3492	0.3220		18.4	20.0	-7.8	30.0
n-Propyl acetate	Ave	1.184	1.115		18.8	20.0	-5.9	30.0
Dichlorobromomethane	Ave	0.7171	0.7157	0.2000	20.0	20.0	-0.2	30.0
2-Nitropropane	Ave	0.2056	0.1862		36.2	40.0	-9.4	30.0
2-Chloroethyl vinyl ether	Ave	0.4191	0.4071		19.4	20.0	-2.9	30.0
Epichlorohydrin	Ave	0.5121	0.4747		18.5	20.0	-7.3	30.0
cis-1,3-Dichloropropene	Ave	1.428	1.318	0.2000	18.5	20.0	-7.7	30.0
4-Methyl-2-pentanone (MIBK)	Ave	4.445	4.309	0.0500	96.9	100	-3.1	30.0
Toluene	Ave	3.642	3.459	0.4000	19.0	20.0	-5.0	30.0
trans-1,3-Dichloropropene	Ave	1.220	1.212	0.1000	19.9	20.0	-0.7	30.0
Ethyl methacrylate	Ave	0.8666	0.7826		18.1	20.0	-9.7	30.0
1,1,2-Trichloroethane	Ave	0.6595	0.6090	0.1000	18.5	20.0	-7.7	30.0
Tetrachloroethene	Ave	0.6383	0.6719	0.2000	21.1	20.0	5.3	30.0
1,3-Dichloropropane	Ave	1.370	1.257		18.4	20.0	-8.2	30.0
2-Hexanone	Ave	3.114	2.893	0.0500	92.9	100	-7.1	30.0
n-Butyl acetate	Ave	0.2558	0.2203		17.2	20.0	-13.9	30.0
Chlorodibromomethane	Ave	0.6043	0.5790	0.1000	19.2	20.0	-4.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab Sample ID: ICV 460-840582/13 Calibration Date: 04/22/2022 05:36

Instrument ID: CVOAMS7 Calib Start Date: 04/22/2022 01:49

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/22/2022 03:43

Lab File ID: V18077.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	Ave	0.6515	0.6376	0.1000	19.6	20.0	-2.1	30.0
Chlorobenzene	Ave	2.036	1.977	0.5000	19.4	20.0	-2.9	30.0
Ethylbenzene	Ave	1.155	1.063	0.1000	18.4	20.0	-7.9	30.0
1,1,1,2-Tetrachloroethane	Ave	0.6138	0.5801		18.9	20.0	-5.5	30.0
m-Xylene & p-Xylene	Ave	1.375	1.376	0.1000	20.0	20.0	0.1	30.0
n-Butyl acrylate	Ave	0.6989	0.5881		16.8	20.0	-15.8	30.0
o-Xylene	Ave	1.357	1.360	0.3000	20.0	20.0	0.2	30.0
Styrene	Ave	2.339	2.134	0.3000	18.2	20.0	-8.8	30.0
Amyl acetate (mixed isomers)	Ave	3.764	3.237		17.2	20.0	-14.0	30.0
Bromoform	Ave	0.3815	0.3620	0.1000	19.0	20.0	-5.1	30.0
Cumene	Ave	3.502	3.489	0.1000	19.9	20.0	-0.4	30.0
Bromobenzene	Ave	1.552	1.431		18.4	20.0	-7.8	30.0
1,1,2,2-Tetrachloroethane	Ave	2.329	2.178	0.3000	18.7	20.0	-6.5	30.0
N-Propylbenzene	Ave	1.998	1.958		19.6	20.0	-2.0	30.0
1,2,3-Trichloropropane	Ave	0.5578	0.5162		18.5	20.0	-7.5	30.0
trans-1,4-Dichloro-2-butene	Ave	0.7117	0.6438		18.1	20.0	-9.5	30.0
2-Chlorotoluene	Ave	1.605	1.575		19.6	20.0	-1.8	30.0
4-Ethyltoluene	Ave	7.448	7.549		20.3	20.0	1.4	30.0
1,3,5-Trimethylbenzene	Ave	6.366	6.336		19.9	20.0	-0.5	30.0
4-Chlorotoluene	Ave	5.774	5.565		19.3	20.0	-3.6	30.0
Butyl Methacrylate	Ave	2.235	1.963		17.6	20.0	-12.2	30.0
tert-Butylbenzene	Ave	5.174	5.087		19.7	20.0	-1.7	30.0
1,2,4-Trimethylbenzene	Ave	6.249	6.276		20.1	20.0	0.4	30.0
sec-Butylbenzene	Ave	8.248	8.616		20.9	20.0	4.5	30.0
1,3-Dichlorobenzene	Ave	3.038	3.014	0.6000	19.8	20.0	-0.8	30.0
4-Isopropyltoluene	Ave	6.786	6.765		19.9	20.0	-0.3	30.0
1,4-Dichlorobenzene	Ave	3.118	3.134	0.5000	20.1	20.0	0.5	30.0
1,2,3-Trimethylbenzene	Ave	6.648	6.274		18.9	20.0	-5.6	30.0
Benzyl chloride	Ave	0.8524	0.7804		18.3	20.0	-8.4	30.0
Indan	Ave	2.169	2.265		20.9	20.0	4.5	30.0
p-Diethylbenzene	Ave	3.517	4.133		23.5	20.0	17.5	30.0
n-Butylbenzene	Ave	4.161	4.095		19.7	20.0	-1.6	30.0
1,2-Dichlorobenzene	Ave	2.963	2.860	0.4000	19.3	20.0	-3.5	30.0
1,2,4,5-Tetramethylbenzene	Ave	6.189	6.000		19.4	20.0	-3.0	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.4347	0.3528	0.0500	16.2	20.0	-18.9	30.0
1,3,5-Trichlorobenzene	Ave	2.154	2.300		21.4	20.0	6.8	30.0
1,2,4-Trichlorobenzene	Ave	2.019	2.065	0.2000	20.5	20.0	2.3	30.0
Hexachlorobutadiene	Ave	0.8993	0.9673		21.5	20.0	7.6	30.0
Naphthalene	Ave	6.596	6.108		18.5	20.0	-7.4	30.0
1,2,3-Trichlorobenzene	Ave	1.900	1.883		19.8	20.0	-0.9	30.0
Dibromofluoromethane (Surr)	Ave	0.2523	0.2445		48.5	50.0	-3.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab Sample ID: ICV 460-840582/13 Calibration Date: 04/22/2022 05:36

Instrument ID: CVOAMS7 Calib Start Date: 04/22/2022 01:49

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/22/2022 03:43

Lab File ID: V18077.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane-d4 (Surr)	Ave	0.3126	0.2911		46.6	50.0	-6.9	30.0
Toluene-d8 (Surr)	Ave	1.685	1.584		47.0	50.0	-6.0	30.0
4-Bromofluorobenzene	Ave	0.8871	0.8586		48.4	50.0	-3.2	30.0

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18077.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 22-Apr-2022 05:36:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 460-0144336-013
Operator ID: Instrument ID: CVOAMS7
Sublist:

Method: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\8260S_7.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 22-Apr-2022 09:58:31 Calib Date: 22-Apr-2022 03:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18072.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1607

First Level Reviewer: delpolitov Date: 22-Apr-2022 10:00:03

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1	Dichlorodifluoromethane	85	1.286	1.286	0.000	99	95472	20.0	18.8	
2	Chlorodifluoromethane	67	1.297	1.309	-0.012	97	16872	20.0	21.7	
3	Chloromethane	50	1.423	1.423	0.000	99	134608	20.0	18.8	
4	Vinyl chloride	62	1.480	1.492	-0.012	98	115969	20.0	17.4	
5	Butadiene	54	1.503	1.503	0.000	97	108668	20.0	16.2	
6	Bromomethane	94	1.709	1.709	0.000	99	62276	20.0	21.4	
7	Chloroethane	64	1.766	1.766	0.000	98	60967	20.0	17.8	
8	Dichlorofluoromethane	67	1.892	1.892	0.000	97	141641	20.0	17.4	
9	Trichlorofluoromethane	101	1.903	1.903	0.000	98	101761	20.0	19.1	
10	Pentane	72	1.938	1.938	0.000	97	44583	40.0	47.1	
11	Ethanol	46	2.052	2.052	0.000	94	27072	800.0	829.6	
12	Ethyl ether	59	2.086	2.086	0.000	95	81991	20.0	18.0	
13	2-Methyl-1,3-butadiene	53	2.109	2.109	0.000	95	103476	20.0	21.1	
14	1,2-Dichloro-1,1,2-trifluoroetha	117	2.120	2.120	0.000	90	66272	20.0	21.2	
15	1,1,1-Trifluoro-2,2-dichloroetha	83	2.155	2.155	0.000	96	130218	20.0	20.4	
17	Acrolein	56	2.223	2.223	0.000	95	135638	300.4	235.6	
16	112TCTFE	101	2.223	2.223	0.000	94	80855	20.0	21.7	
18	1,1-Dichloroethene	96	2.258	2.258	0.000	96	82163	20.0	21.2	
19	Acetone	43	2.315	2.315	0.000	87	178134	100.0	84.2	M
21	Iodomethane	142	2.383	2.383	0.000	97	68588	20.0	19.8	
20	Isopropyl alcohol	45	2.383	2.383	0.000	65	94904	200.0	177.9	
22	Carbon disulfide	76	2.418	2.418	0.000	99	338079	20.0	19.6	
23	3-Chloro-1-propene	39	2.509	2.509	0.000	98	199651	20.0	20.9	
24	Methyl acetate	43	2.509	2.509	0.000	98	191702	40.0	34.3	
25	Acetonitrile	40	2.566	2.566	0.000	95	95977	200.0	196.9	a
* 26	TBA-d9 (IS)	65	2.589	2.589	0.000	0	373273	1000.0	1000.0	
27	Methylene Chloride	84	2.612	2.623	-0.011	97	95985	20.0	19.1	
28	2-Methyl-2-propanol	59	2.646	2.646	0.000	99	142432	200.0	183.4	
29	Methyl tert-butyl ether	73	2.738	2.738	0.000	98	276956	20.0	19.1	
30	trans-1,2-Dichloroethene	96	2.772	2.772	0.000	97	99570	20.0	20.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	2.829	2.829	0.000	95	483673	200.0	193.6	
32 Hexane	57	2.898	2.898	0.000	94	202689	20.0	21.3	
33 Isopropyl ether	45	3.069	3.069	0.000	98	357766	20.0	17.7	
34 1,1-Dichloroethane	63	3.115	3.115	0.000	64	194138	20.0	19.1	
35 Vinyl acetate	86	3.115	3.115	0.000	100	40586	40.0	42.4	
36 2-Chloro-1,3-butadiene	88	3.149	3.161	-0.012	91	89177	20.0	19.5	
37 Tert-butyl ethyl ether	87	3.343	3.355	-0.012	88	117582	20.0	19.1	
* 38 2-Butanone-d5	46	3.538	3.538	0.000	0	345119	250.0	250.0	
39 2,2-Dichloropropane	79	3.549	3.549	0.000	94	43186	20.0	18.3	
40 cis-1,2-Dichloroethene	96	3.583	3.583	0.000	93	103150	20.0	19.2	
41 Ethyl acetate	70	3.583	3.583	0.000	94	27385	40.0	39.8	
42 2-Butanone (MEK)	72	3.583	3.583	0.000	95	70575	100.0	91.6	
43 Methyl acrylate	55	3.641	3.641	0.000	99	102164	20.0	18.9	
44 Propionitrile	54	3.709	3.709	0.000	99	192744	200.0	199.6	
45 Tetrahydrofuran	72	3.789	3.789	0.000	84	33388	40.0	36.5	
46 Chlorobromomethane	128	3.789	3.789	0.000	82	43483	20.0	19.7	
47 Methacrylonitrile	67	3.801	3.801	0.000	93	521906	200.0	188.7	
48 Chloroform	83	3.835	3.846	-0.011	99	157551	20.0	20.0	
49 Cyclohexane	84	3.961	3.961	0.000	93	181638	20.0	21.4	
50 1,1,1-Trichloroethane	97	3.972	3.972	0.000	98	121784	20.0	19.7	
$ 51 Dibromofluoromethane (Surr)	113	3.995	3.995	0.000	96	103022	50.0	48.5	
52 Carbon tetrachloride	117	4.086	4.086	0.000	97	93917	20.0	20.1	
53 1,1-Dichloropropene	75	4.121	4.121	0.000	96	144322	20.0	19.8	
54 Isobutyl alcohol	42	4.235	4.235	0.000	90	108177	500.0	463.8	
55 Benzene	78	4.303	4.303	0.000	96	453324	20.0	19.4	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.326	4.326	0.000	0	122642	50.0	46.6	
57 Isopropyl acetate	43	4.349	4.349	0.000	95	350007	20.0	17.6	
58 Tert-amyl methyl ether	73	4.361	4.361	0.000	93	307358	20.0	18.0	
59 1,2-Dichloroethane	62	4.395	4.395	0.000	96	115441	20.0	19.3	
60 n-Heptane	43	4.452	4.452	0.000	94	232238	20.0	19.9	
* 61 Fluorobenzene	96	4.589	4.589	0.000	98	421284	50.0	50.0	
62 n-Butanol	43	4.921	4.921	0.000	86	43779	500.0	472.5	
63 Trichloroethene	95	4.955	4.955	0.000	97	96448	20.0	20.0	
64 Ethyl acrylate	55	5.069	5.069	0.000	93	325379	20.0	19.6	a
65 Methylcyclohexane	83	5.069	5.069	0.000	82	212598	20.0	21.3	
66 1,2-Dichloropropane	63	5.241	5.241	0.000	94	120653	20.0	19.4	
* 67 1,4-Dioxane-d8	96	5.321	5.309	0.012	0	33230	1000.0	1000.0	
68 Methyl methacrylate	100	5.321	5.321	0.000	96	54502	40.0	38.2	
69 1,4-Dioxane	88	5.366	5.366	0.000	33	28987	400.0	354.7	
70 n-Propyl acetate	43	5.378	5.378	0.000	99	187846	20.0	18.8	
71 Dibromomethane	93	5.378	5.378	0.000	92	54262	20.0	18.4	
72 Dichlorobromomethane	83	5.538	5.538	0.000	98	120599	20.0	20.0	
73 2-Nitropropane	41	5.881	5.881	0.000	86	62746	40.0	36.2	
74 2-Chloroethyl vinyl ether	63	5.892	5.892	0.000	88	68610	20.0	19.4	
75 Epichlorohydrin	57	6.018	6.007	0.011	82	13105	20.0	18.5	
76 cis-1,3-Dichloropropene	75	6.075	6.075	0.000	94	170579	20.0	18.5	
77 4-Methyl-2-pentanone (MIBK)	43	6.235	6.235	0.000	97	594784	100.0	96.9	
$ 78 Toluene-d8 (Surr)	98	6.327	6.327	0.000	99	512770	50.0	47.0	
79 Toluene	91	6.407	6.407	0.000	94	447767	20.0	19.0	
80 trans-1,3-Dichloropropene	75	6.807	6.818	-0.011	97	156894	20.0	19.9	
81 Ethyl methacrylate	69	6.841	6.841	0.000	74	131875	20.0	18.1	
82 1,1,2-Trichloroethane	83	7.047	7.047	0.000	96	78837	20.0	18.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.092	7.092	0.000	95	86986	20.0	21.1	
84 1,3-Dichloropropane	76	7.275	7.275	0.000	95	162676	20.0	18.4	
85 2-Hexanone	43	7.344	7.344	0.000	97	399333	100.0	92.9	
86 n-Butyl acetate	73	7.492	7.492	0.000	100	28521	20.0	17.2	
87 Chlorodibromomethane	129	7.538	7.538	0.000	97	74957	20.0	19.2	
88 Ethylene Dibromide	107	7.698	7.698	0.000	97	82544	20.0	19.6	
* 89 Chlorobenzene-d5	117	8.247	8.247	0.000	92	323639	50.0	50.0	
90 Chlorobenzene	112	8.270	8.270	0.000	94	255926	20.0	19.4	
91 Ethylbenzene	106	8.372	8.372	0.000	99	137641	20.0	18.4	
92 1,1,1,2-Tetrachloroethane	131	8.384	8.384	0.000	97	75094	20.0	18.9	
93 m-Xylene & p-Xylene	106	8.510	8.510	0.000	99	178152	20.0	20.0	
94 o-Xylene	106	8.944	8.944	0.000	93	176014	20.0	20.0	
95 n-Butyl acrylate	73	8.944	8.944	0.000	67	76139	20.0	16.8	
96 Styrene	104	8.967	8.967	0.000	96	276196	20.0	18.2	
97 Amyl acetate (mixed isomers)	43	9.173	9.173	0.000	90	197190	20.0	17.2	
98 Bromoform	173	9.184	9.184	0.000	94	46863	20.0	19.0	
99 Isopropylbenzene	105	9.298	9.298	0.000	96	451692	20.0	19.9	
$ 100 4-Bromofluorobenzene	174	9.504	9.504	0.000	86	130736	50.0	48.4	
101 Bromobenzene	156	9.630	9.630	0.000	93	87133	20.0	18.4	
102 1,1,2,2-Tetrachloroethane	83	9.687	9.687	0.000	99	132654	20.0	18.7	
103 N-Propylbenzene	120	9.698	9.698	0.000	98	119241	20.0	19.6	
104 1,2,3-Trichloropropane	110	9.721	9.721	0.000	94	31442	20.0	18.5	
105 trans-1,4-Dichloro-2-butene	53	9.744	9.744	0.000	89	39214	20.0	18.1	
106 2-Chlorotoluene	126	9.790	9.790	0.000	95	95955	20.0	19.6	
107 4-Ethyltoluene	105	9.801	9.801	0.000	99	459807	20.0	20.3	
108 1,3,5-Trimethylbenzene	105	9.870	9.870	0.000	92	385947	20.0	19.9	
109 4-Chlorotoluene	91	9.904	9.904	0.000	98	338947	20.0	19.3	
110 Butyl Methacrylate	87	9.961	9.961	0.000	99	119556	20.0	17.6	
111 tert-Butylbenzene	119	10.133	10.133	0.000	93	309851	20.0	19.7	
112 1,2,4-Trimethylbenzene	105	10.190	10.190	0.000	98	382286	20.0	20.1	
113 sec-Butylbenzene	105	10.327	10.327	0.000	99	524816	20.0	20.9	
114 4-Isopropyltoluene	119	10.453	10.453	0.000	98	412078	20.0	19.9	
115 1,3-Dichlorobenzene	146	10.453	10.453	0.000	93	183599	20.0	19.8	
* 116 1,4-Dichlorobenzene-d4	152	10.521	10.521	0.000	97	152273	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.533	10.533	0.000	93	190886	20.0	20.1	
118 1,2,3-Trimethylbenzene	105	10.556	10.556	0.000	98	382167	20.0	18.9	
119 Benzyl chloride	126	10.658	10.658	0.000	98	47535	20.0	18.3	
120 2,3-Dihydroindene	117	10.716	10.716	0.000	95	381741	20.0	20.9	
121 p-Diethylbenzene	119	10.761	10.761	0.000	93	251714	20.0	23.5	
122 n-Butylbenzene	92	10.784	10.784	0.000	98	249446	20.0	19.7	
123 1,2-Dichlorobenzene	146	10.841	10.841	0.000	96	174223	20.0	19.3	
124 1,2,4,5-Tetramethylbenzene	119	11.378	11.378	0.000	97	365475	20.0	19.4	
125 1,2-Dibromo-3-Chloropropane	157	11.470	11.470	0.000	93	21487	20.0	16.2	
126 1,3,5-Trichlorobenzene	180	11.573	11.573	0.000	94	140090	20.0	21.4	
127 1,2,4-Trichlorobenzene	180	12.041	12.041	0.000	94	125781	20.0	20.5	
128 Hexachlorobutadiene	225	12.121	12.121	0.000	92	58917	20.0	21.5	
129 Naphthalene	128	12.224	12.224	0.000	99	372012	20.0	18.5	
130 1,2,3-Trichlorobenzene	180	12.396	12.396	0.000	95	114673	20.0	19.8	
S 131 1,2-Dichloroethene, Total	100				0		40.0	39.9	
S 132 1,3-Dichloropropene, Total	100				0		40.0	38.3	
S 133 Xylenes, Total	100				0		40.0	40.1	
S 134 Total BTEX	1				0		100.0	96.8	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ACROLEIN SP_00136	Amount Added:	3.00	Units: uL	
8260 SP_00153	Amount Added:	2.00	Units: uL	
8FreonsSS_00044	Amount Added:	2.00	Units: uL	
GAS C SP_00458	Amount Added:	2.00	Units: uL	
8260SURR250_00226	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00117	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 22-Apr-2022 10:00:31 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18077.D

Injection Date: 22-Apr-2022 05:36:30 Instrument ID: CVOAMS7 Operator ID:

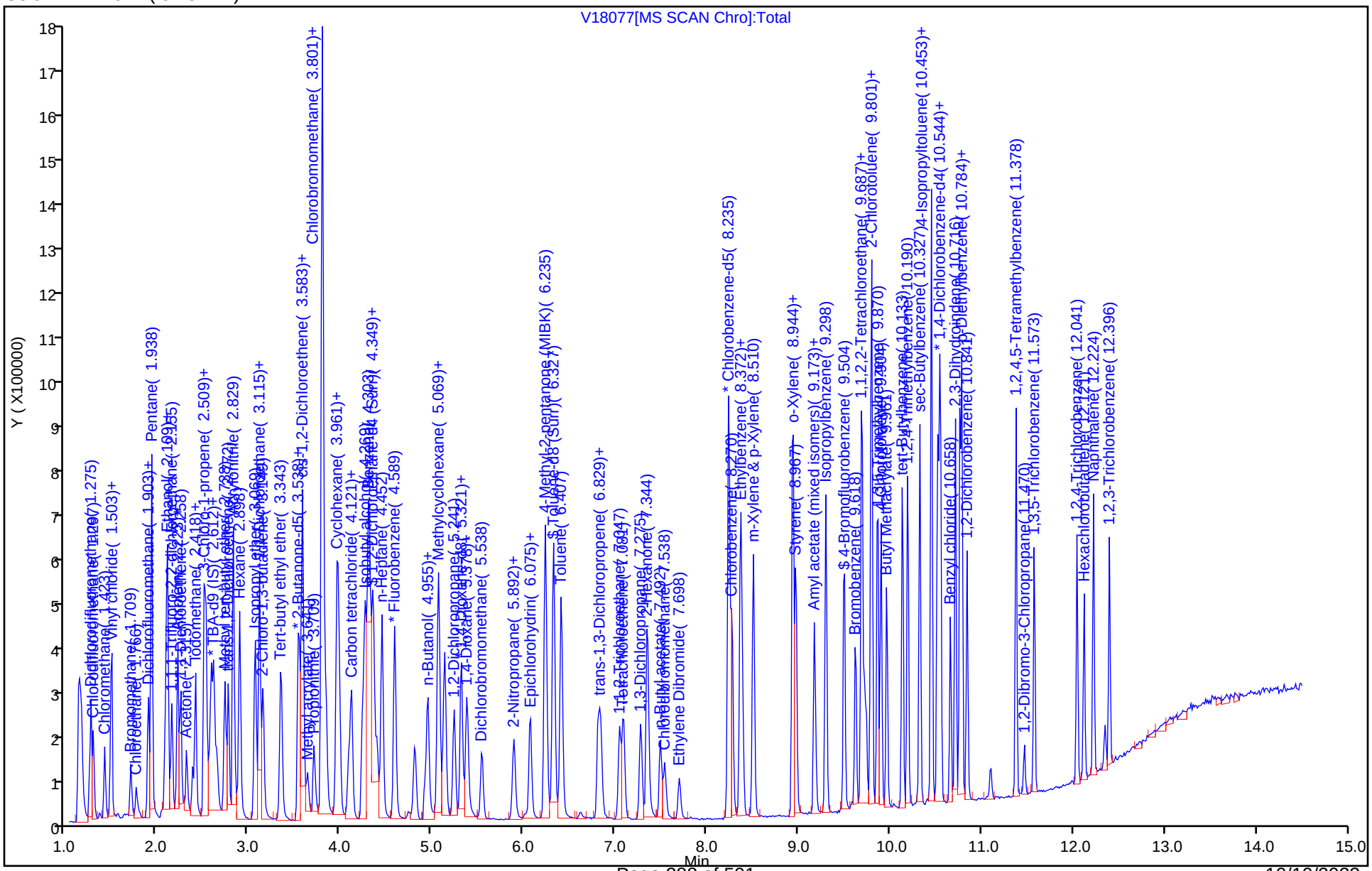
Lims ID: ICV Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 12

Method: 8260S_7 Limit Group: VOA - 8260D Water and Solid

Column: DB-624 (0.18 mm)



10/10/2023
12:43 PM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab Sample ID: CCVIS 460-845591/2 Calibration Date: 05/20/2022 05:49

Instrument ID: CVOAMS7 Calib Start Date: 04/22/2022 01:49

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/22/2022 03:43

Lab File ID: V19385.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.6029	0.7668	0.1000	25.4	20.0	27.2*	20.0
Chlorodifluoromethane	Ave	0.0924	0.1101		23.8	20.0	19.1	20.0
Chloromethane	Ave	0.8519	0.8728	0.1000	20.5	20.0	2.5	20.0
Vinyl chloride	Ave	0.7918	0.8865	0.1000	22.4	20.0	12.0	20.0
Butadiene	Ave	0.7937	0.9349		23.6	20.0	17.8	20.0
Bromomethane	QuaF		0.4544	0.1000	26.4	20.0	31.8	50.0
Chloroethane	Ave	0.4067	0.4975	0.1000	24.5	20.0	22.3	50.0
Dichlorofluoromethane	Ave	0.9678	1.178		24.4	20.0	21.8*	20.0
Trichlorofluoromethane	Ave	0.6326	0.9221	0.1000	29.2	20.0	45.8*	20.0
Pentane	Ave	0.1124	0.1261		44.9	40.0	12.2	20.0
Ethanol	Ave	0.0874	0.0770		704	800	-12.0	50.0
Ethyl ether	Ave	0.5411	0.5267		19.5	20.0	-2.7	20.0
2-Methyl-1,3-butadiene	Ave	0.5813	0.6107		21.0	20.0	5.1	20.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.3713	0.3901		21.0	20.0	5.1	20.0
1,1,1-Trifluoro-2,2-dichloro ethane	Ave	0.7593	0.8236		21.7	20.0	8.5	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.4419	0.5006	0.1000	22.7	20.0	13.3	20.0
Acrolein	Ave	1.542	1.694		330	300	9.9	50.0
1,1-Dichloroethene	Ave	0.4592	0.4954	0.1000	21.6	20.0	7.9	20.0
Acetone	Ave	1.532	1.424	0.0500	92.9	100	-7.1	50.0
Iodomethane	Lin2		0.4923		23.8	20.0	19.0	20.0
Isopropyl alcohol	Ave	1.429	1.175		164	200	-17.8	50.0
Carbon disulfide	Ave	2.042	2.159	0.1000	21.1	20.0	5.7	50.0
3-Chloro-1-propene	Ave	1.132	1.206		21.3	20.0	6.6	20.0
Methyl acetate	Ave	0.6632	0.5703	0.1000	34.4	40.0	-14.0	20.0
Acetonitrile	Ave	1.306	1.089		167	200	-16.6	20.0
Methylene Chloride	Ave	0.5968	0.6377	0.1000	21.4	20.0	6.9	20.0
2-Methyl-2-propanol	Ave	2.081	2.131		205	200	2.4	50.0
Methyl tert-butyl ether	Ave	1.717	1.879	0.1000	21.9	20.0	9.5	20.0
trans-1,2-Dichloroethene	Ave	0.5709	0.6096	0.1000	21.4	20.0	6.8	20.0
Acrylonitrile	Ave	6.693	6.332		189	200	-5.4	20.0
Hexane	Ave	1.128	1.230		21.8	20.0	9.0	20.0
Isopropyl ether	Ave	2.399	2.208		18.4	20.0	-8.0	20.0
1,1-Dichloroethane	Ave	1.209	1.204	0.2000	19.9	20.0	-0.4	20.0
Vinyl acetate	Ave	0.6939	0.7828		45.1	40.0	12.8	20.0
2-Chloro-1,3-butadiene	Ave	0.5417	0.5590		20.6	20.0	3.2	20.0
Tert-butyl ethyl ether	Ave	0.7297	0.7568		20.7	20.0	3.7	20.0
2,2-Dichloropropane	Ave	0.2804	0.3167		22.6	20.0	13.0	20.0
2-Butanone (MEK)	Ave	0.5584	0.5791	0.0500	104	100	3.7	50.0
cis-1,2-Dichloroethene	Ave	0.6387	0.6479	0.1000	20.3	20.0	1.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab Sample ID: CCVIS 460-845591/2 Calibration Date: 05/20/2022 05:49

Instrument ID: CVOAMS7 Calib Start Date: 04/22/2022 01:49

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/22/2022 03:43

Lab File ID: V19385.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethyl acetate	Ave	0.4990	0.5723		45.9	40.0	14.7	20.0
Methyl acrylate	Ave	0.6426	0.6045		18.8	20.0	-5.9	20.0
Propionitrile	Ave	0.6995	0.7101		203	200	1.5	20.0
Chlorobromomethane	Ave	0.2624	0.2690		20.5	20.0	2.5	20.0
Tetrahydrofuran	Ave	0.6633	0.7240		43.7	40.0	9.1	20.0
Methacrylonitrile	Ave	0.3283	0.3199		195	200	-2.6	20.0
Chloroform	Ave	0.9327	1.014	0.2000	21.7	20.0	8.7	20.0
Cyclohexane	Ave	1.008	1.082	0.1000	21.5	20.0	7.4	50.0
1,1,1-Trichloroethane	Ave	0.7343	0.8544	0.1000	23.3	20.0	16.4	20.0
Carbon tetrachloride	Ave	0.5535	0.6508	0.1000	23.5	20.0	17.6	20.0
1,1-Dichloropropene	Ave	0.8651	0.9282		21.5	20.0	7.3	20.0
Isobutyl alcohol	Ave	0.6248	0.5416		433	500	-13.3	50.0
Benzene	Ave	3.617	3.226	0.5000	17.8	20.0	-10.8	20.0
Isopropyl acetate	Ave	2.362	2.250		19.1	20.0	-4.7	20.0
Tert-amyl methyl ether	Ave	2.029	2.026		20.0	20.0	-0.1	20.0
1,2-Dichloroethane	Ave	0.7103	0.8222	0.1000	23.2	20.0	15.8	20.0
n-Heptane	Ave	1.389	1.396		20.1	20.0	0.5	20.0
n-Butanol	Qua2		0.2140		433	500	-13.4	50.0
Trichloroethene	Ave	0.5728	0.5784	0.2000	20.2	20.0	1.0	20.0
Ethyl acrylate	Ave	1.968	1.952		19.8	20.0	-0.8	20.0
Methylcyclohexane	Ave	1.185	1.271	0.1000	21.5	20.0	7.3	50.0
1,2-Dichloropropane	Ave	0.7371	0.6896	0.1000	18.7	20.0	-6.4	20.0
Methyl methacrylate	Ave	0.1695	0.1686		39.8	40.0	-0.5	20.0
1,4-Dioxane	Ave	2.459	2.466		401	400	0.3	50.0
n-Propyl acetate	Ave	1.184	1.102		18.6	20.0	-7.0	20.0
Dibromomethane	Ave	0.3492	0.3288		18.8	20.0	-5.8	20.0
Dichlorobromomethane	Ave	0.7171	0.7573	0.2000	21.1	20.0	5.6	20.0
2-Nitropropane	Ave	0.2056	0.2300		44.7	40.0	11.9	20.0
2-Chloroethyl vinyl ether	Ave	0.4191	0.3948		18.9	20.0	-5.8	20.0
Epichlorohydrin	Ave	0.5121	0.5300		414	400	3.5	20.0
cis-1,3-Dichloropropene	Ave	1.428	1.302	0.2000	18.2	20.0	-8.8	50.0
4-Methyl-2-pentanone (MIBK)	Ave	4.445	4.424	0.0500	99.5	100	-0.5	50.0
Toluene	Ave	3.642	3.320	0.4000	18.2	20.0	-8.8	20.0
trans-1,3-Dichloropropene	Ave	1.220	1.211	0.1000	19.9	20.0	-0.7	50.0
Ethyl methacrylate	Ave	0.8666	0.8112		18.7	20.0	-6.4	20.0
1,1,2-Trichloroethane	Ave	0.6595	0.6227	0.1000	18.9	20.0	-5.6	20.0
Tetrachloroethene	Ave	0.6383	0.6803	0.2000	21.3	20.0	6.6	20.0
1,3-Dichloropropane	Ave	1.370	1.332		19.5	20.0	-2.7	20.0
2-Hexanone	Ave	3.114	3.477	0.0500	112	100	11.6	50.0
n-Butyl acetate	Ave	0.2558	0.2338		18.3	20.0	-8.6	20.0
Chlorodibromomethane	Ave	0.6043	0.6187	0.1000	20.5	20.0	2.4	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab Sample ID: CCVIS 460-845591/2 Calibration Date: 05/20/2022 05:49

Instrument ID: CVOAMS7 Calib Start Date: 04/22/2022 01:49

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/22/2022 03:43

Lab File ID: V19385.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	Ave	0.6515	0.6481	0.1000	19.9	20.0	-0.5	20.0
Chlorobenzene	Ave	2.036	2.054	0.5000	20.2	20.0	0.8	20.0
Ethylbenzene	Ave	1.155	1.161	0.1000	20.1	20.0	0.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.6138	0.6467		21.1	20.0	5.3	20.0
m-Xylene & p-Xylene	Ave	1.375	1.422	0.1000	20.7	20.0	3.5	20.0
o-Xylene	Ave	1.357	1.392	0.3000	20.5	20.0	2.6	20.0
n-Butyl acrylate	Ave	0.6989	0.6169		17.7	20.0	-11.7	20.0
Styrene	Ave	2.339	2.296	0.3000	19.6	20.0	-1.9	20.0
Amyl acetate (mixed isomers)	Ave	3.764	3.251		17.3	20.0	-13.6	20.0
Bromoform	Ave	0.3815	0.3770	0.1000	19.8	20.0	-1.2	20.0
Cumene	Ave	3.502	3.550	0.1000	20.3	20.0	1.4	20.0
Bromobenzene	Ave	1.552	1.477		19.0	20.0	-4.8	20.0
1,1,2,2-Tetrachloroethane	Ave	2.329	2.051	0.3000	17.6	20.0	-11.9	20.0
N-Propylbenzene	Ave	1.998	1.948		19.5	20.0	-2.5	20.0
1,2,3-Trichloropropane	Ave	0.5578	0.5261		18.9	20.0	-5.7	20.0
trans-1,4-Dichloro-2-butene	Ave	0.7117	0.6381		17.9	20.0	-10.3	20.0
2-Chlorotoluene	Ave	1.605	1.603		20.0	20.0	-0.1	20.0
4-Ethyltoluene	Ave	7.448	7.189		19.3	20.0	-3.5	20.0
1,3,5-Trimethylbenzene	Ave	6.366	6.315		19.8	20.0	-0.8	20.0
4-Chlorotoluene	Ave	5.774	5.382		18.6	20.0	-6.8	20.0
Butyl Methacrylate	Ave	2.235	1.909		17.1	20.0	-14.6	20.0
tert-Butylbenzene	Ave	5.174	4.981		19.3	20.0	-3.7	20.0
1,2,4-Trimethylbenzene	Ave	6.249	6.135		19.6	20.0	-1.8	20.0
sec-Butylbenzene	Ave	8.248	8.205		19.9	20.0	-0.5	20.0
4-Isopropyltoluene	Ave	6.786	6.527		19.2	20.0	-3.8	20.0
1,3-Dichlorobenzene	Ave	3.038	2.914	0.6000	19.2	20.0	-4.1	20.0
1,4-Dichlorobenzene	Ave	3.118	3.009	0.5000	19.3	20.0	-3.5	20.0
1,2,3-Trimethylbenzene	Ave	6.648	6.266		18.8	20.0	-5.8	20.0
Benzyl chloride	Ave	0.8524	0.7753		18.2	20.0	-9.0	50.0
Indan	Ave	2.169	2.441		22.5	20.0	12.5	20.0
p-Diethylbenzene	Ave	3.517	3.422		19.5	20.0	-2.7	20.0
n-Butylbenzene	Ave	4.161	3.886		18.7	20.0	-6.6	20.0
1,2-Dichlorobenzene	Ave	2.963	2.728	0.4000	18.4	20.0	-7.9	20.0
1,2,4,5-Tetramethylbenzene	Ave	6.189	5.707		18.4	20.0	-7.8	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.4347	0.3681	0.0500	16.9	20.0	-15.3	50.0
1,3,5-Trichlorobenzene	Ave	2.154	2.042		19.0	20.0	-5.2	20.0
1,2,4-Trichlorobenzene	Ave	2.019	1.874	0.2000	18.6	20.0	-7.2	20.0
Hexachlorobutadiene	Ave	0.8993	0.8200		18.2	20.0	-8.8	20.0
Naphthalene	Ave	6.596	5.773		17.5	20.0	-12.5	50.0
1,2,3-Trichlorobenzene	Ave	1.900	1.806		19.0	20.0	-5.0	20.0
Dibromofluoromethane (Surr)	Ave	0.2523	0.2452		48.6	50.0	-2.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab Sample ID: CCVIS 460-845591/2 Calibration Date: 05/20/2022 05:49

Instrument ID: CVOAMS7 Calib Start Date: 04/22/2022 01:49

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/22/2022 03:43

Lab File ID: V19385.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane-d4 (Surr)	Ave	0.3126	0.3261		52.2	50.0	4.3	20.0
Toluene-d8 (Surr)	Ave	1.685	1.498		44.4	50.0	-11.1	20.0
4-Bromofluorobenzene	Ave	0.8871	0.9151		51.6	50.0	3.2	20.0

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220520-145507.b\V19385.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 20-May-2022 05:49:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0145507-002
Operator ID: Instrument ID: CVOAMS7
Sublist: chrom-8260S_7*sub1

Method: \\chromfs\Edison\ChromData\CVOAMS7\20220520-145507.b\8260S_7.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 20-May-2022 09:35:55 Calib Date: 22-Apr-2022 03:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18072.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1661

First Level Reviewer: delpolitov Date: 20-May-2022 09:35:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.275	1.275	0.000	99	167655	20.0	25.4	M
2 Chlorodifluoromethane	67	1.298	1.298	0.000	98	24065	20.0	23.8	
3 Chloromethane	50	1.423	1.423	0.000	99	190843	20.0	20.5	
4 Vinyl chloride	62	1.480	1.480	0.000	98	193822	20.0	22.4	
5 Butadiene	54	1.492	1.492	0.000	98	204410	20.0	23.6	
6 Bromomethane	94	1.698	1.698	0.000	98	99348	20.0	26.4	
7 Chloroethane	64	1.755	1.755	0.000	100	108780	20.0	24.5	
8 Dichlorofluoromethane	67	1.880	1.880	0.000	98	257656	20.0	24.4	
9 Trichlorofluoromethane	101	1.892	1.892	0.000	97	201623	20.0	29.2	
10 Pentane	72	1.926	1.926	0.000	96	55146	40.0	44.9	
11 Ethanol	46	2.040	2.040	0.000	98	31121	800.0	704.3	
12 Ethyl ether	59	2.075	2.075	0.000	97	115160	20.0	19.5	
13 2-Methyl-1,3-butadiene	53	2.086	2.086	0.000	98	133528	20.0	21.0	
14 1,2-Dichloro-1,1,2-trifluoroetha	117	2.098	2.098	0.000	96	85300	20.0	21.0	
15 1,1,1-Trifluoro-2,2-dichloroetha	83	2.143	2.143	0.000	94	180085	20.0	21.7	
16 112TCTFE	101	2.201	2.201	0.000	92	109446	20.0	22.7	
17 Acrolein	56	2.212	2.212	0.000	96	256877	300.0	329.6	
18 1,1-Dichloroethene	96	2.246	2.246	0.000	93	108321	20.0	21.6	
19 Acetone	43	2.303	2.303	0.000	87	251501	100.0	92.9	
21 Iodomethane	142	2.372	2.372	0.000	98	107632	20.0	23.8	
20 Isopropyl alcohol	45	2.372	2.372	0.000	61	118809	200.0	164.4	
22 Carbon disulfide	76	2.406	2.406	0.000	99	471962	20.0	21.1	
24 Methyl acetate	43	2.498	2.498	0.000	97	249392	40.0	34.4	
23 3-Chloro-1-propene	39	2.498	2.498	0.000	91	263663	20.0	21.3	
25 Acetonitrile	40	2.543	2.543	0.000	97	110070	200.0	166.8	
* 26 TBA-d9 (IS)	65	2.566	2.566	0.000	0	505429	1000.0	1000.0	
27 Methylene Chloride	84	2.601	2.601	0.000	94	139426	20.0	21.4	
28 2-Methyl-2-propanol	59	2.635	2.635	0.000	98	215409	200.0	204.8	
29 Methyl tert-butyl ether	73	2.715	2.715	0.000	97	410830	20.0	21.9	
30 trans-1,2-Dichloroethene	96	2.761	2.761	0.000	97	133281	20.0	21.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	2.806	2.806	0.000	95	640045	200.0	189.2	
32 Hexane	57	2.875	2.875	0.000	93	269002	20.0	21.8	
33 Isopropyl ether	45	3.046	3.046	0.000	98	482674	20.0	18.4	
35 Vinyl acetate	86	3.092	3.092	0.000	100	55307	40.0	45.1	
34 1,1-Dichloroethane	63	3.092	3.092	0.000	63	263312	20.0	19.9	
36 2-Chloro-1,3-butadiene	88	3.138	3.138	0.000	92	122233	20.0	20.6	
37 Tert-butyl ethyl ether	87	3.332	3.332	0.000	88	165463	20.0	20.7	
* 38 2-Butanone-d5	46	3.515	3.515	0.000	0	441561	250.0	250.0	
39 2,2-Dichloropropane	79	3.526	3.526	0.000	95	69255	20.0	22.6	
40 cis-1,2-Dichloroethene	96	3.561	3.561	0.000	86	141668	20.0	20.3	
42 2-Butanone (MEK)	72	3.561	3.561	0.000	96	102275	100.0	103.7	
41 Ethyl acetate	70	3.561	3.561	0.000	94	40431	40.0	45.9	
43 Methyl acrylate	55	3.618	3.618	0.000	99	132177	20.0	18.8	
44 Propionitrile	54	3.686	3.686	0.000	98	250848	200.0	203.0	
45 Tetrahydrofuran	72	3.766	3.766	0.000	77	51151	40.0	43.7	
46 Chlorobromomethane	128	3.766	3.766	0.000	98	58824	20.0	20.5	
47 Methacrylonitrile	67	3.778	3.778	0.000	93	699386	200.0	194.9	
48 Chloroform	83	3.812	3.812	0.000	98	221762	20.0	21.7	
49 Cyclohexane	84	3.938	3.938	0.000	94	236639	20.0	21.5	
50 1,1,1-Trichloroethane	97	3.949	3.949	0.000	96	186803	20.0	23.3	
$ 51 Dibromofluoromethane (Surr)	113	3.961	3.961	0.000	95	134019	50.0	48.6	
52 Carbon tetrachloride	117	4.064	4.064	0.000	96	142295	20.0	23.5	
53 1,1-Dichloropropene	75	4.098	4.098	0.000	94	202948	20.0	21.5	
54 Isobutyl alcohol	42	4.212	4.212	0.000	93	136858	500.0	433.4	
55 Benzene	78	4.281	4.281	0.000	97	592694	20.0	17.8	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.304	4.304	0.000	0	178246	50.0	52.2	
57 Isopropyl acetate	43	4.326	4.326	0.000	94	492018	20.0	19.1	
58 Tert-amyl methyl ether	73	4.338	4.338	0.000	91	442915	20.0	20.0	
59 1,2-Dichloroethane	62	4.372	4.372	0.000	96	179780	20.0	23.2	
60 n-Heptane	43	4.429	4.429	0.000	93	305183	20.0	20.1	
* 61 Fluorobenzene	96	4.566	4.566	0.000	98	546612	50.0	50.0	
62 n-Butanol	43	4.886	4.886	0.000	86	54077	500.0	432.8	
63 Trichloroethene	95	4.921	4.921	0.000	94	126469	20.0	20.2	
64 Ethyl acrylate	55	5.035	5.035	0.000	93	426807	20.0	19.8	
65 Methylcyclohexane	83	5.035	5.035	0.000	80	277869	20.0	21.5	a
66 1,2-Dichloropropane	63	5.207	5.207	0.000	89	150781	20.0	18.7	
* 67 1,4-Dioxane-d8	96	5.275	5.275	0.000	0	37657	1000.0	1000.0	
68 Methyl methacrylate	100	5.287	5.287	0.000	94	73729	40.0	39.8	
69 1,4-Dioxane	88	5.344	5.344	0.000	28	37140	400.0	401.0	
70 n-Propyl acetate	43	5.344	5.344	0.000	99	240841	20.0	18.6	
71 Dibromomethane	93	5.355	5.355	0.000	90	71901	20.0	18.8	
72 Dichlorobromomethane	83	5.515	5.515	0.000	99	165576	20.0	21.1	
73 2-Nitropropane	41	5.858	5.858	0.000	91	100565	40.0	44.7	
74 2-Chloroethyl vinyl ether	63	5.869	5.869	0.000	92	86525	20.0	18.9	
75 Epichlorohydrin	57	5.972	5.972	0.000	99	374416	400.0	413.9	
76 cis-1,3-Dichloropropene	75	6.041	6.041	0.000	93	239229	20.0	18.2	
77 4-Methyl-2-pentanone (MIBK)	43	6.201	6.201	0.000	97	781324	100.0	99.5	
$ 78 Toluene-d8 (Surr)	98	6.292	6.292	0.000	99	687902	50.0	44.4	
79 Toluene	91	6.372	6.372	0.000	94	610031	20.0	18.2	
80 trans-1,3-Dichloropropene	75	6.772	6.772	0.000	98	222562	20.0	19.9	
81 Ethyl methacrylate	69	6.807	6.807	0.000	75	177357	20.0	18.7	
82 1,1,2-Trichloroethane	83	7.012	7.012	0.000	95	114399	20.0	18.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.058	7.058	0.000	94	124991	20.0	21.3	
84 1,3-Dichloropropane	76	7.241	7.241	0.000	95	244720	20.0	19.5	
85 2-Hexanone	43	7.310	7.310	0.000	97	614111	100.0	111.6	
86 n-Butyl acetate	73	7.458	7.458	0.000	99	42955	20.0	18.3	
87 Chlorodibromomethane	129	7.504	7.504	0.000	97	113668	20.0	20.5	
88 Ethylene Dibromide	107	7.664	7.664	0.000	99	119065	20.0	19.9	
* 89 Chlorobenzene-d5	117	8.213	8.213	0.000	90	459300	50.0	50.0	
90 Chlorobenzene	112	8.247	8.247	0.000	92	377296	20.0	20.2	
91 Ethylbenzene	106	8.338	8.338	0.000	99	213225	20.0	20.1	
92 1,1,1,2-Tetrachloroethane	131	8.361	8.361	0.000	95	118803	20.0	21.1	
93 m-Xylene & p-Xylene	106	8.487	8.487	0.000	100	261289	20.0	20.7	
94 o-Xylene	106	8.910	8.910	0.000	93	255766	20.0	20.5	
95 n-Butyl acrylate	73	8.921	8.921	0.000	97	113337	20.0	17.7	
96 Styrene	104	8.944	8.944	0.000	96	421733	20.0	19.6	
97 Amyl acetate (mixed isomers)	43	9.150	9.150	0.000	90	291646	20.0	17.3	
98 Bromoform	173	9.161	9.161	0.000	94	69270	20.0	19.8	
99 Isopropylbenzene	105	9.275	9.275	0.000	96	652137	20.0	20.3	
$ 100 4-Bromofluorobenzene	174	9.481	9.481	0.000	83	205271	50.0	51.6	
101 Bromobenzene	156	9.596	9.596	0.000	92	132532	20.0	19.0	
102 1,1,2,2-Tetrachloroethane	83	9.664	9.664	0.000	99	184008	20.0	17.6	
103 N-Propylbenzene	120	9.676	9.676	0.000	98	174814	20.0	19.5	
104 1,2,3-Trichloropropane	110	9.698	9.698	0.000	97	47204	20.0	18.9	
105 trans-1,4-Dichloro-2-butene	53	9.721	9.721	0.000	78	57253	20.0	17.9	
106 2-Chlorotoluene	126	9.767	9.767	0.000	96	143806	20.0	20.0	
107 4-Ethyltoluene	105	9.778	9.778	0.000	98	645006	20.0	19.3	
108 1,3,5-Trimethylbenzene	105	9.847	9.847	0.000	93	566643	20.0	19.8	
109 4-Chlorotoluene	91	9.881	9.881	0.000	98	482909	20.0	18.6	
110 Butyl Methacrylate	87	9.950	9.950	0.000	98	171266	20.0	17.1	
111 tert-Butylbenzene	119	10.121	10.121	0.000	93	446938	20.0	19.3	
112 1,2,4-Trimethylbenzene	105	10.178	10.178	0.000	98	550424	20.0	19.6	
113 sec-Butylbenzene	105	10.304	10.304	0.000	99	736197	20.0	19.9	
114 4-Isopropyltoluene	119	10.430	10.430	0.000	98	585652	20.0	19.2	
115 1,3-Dichlorobenzene	146	10.441	10.441	0.000	93	261450	20.0	19.2	
* 116 1,4-Dichlorobenzene-d4	152	10.498	10.498	0.000	98	224308	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.521	10.521	0.000	91	269982	20.0	19.3	
118 1,2,3-Trimethylbenzene	105	10.533	10.533	0.000	99	562188	20.0	18.8	
119 Benzyl chloride	126	10.636	10.636	0.000	98	69565	20.0	18.2	
120 2,3-Dihydroindene	117	10.693	10.693	0.000	95	533652	20.0	22.5	
121 p-Diethylbenzene	119	10.750	10.750	0.000	92	307054	20.0	19.5	
122 n-Butylbenzene	92	10.761	10.761	0.000	98	348690	20.0	18.7	
123 1,2-Dichlorobenzene	146	10.819	10.819	0.000	92	244743	20.0	18.4	
124 1,2,4,5-Tetramethylbenzene	119	11.356	11.356	0.000	97	512012	20.0	18.4	
125 1,2-Dibromo-3-Chloropropane	157	11.447	11.447	0.000	90	33027	20.0	16.9	
126 1,3,5-Trichlorobenzene	180	11.561	11.561	0.000	95	183186	20.0	19.0	
127 1,2,4-Trichlorobenzene	180	12.030	12.030	0.000	93	168157	20.0	18.6	
128 Hexachlorobutadiene	225	12.099	12.099	0.000	90	73570	20.0	18.2	
129 Naphthalene	128	12.201	12.201	0.000	99	517941	20.0	17.5	
130 1,2,3-Trichlorobenzene	180	12.384	12.384	0.000	95	162027	20.0	19.0	
S 131 1,2-Dichloroethene, Total	100				0		40.0	41.6	
S 132 1,3-Dichloropropene, Total	100				0		40.0	38.1	
S 133 Xylenes, Total	100				0		40.0	41.2	
S 134 Total BTEX	1				0		100.0	97.4	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260MIX1COMB_00154	Amount Added:	2.00	Units: uL	
524freon_00052	Amount Added:	2.00	Units: uL	
ACROLEIN W_00140	Amount Added:	3.00	Units: uL	
GASES Li_00476	Amount Added:	2.00	Units: uL	
8260SURR250_00226	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00117	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 20-May-2022 09:35:56 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220520-145507.b\V19385.D

Injection Date: 20-May-2022 05:49:30 Instrument ID: CVOAMS7 Operator ID:

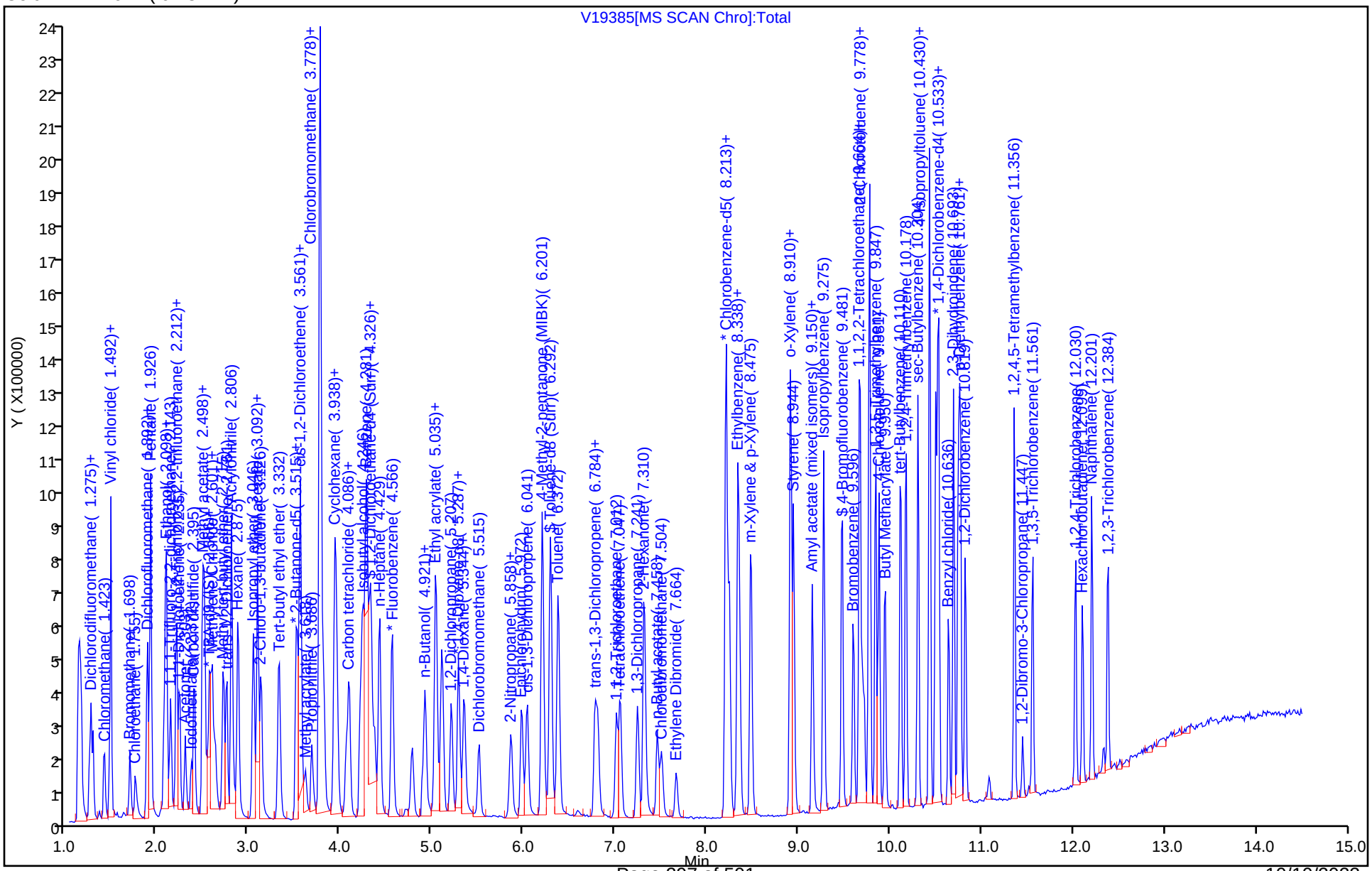
Lims ID: CCVIS Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 1

Method: 8260S_7 Limit Group: VOA - 8260D Water and Solid

Column: DB-624 (0.18 mm)



10/10/2023
12:43 PM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab Sample ID: CCVIS 460-845827/2 Calibration Date: 05/21/2022 08:18

Instrument ID: CVOAMS7 Calib Start Date: 04/22/2022 01:49

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/22/2022 03:43

Lab File ID: V19449.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.6029	0.6805	0.1000	22.6	20.0	12.9	20.0
Chlorodifluoromethane	Ave	0.0924	0.1067		23.1	20.0	15.5	20.0
Chloromethane	Ave	0.8519	0.7833	0.1000	18.4	20.0	-8.1	20.0
Vinyl chloride	Ave	0.7918	0.7820	0.1000	19.8	20.0	-1.2	20.0
Butadiene	Ave	0.7937	0.8103		20.4	20.0	2.1	20.0
Bromomethane	QuaF		0.4082	0.1000	23.7	20.0	18.3	50.0
Chloroethane	Ave	0.4067	0.4087	0.1000	20.1	20.0	0.5	50.0
Dichlorofluoromethane	Ave	0.9678	0.9719		20.1	20.0	0.4	20.0
Trichlorofluoromethane	Ave	0.6326	0.7752	0.1000	24.5	20.0	22.5*	20.0
Pentane	Ave	0.1124	0.1296		46.1	40.0	15.3	20.0
Ethanol	Ave	0.0874	0.0718		657	800	-17.8	50.0
Ethyl ether	Ave	0.5411	0.5275		19.5	20.0	-2.5	20.0
2-Methyl-1,3-butadiene	Ave	0.5813	0.6554		22.6	20.0	12.8	20.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.3713	0.4071		21.9	20.0	9.7	20.0
1,1,1-Trifluoro-2,2-dichloro ethane	Ave	0.7593	0.8133		21.4	20.0	7.1	20.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.4419	0.4972	0.1000	22.5	20.0	12.5	20.0
Acrolein	Ave	1.542	1.843		359	300	19.5	50.0
1,1-Dichloroethene	Ave	0.4592	0.5065	0.1000	22.1	20.0	10.3	20.0
Acetone	Ave	1.532	1.384	0.0500	90.3	100	-9.7	50.0
Iodomethane	Lin2		0.4562		22.1	20.0	10.5	20.0
Isopropyl alcohol	Ave	1.429	1.319		185	200	-7.7	50.0
Carbon disulfide	Ave	2.042	2.117	0.1000	20.7	20.0	3.7	50.0
3-Chloro-1-propene	Ave	1.132	1.349		23.9	20.0	19.3	20.0
Methyl acetate	Ave	0.6632	0.5748	0.1000	34.7	40.0	-13.3	20.0
Acetonitrile	Ave	1.306	1.099		168	200	-15.9	20.0
Methylene Chloride	Ave	0.5968	0.6234	0.1000	20.9	20.0	4.5	20.0
2-Methyl-2-propanol	Ave	2.081	2.293		220	200	10.2	50.0
Methyl tert-butyl ether	Ave	1.717	1.863	0.1000	21.7	20.0	8.5	20.0
trans-1,2-Dichloroethene	Ave	0.5709	0.5984	0.1000	21.0	20.0	4.8	20.0
Acrylonitrile	Ave	6.693	6.189		185	200	-7.5	20.0
Hexane	Ave	1.128	1.151		20.4	20.0	2.0	20.0
Isopropyl ether	Ave	2.399	2.192		18.3	20.0	-8.6	20.0
1,1-Dichloroethane	Ave	1.209	1.226	0.2000	20.3	20.0	1.4	20.0
Vinyl acetate	Ave	0.6939	0.8692		50.1	40.0	25.3*	20.0
2-Chloro-1,3-butadiene	Ave	0.5417	0.5623		20.8	20.0	3.8	20.0
Tert-butyl ethyl ether	Ave	0.7297	0.7574		20.8	20.0	3.8	20.0
2,2-Dichloropropane	Ave	0.2804	0.3099		22.1	20.0	10.5	20.0
2-Butanone (MEK)	Ave	0.5584	0.5573	0.0500	99.8	100	-0.2	50.0
cis-1,2-Dichloroethene	Ave	0.6387	0.6248	0.1000	19.6	20.0	-2.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab Sample ID: CCVIS 460-845827/2 Calibration Date: 05/21/2022 08:18

Instrument ID: CVOAMS7 Calib Start Date: 04/22/2022 01:49

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/22/2022 03:43

Lab File ID: V19449.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethyl acetate	Ave	0.4990	0.5932		47.5	40.0	18.9	20.0
Methyl acrylate	Ave	0.6426	0.5960		18.5	20.0	-7.3	20.0
Propionitrile	Ave	0.6995	0.7089		203	200	1.3	20.0
Chlorobromomethane	Ave	0.2624	0.2606		19.9	20.0	-0.7	20.0
Tetrahydrofuran	Ave	0.6633	0.6689		40.3	40.0	0.8	20.0
Methacrylonitrile	Ave	0.3283	0.3177		194	200	-3.2	20.0
Chloroform	Ave	0.9327	1.027	0.2000	22.0	20.0	10.1	20.0
Cyclohexane	Ave	1.008	1.126	0.1000	22.3	20.0	11.7	50.0
1,1,1-Trichloroethane	Ave	0.7343	0.8798	0.1000	24.0	20.0	19.8	20.0
Carbon tetrachloride	Ave	0.5535	0.6574	0.1000	23.8	20.0	18.8	20.0
1,1-Dichloropropene	Ave	0.8651	0.9495		22.0	20.0	9.8	20.0
Isobutyl alcohol	Ave	0.6248	0.5351		428	500	-14.4	50.0
Benzene	Ave	3.617	3.618	0.5000	20.0	20.0	0.0	20.0
Isopropyl acetate	Ave	2.362	2.274		19.3	20.0	-3.7	20.0
Tert-amyl methyl ether	Ave	2.029	2.028		20.0	20.0	-0.0	20.0
1,2-Dichloroethane	Ave	0.7103	0.8050	0.1000	22.7	20.0	13.3	20.0
n-Heptane	Ave	1.389	1.315		18.9	20.0	-5.3	20.0
n-Butanol	Qua2		0.2274		459	500	-8.3	50.0
Trichloroethene	Ave	0.5728	0.6158	0.2000	21.5	20.0	7.5	20.0
Ethyl acrylate	Ave	1.968	1.925		19.6	20.0	-2.2	20.0
Methylcyclohexane	Ave	1.185	1.236	0.1000	20.9	20.0	4.4	50.0
1,2-Dichloropropane	Ave	0.7371	0.6865	0.1000	18.6	20.0	-6.9	20.0
Methyl methacrylate	Ave	0.1695	0.1677		39.6	40.0	-1.0	20.0
1,4-Dioxane	Ave	2.459	2.422		394	400	-1.5	50.0
n-Propyl acetate	Ave	1.184	1.031		17.4	20.0	-12.9	20.0
Dibromomethane	Ave	0.3492	0.3316		19.0	20.0	-5.0	20.0
Dichlorobromomethane	Ave	0.7171	0.7648	0.2000	21.3	20.0	6.7	20.0
2-Nitropropane	Ave	0.2056	0.2193		42.7	40.0	6.7	20.0
2-Chloroethyl vinyl ether	Ave	0.4191	0.4006		19.2	20.0	-4.4	20.0
Epichlorohydrin	Ave	0.5121	0.5431		424	400	6.1	20.0
cis-1,3-Dichloropropene	Ave	1.428	1.425	0.2000	19.9	20.0	-0.3	50.0
4-Methyl-2-pentanone (MIBK)	Ave	4.445	4.406	0.0500	99.1	100	-0.9	50.0
Toluene	Ave	3.642	3.609	0.4000	19.8	20.0	-0.9	20.0
trans-1,3-Dichloropropene	Ave	1.220	1.275	0.1000	20.9	20.0	4.5	50.0
Ethyl methacrylate	Ave	0.8666	0.8013		18.5	20.0	-7.5	20.0
1,1,2-Trichloroethane	Ave	0.6595	0.6068	0.1000	18.4	20.0	-8.0	20.0
Tetrachloroethene	Ave	0.6383	0.6570	0.2000	20.6	20.0	2.9	20.0
1,3-Dichloropropane	Ave	1.370	1.313		19.2	20.0	-4.2	20.0
2-Hexanone	Ave	3.114	3.022	0.0500	97.0	100	-3.0	50.0
n-Butyl acetate	Ave	0.2558	0.2197		17.2	20.0	-14.1	20.0
Chlorodibromomethane	Ave	0.6043	0.5712	0.1000	18.9	20.0	-5.5	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab Sample ID: CCVIS 460-845827/2 Calibration Date: 05/21/2022 08:18

Instrument ID: CVOAMS7 Calib Start Date: 04/22/2022 01:49

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/22/2022 03:43

Lab File ID: V19449.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	Ave	0.6515	0.6371	0.1000	19.6	20.0	-2.2	20.0
Chlorobenzene	Ave	2.036	2.032	0.5000	20.0	20.0	-0.2	20.0
Ethylbenzene	Ave	1.155	1.081	0.1000	18.7	20.0	-6.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.6138	0.6021		19.6	20.0	-1.9	20.0
m-Xylene & p-Xylene	Ave	1.375	1.401	0.1000	20.4	20.0	1.9	20.0
n-Butyl acrylate	Ave	0.6989	0.6288		18.0	20.0	-10.0	20.0
o-Xylene	Ave	1.357	1.308	0.3000	19.3	20.0	-3.7	20.0
Styrene	Ave	2.339	2.248	0.3000	19.2	20.0	-3.9	20.0
Amyl acetate (mixed isomers)	Ave	3.764	3.287		17.5	20.0	-12.7	20.0
Bromoform	Ave	0.3815	0.3517	0.1000	18.4	20.0	-7.8	20.0
Cumene	Ave	3.502	3.538	0.1000	20.2	20.0	1.0	20.0
Bromobenzene	Ave	1.552	1.455		18.8	20.0	-6.2	20.0
1,1,2,2-Tetrachloroethane	Ave	2.329	2.171	0.3000	18.6	20.0	-6.8	20.0
N-Propylbenzene	Ave	1.998	2.047		20.5	20.0	2.5	20.0
1,2,3-Trichloropropane	Ave	0.5578	0.5674		20.3	20.0	1.7	20.0
trans-1,4-Dichloro-2-butene	Ave	0.7117	0.6942		19.5	20.0	-2.5	20.0
2-Chlorotoluene	Ave	1.605	1.611		20.1	20.0	0.4	20.0
4-Ethyltoluene	Ave	7.448	7.437		20.0	20.0	-0.1	20.0
1,3,5-Trimethylbenzene	Ave	6.366	6.682		21.0	20.0	5.0	20.0
4-Chlorotoluene	Ave	5.774	5.764		20.0	20.0	-0.2	20.0
Butyl Methacrylate	Ave	2.235	2.038		18.2	20.0	-8.8	20.0
tert-Butylbenzene	Ave	5.174	5.067		19.6	20.0	-2.1	20.0
1,2,4-Trimethylbenzene	Ave	6.249	6.285		20.1	20.0	0.6	20.0
sec-Butylbenzene	Ave	8.248	8.215		19.9	20.0	-0.4	20.0
1,3-Dichlorobenzene	Ave	3.038	2.971	0.6000	19.6	20.0	-2.2	20.0
4-Isopropyltoluene	Ave	6.786	6.652		19.6	20.0	-2.0	20.0
1,4-Dichlorobenzene	Ave	3.118	2.934	0.5000	18.8	20.0	-5.9	20.0
1,2,3-Trimethylbenzene	Ave	6.648	6.637		20.0	20.0	-0.2	20.0
Benzyl chloride	Ave	0.8524	0.8246		19.3	20.0	-3.3	50.0
Indan	Ave	2.169	2.123		19.6	20.0	-2.1	20.0
p-Diethylbenzene	Ave	3.517	3.413		19.4	20.0	-3.0	20.0
n-Butylbenzene	Ave	4.161	4.065		19.5	20.0	-2.3	20.0
1,2-Dichlorobenzene	Ave	2.963	2.790	0.4000	18.8	20.0	-5.8	20.0
1,2,4,5-Tetramethylbenzene	Ave	6.189	6.038		19.5	20.0	-2.4	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.4347	0.4064	0.0500	18.7	20.0	-6.5	50.0
1,3,5-Trichlorobenzene	Ave	2.154	2.023		18.8	20.0	-6.1	20.0
1,2,4-Trichlorobenzene	Ave	2.019	1.787	0.2000	17.7	20.0	-11.5	20.0
Hexachlorobutadiene	Ave	0.8993	0.8159		18.1	20.0	-9.3	20.0
Naphthalene	Ave	6.596	5.852		17.7	20.0	-11.3	50.0
1,2,3-Trichlorobenzene	Ave	1.900	1.700		17.9	20.0	-10.5	20.0
Dibromofluoromethane (Surr)	Ave	0.2523	0.2609		51.7	50.0	3.4	20.0

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Lab Sample ID: CCVIS 460-845827/2 Calibration Date: 05/21/2022 08:18

Instrument ID: CVOAMS7 Calib Start Date: 04/22/2022 01:49

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/22/2022 03:43

Lab File ID: V19449.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane-d4 (Surr)	Ave	0.3126	0.3362		53.8	50.0	7.5	20.0
Toluene-d8 (Surr)	Ave	1.685	1.670		49.5	50.0	-0.9	20.0
4-Bromofluorobenzene	Ave	0.8871	0.9708		54.7	50.0	9.4	20.0

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220521-145557.b\V19449.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 21-May-2022 08:18:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0145557-002
Operator ID: Instrument ID: CVOAMS7
Sublist: chrom-8260S_7*sub1

Method: \\chromfs\Edison\ChromData\CVOAMS7\20220521-145557.b\8260S_7.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 23-May-2022 09:33:11 Calib Date: 22-Apr-2022 03:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18072.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1657

First Level Reviewer: delpolitov Date: 23-May-2022 09:33:11

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1	Dichlorodifluoromethane	85	1.275	1.275	0.000	98	162820	20.0	22.6	M
2	Chlorodifluoromethane	67	1.297	1.297	0.000	97	25539	20.0	23.1	
3	Chloromethane	50	1.423	1.423	0.000	99	187406	20.0	18.4	
4	Vinyl chloride	62	1.480	1.480	0.000	98	187105	20.0	19.8	
5	Butadiene	54	1.492	1.492	0.000	98	193881	20.0	20.4	
6	Bromomethane	94	1.697	1.697	0.000	98	97672	20.0	23.7	
7	Chloroethane	64	1.755	1.755	0.000	99	97793	20.0	20.1	
8	Dichlorofluoromethane	67	1.880	1.880	0.000	99	232530	20.0	20.1	
9	Trichlorofluoromethane	101	1.892	1.892	0.000	98	185477	20.0	24.5	
10	Pentane	72	1.926	1.926	0.000	95	62001	40.0	46.1	
11	Ethanol	46	2.040	2.040	0.000	97	30316	800.0	657.3	
12	Ethyl ether	59	2.075	2.075	0.000	95	126215	20.0	19.5	
13	2-Methyl-1,3-butadiene	53	2.086	2.086	0.000	95	156813	20.0	22.6	
14	1,2-Dichloro-1,1,2-trifluoroetha	117	2.097	2.097	0.000	87	97406	20.0	21.9	
15	1,1,1-Trifluoro-2,2-dichloroetha	83	2.143	2.143	0.000	95	194596	20.0	21.4	
16	112TCTFE	101	2.200	2.200	0.000	92	118958	20.0	22.5	
17	Acrolein	56	2.212	2.212	0.000	96	291743	300.0	358.6	
18	1,1-Dichloroethene	96	2.246	2.246	0.000	94	121178	20.0	22.1	
19	Acetone	43	2.303	2.303	0.000	86	262997	100.0	90.3	
21	Iodomethane	142	2.372	2.372	0.000	99	109137	20.0	22.1	
20	Isopropyl alcohol	45	2.372	2.372	0.000	52	139189	200.0	184.6	
22	Carbon disulfide	76	2.406	2.406	0.000	99	506585	20.0	20.7	
23	3-Chloro-1-propene	39	2.498	2.498	0.000	92	322852	20.0	23.9	
25	Acetonitrile	40	2.543	2.498	0.045	94	115942	200.0	168.3	a
24	Methyl acetate	43	2.498	2.498	0.000	91	275056	40.0	34.7	
* 26	TBA-d9 (IS)	65	2.578	2.578	0.000	0	527569	1000.0	1000.0	
27	Methylene Chloride	84	2.600	2.600	0.000	94	149164	20.0	20.9	
28	2-Methyl-2-propanol	59	2.635	2.635	0.000	98	241989	200.0	220.4	
29	Methyl tert-butyl ether	73	2.715	2.715	0.000	97	445746	20.0	21.7	
30	trans-1,2-Dichloroethene	96	2.760	2.760	0.000	97	143166	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
31 Acrylonitrile	53	2.806	2.806	0.000	95	653014	200.0	184.9	
32 Hexane	57	2.875	2.875	0.000	94	275269	20.0	20.4	
33 Isopropyl ether	45	3.046	3.046	0.000	98	524526	20.0	18.3	
34 1,1-Dichloroethane	63	3.092	3.092	0.000	62	293215	20.0	20.3	
35 Vinyl acetate	86	3.092	3.092	0.000	100	66045	40.0	50.1	
36 2-Chloro-1,3-butadiene	88	3.138	3.138	0.000	93	134529	20.0	20.8	
37 Tert-butyl ethyl ether	87	3.332	3.332	0.000	88	181217	20.0	20.8	
* 38 2-Butanone-d5	46	3.515	3.515	0.000	0	474918	250.0	250.0	
39 2,2-Dichloropropane	79	3.526	3.526	0.000	94	74148	20.0	22.1	
40 cis-1,2-Dichloroethene	96	3.560	3.560	0.000	87	149493	20.0	19.6	
42 2-Butanone (MEK)	72	3.560	3.560	0.000	96	105874	100.0	99.8	
41 Ethyl acetate	70	3.560	3.560	0.000	94	45075	40.0	47.5	
43 Methyl acrylate	55	3.618	3.618	0.000	99	142595	20.0	18.5	
44 Propionitrile	54	3.686	3.686	0.000	99	269325	200.0	202.7	
45 Tetrahydrofuran	72	3.766	3.766	0.000	77	50831	40.0	40.3	
46 Chlorobromomethane	128	3.766	3.766	0.000	96	62360	20.0	19.9	
47 Methacrylonitrile	67	3.778	3.778	0.000	93	760148	200.0	193.5	
48 Chloroform	83	3.812	3.812	0.000	98	245793	20.0	22.0	
49 Cyclohexane	84	3.938	3.938	0.000	93	269286	20.0	22.3	
50 1,1,1-Trichloroethane	97	3.949	3.949	0.000	97	210501	20.0	24.0	
$ 51 Dibromofluoromethane (Surr)	113	3.961	3.961	0.000	94	156033	50.0	51.7	
52 Carbon tetrachloride	117	4.063	4.063	0.000	97	157295	20.0	23.8	
53 1,1-Dichloropropene	75	4.098	4.098	0.000	95	227164	20.0	22.0	
54 Isobutyl alcohol	42	4.212	4.212	0.000	95	141152	500.0	428.2	
55 Benzene	78	4.281	4.281	0.000	96	660955	20.0	20.0	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.292	4.292	0.000	0	201099	50.0	53.8	
57 Isopropyl acetate	43	4.326	4.326	0.000	95	544024	20.0	19.3	
58 Tert-amyl methyl ether	73	4.326	4.326	0.000	90	485294	20.0	20.0	
59 1,2-Dichloroethane	62	4.372	4.372	0.000	97	192592	20.0	22.7	
60 n-Heptane	43	4.429	4.429	0.000	93	314516	20.0	18.9	
* 61 Fluorobenzene	96	4.566	4.566	0.000	98	598142	50.0	50.0	
62 n-Butanol	43	4.898	4.898	0.000	84	59977	500.0	458.6	
63 Trichloroethene	95	4.921	4.921	0.000	93	147339	20.0	21.5	
65 Methylcyclohexane	83	5.035	5.035	0.000	81	295817	20.0	20.9	
64 Ethyl acrylate	55	5.035	5.035	0.000	93	460467	20.0	19.6	a
66 1,2-Dichloropropane	63	5.206	5.206	0.000	89	164253	20.0	18.6	
68 Methyl methacrylate	100	5.286	5.286	0.000	94	80257	40.0	39.6	
* 67 1,4-Dioxane-d8	96	5.286	5.286	0.000	0	37797	1000.0	1000.0	
70 n-Propyl acetate	43	5.344	5.344	0.000	99	246666	20.0	17.4	
69 1,4-Dioxane	88	5.344	5.344	0.000	26	36620	400.0	394.0	
71 Dibromomethane	93	5.355	5.355	0.000	94	79341	20.0	19.0	
72 Dichlorobromomethane	83	5.515	5.515	0.000	98	182975	20.0	21.3	
73 2-Nitropropane	41	5.846	5.846	0.000	91	104946	40.0	42.7	
74 2-Chloroethyl vinyl ether	63	5.869	5.869	0.000	84	96087	20.0	19.2	
75 Epichlorohydrin	57	5.972	5.972	0.000	99	412723	400.0	424.2	
76 cis-1,3-Dichloropropene	75	6.041	6.041	0.000	95	260256	20.0	19.9	
77 4-Methyl-2-pentanone (MIBK)	43	6.201	6.201	0.000	97	836958	100.0	99.1	
$ 78 Toluene-d8 (Surr)	98	6.292	6.292	0.000	99	762564	50.0	49.5	
79 Toluene	91	6.372	6.372	0.000	93	659225	20.0	19.8	
80 trans-1,3-Dichloropropene	75	6.784	6.784	0.000	97	232950	20.0	20.9	
81 Ethyl methacrylate	69	6.807	6.807	0.000	74	191721	20.0	18.5	
82 1,1,2-Trichloroethane	83	7.012	7.012	0.000	97	110848	20.0	18.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.058	7.058	0.000	93	120020	20.0	20.6	
84 1,3-Dichloropropane	76	7.241	7.241	0.000	97	239770	20.0	19.2	
85 2-Hexanone	43	7.309	7.309	0.000	98	574078	100.0	97.0	
86 n-Butyl acetate	73	7.458	7.458	0.000	99	40135	20.0	17.2	
87 Chlorodibromomethane	129	7.504	7.504	0.000	95	104342	20.0	18.9	
88 Ethylene Dibromide	107	7.664	7.664	0.000	96	116372	20.0	19.6	
* 89 Chlorobenzene-d5	117	8.212	8.212	0.000	89	456670	50.0	50.0	
90 Chlorobenzene	112	8.247	8.247	0.000	91	371237	20.0	20.0	
91 Ethylbenzene	106	8.338	8.338	0.000	99	197553	20.0	18.7	
92 1,1,1,2-Tetrachloroethane	131	8.361	8.361	0.000	95	109985	20.0	19.6	
93 m-Xylene & p-Xylene	106	8.475	8.475	0.000	98	255864	20.0	20.4	
94 o-Xylene	106	8.910	8.910	0.000	91	238892	20.0	19.3	
95 n-Butyl acrylate	73	8.910	8.910	0.000	95	114863	20.0	18.0	
96 Styrene	104	8.944	8.944	0.000	94	410631	20.0	19.2	
97 Amyl acetate (mixed isomers)	43	9.150	9.150	0.000	91	277769	20.0	17.5	
98 Bromoform	173	9.161	9.161	0.000	91	64248	20.0	18.4	
99 Isopropylbenzene	105	9.275	9.275	0.000	96	646296	20.0	20.2	
$ 100 4-Bromofluorobenzene	174	9.481	9.481	0.000	81	205133	50.0	54.7	
101 Bromobenzene	156	9.595	9.595	0.000	90	122969	20.0	18.8	
102 1,1,2,2-Tetrachloroethane	83	9.664	9.664	0.000	99	183451	20.0	18.6	
103 N-Propylbenzene	120	9.675	9.675	0.000	98	173014	20.0	20.5	
104 1,2,3-Trichloropropane	110	9.698	9.698	0.000	96	47956	20.0	20.3	
105 trans-1,4-Dichloro-2-butene	53	9.721	9.721	0.000	78	58676	20.0	19.5	
106 2-Chlorotoluene	126	9.767	9.767	0.000	95	136185	20.0	20.1	
107 4-Ethyltoluene	105	9.778	9.778	0.000	98	628526	20.0	20.0	
108 1,3,5-Trimethylbenzene	105	9.847	9.847	0.000	92	564752	20.0	21.0	
109 4-Chlorotoluene	91	9.881	9.881	0.000	99	487168	20.0	20.0	
110 Butyl Methacrylate	87	9.950	9.950	0.000	98	172249	20.0	18.2	
111 tert-Butylbenzene	119	10.110	10.110	0.000	92	428226	20.0	19.6	
112 1,2,4-Trimethylbenzene	105	10.178	10.178	0.000	98	531200	20.0	20.1	
113 sec-Butylbenzene	105	10.304	10.304	0.000	99	694286	20.0	19.9	
114 4-Isopropyltoluene	119	10.430	10.430	0.000	97	562214	20.0	19.6	
115 1,3-Dichlorobenzene	146	10.430	10.430	0.000	92	251104	20.0	19.6	
* 116 1,4-Dichlorobenzene-d4	152	10.498	10.498	0.000	96	211294	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.521	10.521	0.000	91	247995	20.0	18.8	
118 1,2,3-Trimethylbenzene	105	10.533	10.533	0.000	99	560974	20.0	20.0	
119 Benzyl chloride	126	10.635	10.635	0.000	98	69693	20.0	19.3	
120 2,3-Dihydroindene	117	10.693	10.693	0.000	95	507962	20.0	19.6	
121 p-Diethylbenzene	119	10.750	10.750	0.000	92	288429	20.0	19.4	
122 n-Butylbenzene	92	10.761	10.761	0.000	96	343547	20.0	19.5	
123 1,2-Dichlorobenzene	146	10.818	10.818	0.000	92	235773	20.0	18.8	
124 1,2,4,5-Tetramethylbenzene	119	11.356	11.356	0.000	96	510288	20.0	19.5	
125 1,2-Dibromo-3-Chloropropane	157	11.447	11.447	0.000	92	34351	20.0	18.7	
126 1,3,5-Trichlorobenzene	180	11.561	11.561	0.000	95	171010	20.0	18.8	
127 1,2,4-Trichlorobenzene	180	12.030	12.030	0.000	94	151060	20.0	17.7	
128 Hexachlorobutadiene	225	12.098	12.098	0.000	89	68955	20.0	18.1	
129 Naphthalene	128	12.201	12.201	0.000	99	494582	20.0	17.7	
130 1,2,3-Trichlorobenzene	180	12.384	12.384	0.000	95	143703	20.0	17.9	
S 131 1,2-Dichloroethene, Total	100				0		40.0	40.5	
S 132 1,3-Dichloropropene, Total	100				0		40.0	40.8	
S 133 Xylenes, Total	100				0		40.0	39.6	
S 134 Total BTEX	1				0		100.0	98.2	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260MIX1COMB_00154	Amount Added:	2.00	Units: uL	
524freon_00052	Amount Added:	2.00	Units: uL	
ACROLEIN W_00140	Amount Added:	3.00	Units: uL	
GASES Li_00476	Amount Added:	2.00	Units: uL	
8260SURR250_00226	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00117	Amount Added:	1.00	Units: uL	Run Reagent

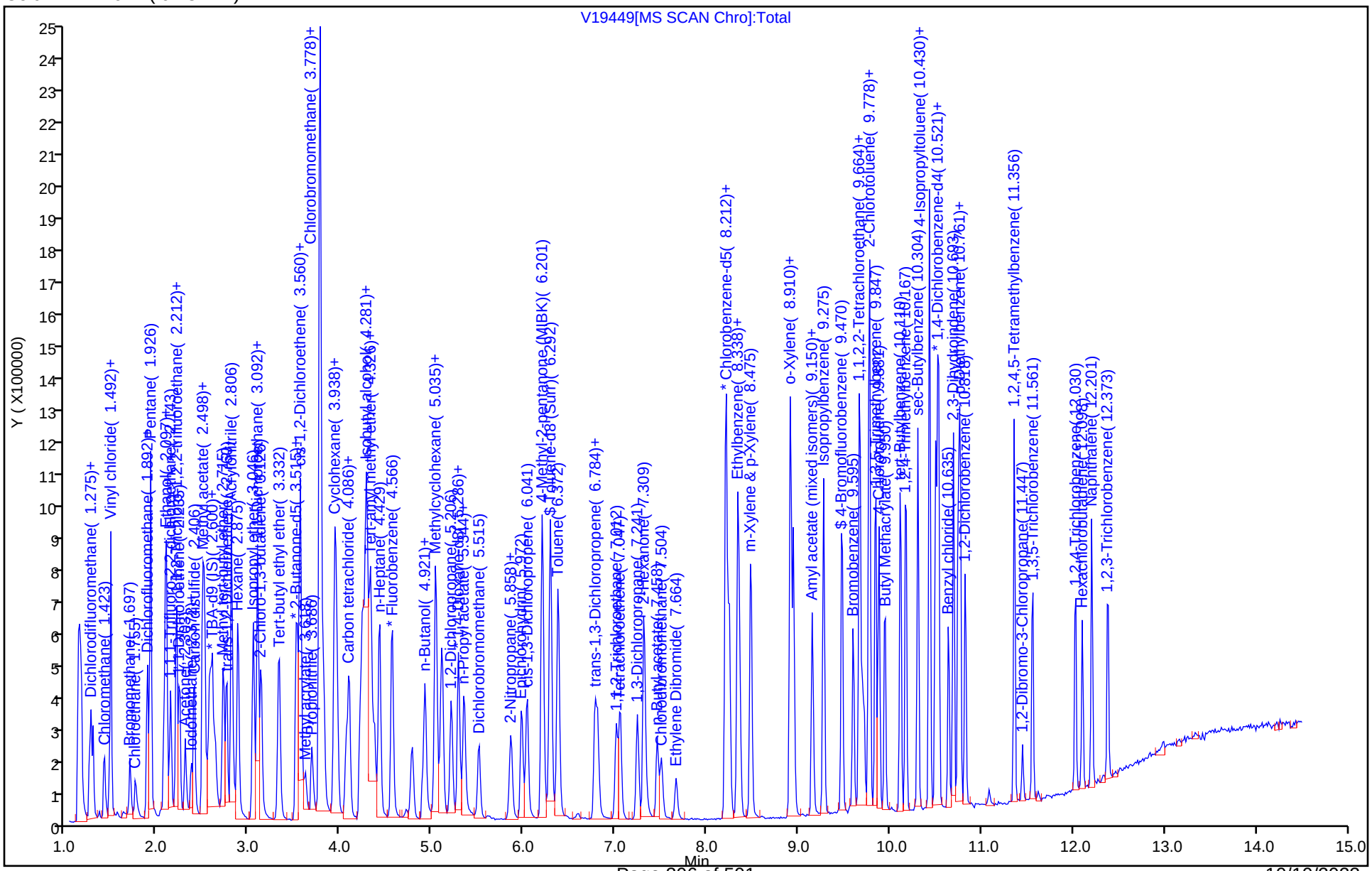
Report Date: 23-May-2022 09:33:12 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220521-145557.b\V19449.D

Injection Date:	21-May-2022 08:18:30	Instrument ID:	CVOAMS7	Operator ID:	
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260S_7	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



10/10/2023
12:43 PM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab Sample ID: CCVIS 460-846050/3 Calibration Date: 05/23/2022 07:23

Instrument ID: CVOAMS7 Calib Start Date: 04/22/2022 01:49

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/22/2022 03:43

Lab File ID: V19567.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.6029	0.6817	0.1000	22.6	20.0	13.1	20.0
Chlorodifluoromethane	Ave	0.0924	0.0846		18.3	20.0	-8.4	20.0
Chloromethane	Ave	0.8519	0.8495	0.1000	19.9	20.0	-0.3	20.0
Vinyl chloride	Ave	0.7918	0.8372	0.1000	21.1	20.0	5.7	20.0
Butadiene	Ave	0.7937	0.8693		21.9	20.0	9.5	20.0
Bromomethane	QuaF		0.4110	0.1000	23.8	20.0	19.1	50.0
Chloroethane	Ave	0.4067	0.4418	0.1000	21.7	20.0	8.6	50.0
Dichlorofluoromethane	Ave	0.9678	1.054		21.8	20.0	8.9	20.0
Trichlorofluoromethane	Ave	0.6326	0.7808	0.1000	24.7	20.0	23.4*	20.0
Pentane	Ave	0.1124	0.1224		43.6	40.0	8.9	20.0
Ethanol	Ave	0.0874	0.0758		693	800	-13.3	50.0
Ethyl ether	Ave	0.5411	0.5448		20.1	20.0	0.7	20.0
2-Methyl-1,3-butadiene	Ave	0.5813	0.6485		22.3	20.0	11.6	20.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.3713	0.3461		18.6	20.0	-6.8	20.0
1,1,1-Trifluoro-2,2-dichloro ethane	Ave	0.7593	0.6930		18.3	20.0	-8.7	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.4419	0.4957	0.1000	22.4	20.0	12.2	20.0
Acrolein	Ave	1.542	1.705		332	300	10.5	50.0
1,1-Dichloroethene	Ave	0.4592	0.4945	0.1000	21.5	20.0	7.7	20.0
Acetone	Ave	1.532	1.371	0.0500	89.5	100	-10.5	50.0
Iodomethane	Lin2		0.4612		22.3	20.0	11.6	20.0
Isopropyl alcohol	Ave	1.429	1.354		189	200	-5.3	50.0
Carbon disulfide	Ave	2.042	2.065	0.1000	20.2	20.0	1.1	50.0
3-Chloro-1-propene	Ave	1.132	1.340		23.7	20.0	18.4	20.0
Methyl acetate	Ave	0.6632	0.5874	0.1000	35.4	40.0	-11.4	20.0
Acetonitrile	Ave	1.306	1.291		198	200	-1.2	20.0
Methylene Chloride	Ave	0.5968	0.5943	0.1000	19.9	20.0	-0.4	20.0
2-Methyl-2-propanol	Ave	2.081	2.082		200	200	0.0	50.0
Methyl tert-butyl ether	Ave	1.717	1.758	0.1000	20.5	20.0	2.4	20.0
trans-1,2-Dichloroethene	Ave	0.5709	0.5868	0.1000	20.6	20.0	2.8	20.0
Acrylonitrile	Ave	6.693	6.709		200	200	0.2	20.0
Hexane	Ave	1.128	1.196		21.2	20.0	6.0	20.0
Isopropyl ether	Ave	2.399	2.270		18.9	20.0	-5.4	20.0
1,1-Dichloroethane	Ave	1.209	1.258	0.2000	20.8	20.0	4.1	20.0
Vinyl acetate	Ave	0.6939	0.7922		45.7	40.0	14.2	20.0
2-Chloro-1,3-butadiene	Ave	0.5417	0.5653		20.9	20.0	4.3	20.0
Tert-butyl ethyl ether	Ave	0.7297	0.7446		20.4	20.0	2.0	20.0
2,2-Dichloropropane	Ave	0.2804	0.3061		21.8	20.0	9.2	20.0
2-Butanone (MEK)	Ave	0.5584	0.5514	0.0500	98.7	100	-1.3	50.0
cis-1,2-Dichloroethene	Ave	0.6387	0.6348	0.1000	19.9	20.0	-0.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab Sample ID: CCVIS 460-846050/3 Calibration Date: 05/23/2022 07:23

Instrument ID: CVOAMS7 Calib Start Date: 04/22/2022 01:49

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/22/2022 03:43

Lab File ID: V19567.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethyl acetate	Ave	0.4990	0.5365		43.0	40.0	7.5	20.0
Methyl acrylate	Ave	0.6426	0.5826		18.1	20.0	-9.3	20.0
Propionitrile	Ave	0.6995	0.6865		196	200	-1.9	20.0
Chlorobromomethane	Ave	0.2624	0.2604		19.8	20.0	-0.8	20.0
Tetrahydrofuran	Ave	0.6633	0.6243		37.6	40.0	-5.9	20.0
Methacrylonitrile	Ave	0.3283	0.3114		190	200	-5.2	20.0
Chloroform	Ave	0.9327	0.996	0.2000	21.4	20.0	6.8	20.0
1,1,1-Trichloroethane	Ave	0.7343	0.8364	0.1000	22.8	20.0	13.9	20.0
Cyclohexane	Ave	1.008	1.064	0.1000	21.1	20.0	5.6	50.0
Carbon tetrachloride	Ave	0.5535	0.6323	0.1000	22.8	20.0	14.2	20.0
1,1-Dichloropropene	Ave	0.8651	0.9075		21.0	20.0	4.9	20.0
Isobutyl alcohol	Ave	0.6248	0.6006		481	500	-3.9	50.0
Benzene	Ave	3.617	3.669	0.5000	20.3	20.0	1.5	20.0
Isopropyl acetate	Ave	2.362	2.217		18.8	20.0	-6.1	20.0
Tert-amyl methyl ether	Ave	2.029	1.986		19.6	20.0	-2.1	20.0
1,2-Dichloroethane	Ave	0.7103	0.8089	0.1000	22.8	20.0	13.9	20.0
n-Heptane	Ave	1.389	1.349		19.4	20.0	-2.9	20.0
n-Butanol	Qua2		0.2544		511	500	2.1	50.0
Trichloroethene	Ave	0.5728	0.5827	0.2000	20.3	20.0	1.7	20.0
Ethyl acrylate	Ave	1.968	1.928		19.6	20.0	-2.0	20.0
Methylcyclohexane	Ave	1.185	1.233	0.1000	20.8	20.0	4.1	50.0
1,2-Dichloropropane	Ave	0.7371	0.7190	0.1000	19.5	20.0	-2.4	20.0
Methyl methacrylate	Ave	0.1695	0.1628		38.4	40.0	-3.9	20.0
1,4-Dioxane	Ave	2.459	2.242		365	400	-8.8	50.0
Dibromomethane	Ave	0.3492	0.3267		18.7	20.0	-6.4	20.0
n-Propyl acetate	Ave	1.184	1.089		18.4	20.0	-8.0	20.0
Dichlorobromomethane	Ave	0.7171	0.7639	0.2000	21.3	20.0	6.5	20.0
2-Nitropropane	Ave	0.2056	0.2208		43.0	40.0	7.4	20.0
2-Chloroethyl vinyl ether	Ave	0.4191	0.4096		19.6	20.0	-2.3	20.0
Epichlorohydrin	Ave	0.5121	0.5148		402	400	0.5	20.0
cis-1,3-Dichloropropene	Ave	1.428	1.467	0.2000	20.5	20.0	2.7	50.0
4-Methyl-2-pentanone (MIBK)	Ave	4.445	4.306	0.0500	96.9	100	-3.1	50.0
Toluene	Ave	3.642	3.572	0.4000	19.6	20.0	-1.9	20.0
trans-1,3-Dichloropropene	Ave	1.220	1.293	0.1000	21.2	20.0	6.0	50.0
Ethyl methacrylate	Ave	0.8666	0.7951		18.3	20.0	-8.3	20.0
1,1,2-Trichloroethane	Ave	0.6595	0.6176	0.1000	18.7	20.0	-6.4	20.0
Tetrachloroethene	Ave	0.6383	0.6107	0.2000	19.1	20.0	-4.3	20.0
1,3-Dichloropropane	Ave	1.370	1.394		20.4	20.0	1.8	20.0
2-Hexanone	Ave	3.114	2.919	0.0500	93.7	100	-6.3	50.0
n-Butyl acetate	Ave	0.2558	0.2128		16.6	20.0	-16.8	20.0
Chlorodibromomethane	Ave	0.6043	0.5908	0.1000	19.6	20.0	-2.2	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab Sample ID: CCVIS 460-846050/3 Calibration Date: 05/23/2022 07:23

Instrument ID: CVOAMS7 Calib Start Date: 04/22/2022 01:49

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/22/2022 03:43

Lab File ID: V19567.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	Ave	0.6515	0.6120	0.1000	18.8	20.0	-6.1	20.0
Chlorobenzene	Ave	2.036	1.997	0.5000	19.6	20.0	-1.9	20.0
Ethylbenzene	Ave	1.155	1.128	0.1000	19.5	20.0	-2.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.6138	0.5999		19.5	20.0	-2.3	20.0
m-Xylene & p-Xylene	Ave	1.375	1.365	0.1000	19.9	20.0	-0.7	20.0
n-Butyl acrylate	Ave	0.6989	0.5789		16.6	20.0	-17.2	20.0
o-Xylene	Ave	1.357	1.307	0.3000	19.3	20.0	-3.7	20.0
Styrene	Ave	2.339	2.245	0.3000	19.2	20.0	-4.0	20.0
Amyl acetate (mixed isomers)	Ave	3.764	3.533		18.8	20.0	-6.1	20.0
Bromoform	Ave	0.3815	0.3490	0.1000	18.3	20.0	-8.5	20.0
Cumene	Ave	3.502	3.537	0.1000	20.2	20.0	1.0	20.0
Bromobenzene	Ave	1.552	1.479		19.1	20.0	-4.7	20.0
1,1,2,2-Tetrachloroethane	Ave	2.329	2.164	0.3000	18.6	20.0	-7.1	20.0
N-Propylbenzene	Ave	1.998	1.987		19.9	20.0	-0.5	20.0
1,2,3-Trichloropropane	Ave	0.5578	0.5591		20.0	20.0	0.2	20.0
trans-1,4-Dichloro-2-butene	Ave	0.7117	0.7230		20.3	20.0	1.6	20.0
2-Chlorotoluene	Ave	1.605	1.592		19.8	20.0	-0.8	20.0
4-Ethyltoluene	Ave	7.448	7.402		19.9	20.0	-0.6	20.0
1,3,5-Trimethylbenzene	Ave	6.366	6.674		21.0	20.0	4.8	20.0
4-Chlorotoluene	Ave	5.774	6.247		21.6	20.0	8.2	20.0
Butyl Methacrylate	Ave	2.235	2.096		18.8	20.0	-6.2	20.0
tert-Butylbenzene	Ave	5.174	5.291		20.5	20.0	2.3	20.0
1,2,4-Trimethylbenzene	Ave	6.249	6.532		20.9	20.0	4.5	20.0
sec-Butylbenzene	Ave	8.248	8.549		20.7	20.0	3.6	20.0
1,3-Dichlorobenzene	Ave	3.038	2.823	0.6000	18.6	20.0	-7.1	20.0
4-Isopropyltoluene	Ave	6.786	6.882		20.3	20.0	1.4	20.0
1,4-Dichlorobenzene	Ave	3.118	2.971	0.5000	19.1	20.0	-4.7	20.0
1,2,3-Trimethylbenzene	Ave	6.648	6.778		20.4	20.0	1.9	20.0
Benzyl chloride	Ave	0.8524	0.7671		18.0	20.0	-10.0	50.0
Indan	Ave	2.169	1.985		18.3	20.0	-8.5	20.0
p-Diethylbenzene	Ave	3.517	3.470		19.7	20.0	-1.3	20.0
n-Butylbenzene	Ave	4.161	4.077		19.6	20.0	-2.0	20.0
1,2-Dichlorobenzene	Ave	2.963	2.777	0.4000	18.7	20.0	-6.3	20.0
1,2,4,5-Tetramethylbenzene	Ave	6.189	6.036		19.5	20.0	-2.5	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.4347	0.3579	0.0500	16.5	20.0	-17.7	50.0
1,3,5-Trichlorobenzene	Ave	2.154	1.998		18.6	20.0	-7.2	20.0
1,2,4-Trichlorobenzene	Ave	2.019	1.829	0.2000	18.1	20.0	-9.4	20.0
Hexachlorobutadiene	Ave	0.8993	0.8543		19.0	20.0	-5.0	20.0
Naphthalene	Ave	6.596	5.936		18.0	20.0	-10.0	50.0
1,2,3-Trichlorobenzene	Ave	1.900	1.748		18.4	20.0	-8.0	20.0
Dibromofluoromethane (Surr)	Ave	0.2523	0.2377		47.1	50.0	-5.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab Sample ID: CCVIS 460-846050/3 Calibration Date: 05/23/2022 07:23

Instrument ID: CVOAMS7 Calib Start Date: 04/22/2022 01:49

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/22/2022 03:43

Lab File ID: V19567.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane-d4 (Surr)	Ave	0.3126	0.3163		50.6	50.0	1.2	20.0
Toluene-d8 (Surr)	Ave	1.685	1.612		47.8	50.0	-4.3	20.0
4-Bromofluorobenzene	Ave	0.8871	0.9137		51.5	50.0	3.0	20.0

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220523-145615.b\V19567.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 23-May-2022 07:23:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0145615-003
Operator ID: Instrument ID: CVOAMS7
Sublist: chrom-8260S_7*sub1

Method: \\chromfs\Edison\ChromData\CVOAMS7\20220523-145615.b\8260S_7.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 23-May-2022 12:19:38 Calib Date: 22-Apr-2022 03:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18072.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1657

First Level Reviewer: tupayachia Date: 23-May-2022 07:45:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.275	1.275	0.000	99	191236	20.0	22.6	
2 Chlorodifluoromethane	67	1.297	1.297	0.000	97	23746	20.0	18.3	
3 Chloromethane	50	1.412	1.412	0.000	99	238299	20.0	19.9	
4 Vinyl chloride	62	1.469	1.469	0.000	98	234847	20.0	21.1	
5 Butadiene	54	1.492	1.492	0.000	98	243855	20.0	21.9	
6 Bromomethane	94	1.697	1.697	0.000	99	115307	20.0	23.8	
7 Chloroethane	64	1.755	1.755	0.000	99	123951	20.0	21.7	
8 Dichlorofluoromethane	67	1.880	1.880	0.000	98	295577	20.0	21.8	
9 Trichlorofluoromethane	101	1.892	1.892	0.000	97	219027	20.0	24.7	
10 Pentane	72	1.926	1.926	0.000	96	68650	40.0	43.6	
11 Ethanol	46	2.029	2.029	0.000	94	38089	800.0	693.5	
12 Ethyl ether	59	2.063	2.063	0.000	94	152822	20.0	20.1	
13 2-Methyl-1,3-butadiene	53	2.086	2.086	0.000	96	181918	20.0	22.3	
14 1,2-Dichloro-1,1,2-trifluoroetha	117	2.098	2.098	0.000	97	97102	20.0	18.6	
15 1,1,1-Trifluoro-2,2-dichloroetha	83	2.143	2.143	0.000	94	194408	20.0	18.3	
16 112TCTFE	101	2.200	2.200	0.000	94	139068	20.0	22.4	
17 Acrolein	56	2.200	2.200	0.000	96	321261	300.0	331.6	
18 1,1-Dichloroethene	96	2.235	2.235	0.000	95	138735	20.0	21.5	
19 Acetone	43	2.303	2.303	0.000	86	317039	100.0	89.5	
21 Iodomethane	142	2.360	2.360	0.000	97	129367	20.0	22.3	
20 Isopropyl alcohol	45	2.372	2.372	0.000	76	170072	200.0	189.4	
22 Carbon disulfide	76	2.395	2.395	0.000	99	579311	20.0	20.2	
23 3-Chloro-1-propene	39	2.486	2.486	0.000	92	375882	20.0	23.7	
24 Methyl acetate	43	2.486	2.486	0.000	97	329567	40.0	35.4	
25 Acetonitrile	40	2.543	2.486	0.057	99	162191	200.0	197.7	a
* 26 TBA-d9 (IS)	65	2.566	2.566	0.000	0	628220	1000.0	1000.0	
27 Methylene Chloride	84	2.600	2.600	0.000	97	166715	20.0	19.9	
28 2-Methyl-2-propanol	59	2.623	2.623	0.000	97	261641	200.0	200.2	
29 Methyl tert-butyl ether	73	2.715	2.715	0.000	98	493103	20.0	20.5	
30 trans-1,2-Dichloroethene	96	2.749	2.749	0.000	98	164619	20.0	20.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	2.806	2.806	0.000	95	842948	200.0	200.5	
32 Hexane	57	2.875	2.875	0.000	93	335517	20.0	21.2	
33 Isopropyl ether	45	3.046	3.046	0.000	98	636674	20.0	18.9	
35 Vinyl acetate	86	3.092	3.092	0.000	100	73273	40.0	45.7	
34 1,1-Dichloroethane	63	3.092	3.092	0.000	64	352806	20.0	20.8	
36 2-Chloro-1,3-butadiene	88	3.126	3.126	0.000	93	158584	20.0	20.9	
37 Tert-butyl ethyl ether	87	3.320	3.320	0.000	87	208895	20.0	20.4	
* 38 2-Butanone-d5	46	3.503	3.503	0.000	0	578049	250.0	250.0	
39 2,2-Dichloropropane	79	3.526	3.526	0.000	96	85863	20.0	21.8	
40 cis-1,2-Dichloroethene	96	3.561	3.561	0.000	89	178086	20.0	19.9	
42 2-Butanone (MEK)	72	3.561	3.561	0.000	96	127487	100.0	98.7	
41 Ethyl acetate	70	3.561	3.561	0.000	95	49621	40.0	43.0	
43 Methyl acrylate	55	3.618	3.618	0.000	99	163432	20.0	18.1	
44 Propionitrile	54	3.686	3.686	0.000	99	317442	200.0	196.3	
45 Tetrahydrofuran	72	3.766	3.766	0.000	82	57741	40.0	37.6	
46 Chlorobromomethane	128	3.766	3.766	0.000	96	73043	20.0	19.8	
47 Methacrylonitrile	67	3.778	3.778	0.000	94	873435	200.0	189.7	
48 Chloroform	83	3.812	3.812	0.000	97	279384	20.0	21.4	
49 Cyclohexane	84	3.938	3.938	0.000	93	298450	20.0	21.1	
50 1,1,1-Trichloroethane	97	3.938	3.938	0.000	97	234635	20.0	22.8	
$ 51 Dibromofluoromethane (Surr)	113	3.961	3.961	0.000	96	166714	50.0	47.1	
52 Carbon tetrachloride	117	4.063	4.063	0.000	96	177388	20.0	22.8	
53 1,1-Dichloropropene	75	4.086	4.086	0.000	94	254583	20.0	21.0	
54 Isobutyl alcohol	42	4.212	4.212	0.000	93	188647	500.0	480.6	
55 Benzene	78	4.281	4.281	0.000	97	756270	20.0	20.3	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.292	4.292	0.000	0	221836	50.0	50.6	
57 Isopropyl acetate	43	4.315	4.315	0.000	96	621957	20.0	18.8	
58 Tert-amyl methyl ether	73	4.326	4.326	0.000	93	557027	20.0	19.6	
59 1,2-Dichloroethane	62	4.372	4.372	0.000	95	226926	20.0	22.8	
60 n-Heptane	43	4.418	4.418	0.000	94	378297	20.0	19.4	
* 61 Fluorobenzene	96	4.555	4.555	0.000	98	701327	50.0	50.0	
62 n-Butanol	43	4.898	4.898	0.000	88	79897	500.0	510.5	
63 Trichloroethene	95	4.921	4.921	0.000	93	163471	20.0	20.3	
64 Ethyl acrylate	55	5.035	5.035	0.000	93	540934	20.0	19.6	a
65 Methylcyclohexane	83	5.035	5.035	0.000	81	345855	20.0	20.8	
66 1,2-Dichloropropane	63	5.206	5.206	0.000	90	201710	20.0	19.5	
* 67 1,4-Dioxane-d8	96	5.275	5.275	0.000	0	51454	1000.0	1000.0	a
68 Methyl methacrylate	100	5.286	5.286	0.000	94	91348	40.0	38.4	
69 1,4-Dioxane	88	5.332	5.332	0.000	28	46139	400.0	364.6	
70 n-Propyl acetate	43	5.344	5.344	0.000	99	305624	20.0	18.4	
71 Dibromomethane	93	5.344	5.344	0.000	47	91659	20.0	18.7	
72 Dichlorobromomethane	83	5.504	5.504	0.000	98	214293	20.0	21.3	
73 2-Nitropropane	41	5.846	5.846	0.000	90	123855	40.0	43.0	
74 2-Chloroethyl vinyl ether	63	5.869	5.869	0.000	88	115185	20.0	19.6	
75 Epichlorohydrin	57	5.972	5.972	0.000	99	476107	400.0	402.1	
76 cis-1,3-Dichloropropene	75	6.029	6.029	0.000	95	302367	20.0	20.5	
77 4-Methyl-2-pentanone (MIBK)	43	6.201	6.201	0.000	97	995632	100.0	96.9	
$ 78 Toluene-d8 (Surr)	98	6.292	6.292	0.000	98	830684	50.0	47.8	
79 Toluene	91	6.372	6.372	0.000	94	736255	20.0	19.6	
80 trans-1,3-Dichloropropene	75	6.772	6.772	0.000	97	266508	20.0	21.2	
81 Ethyl methacrylate	69	6.807	6.807	0.000	74	223044	20.0	18.3	
82 1,1,2-Trichloroethane	83	7.012	7.012	0.000	96	127276	20.0	18.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.047	7.047	0.000	91	125864	20.0	19.1	
84 1,3-Dichloropropane	76	7.241	7.241	0.000	95	287289	20.0	20.4	
85 2-Hexanone	43	7.309	7.309	0.000	97	674983	100.0	93.7	
86 n-Butyl acetate	73	7.458	7.458	0.000	98	43863	20.0	16.6	
87 Chlorodibromomethane	129	7.504	7.504	0.000	97	121764	20.0	19.6	
88 Ethylene Dibromide	107	7.664	7.664	0.000	96	126130	20.0	18.8	
* 89 Chlorobenzene-d5	117	8.212	8.212	0.000	91	515242	50.0	50.0	
90 Chlorobenzene	112	8.247	8.247	0.000	92	411551	20.0	19.6	
91 Ethylbenzene	106	8.338	8.338	0.000	99	232447	20.0	19.5	
92 1,1,1,2-Tetrachloroethane	131	8.361	8.361	0.000	95	123629	20.0	19.5	
93 m-Xylene & p-Xylene	106	8.475	8.475	0.000	98	281376	20.0	19.9	
94 o-Xylene	106	8.910	8.910	0.000	92	269382	20.0	19.3	
95 n-Butyl acrylate	73	8.910	8.910	0.000	97	119310	20.0	16.6	
96 Styrene	104	8.944	8.944	0.000	93	462743	20.0	19.2	
97 Amyl acetate (mixed isomers)	43	9.150	9.150	0.000	92	324957	20.0	18.8	
98 Bromoform	173	9.161	9.161	0.000	94	71919	20.0	18.3	
99 Isopropylbenzene	105	9.275	9.275	0.000	96	728990	20.0	20.2	
$ 100 4-Bromofluorobenzene	174	9.470	9.470	0.000	79	210081	50.0	51.5	
101 Bromobenzene	156	9.595	9.595	0.000	91	136022	20.0	19.1	
102 1,1,2,2-Tetrachloroethane	83	9.664	9.664	0.000	99	199042	20.0	18.6	
103 N-Propylbenzene	120	9.675	9.675	0.000	98	182745	20.0	19.9	
104 1,2,3-Trichloropropane	110	9.698	9.698	0.000	96	51419	20.0	20.0	
105 trans-1,4-Dichloro-2-butene	53	9.721	9.721	0.000	82	66495	20.0	20.3	
106 2-Chlorotoluene	126	9.767	9.767	0.000	96	146457	20.0	19.8	
107 4-Ethyltoluene	105	9.778	9.778	0.000	98	680778	20.0	19.9	
108 1,3,5-Trimethylbenzene	105	9.847	9.847	0.000	92	613775	20.0	21.0	
109 4-Chlorotoluene	91	9.881	9.881	0.000	98	574566	20.0	21.6	
110 Butyl Methacrylate	87	9.938	9.938	0.000	98	192808	20.0	18.8	
111 tert-Butylbenzene	119	10.110	10.110	0.000	93	486633	20.0	20.5	
112 1,2,4-Trimethylbenzene	105	10.167	10.167	0.000	98	600761	20.0	20.9	
113 sec-Butylbenzene	105	10.304	10.304	0.000	99	786256	20.0	20.7	
114 4-Isopropyltoluene	119	10.430	10.430	0.000	97	632945	20.0	20.3	
115 1,3-Dichlorobenzene	146	10.430	10.430	0.000	89	259628	20.0	18.6	
* 116 1,4-Dichlorobenzene-d4	152	10.498	10.498	0.000	96	229920	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.521	10.521	0.000	90	273253	20.0	19.1	
118 1,2,3-Trimethylbenzene	105	10.533	10.533	0.000	99	623336	20.0	20.4	
119 Benzyl chloride	126	10.636	10.636	0.000	97	70553	20.0	18.0	
120 2,3-Dihydroindene	117	10.693	10.693	0.000	94	556725	20.0	18.3	
121 p-Diethylbenzene	119	10.750	10.750	0.000	94	319141	20.0	19.7	
122 n-Butylbenzene	92	10.761	10.761	0.000	97	374931	20.0	19.6	
123 1,2-Dichlorobenzene	146	10.818	10.818	0.000	92	255385	20.0	18.7	
124 1,2,4,5-Tetramethylbenzene	119	11.356	11.356	0.000	96	555091	20.0	19.5	
125 1,2-Dibromo-3-Chloropropane	157	11.447	11.447	0.000	88	32913	20.0	16.5	
126 1,3,5-Trichlorobenzene	180	11.561	11.561	0.000	94	183774	20.0	18.6	
127 1,2,4-Trichlorobenzene	180	12.030	12.030	0.000	94	168249	20.0	18.1	
128 Hexachlorobutadiene	225	12.099	12.099	0.000	89	78568	20.0	19.0	
129 Naphthalene	128	12.201	12.201	0.000	98	545925	20.0	18.0	
130 1,2,3-Trichlorobenzene	180	12.373	12.373	0.000	94	160765	20.0	18.4	
S 131 1,2-Dichloroethene, Total	100				0		40.0	40.4	
S 132 1,3-Dichloropropene, Total	100				0		40.0	41.7	
S 133 Xylenes, Total	100				0		40.0	39.1	
S 134 Total BTEX	1				0		100.0	98.6	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260MIX1COMB_00154	Amount Added:	2.00	Units: uL	
524freon_00052	Amount Added:	2.00	Units: uL	
ACROLEIN W_00140	Amount Added:	3.00	Units: uL	
GASES Li_00476	Amount Added:	2.00	Units: uL	
8260SURR250_00226	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00117	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 23-May-2022 12:19:39 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220523-145615.b\V19567.D

Injection Date: 23-May-2022 07:23:30 Instrument ID: CVOAMS7 Operator ID:

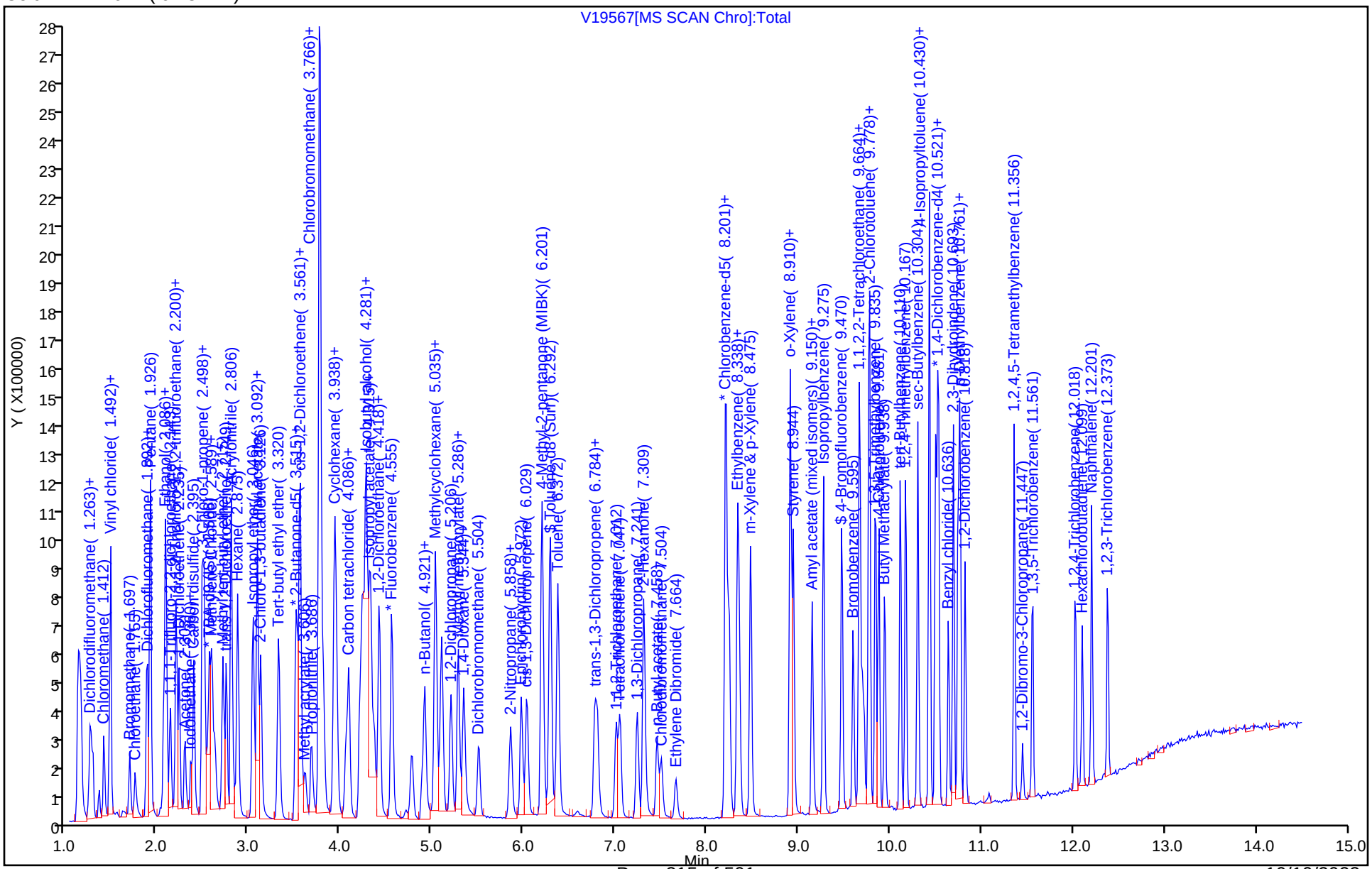
Lims ID: CCVIS Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8260S_7 Limit Group: VOA - 8260D Water and Solid

Column: DB-624 (0.18 mm)



Eurofins Edison
Target Compound Quantitation Report

Data File:	\\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\O76595.d				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	12-May-2022 03:12:30	ALS Bottle#:	99	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	460-0145170-001				
Operator ID:		Instrument ID:	CVOAMS12		
Method:	\\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\8260W_12.m				
Limit Group:	VOA - 8260D Water and Solid				
Last Update:	13-May-2022 09:41:20	Calib Date:	12-May-2022 06:25:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\O76603.d				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1660				
First Level Reviewer: boykink		Date:	12-May-2022 03:22:13		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

$ 140 BFB

QC Flag Legend

Processing Flags

Reagents:

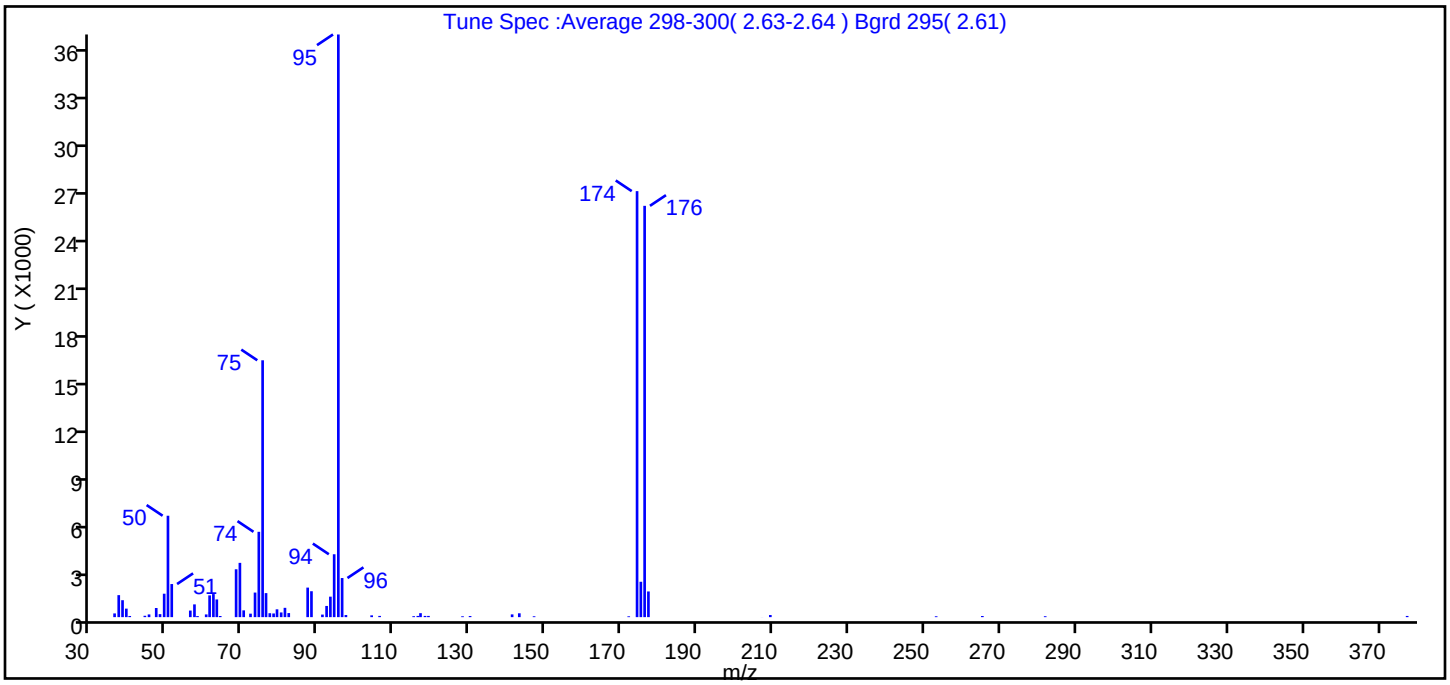
BFB_00031	Amount Added:	1.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent

MS Tune Report

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\O76595.d
Injection Date: 12-May-2022 03:12:30 Instrument ID: CVOAMS12
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260W_12 Limit Group: VOA - 8260D Water and Solid
Tune Method: BFB Method 8260D

$ 140 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	50 to 200% of m/z 174	100.0 (136.8)
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	73.1
175	5 to 9% of m/z 174	6.1 (8.3)
176	95 to 105% of m/z 174	70.6 (96.5)
177	5 to 10% of m/z 176	4.4 (6.2)

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\O76595.d\8260W_12.rslt\spectra.d
Injection Date: 12-May-2022 03:12:30
Spectrum: Tune Spec :Average 298-300(2.63-2.64) Bgrd 295(2.61)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 66

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	231	62.00	1431	87.00	1833	130.00	69
37.00	1365	63.00	1098	88.00	1608	141.00	171
38.00	1051	64.00	71	91.00	159	143.00	239
39.00	528	68.00	2970	92.00	695	147.00	53
40.00	72	69.00	3368	93.00	1271	172.00	51
44.00	85	70.00	421	94.00	3902	174.00	26432
45.00	168	72.00	216	95.00	36152	175.00	2195
47.00	567	73.00	1525	96.00	2427	176.00	25520
48.00	187	74.00	5295	97.00	131	177.00	1594
49.00	1454	75.00	15937	104.00	111	207.00	3
50.00	6292	76.00	1491	106.00	77	209.00	131
51.00	2054	77.00	244	115.00	59	253.00	54
56.00	408	78.00	228	116.00	76	265.00	70
57.00	792	79.00	486	117.00	247	282.00	56
58.00	66	80.00	291	118.00	76	377.00	74
60.00	169	81.00	578	119.00	76		
61.00	1350	82.00	253	128.00	53		

Eurofins Edison
Target Compound Quantitation Report

Data File:	\\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\O76983.d				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	22-May-2022 07:56:30	ALS Bottle#:	99	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	460-0145578-001				
Operator ID:		Instrument ID:	CVOAMS12		
Method:	\\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\8260W_12.m				
Limit Group:	VOA - 8260D Water and Solid				
Last Update:	23-May-2022 17:16:56	Calib Date:	22-May-2022 11:15:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\O76991.d				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1620				
First Level Reviewer: tupayachia		Date:	22-May-2022 08:22:15		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 65 Fluorobenzene	96	3.966	3.966	0.000	15	492	50.0	50.0	s
$ 140 BFB									

QC Flag Legend

Processing Flags
s - Failed ISTD Recovery Test

Reagents:

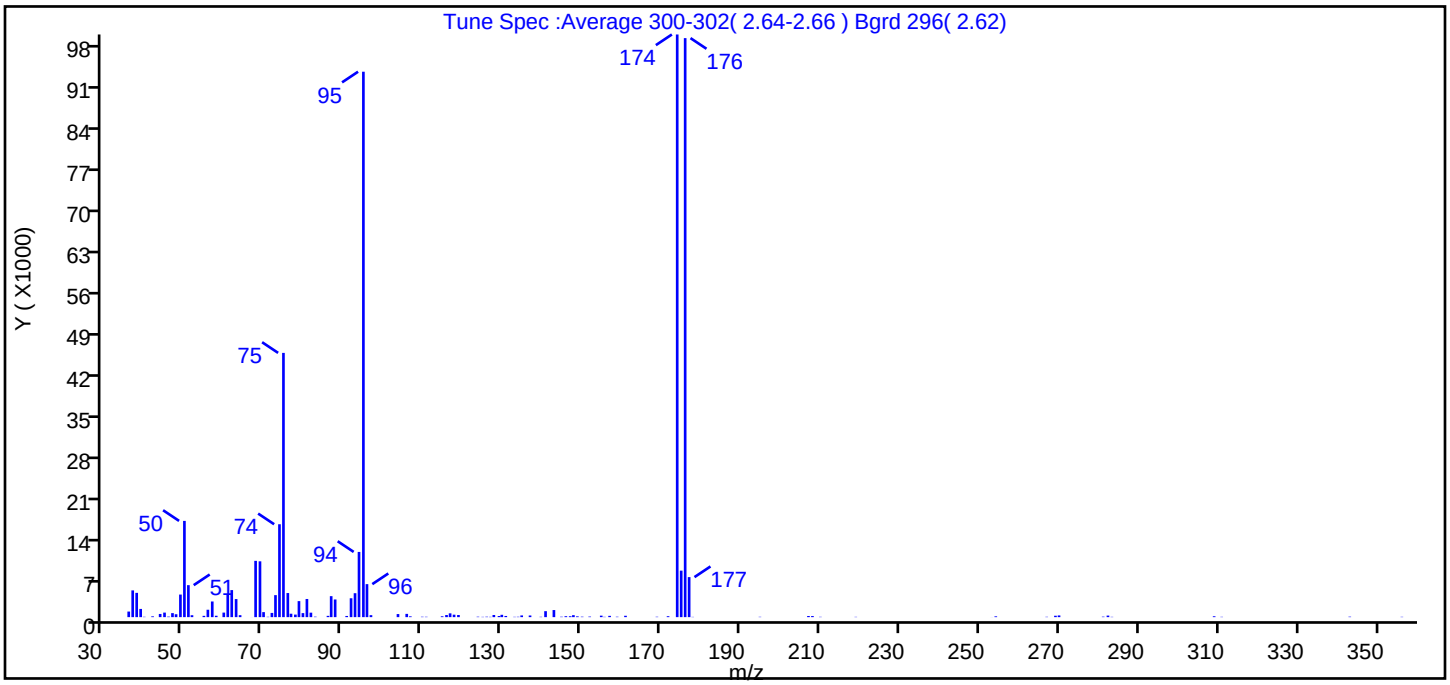
BFB_00031	Amount Added:	1.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent

MS Tune Report

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\O76983.d
Injection Date: 22-May-2022 07:56:30 Instrument ID: CVOAMS12
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260W_12 Limit Group: VOA - 8260D Water and Solid
Tune Method: BFB Method 8260D

$ 140 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	50 to 200% of m/z 174	100.0 (93.6)
96	5 to 9% of m/z 95	6.1
173	<2% of m/z 174	0.0 (0.0)
174	50 to 200% of m/z 95	106.8
175	5 to 9% of m/z 174	8.5 (8.0)
176	95 to 105% of m/z 174	106.2 (99.4)
177	5 to 10% of m/z 176	7.3 (6.9)

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\O76983.d\8260W_12.rslt\spectra.d
Injection Date: 22-May-2022 07:56:30
Spectrum: Tune Spec :Average 300-302(2.64-2.66) Bgrd 296(2.62)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 112

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	957	71.00	60	115.00	145	156.00	52
37.00	4580	72.00	723	116.00	361	157.00	222
38.00	4158	73.00	3769	117.00	652	159.00	72
39.00	1408	74.00	15907	118.00	421	161.00	235
40.00	61	75.00	45248	119.00	365	169.00	68
42.00	138	76.00	4128	124.00	77	172.00	159
44.00	545	77.00	586	125.00	50	174.00	99768
45.00	778	78.00	439	126.00	75	175.00	7963
46.00	92	79.00	2744	127.00	51	176.00	99144
47.00	688	80.00	689	128.00	366	177.00	6854
48.00	497	81.00	3110	129.00	191	178.00	43
49.00	3868	82.00	766	130.00	400	195.00	58
50.00	16480	83.00	79	131.00	201	207.00	191
51.00	5477	86.00	220	133.00	54	208.00	185
52.00	329	87.00	3593	134.00	65	210.00	55
55.00	222	88.00	3026	135.00	293	219.00	50
56.00	1268	91.00	202	137.00	283	253.00	7
57.00	2681	92.00	3234	140.00	59	254.00	137
58.00	239	93.00	4100	141.00	1022	267.00	59
60.00	778	94.00	11167	143.00	1214	269.00	241
61.00	3814	95.00	93392	145.00	73	270.00	291
62.00	4633	96.00	5652	146.00	160	281.00	83
63.00	3095	97.00	339	147.00	152	282.00	267
64.00	336	104.00	528	148.00	339	283.00	52
67.00	6	106.00	560	149.00	133	309.00	148
68.00	9638	107.00	137	150.00	79	311.00	55
69.00	9559	110.00	69	152.00	97	343.00	81
70.00	861	111.00	63	155.00	254	356.00	56

Eurofins Edison
Target Compound Quantitation Report

Data File:	\\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18065.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	22-Apr-2022 01:10:30	ALS Bottle#:	99	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	460-0144336-001				
Operator ID:		Instrument ID:	CVOAMS7		
Method:	\\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\8260S_7.m				
Limit Group:	VOA - 8260D Water and Solid				
Last Update:	22-Apr-2022 09:55:48	Calib Date:	22-Apr-2022 03:43:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18072.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1607				
First Level Reviewer: boykink		Date:	22-Apr-2022 01:22:11		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 135 BFB	95	2.514	2.514	0.000	77	114690	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_00031 Amount Added: 1.00 Units: uL

Manual Integration/User Assign Peak Report

Eurofins Edison

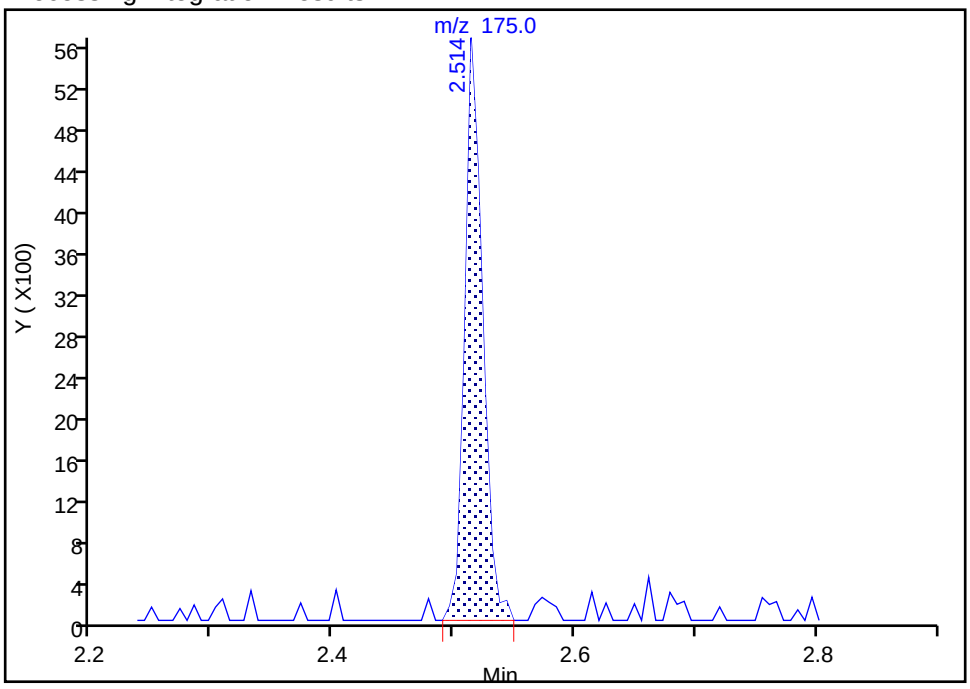
Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18065.D
Injection Date: 22-Apr-2022 01:10:30 Instrument ID: CVOAMS7
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260S_7 Limit Group: VOA - 8260D Water and Solid
Column: DB-624 (0.18 mm) Detector MS SCAN

$ 135 BFB, CAS: 460-00-4

Signal: 7

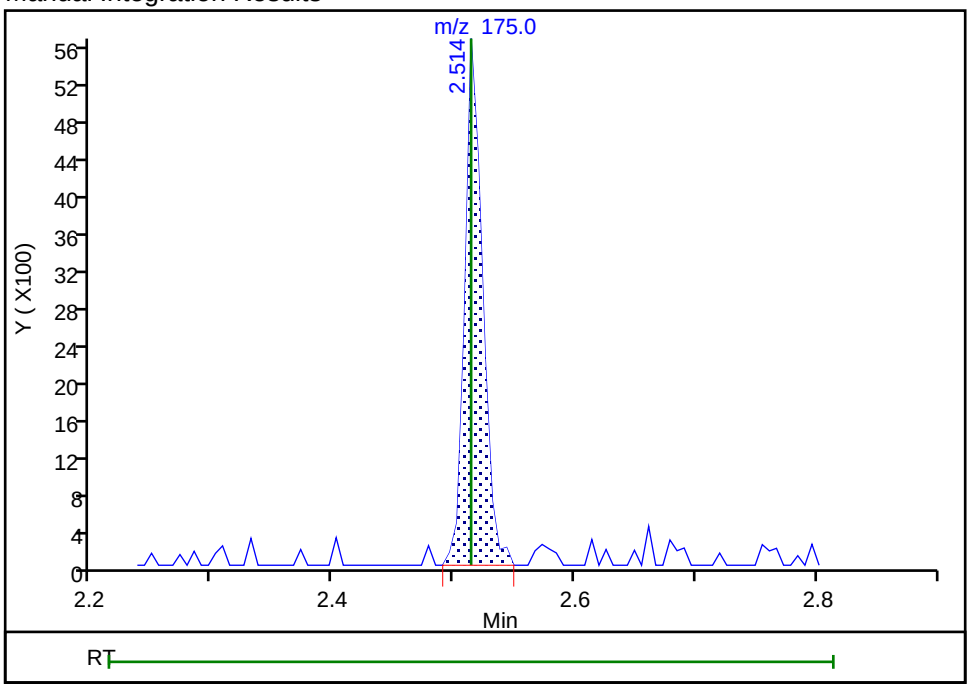
Processing Integration Results

RT: 2.51
Area: 5750
Amount: 0
Amount Units: ug/l



Manual Integration Results

RT: 2.51
Area: 5750
Amount: 0
Amount Units: ug/l



Reviewer: boykink, 22-Apr-2022 01:21:52
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Edison

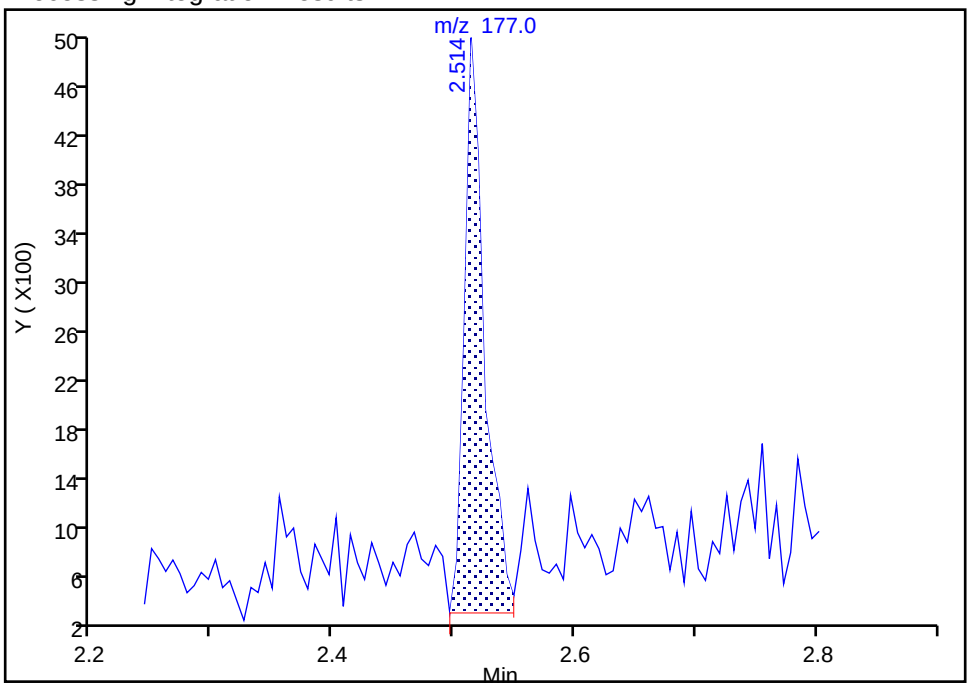
Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18065.D
Injection Date: 22-Apr-2022 01:10:30 Instrument ID: CVOAMS7
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260S_7 Limit Group: VOA - 8260D Water and Solid
Column: DB-624 (0.18 mm) Detector MS SCAN

$ 135 BFB, CAS: 460-00-4

Signal: 9

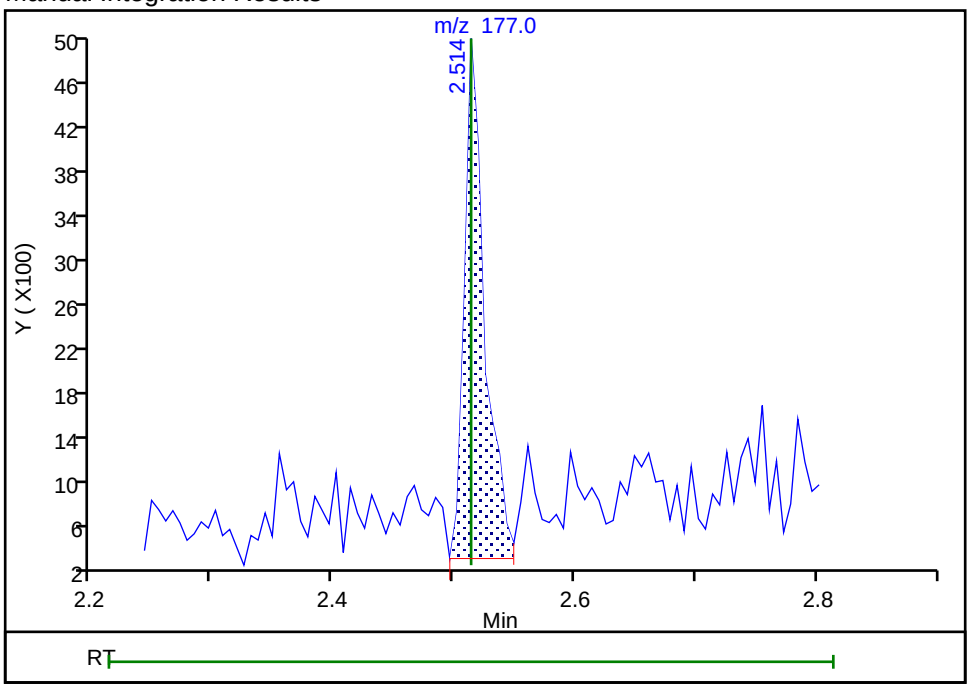
Processing Integration Results

RT: 2.51
Area: 5450
Amount: 0
Amount Units: ug/l



Manual Integration Results

RT: 2.51
Area: 5450
Amount: 0
Amount Units: ug/l



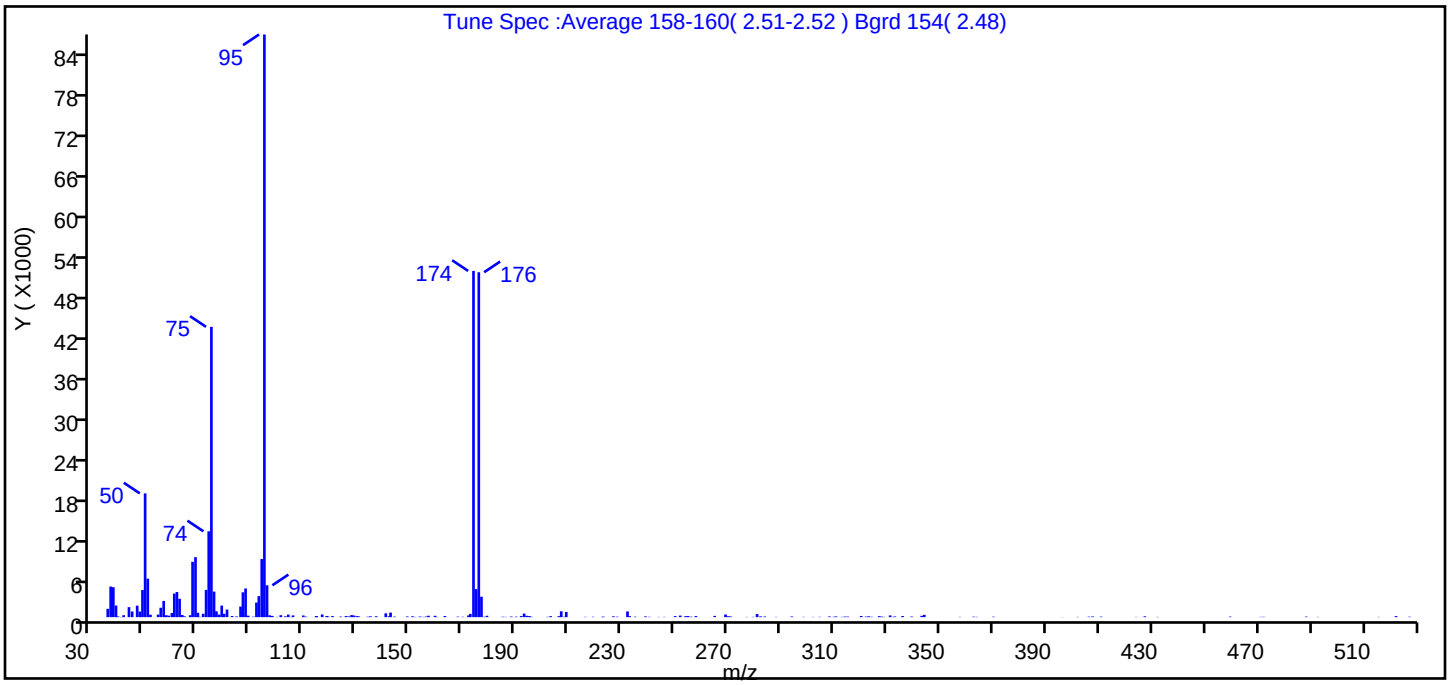
Reviewer: boykink, 22-Apr-2022 01:21:52
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

MS Tune Report

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18065.D
Injection Date: 22-Apr-2022 01:10:30 Instrument ID: CVOAMS7
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260S_7 Limit Group: VOA - 8260D Water and Solid
Tune Method: BFB Method 8260

$ 135 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.2
75	30 to 60% of m/z 95	49.8
96	5 to 9% of m/z 95	5.5
173	Less than 2% of m/z 174	0.6 (0.9)
174	50 to 120% of m/z 95	59.4
175	5 to 9% of m/z 174	4.8 (8.1)
176	Greater than 95% but less than 101% of m/z 174	59.2 (99.6)
177	5 to 9% of m/z 176	3.5 (5.9)

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18065.D\8260S_7.rslt\spectra.d
Injection Date: 22-Apr-2022 01:10:30
Spectrum: Tune Spec :Average 158-160(2.51-2.52) Bgrd 154(2.48)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 195

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1228	93.00	3113	174.00	51256	282.00	117
37.00	4526	94.00	8604	175.00	4153	283.00	8
38.00	4433	95.00	86264	176.00	51064	284.00	96
39.00	1720	96.00	4717	177.00	3015	288.00	40
40.00	101	97.00	272	178.00	57	294.00	101
41.00	35	98.00	183	179.00	202	298.00	43
42.00	288	100.00	40	185.00	58	302.00	35
44.00	1479	101.00	288	186.00	42	305.00	47
45.00	837	103.00	120	188.00	88	308.00	103
47.00	1702	104.00	379	189.00	12	310.00	56
48.00	825	105.00	30	190.00	74	311.00	104
49.00	4013	106.00	254	192.00	158	313.00	40
50.00	18320	110.00	243	193.00	524	314.00	89
51.00	5695	111.00	71	194.00	199	315.00	81
52.00	363	115.00	141	195.00	163	320.00	175
55.00	380	115.00	165	196.00	48	322.00	79
56.00	1392	117.00	394	202.00	47	323.00	126
57.00	2401	119.00	162	203.00	146	324.00	57
58.00	279	119.00	96	206.00	147	327.00	147
59.00	221	121.00	157	207.00	873	328.00	77
60.00	609	124.00	87	208.00	54	329.00	39
61.00	3491	126.00	165	209.00	761	331.00	254
62.00	3721	127.00	112	216.00	43	332.00	36
63.00	2712	128.00	304	219.00	56	333.00	100
64.00	323	129.00	241	223.00	34	336.00	165
65.00	117	130.00	148	223.00	75	339.00	90
67.00	282	131.00	107	227.00	122	343.00	203
68.00	8197	134.00	65	228.00	66	344.00	337
69.00	8880	135.00	121	232.00	843	358.00	40
70.00	644	137.00	132	233.00	150	363.00	69
71.00	44	141.00	564	235.00	73	364.00	41
72.00	500	142.00	126	239.00	112	370.00	68
73.00	4029	143.00	673	240.00	48	396.00	22

Report Date: 22-Apr-2022 09:55:49 Chrom Revision: 2.3 12-Apr-2022 20:29:44
Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18065.D\8260S_7.rslt\spectra.d
Injection Date: 22-Apr-2022 01:10:30
Spectrum: Tune Spec :Average 158-160(2.51-2.52) Bgrd 154(2.48)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 195

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	12705	144.00	82	244.00	35	402.00	36
75.00	42976	149.00	98	246.00	40	406.00	72
76.00	3783	151.00	123	250.00	154	408.00	99
77.00	861	152.00	38	252.00	228	411.00	76
78.00	385	154.00	93	254.00	144	424.00	34
79.00	1710	155.00	41	255.00	170	427.00	122
80.00	502	156.00	85	256.00	71	432.00	36
81.00	1122	157.00	208	258.00	159	460.00	81
83.00	164	160.00	198	263.00	12	471.00	39
85.00	100	160.00	33	265.00	184	472.00	52
86.00	1567	163.00	165	269.00	389	488.00	83
87.00	3674	164.00	2	270.00	134	493.00	37
88.00	4246	168.00	76	271.00	99	516.00	38
89.00	218	170.00	52	277.00	36	522.00	155
91.00	69	172.00	253	280.00	42	527.00	63
92.00	2159	173.00	484	281.00	455		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison | Job No.: 460-258307-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-845588/9

Matrix: Solid | Lab File ID: O76955.d

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 05/20/2022 08:47

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 50

Soil Extract Vol.: 5(mL) | GC Column: DB-624 ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Medium

Analysis Batch No.: 845588 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	10	U	50	10

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	83		68-150
460-00-4	4-Bromofluorobenzene	99		70-150
1868-53-7	Dibromofluoromethane (Surr)	99		68-150
2037-26-5	Toluene-d8 (Surr)	93		80-147

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220520-145506.b\O76955.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 20-May-2022 08:47:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: MB
Misc. Info.: 460-0145506-009
Operator ID: Instrument ID: CVOAMS12

Method: \\chromfs\Edison\ChromData\CVOAMS12\20220520-145506.b\8260W_12.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 23-May-2022 15:33:11 Calib Date: 12-May-2022 06:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\O76603.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1657

First Level Reviewer: starzecm Date: 20-May-2022 14:12:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 31 TBA-d9 (IS)	65	2.055	2.055	0.001	99	135931	1000.0	1000.0	
* 43 2-Butanone-d5	46	2.911	2.911	0.000	100	173708	250.0	250.0	
$ 53 Dibromofluoromethane (Surr)	113	3.356	3.345	0.011	98	128176	50.0	49.3	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	3.642	3.641	0.001	0	117687	50.0	41.5	
* 65 Fluorobenzene	96	3.973	3.973	0.000	100	594260	50.0	50.0	
* 72 1,4-Dioxane-d8	96	4.681	4.680	0.001	0	27943	1000.0	1000.0	
$ 83 Toluene-d8 (Surr)	98	5.731	5.731	0.000	99	608331	50.0	46.3	
* 94 Chlorobenzene-d5	117	7.649	7.649	0.000	83	448394	50.0	50.0	
$ 105 4-Bromofluorobenzene	174	9.476	9.475	0.001	91	163543	50.0	49.7	
* 120 1,4-Dichlorobenzene-d4	152	11.325	11.325	0.000	93	242322	50.0	50.0	
133 Hexachlorobutadiene	225	13.140	13.129	0.011	86	1278		1.09	

QC Flag Legend
Processing Flags

Reagents:
8260SURR250_00226 Amount Added: 1.00 Units: uL
8260ISNEW_00129 Amount Added: 1.00 Units: uL Run Reagent

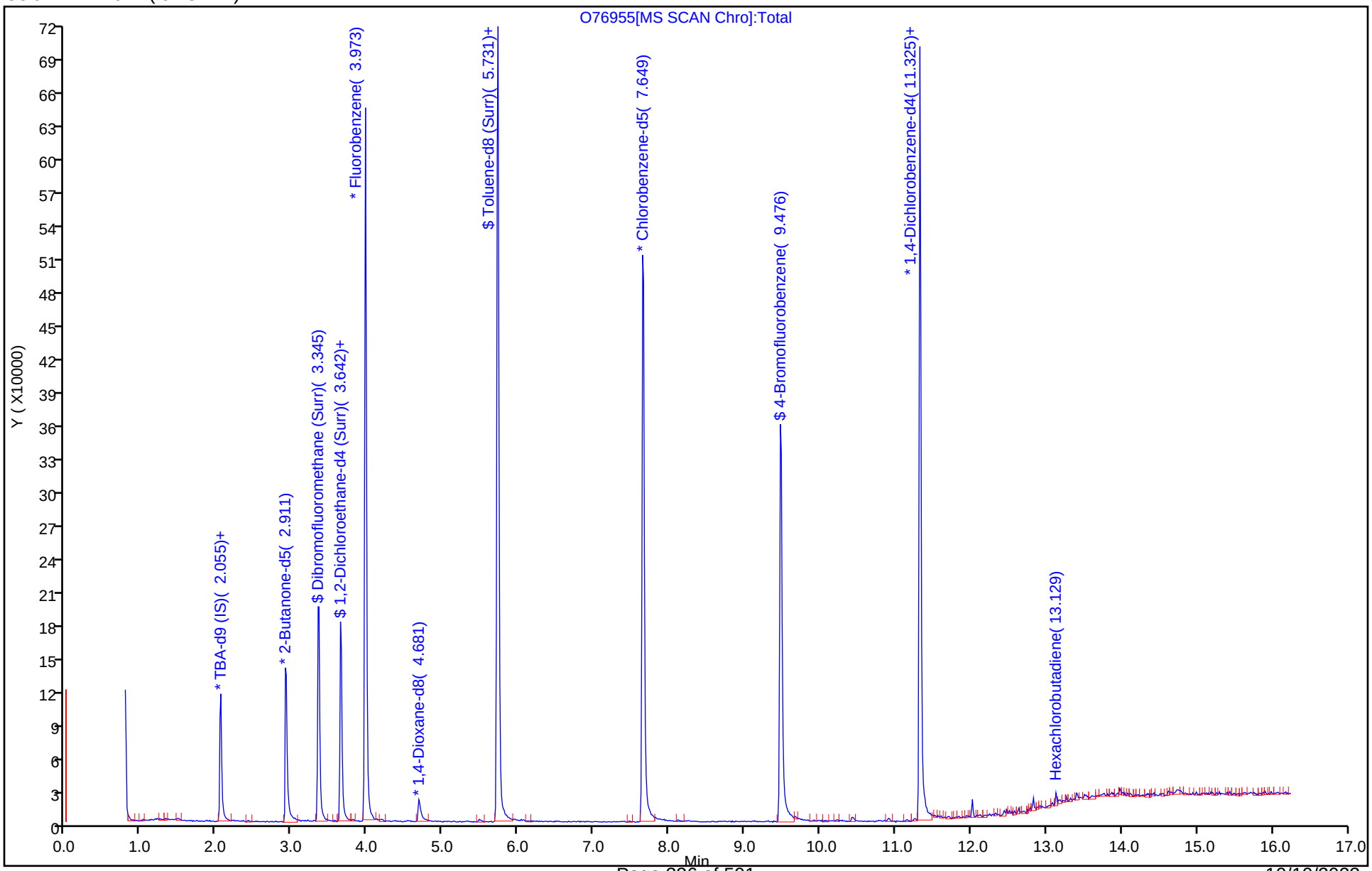
Report Date: 23-May-2022 15:36:00 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220520-145506.b\O76955.d

Injection Date:	20-May-2022 08:47:30	Instrument ID:	CVOAMS12	Operator ID:	
Lims ID:	MB			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	50.0000	ALS Bottle#:	8
Method:	8260W_12	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



10/10/2023
12:43 PM

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-845591/7

Matrix: Solid Lab File ID: V19390.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 05/20/2022 07:43

Soil Aliquot Vol: Dilution Factor: 1

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

Purge Volume: 5.0(mL) Heated Purge: (Y/N) Y pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 845591 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.26	U	1.0	0.26
100-41-4	Ethylbenzene	0.20	U	1.0	0.20
108-88-3	Toluene	0.23	U	1.0	0.23
1330-20-7	Xylenes, Total	0.17	U	2.0	0.17
95-63-6	1,2,4-Trimethylbenzene	0.25	U	1.0	0.25
108-67-8	1,3,5-Trimethylbenzene	0.31	U	1.0	0.31
98-82-8	Cumene	0.29	U	1.0	0.29

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		72-145
460-00-4	4-Bromofluorobenzene	89		75-139
1868-53-7	Dibromofluoromethane (Surr)	101		73-139
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220520-145507.b\V19390.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 20-May-2022 07:43:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: BLK
Misc. Info.: 460-0145507-007
Operator ID: Instrument ID: CVOAMS7

Method: \\chromfs\Edison\ChromData\CVOAMS7\20220520-145507.b\8260S_7.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 20-May-2022 09:49:00 Calib Date: 22-Apr-2022 03:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18072.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1661

First Level Reviewer: delpolitov Date: 20-May-2022 09:49:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 26 TBA-d9 (IS)	65	2.566	2.566	0.000	0	367080	1000.0	1000.0	
* 38 2-Butanone-d5	46	3.515	3.515	0.000	0	289420	250.0	250.0	
$ 51 Dibromofluoromethane (Surr)	113	3.961	3.961	0.000	95	132046	50.0	50.5	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.304	4.304	0.000	0	164311	50.0	50.7	
* 61 Fluorobenzene	96	4.566	4.566	0.000	98	518581	50.0	50.0	
* 67 1,4-Dioxane-d8	96	5.287	5.275	0.012	0	36843	1000.0	1000.0	M
$ 78 Toluene-d8 (Surr)	98	6.292	6.292	0.000	97	654691	50.0	48.6	
* 89 Chlorobenzene-d5	117	8.213	8.213	0.000	90	399901	50.0	50.0	
$ 100 4-Bromofluorobenzene	174	9.481	9.481	0.000	82	159110	50.0	44.6	
* 116 1,4-Dichlorobenzene-d4	152	10.499	10.498	0.000	97	200955	50.0	50.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8260SURR250_00226 Amount Added: 1.00 Units: uL Run Reagent
8260ISNEW_00117 Amount Added: 1.00 Units: uL Run Reagent

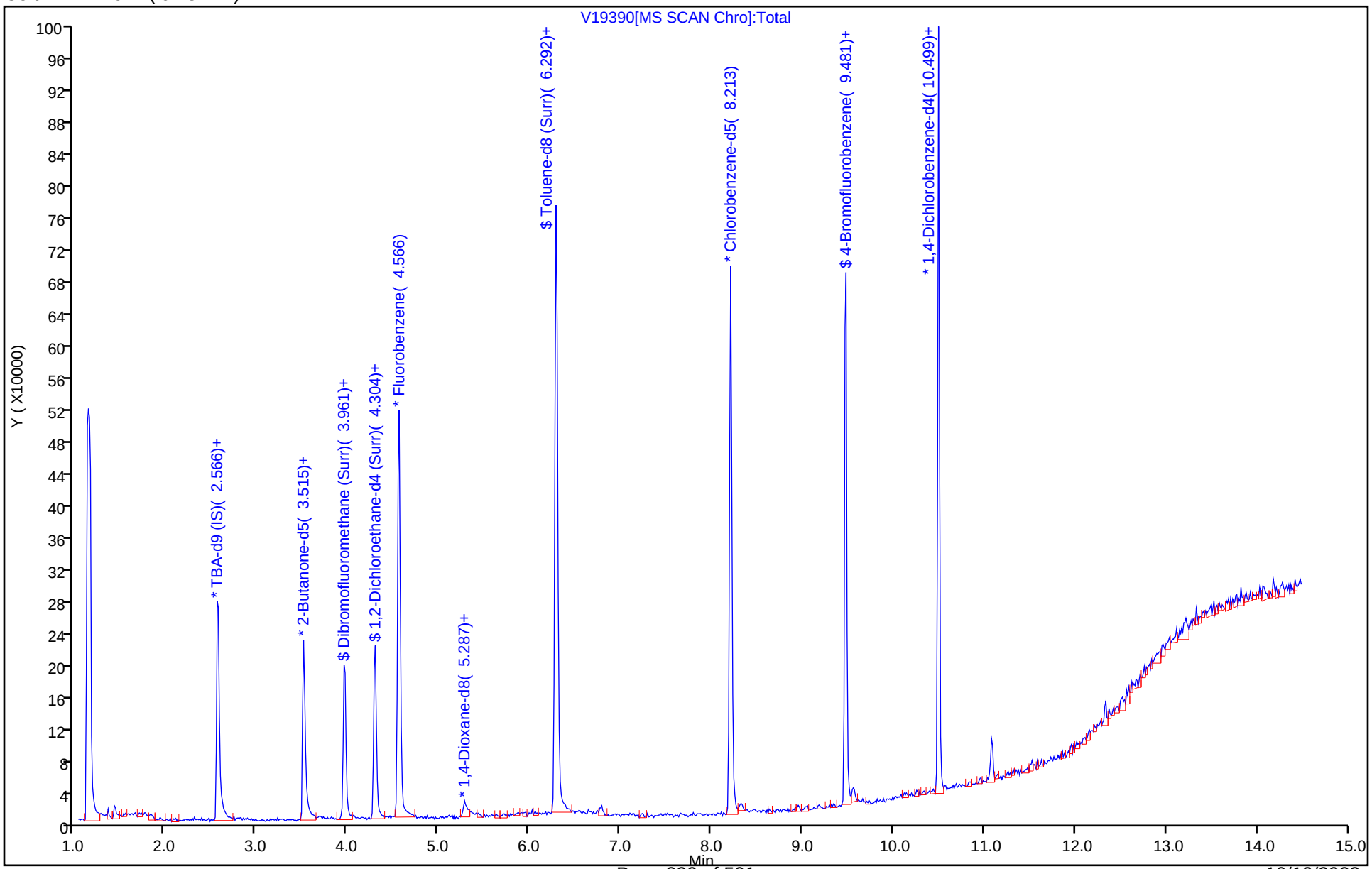
Report Date: 20-May-2022 09:49:01 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220520-145507.b\V19390.D

Injection Date:	20-May-2022 07:43:30	Instrument ID:	CVOAMS7	Operator ID:	
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260S_7	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



10/10/2023
12:43 PM

Manual Integration/User Assign Peak Report

Eurofins Edison

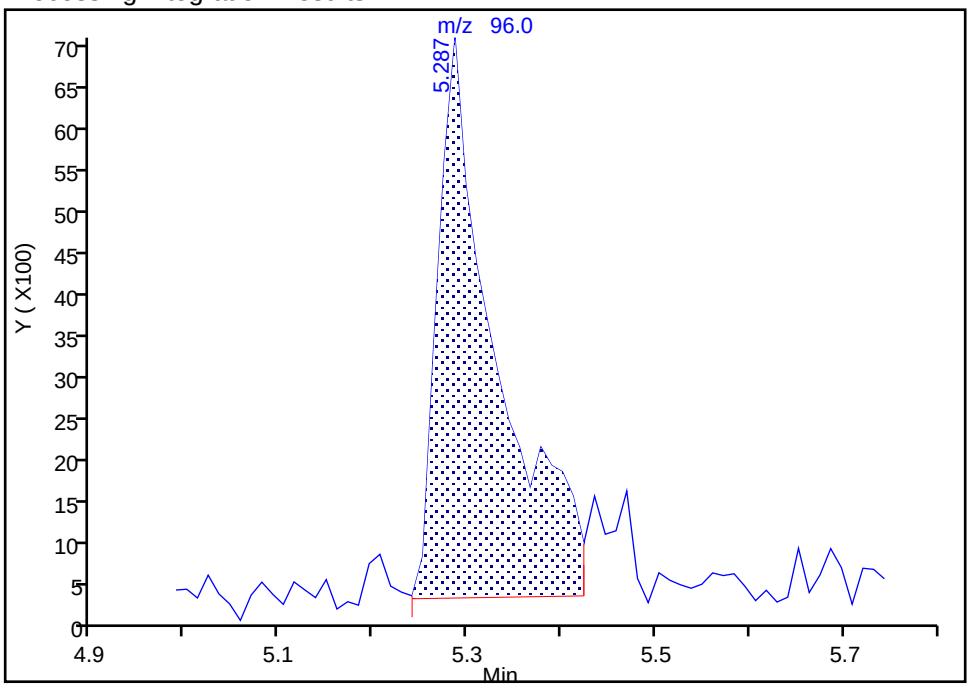
Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220520-145507.b\V19390.D
Injection Date: 20-May-2022 07:43:30 Instrument ID: CVOAMS7
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S_7 Limit Group: VOA - 8260D Water and Solid
Column: DB-624 (0.18 mm) Detector MS SCAN

* 67 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

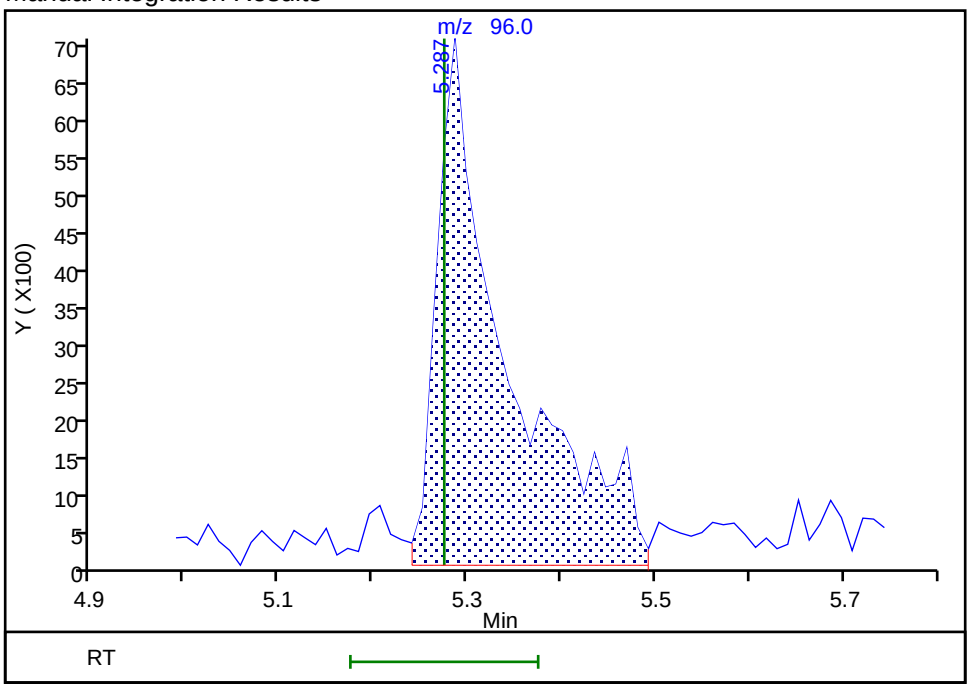
Processing Integration Results

RT: 5.29
Area: 29491
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.29
Area: 36843
Amount: 1000.0000
Amount Units: ug/l



Reviewer: delpolitov, 20-May-2022 09:48:27
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison | Job No.: 460-258307-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-845827/7

Matrix: Solid | Lab File ID: V19454.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 05/21/2022 10:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 845827 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.26	U	1.0	0.26
100-41-4	Ethylbenzene	0.20	U	1.0	0.20
108-88-3	Toluene	0.23	U	1.0	0.23
1330-20-7	Xylenes, Total	0.17	U	2.0	0.17
95-63-6	1,2,4-Trimethylbenzene	0.25	U	1.0	0.25
108-67-8	1,3,5-Trimethylbenzene	0.31	U	1.0	0.31
98-82-8	Cumene	0.29	U	1.0	0.29

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		72-145
460-00-4	4-Bromofluorobenzene	102		75-139
1868-53-7	Dibromofluoromethane (Surr)	98		73-139
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220521-145557.b\V19454.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 21-May-2022 10:15:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 460-0145557-007
Operator ID: Instrument ID: CVOAMS7

Method: \\chromfs\Edison\ChromData\CVOAMS7\20220521-145557.b\8260S_7.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 23-May-2022 09:35:11 Calib Date: 22-Apr-2022 03:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18072.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1657

First Level Reviewer: delpolitov Date: 23-May-2022 09:35:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 26 TBA-d9 (IS)	65	2.566	2.566	0.000	0	451902	1000.0	1000.0	
* 38 2-Butanone-d5	46	3.503	3.503	0.000	0	391907	250.0	250.0	
$ 51 Dibromofluoromethane (Surr)	113	3.961	3.961	0.000	95	137974	50.0	49.1	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.292	4.292	0.000	0	187457	50.0	53.8	
* 61 Fluorobenzene	96	4.555	4.555	0.000	98	556864	50.0	50.0	
* 67 1,4-Dioxane-d8	96	5.286	5.286	0.000	0	38049	1000.0	1000.0	
$ 78 Toluene-d8 (Surr)	98	6.292	6.292	0.000	99	686079	50.0	50.3	
* 89 Chlorobenzene-d5	117	8.212	8.212	0.000	91	405046	50.0	50.0	
$ 100 4-Bromofluorobenzene	174	9.481	9.481	0.000	82	179437	50.0	51.0	
* 116 1,4-Dichlorobenzene-d4	152	10.498	10.498	0.000	99	198360	50.0	50.0	

QC Flag Legend
Processing Flags

Reagents:
8260SURR250_00226 Amount Added: 1.00 Units: uL Run Reagent
8260ISNEW_00117 Amount Added: 1.00 Units: uL Run Reagent

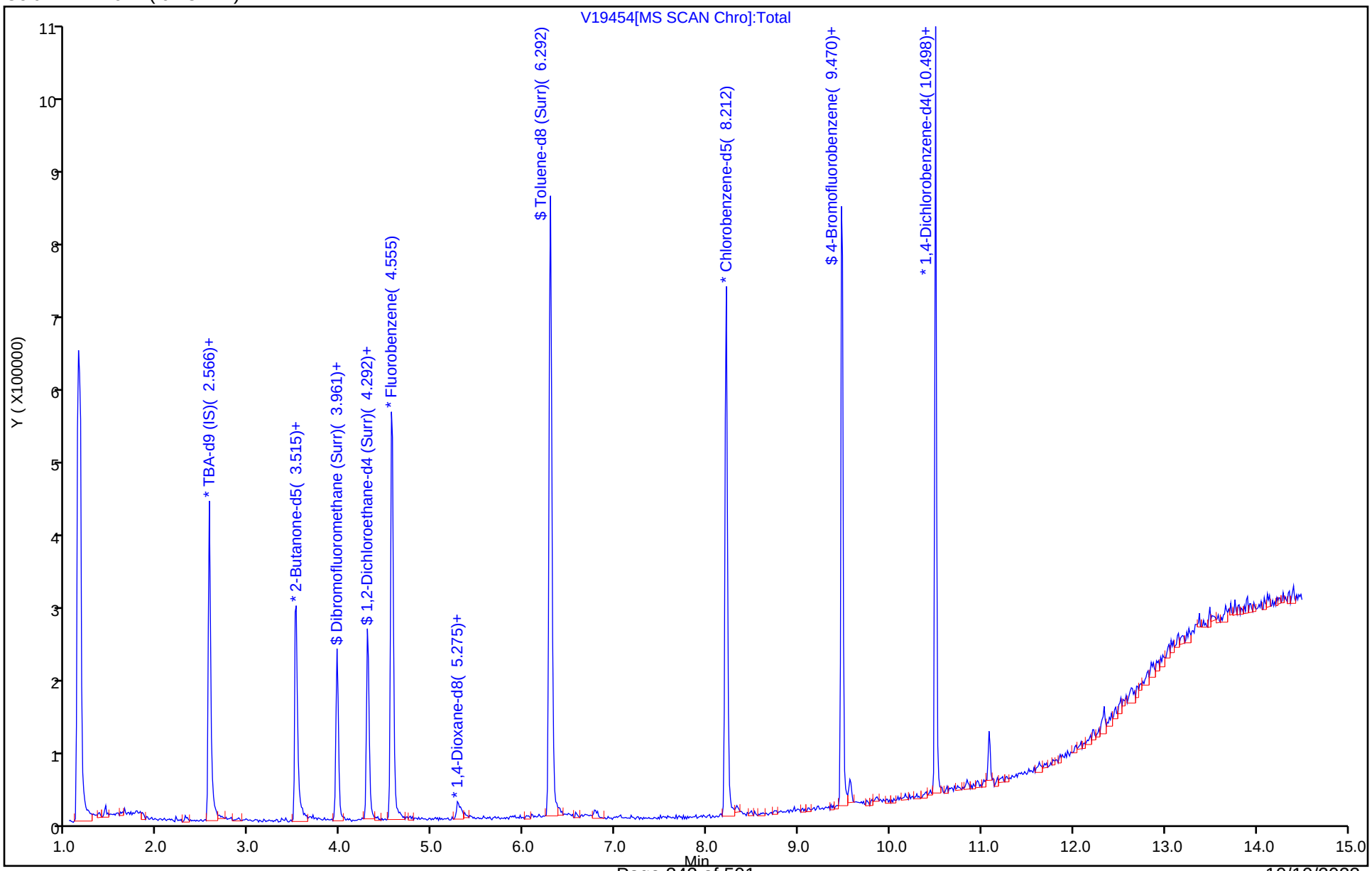
Report Date: 23-May-2022 09:35:43 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220521-145557.b\V19454.D

Injection Date:	21-May-2022 10:15:30	Instrument ID:	CVOAMS7	Operator ID:	
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260S_7	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison | Job No.: 460-258307-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-846046/10

Matrix: Solid | Lab File ID: O77043.d

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 05/23/2022 08:44

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 50

Soil Extract Vol.: 5(mL) | GC Column: DB-624 ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Medium

Analysis Batch No.: 846046 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	10	U	50	10

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		68-150
460-00-4	4-Bromofluorobenzene	109		70-150
1868-53-7	Dibromofluoromethane (Surr)	101		68-150
2037-26-5	Toluene-d8 (Surr)	111		80-147

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220523-145613.b\O77043.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 23-May-2022 08:44:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: MB
Misc. Info.: 460-0145613-010
Operator ID: Instrument ID: CVOAMS12

Method: \\chromfs\Edison\ChromData\CVOAMS12\20220523-145613.b\8260W_12.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 23-May-2022 17:34:58 Calib Date: 22-May-2022 11:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\O76991.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1657

First Level Reviewer: delpolitov Date: 23-May-2022 17:34:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 31 TBA-d9 (IS)	65	2.043	2.043	0.000	99	118974	1000.0	1000.0	
* 43 2-Butanone-d5	46	2.911	2.911	0.000	100	143088	250.0	250.0	
$ 53 Dibromofluoromethane (Surr)	113	3.345	3.345	0.000	98	137761	50.0	50.4	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	3.642	3.641	0.001	0	142678	50.0	50.7	
* 65 Fluorobenzene	96	3.973	3.961	0.012	99	507298	50.0	50.0	
* 72 1,4-Dioxane-d8	96	4.680	4.669	0.011	0	23082	1000.0	1000.0	
$ 83 Toluene-d8 (Surr)	98	5.719	5.719	0.000	100	569904	50.0	55.4	
* 94 Chlorobenzene-d5	117	7.649	7.649	0.000	84	418295	50.0	50.0	
$ 105 4-Bromofluorobenzene	174	9.476	9.475	0.001	96	217444	50.0	54.5	
* 120 1,4-Dichlorobenzene-d4	152	11.325	11.314	0.011	93	268735	50.0	50.0	
133 Hexachlorobutadiene	225	13.129	13.129	0.000	91	1926		1.03	

QC Flag Legend
Processing Flags

Reagents:
8260SURR250_00226 Amount Added: 1.00 Units: uL
8260ISNEW_00129 Amount Added: 1.00 Units: uL Run Reagent

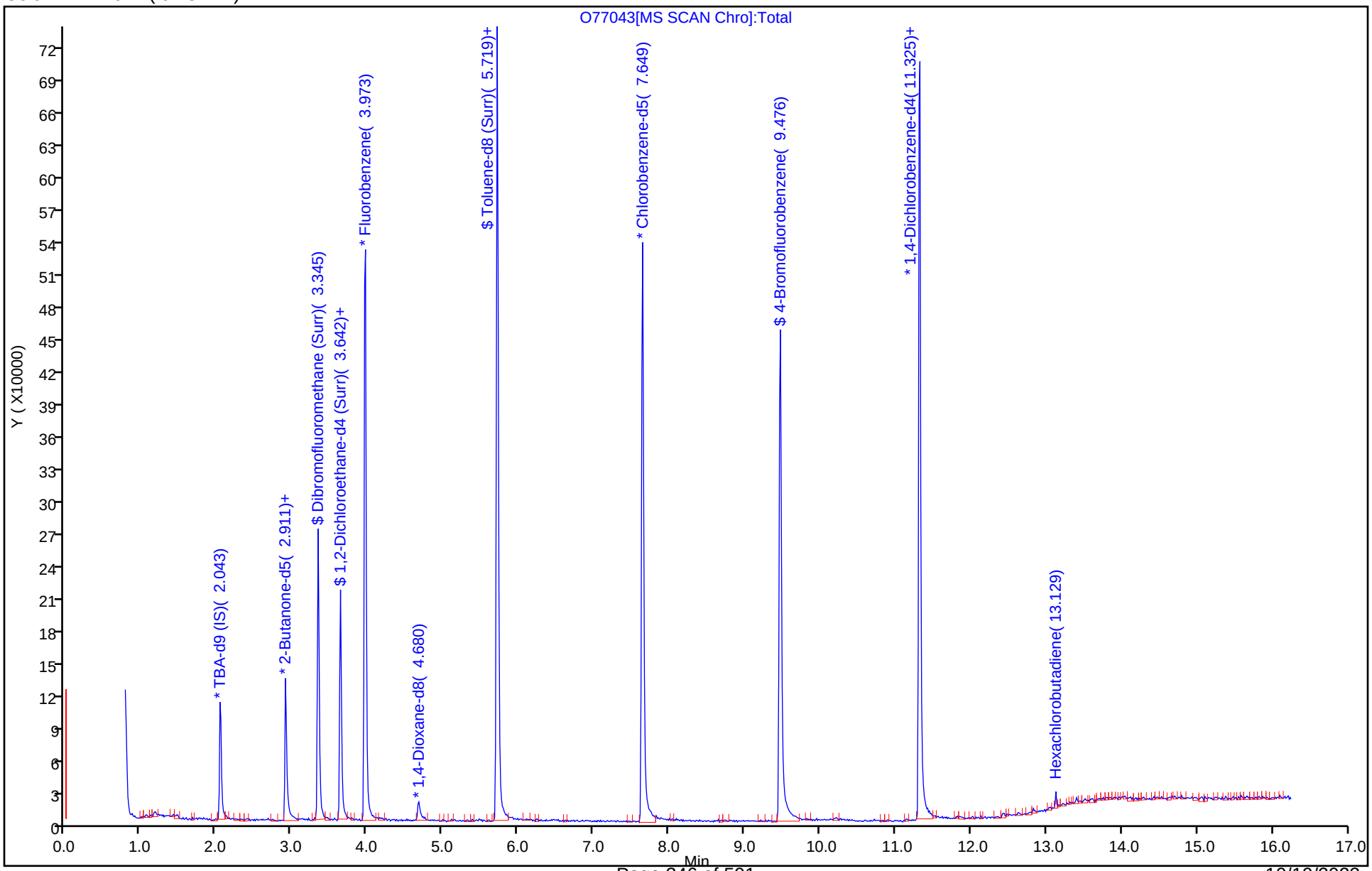
Report Date: 23-May-2022 17:34:59 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220523-145613.b\O77043.d

Injection Date:	23-May-2022 08:44:30	Instrument ID:	CVOAMS12	Operator ID:	
Lims ID:	MB			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	50.0000	ALS Bottle#:	9
Method:	8260W_12	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison | Job No.: 460-258307-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-846050/8

Matrix: Solid | Lab File ID: V19572.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 05/23/2022 09:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 846050 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.26	U	1.0	0.26
100-41-4	Ethylbenzene	0.20	U	1.0	0.20
108-88-3	Toluene	0.23	U	1.0	0.23
1330-20-7	Xylenes, Total	0.17	U	2.0	0.17
95-63-6	1,2,4-Trimethylbenzene	0.25	U	1.0	0.25
108-67-8	1,3,5-Trimethylbenzene	0.31	U	1.0	0.31
98-82-8	Cumene	0.29	U	1.0	0.29

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		72-145
460-00-4	4-Bromofluorobenzene	102		75-139
1868-53-7	Dibromofluoromethane (Surr)	98		73-139
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220523-145615.b\V19572.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 23-May-2022 09:17:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 460-0145615-008
Operator ID: Instrument ID: CVOAMS7

Method: \\chromfs\Edison\ChromData\CVOAMS7\20220523-145615.b\8260S_7.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 23-May-2022 12:22:14 Calib Date: 22-Apr-2022 03:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18072.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1657

First Level Reviewer: delpolitov Date: 23-May-2022 12:22:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 26 TBA-d9 (IS)	65	2.566	2.566	0.000	0	484372	1000.0	1000.0	
* 38 2-Butanone-d5	46	3.515	3.503	0.012	0	409645	250.0	250.0	
$ 51 Dibromofluoromethane (Surr)	113	3.961	3.961	0.000	93	134085	50.0	48.8	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.292	4.292	0.000	0	183468	50.0	53.9	
* 61 Fluorobenzene	96	4.566	4.555	0.011	98	544928	50.0	50.0	
* 67 1,4-Dioxane-d8	96	5.275	5.275	0.000	0	42843	1000.0	1000.0	M
$ 78 Toluene-d8 (Surr)	98	6.292	6.292	0.000	99	655962	50.0	48.1	
* 89 Chlorobenzene-d5	117	8.212	8.212	0.000	91	404208	50.0	50.0	
$ 100 4-Bromofluorobenzene	174	9.470	9.470	0.000	79	178834	50.0	51.2	
* 116 1,4-Dichlorobenzene-d4	152	10.498	10.498	0.000	99	196935	50.0	50.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

8260SURR250_00226 Amount Added: 1.00 Units: uL Run Reagent
8260ISNEW_00117 Amount Added: 1.00 Units: uL Run Reagent

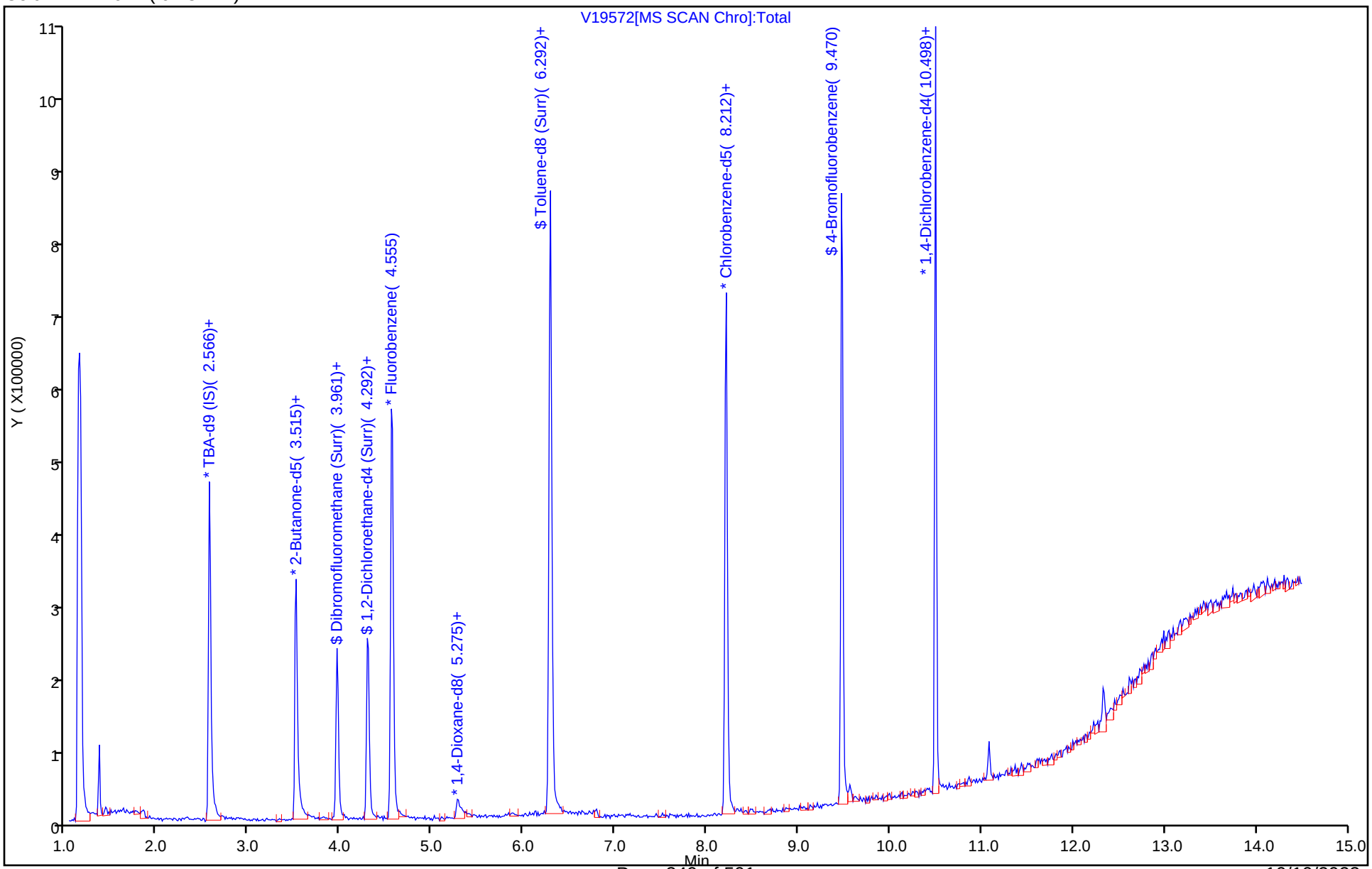
Report Date: 23-May-2022 12:22:14 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220523-145615.b\V19572.D

Injection Date:	23-May-2022 09:17:30	Instrument ID:	CVOAMS7	Operator ID:	
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260S_7	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



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Manual Integration/User Assign Peak Report

Eurofins Edison

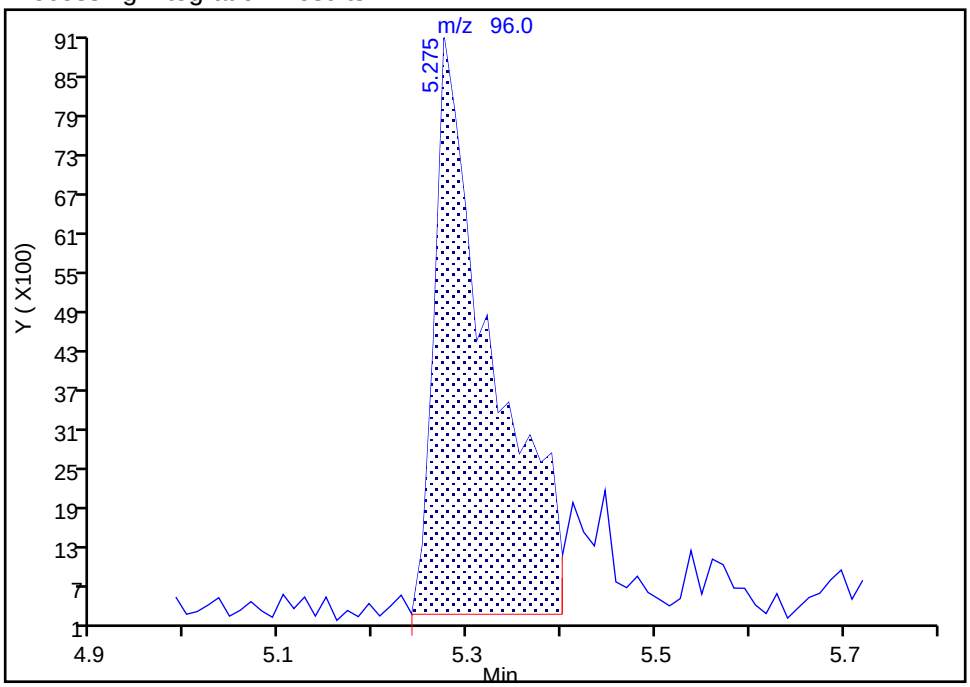
Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220523-145615.b\V19572.D
Injection Date: 23-May-2022 09:17:30 Instrument ID: CVOAMS7
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S_7 Limit Group: VOA - 8260D Water and Solid
Column: DB-624 (0.18 mm) Detector MS SCAN

* 67 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

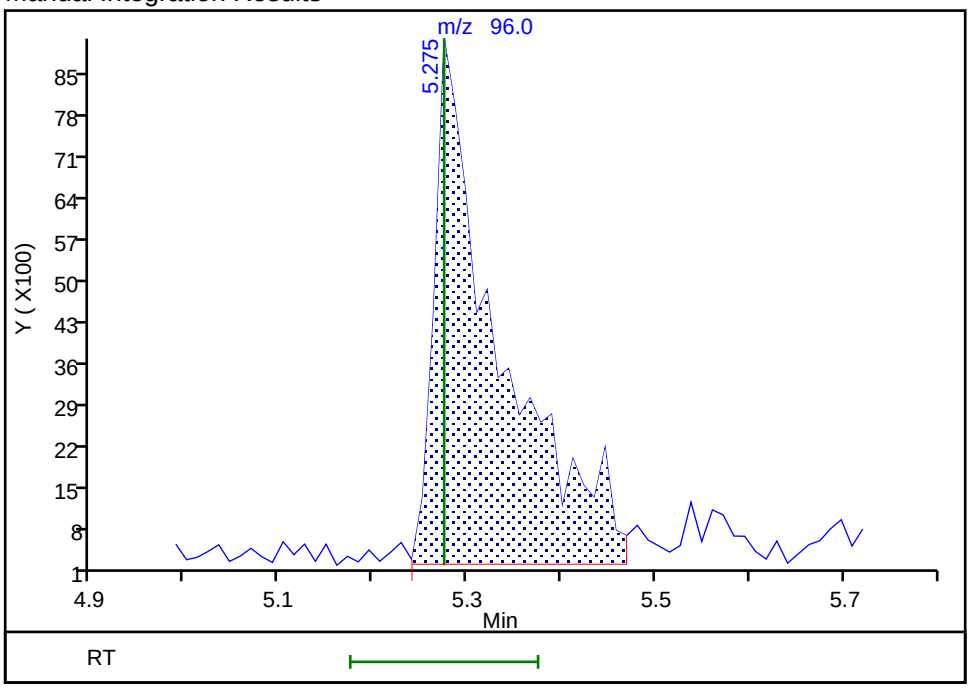
Processing Integration Results

RT: 5.27
Area: 37043
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.27
Area: 42843
Amount: 1000.0000
Amount Units: ug/l



Reviewer: delpolitov, 23-May-2022 12:22:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison | Job No.: 460-258307-1

SDG No.:

Client Sample ID: | Lab Sample ID: LB3 460-845242/1-A

Matrix: Solid | Lab File ID: V19581.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 05/23/2022 12:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 846050 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.26	U	1.0	0.26
100-41-4	Ethylbenzene	0.20	U	1.0	0.20
108-88-3	Toluene	0.23	U	1.0	0.23
1330-20-7	Xylenes, Total	0.17	U	2.0	0.17
95-63-6	1,2,4-Trimethylbenzene	0.25	U	1.0	0.25
108-67-8	1,3,5-Trimethylbenzene	0.31	U	1.0	0.31
98-82-8	Cumene	0.29	U	1.0	0.29

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		72-145
460-00-4	4-Bromofluorobenzene	101		75-139
1868-53-7	Dibromofluoromethane (Surr)	95		73-139
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220523-145615.b\V19581.D
Lims ID: LB3 460-845242/1-A
Client ID:
Sample Type: LB3
Inject. Date: 23-May-2022 12:42:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LB3 460-845242/1-A
Misc. Info.: 460-0145615-017
Operator ID: Instrument ID: CVOAMS7

Method: \\chromfs\Edison\ChromData\CVOAMS7\20220523-145615.b\8260S_7.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 23-May-2022 13:51:33 Calib Date: 22-Apr-2022 03:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18072.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1657

First Level Reviewer: delpolitov Date: 23-May-2022 13:51:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 26 TBA-d9 (IS)	65	2.566	2.566	0.000	0	455829	1000.0	1000.0	
* 38 2-Butanone-d5	46	3.515	3.503	0.012	0	394348	250.0	250.0	
$ 51 Dibromofluoromethane (Surr)	113	3.961	3.961	0.000	94	164297	50.0	47.4	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.292	4.292	0.000	0	208808	50.0	48.6	
* 61 Fluorobenzene	96	4.566	4.555	0.011	98	686665	50.0	50.0	
* 67 1,4-Dioxane-d8	96	5.286	5.275	0.011	0	39620	1000.0	1000.0	
$ 78 Toluene-d8 (Surr)	98	6.292	6.292	0.000	99	812023	50.0	49.1	
* 89 Chlorobenzene-d5	117	8.213	8.212	0.000	90	490595	50.0	50.0	
$ 100 4-Bromofluorobenzene	174	9.481	9.470	0.011	80	209667	50.0	50.7	
* 116 1,4-Dichlorobenzene-d4	152	10.498	10.498	0.000	98	232902	50.0	50.0	

QC Flag Legend
Processing Flags

Reagents:
8260SURR250_00226 Amount Added: 1.00 Units: uL Run Reagent
8260ISNEW_00117 Amount Added: 1.00 Units: uL Run Reagent

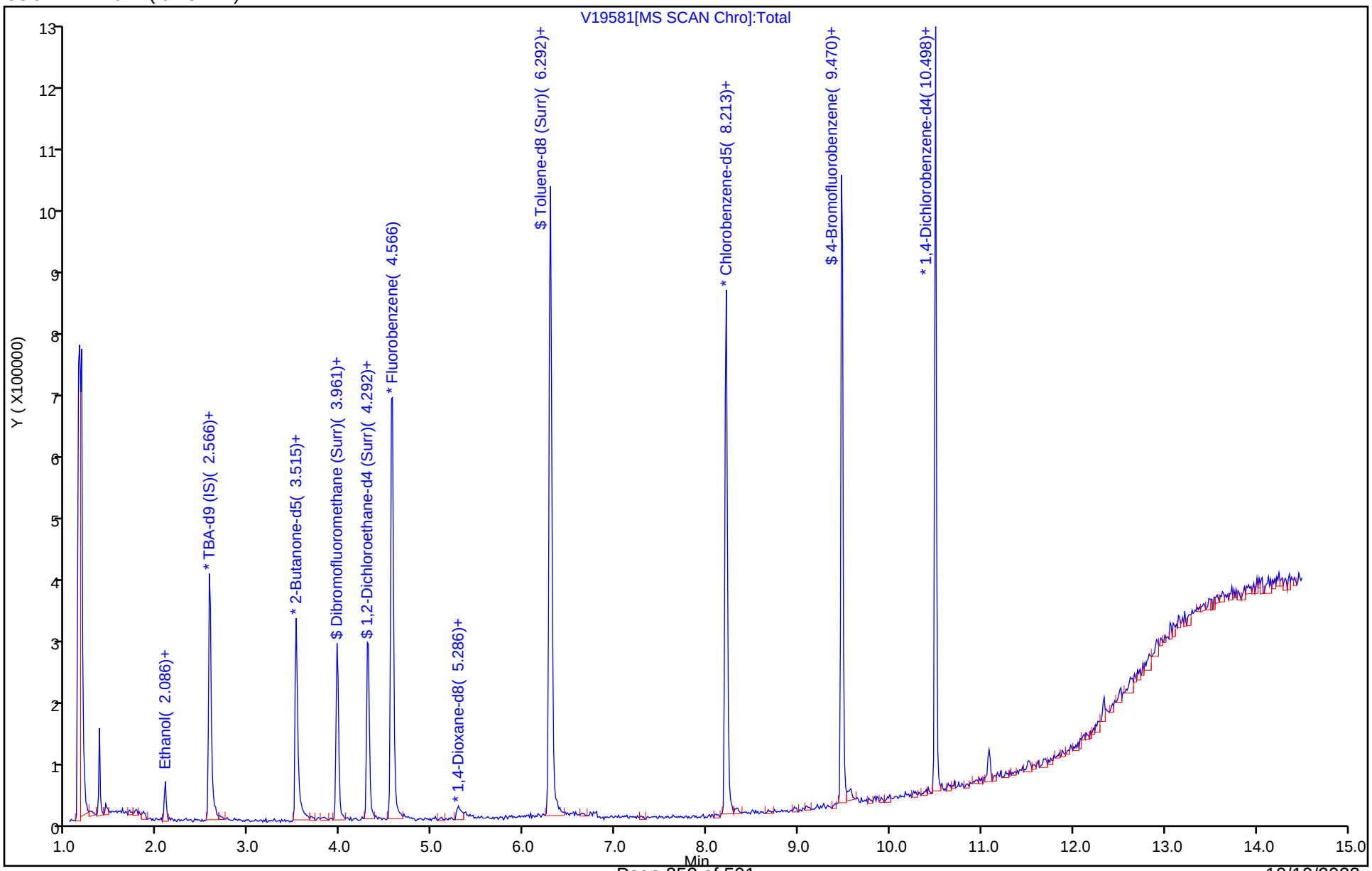
Report Date: 23-May-2022 13:51:34 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220523-145615.b\V19581.D

Injection Date:	23-May-2022 12:42:30	Instrument ID:	CVOAMS7	Operator ID:	
Lims ID:	LB3 460-845242/1-A			Worklist Smp#:	17
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8260S_7	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison | Job No.: 460-258307-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-845588/3

Matrix: Solid | Lab File ID: O76949.d

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 05/20/2022 06:12

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 50

Soil Extract Vol.: 5(mL) | GC Column: DB-624 ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Medium

Analysis Batch No.: 845588 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	930		50	10

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	83		68-150
460-00-4	4-Bromofluorobenzene	107		70-150
1868-53-7	Dibromofluoromethane (Surr)	94		68-150
2037-26-5	Toluene-d8 (Surr)	99		80-147

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220520-145506.b\O76949.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 20-May-2022 06:12:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: LCS
Misc. Info.: 460-0145506-003
Operator ID: Instrument ID: CVOAMS12

Method: \\chromfs\Edison\ChromData\CVOAMS12\20220520-145506.b\8260W_12.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 23-May-2022 15:33:11 Calib Date: 12-May-2022 06:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\O76603.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1657

First Level Reviewer: tupayachia Date: 20-May-2022 06:33:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116	0.879	0.879	0.000	85	19723	20.0	30.5	
3 Dichlorodifluoromethane	85	0.890	0.890	0.000	99	81018	20.0	21.3	
5 Chlorodifluoromethane	67	0.901	0.901	0.000	97	8878	20.0	15.3	
6 Chloromethane	50	0.993	0.993	0.000	98	76207	20.0	15.3	
7 Vinyl chloride	62	1.050	1.050	0.000	97	86171	20.0	17.6	
8 Butadiene	54	1.073	1.073	0.000	93	69178	20.0	16.9	
9 Bromomethane	94	1.232	1.232	0.000	99	61536	20.0	17.9	
10 Chloroethane	64	1.290	1.290	0.000	98	51520	20.0	17.8	
11 Dichlorofluoromethane	67	1.392	1.392	0.000	98	114125	20.0	17.9	
12 Trichlorofluoromethane	101	1.427	1.427	0.000	98	94677	20.0	20.4	
13 Pentane	57	1.472	1.472	0.000	97	22973	40.0	33.8	
14 Ethanol	46	1.541	1.541	0.000	93	9150	800.0	785.1	
15 Ethyl ether	59	1.598	1.598	0.000	93	42505	20.0	16.0	
16 1,2-Dichloro-1,1,2-trifluoroetha	117	1.598	1.598	0.000	87	43570	20.0	16.8	
17 2-Methyl-1,3-butadiene	53	1.609	1.609	0.000	88	52605	20.0	18.1	
18 1,1,1-Trifluoro-2,2-dichloroetha	83	1.632	1.632	0.000	94	68478	20.0	16.4	
19 Acrolein	56	1.666	1.666	0.000	93	8570	40.0	48.7	
20 1,1-Dichloroethene	96	1.735	1.735	0.000	93	60591	20.0	20.1	
21 112TCTFE	101	1.735	1.735	0.000	97	57084	20.0	22.4	
22 Acetone	58	1.758	1.758	0.000	90	16295	100.0	101.1	
23 Iodomethane	142	1.826	1.826	0.000	96	100491	20.0	23.3	
24 Isopropyl alcohol	45	1.860	1.860	0.000	27	20679	200.0	202.7	
25 Carbon disulfide	76	1.860	1.860	0.000	98	225985	20.0	19.8	
26 Acetonitrile	38	1.952	1.952	0.000	79	14276	200.0	208.1	
27 3-Chloro-1-propene	76	1.952	1.952	0.000	95	43888	20.0	19.3	
28 Methyl acetate	43	1.975	1.975	0.000	98	36259	40.0	40.8	
29 Cyclopentene	67	2.009	2.009	0.000	95	137294	20.0	17.0	
30 Methylene Chloride	84	2.032	2.032	0.000	85	75077	20.0	19.6	
* 31 TBA-d9 (IS)	65	2.055	2.055	0.000	99	135622	1000.0	1000.0	
32 2-Methyl-2-propanol	59	2.112	2.112	0.000	99	32016	200.0	198.3	
33 Acrylonitrile	53	2.192	2.192	0.000	97	159610	200.0	159.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 trans-1,2-Dichloroethene	96	2.214	2.214	0.000	92	62738	20.0	18.8	
35 Methyl tert-butyl ether	73	2.214	2.214	0.000	96	176708	20.0	18.1	
36 Hexane	57	2.420	2.420	0.000	88	65311	20.0	20.3	
37 1,1-Dichloroethane	63	2.500	2.500	0.000	99	100431	20.0	16.0	
38 Vinyl acetate	86	2.557	2.557	0.000	100	30406	40.0	64.1	
39 Isopropyl ether	45	2.568	2.568	0.000	85	194790	20.0	16.2	
40 2-Chloro-1,3-butadiene	88	2.580	2.580	0.000	84	71683	20.0	20.3	
41 Tert-butyl ethyl ether	59	2.854	2.854	0.000	91	198232	20.0	17.5	
* 43 2-Butanone-d5	46	2.911	2.911	0.000	100	187643	250.0	250.0	
44 2,2-Dichloropropane	97	2.945	2.945	0.000	80	24502	20.0	20.4	
45 cis-1,2-Dichloroethene	96	2.945	2.945	0.000	98	67179	20.0	18.3	
46 2-Butanone (MEK)	72	2.968	2.968	0.000	97	30331	100.0	118.9	
42 Propionitrile	54	3.014	3.014	0.000	98	56910	200.0	213.3	
47 Ethyl acetate	70	3.025	3.025	0.000	99	12852	40.0	52.7	
48 Methyl acrylate	55	3.059	3.059	0.000	100	53601	20.0	17.7	
50 Methacrylonitrile	67	3.128	3.128	0.000	86	216229	200.0	175.0	
49 Chlorobromomethane	128	3.139	3.139	0.000	81	35959	20.0	20.5	
51 Tetrahydrofuran	42	3.185	3.185	0.000	71	17041	40.0	34.4	
52 Chloroform	83	3.219	3.219	0.000	100	96515	20.0	16.9	
$ 53 Dibromofluoromethane (Surr)	113	3.345	3.345	0.000	98	143856	50.0	47.2	
54 1,1,1-Trichloroethane	97	3.367	3.367	0.000	97	93986	20.0	19.1	
55 Cyclohexane	84	3.425	3.425	0.000	85	91381	20.0	21.6	
56 Carbon tetrachloride	117	3.516	3.516	0.000	96	78384	20.0	19.9	
57 1,1-Dichloropropene	75	3.516	3.516	0.000	98	94874	20.0	19.0	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	3.641	3.641	0.000	0	137773	50.0	41.5	
61 Isobutyl alcohol	43	3.664	3.664	0.000	93	40510	500.0	494.2	a
59 Benzene	78	3.699	3.699	0.000	94	291597	20.0	18.6	
60 1,2-Dichloroethane	62	3.721	3.721	0.000	96	66155	20.0	16.6	
62 Isooctane	57	3.813	3.813	0.000	96	191826	20.0	28.1	
63 Isopropyl acetate	61	3.813	3.813	0.000	95	23457	20.0	17.7	
64 Tert-amyl methyl ether	73	3.836	3.836	0.000	98	199860	20.0	19.1	
* 65 Fluorobenzene	96	3.973	3.973	0.000	100	696508	50.0	50.0	
66 n-Heptane	43	3.995	3.995	0.000	87	63571	20.0	21.1	
67 Trichloroethene	95	4.349	4.349	0.000	96	71569	20.0	19.6	
68 n-Butanol	56	4.372	4.372	0.000	89	16807	500.0	381.5	
69 Ethyl acrylate	55	4.498	4.498	0.000	97	60712	20.0	13.7	
70 Methylcyclohexane	83	4.543	4.543	0.000	93	84823	20.0	21.9	
71 1,2-Dichloropropane	63	4.566	4.566	0.000	96	74553	20.0	18.1	
* 72 1,4-Dioxane-d8	96	4.680	4.680	0.000	0	29817	1000.0	1000.0	
73 Dibromomethane	93	4.680	4.680	0.000	98	34571	20.0	18.1	
74 1,4-Dioxane	88	4.737	4.737	0.000	28	15470	400.0	458.1	
75 Methyl methacrylate	100	4.749	4.749	0.000	83	36971	40.0	44.6	
76 n-Propyl acetate	43	4.829	4.829	0.000	96	68186	20.0	17.3	
77 Dichlorobromomethane	83	4.874	4.874	0.000	99	81377	20.0	18.1	
78 2-Nitropropane	41	5.137	5.137	0.000	98	20402	40.0	30.1	
79 2-Chloroethyl vinyl ether	63	5.263	5.263	0.000	91	39234	20.0	16.5	
80 Epichlorohydrin	57	5.308	5.308	0.000	98	95653	400.0	457.8	
81 cis-1,3-Dichloropropene	75	5.411	5.411	0.000	87	115395	20.0	18.0	
82 4-Methyl-2-pentanone (MIBK)	43	5.617	5.617	0.000	93	214282	100.0	121.0	
$ 83 Toluene-d8 (Surr)	98	5.731	5.731	0.000	99	689199	50.0	49.4	
84 Toluene	91	5.811	5.811	0.000	93	303015	20.0	19.0	
85 trans-1,3-Dichloropropene	75	6.119	6.119	0.000	93	96122	20.0	17.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
86 Ethyl methacrylate	69	6.302	6.302	0.000	84	75967	20.0	18.9	a
87 1,1,2-Trichloroethane	83	6.336	6.336	0.000	94	50865	20.0	19.0	
88 Tetrachloroethene	166	6.507	6.507	0.000	95	65797	20.0	22.1	
89 1,3-Dichloropropane	76	6.553	6.553	0.000	87	107350	20.0	19.2	
90 2-Hexanone	43	6.735	6.735	0.000	90	122794	100.0	91.2	
91 Chlorodibromomethane	129	6.838	6.838	0.000	97	63554	20.0	20.2	
93 Ethylene Dibromide	107	6.964	6.964	0.000	98	60704	20.0	20.1	
92 n-Butyl acetate	43	6.975	6.975	0.000	97	58418	20.0	11.5	
* 94 Chlorobenzene-d5	117	7.649	7.649	0.000	83	476570	50.0	50.0	
95 Chlorobenzene	112	7.694	7.694	0.000	98	193626	20.0	20.1	
96 1,1,1,2-Tetrachloroethane	131	7.831	7.831	0.000	98	62413	20.0	19.7	
97 Ethylbenzene	106	7.900	7.900	0.000	97	98159	20.0	19.7	
98 m-Xylene & p-Xylene	106	8.094	8.094	0.000	100	121033	20.0	19.1	
99 o-Xylene	106	8.676	8.676	0.000	95	119586	20.0	19.5	
100 Styrene	104	8.711	8.711	0.000	98	203324	20.0	20.1	
101 n-Butyl acrylate	73	8.768	8.768	0.000	99	40273	20.0	14.5	
102 Bromoform	173	8.927	8.927	0.000	97	39561	20.0	20.9	
103 Amyl acetate (mixed isomers)	43	9.156	9.156	0.000	93	70468	20.0	16.3	
104 Isopropylbenzene	105	9.281	9.281	0.000	94	251751	20.0	18.7	
$ 105 4-Bromofluorobenzene	174	9.475	9.475	0.000	92	187407	50.0	53.5	
106 Bromobenzene	156	9.670	9.670	0.000	95	78325	20.0	20.4	
107 1,1,2,2-Tetrachloroethane	83	9.784	9.784	0.000	97	73955	20.0	17.5	
108 1,2,3-Trichloropropane	75	9.807	9.807	0.000	96	54125	20.0	16.0	
109 trans-1,4-Dichloro-2-butene	75	9.887	9.887	0.000	91	32194	20.0	17.9	
110 N-Propylbenzene	91	9.944	9.944	0.000	100	272336	20.0	18.2	
111 2-Chlorotoluene	91	10.024	10.024	0.000	96	207726	20.0	18.6	
112 4-Ethyltoluene	105	10.149	10.149	0.000	98	244748	20.0	19.1	
113 4-Chlorotoluene	91	10.206	10.206	0.000	95	218549	20.0	18.4	
114 1,3,5-Trimethylbenzene	105	10.263	10.263	0.000	94	196320	20.0	19.8	
115 Butyl Methacrylate	87	10.549	10.549	0.000	84	78369	20.0	17.0	
116 tert-Butylbenzene	119	10.777	10.777	0.000	96	168178	20.0	20.4	
117 1,2,4-Trimethylbenzene	105	10.868	10.868	0.000	96	197948	20.0	19.8	
118 sec-Butylbenzene	105	11.142	11.142	0.000	99	234368	20.0	20.2	
119 1,3-Dichlorobenzene	146	11.234	11.234	0.000	98	135755	20.0	20.7	
* 120 1,4-Dichlorobenzene-d4	152	11.325	11.325	0.000	93	256289	50.0	50.0	
121 1,4-Dichlorobenzene	146	11.359	11.359	0.000	96	145198	20.0	20.3	
122 4-Isopropyltoluene	119	11.371	11.371	0.000	98	205192	20.0	22.2	
123 1,2,3-Trimethylbenzene	105	11.462	11.462	0.000	97	217790	20.0	20.4	
124 Benzyl chloride	126	11.542	11.542	0.000	100	35353	20.0	19.4	
125 2,3-Dihydroindene	117	11.656	11.656	0.000	95	255653	20.0	20.3	
126 1,2-Dichlorobenzene	146	11.770	11.770	0.000	98	143362	20.0	21.7	
127 p-Diethylbenzene	119	11.805	11.805	0.000	94	103948	20.0	22.7	
128 n-Butylbenzene	92	11.827	11.827	0.000	98	96395	20.0	22.4	
129 1,2-Dibromo-3-Chloropropane	157	12.455	12.455	0.000	93	15044	20.0	21.1	
130 1,2,4,5-Tetramethylbenzene	119	12.467	12.467	0.000	97	119456	20.0	21.8	
131 1,3,5-Trichlorobenzene	180	12.615	12.615	0.000	97	69160	20.0	24.3	
132 1,2,4-Trichlorobenzene	180	13.015	13.015	0.000	94	61567	20.0	24.1	
133 Hexachlorobutadiene	225	13.129	13.129	0.000	94	30546	20.0	24.6	
134 Naphthalene	128	13.152	13.152	0.000	99	142757	20.0	21.2	
135 1,2,3-Trichlorobenzene	180	13.300	13.300	0.000	96	52314	20.0	22.3	
S 137 1,2-Dichloroethene, Total	100				0		40.0	37.1	
S 138 Xylenes, Total	100				0		40.0	38.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 139 Total BTEX	1				0		100.0	95.9	

QC Flag Legend

Processing Flags
Review Flags
a - User Assigned ID

Reagents:

8260MIX1COMB_00154	Amount Added:	20.00	Units: uL	
ACROLEIN W_00140	Amount Added:	4.00	Units: uL	
GASES Li_00476	Amount Added:	20.00	Units: uL	
524freon_00052	Amount Added:	20.00	Units: uL	
8260SURR250_00226	Amount Added:	1.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent

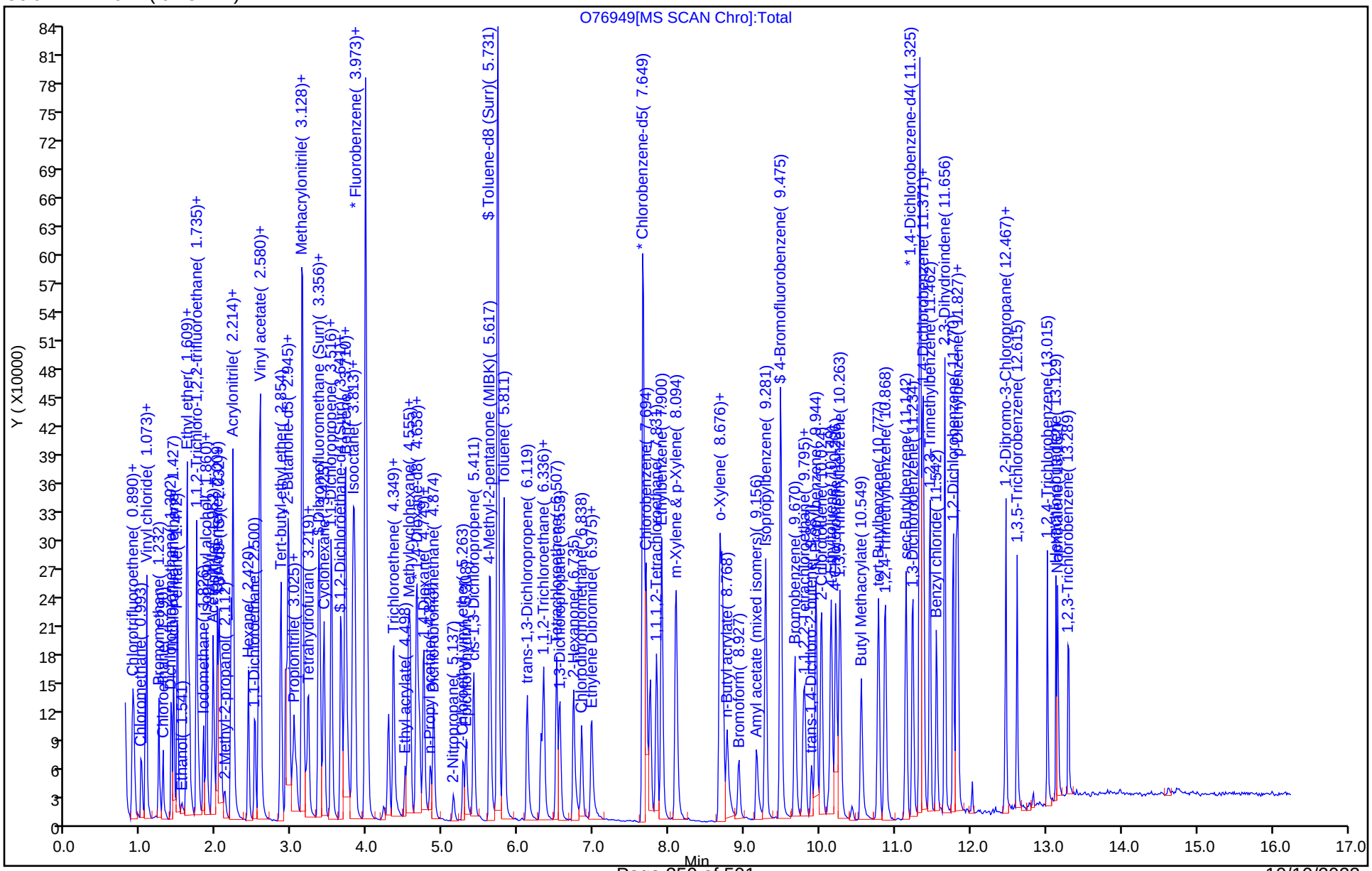
Report Date: 23-May-2022 15:33:11 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220520-145506.b\O76949.d

Injection Date:	20-May-2022 06:12:30	Instrument ID:	CVOAMS12	Operator ID:	
Lims ID:	LCS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	50.0000	ALS Bottle#:	2
Method:	8260W_12	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



10/10/2023
12:43 PM

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison | Job No.: 460-258307-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-845591/3

Matrix: Solid | Lab File ID: V19386.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 05/20/2022 06:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 845591 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	17.0		1.0	0.26
100-41-4	Ethylbenzene	18.9		1.0	0.20
108-88-3	Toluene	19.3		1.0	0.23
1330-20-7	Xylenes, Total	39.0		2.0	0.17
95-63-6	1,2,4-Trimethylbenzene	19.9		1.0	0.25
108-67-8	1,3,5-Trimethylbenzene	20.0		1.0	0.31
98-82-8	Cumene	19.6		1.0	0.29

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		72-145
460-00-4	4-Bromofluorobenzene	106		75-139
1868-53-7	Dibromofluoromethane (Surr)	94		73-139
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220520-145507.b\V19386.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 20-May-2022 06:12:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0145507-003
Operator ID: Instrument ID: CVOAMS7

Method: \\chromfs\Edison\ChromData\CVOAMS7\20220520-145507.b\8260S_7.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 20-May-2022 09:45:27 Calib Date: 22-Apr-2022 03:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18072.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1661

First Level Reviewer: delpolitov Date: 20-May-2022 09:45:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.275	1.275	0.000	98	168699	20.0	23.9	Ma
2 Chlorodifluoromethane	67	1.297	1.298	-0.001	97	23931	20.0	22.1	
3 Chloromethane	50	1.412	1.423	-0.011	99	196560	20.0	19.7	
4 Vinyl chloride	62	1.469	1.480	-0.011	97	203947	20.0	22.0	
5 Butadiene	54	1.492	1.492	0.000	97	206922	20.0	22.3	
6 Bromomethane	94	1.698	1.698	0.000	98	97673	20.0	24.2	
7 Chloroethane	64	1.755	1.755	0.000	100	110227	20.0	23.1	
8 Dichlorofluoromethane	67	1.880	1.880	0.000	98	273723	20.0	24.1	
9 Trichlorofluoromethane	101	1.892	1.892	0.000	97	203326	20.0	27.4	
10 Pentane	72	1.926	1.926	0.000	96	55632	40.0	42.3	
11 Ethanol	46	2.029	2.040	-0.011	96	37895	800.0	932.4	
12 Ethyl ether	59	2.063	2.075	-0.012	97	118536	20.0	18.7	
13 2-Methyl-1,3-butadiene	53	2.086	2.086	0.000	98	131170	20.0	19.3	
14 1,2-Dichloro-1,1,2-trifluoroetha	117	2.098	2.098	0.000	95	92042	20.0	21.2	
15 1,1,1-Trifluoro-2,2-dichloroetha	83	2.143	2.143	0.000	95	180959	20.0	20.3	
16 112TCTFE	101	2.200	2.201	0.000	93	111386	20.0	21.5	
17 Acrolein	56	2.200	2.212	-0.012	95	265097	300.0	369.8	
18 1,1-Dichloroethene	96	2.235	2.246	-0.011	94	111406	20.0	20.7	
19 Acetone	43	2.303	2.303	0.000	87	232654	100.0	90.7	
21 Iodomethane	142	2.360	2.372	-0.012	96	106635	20.0	22.0	
20 Isopropyl alcohol	45	2.372	2.372	0.000	63	135182	200.0	203.4	
22 Carbon disulfide	76	2.395	2.406	-0.011	99	466039	20.0	19.5	
24 Methyl acetate	43	2.486	2.498	-0.012	98	242268	40.0	31.2	
23 3-Chloro-1-propene	39	2.486	2.498	-0.012	94	286024	20.0	21.6	
25 Acetonitrile	40	2.543	2.543	0.000	95	118881	200.0	195.8	a
* 26 TBA-d9 (IS)	65	2.566	2.566	0.000	0	464891	1000.0	1000.0	
27 Methylene Chloride	84	2.600	2.601	-0.001	96	133383	20.0	19.1	
28 2-Methyl-2-propanol	59	2.623	2.635	-0.012	99	197077	200.0	203.7	
29 Methyl tert-butyl ether	73	2.715	2.715	0.000	97	403490	20.0	20.1	
30 trans-1,2-Dichloroethene	96	2.749	2.761	-0.012	97	133593	20.0	20.0	
31 Acrylonitrile	53	2.806	2.806	0.000	94	629445	200.0	202.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	57	2.875	2.875	0.000	93	258212	20.0	19.5	
33 Isopropyl ether	45	3.046	3.046	0.000	96	488678	20.0	17.4	
35 Vinyl acetate	86	3.092	3.092	0.000	100	58179	40.0	50.1	
34 1,1-Dichloroethane	63	3.092	3.092	0.000	63	268439	20.0	19.0	
36 2-Chloro-1,3-butadiene	88	3.126	3.138	-0.012	92	125490	20.0	19.8	
37 Tert-butyl ethyl ether	87	3.321	3.332	-0.011	89	159146	20.0	18.6	
* 38 2-Butanone-d5	46	3.515	3.515	0.000	0	418651	250.0	250.0	
39 2,2-Dichloropropane	79	3.526	3.526	0.000	96	65993	20.0	20.1	
40 cis-1,2-Dichloroethene	96	3.561	3.561	0.000	89	139717	20.0	18.7	
42 2-Butanone (MEK)	72	3.561	3.561	0.000	96	101508	100.0	108.6	
41 Ethyl acetate	70	3.561	3.561	0.000	93	37303	40.0	44.6	
43 Methyl acrylate	55	3.618	3.618	0.000	99	129615	20.0	17.2	
44 Propionitrile	54	3.686	3.686	0.000	98	242138	200.0	206.7	
45 Tetrahydrofuran	72	3.766	3.766	0.000	81	47949	40.0	43.2	
46 Chlorobromomethane	128	3.766	3.766	0.000	98	56760	20.0	18.5	
47 Methacrylonitrile	67	3.778	3.778	0.000	93	677175	200.0	176.1	
48 Chloroform	83	3.812	3.812	0.000	98	214992	20.0	19.7	
49 Cyclohexane	84	3.938	3.938	0.000	93	237136	20.0	20.1	
50 1,1,1-Trichloroethane	97	3.949	3.949	0.000	96	176616	20.0	20.5	
$ 51 Dibromofluoromethane (Surr)	113	3.961	3.961	0.000	96	139495	50.0	47.2	
52 Carbon tetrachloride	117	4.063	4.064	-0.001	96	136883	20.0	21.1	
53 1,1-Dichloropropene	75	4.086	4.098	-0.012	94	193356	20.0	19.1	
54 Isobutyl alcohol	42	4.212	4.212	0.000	92	134965	500.0	464.6	
55 Benzene	78	4.281	4.281	0.000	96	573608	20.0	17.0	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.292	4.304	-0.012	0	180533	50.0	49.3	
57 Isopropyl acetate	43	4.326	4.326	0.000	95	471795	20.0	17.1	
58 Tert-amyl methyl ether	73	4.326	4.338	-0.012	90	429946	20.0	18.1	
59 1,2-Dichloroethane	62	4.372	4.372	0.000	96	173282	20.0	20.8	
60 n-Heptane	43	4.418	4.429	-0.011	95	298399	20.0	18.3	
* 61 Fluorobenzene	96	4.555	4.566	-0.011	98	585661	50.0	50.0	
62 n-Butanol	43	4.898	4.886	0.012	92	60755	500.0	524.0	
63 Trichloroethene	95	4.921	4.921	0.000	94	146217	20.0	21.8	
64 Ethyl acrylate	55	5.035	5.035	0.000	93	457552	20.0	19.8	a
65 Methylcyclohexane	83	5.035	5.035	0.000	81	299345	20.0	21.6	
66 1,2-Dichloropropane	63	5.206	5.207	-0.001	90	167019	20.0	19.3	
* 67 1,4-Dioxane-d8	96	5.286	5.275	0.011	0	36734	1000.0	1000.0	
68 Methyl methacrylate	100	5.286	5.287	-0.001	94	79324	40.0	40.0	
69 1,4-Dioxane	88	5.344	5.344	0.000	28	38894	400.0	430.5	
70 n-Propyl acetate	43	5.344	5.344	0.000	98	253327	20.0	18.3	
71 Dibromomethane	93	5.344	5.355	-0.011	48	78773	20.0	19.3	
72 Dichlorobromomethane	83	5.515	5.515	0.000	99	182245	20.0	21.7	
73 2-Nitropropane	41	5.847	5.858	-0.012	99	106598	40.0	44.3	
74 2-Chloroethyl vinyl ether	63	5.858	5.869	-0.011	97	95738	20.0	19.5	
75 Epichlorohydrin	57	5.972	5.972	0.000	100	393153	400.0	458.4	
76 cis-1,3-Dichloropropene	75	6.041	6.041	0.000	97	258606	20.0	19.4	
77 4-Methyl-2-pentanone (MIBK)	43	6.201	6.201	0.000	98	866631	100.0	116.4	
$ 78 Toluene-d8 (Surr)	98	6.292	6.292	0.000	99	767409	50.0	48.7	
79 Toluene	91	6.372	6.372	0.000	94	656906	20.0	19.3	
80 trans-1,3-Dichloropropene	75	6.772	6.772	0.000	97	225400	20.0	19.8	
81 Ethyl methacrylate	69	6.807	6.807	0.000	74	187663	20.0	18.5	
82 1,1,2-Trichloroethane	83	7.012	7.012	0.000	94	109246	20.0	17.7	
83 Tetrachloroethene	166	7.058	7.058	0.000	92	114514	20.0	19.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1,3-Dichloropropane	76	7.241	7.241	0.000	97	237616	20.0	18.6	
85 2-Hexanone	43	7.310	7.310	0.000	98	586680	100.0	112.5	
86 n-Butyl acetate	73	7.458	7.458	0.000	99	38632	20.0	16.2	
87 Chlorodibromomethane	129	7.504	7.504	0.000	97	108881	20.0	19.3	
88 Ethylene Dibromide	107	7.664	7.664	0.000	100	117018	20.0	19.2	
* 89 Chlorobenzene-d5	117	8.212	8.213	-0.001	89	467423	50.0	50.0	
90 Chlorobenzene	112	8.247	8.247	0.000	92	366738	20.0	19.3	
91 Ethylbenzene	106	8.338	8.338	0.000	99	204538	20.0	18.9	
92 1,1,1,2-Tetrachloroethane	131	8.361	8.361	0.000	94	116780	20.0	20.4	
93 m-Xylene & p-Xylene	106	8.475	8.487	-0.012	98	247006	20.0	19.2	
94 o-Xylene	106	8.910	8.910	0.000	93	250397	20.0	19.7	
95 n-Butyl acrylate	73	8.910	8.921	-0.011	95	110929	20.0	17.0	
96 Styrene	104	8.944	8.944	0.000	94	405922	20.0	18.6	
97 Amyl acetate (mixed isomers)	43	9.150	9.150	0.000	90	291104	20.0	18.0	
98 Bromoform	173	9.161	9.161	0.000	94	67845	20.0	19.0	
99 Isopropylbenzene	105	9.275	9.275	0.000	96	640132	20.0	19.6	
$ 100 4-Bromofluorobenzene	174	9.481	9.481	0.000	83	202317	50.0	53.0	
101 Bromobenzene	156	9.595	9.596	-0.001	92	128050	20.0	19.2	
102 1,1,2,2-Tetrachloroethane	83	9.664	9.664	0.000	99	180413	20.0	18.0	
103 N-Propylbenzene	120	9.675	9.676	-0.001	99	173384	20.0	20.2	
104 1,2,3-Trichloropropane	110	9.698	9.698	0.000	95	48682	20.0	20.3	
105 trans-1,4-Dichloro-2-butene	53	9.721	9.721	0.000	87	57100	20.0	18.6	
106 2-Chlorotoluene	126	9.767	9.767	0.000	96	137654	20.0	19.9	
107 4-Ethyltoluene	105	9.778	9.778	0.000	98	618910	20.0	19.3	
108 1,3,5-Trimethylbenzene	105	9.847	9.847	0.000	93	547908	20.0	20.0	
109 4-Chlorotoluene	91	9.881	9.881	0.000	98	482163	20.0	19.4	
110 Butyl Methacrylate	87	9.950	9.950	0.000	98	166875	20.0	17.3	
111 tert-Butylbenzene	119	10.110	10.121	-0.011	93	433702	20.0	19.5	
112 1,2,4-Trimethylbenzene	105	10.167	10.178	-0.011	98	534787	20.0	19.9	
113 sec-Butylbenzene	105	10.304	10.304	0.000	99	708451	20.0	19.9	
114 4-Isopropyltoluene	119	10.430	10.430	0.000	98	561188	20.0	19.2	
115 1,3-Dichlorobenzene	146	10.430	10.441	-0.011	93	258401	20.0	19.7	
* 116 1,4-Dichlorobenzene-d4	152	10.498	10.498	0.000	96	215317	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.521	10.521	0.000	90	261032	20.0	19.4	
118 1,2,3-Trimethylbenzene	105	10.533	10.533	0.000	99	534997	20.0	18.7	
119 Benzyl chloride	126	10.636	10.636	0.000	97	66435	20.0	18.1	
120 2,3-Dihydroindene	117	10.693	10.693	0.000	95	507677	20.0	20.0	
121 p-Diethylbenzene	119	10.750	10.750	0.000	93	294096	20.0	19.4	
122 n-Butylbenzene	92	10.761	10.761	0.000	98	336313	20.0	18.8	
123 1,2-Dichlorobenzene	146	10.818	10.819	0.000	93	240518	20.0	18.9	
124 1,2,4,5-Tetramethylbenzene	119	11.356	11.356	0.000	96	506927	20.0	19.0	
125 1,2-Dibromo-3-Chloropropane	157	11.447	11.447	0.000	91	33359	20.0	17.8	
126 1,3,5-Trichlorobenzene	180	11.561	11.561	0.000	96	170289	20.0	18.4	
127 1,2,4-Trichlorobenzene	180	12.030	12.030	0.000	94	156370	20.0	18.0	
128 Hexachlorobutadiene	225	12.099	12.099	0.000	88	66033	20.0	17.1	
129 Naphthalene	128	12.201	12.201	0.000	99	514473	20.0	18.1	
130 1,2,3-Trichlorobenzene	180	12.384	12.384	0.000	93	149041	20.0	18.2	
S 131 1,2-Dichloroethene, Total	100				0		40.0	38.7	
S 132 1,3-Dichloropropene, Total	100				0		40.0	39.1	
S 133 Xylenes, Total	100				0		40.0	39.0	
S 134 Total BTEX	1				0		100.0	94.2	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260MIX1COMB_00154	Amount Added:	2.00	Units: uL	
524freon_00052	Amount Added:	2.00	Units: uL	
ACROLEIN W_00140	Amount Added:	3.00	Units: uL	
GASES Li_00476	Amount Added:	2.00	Units: uL	
8260SURR250_00226	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00117	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 20-May-2022 09:45:28 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220520-145507.b\V19386.D

Injection Date: 20-May-2022 06:12:30 Instrument ID: CVOAMS7 Operator ID:

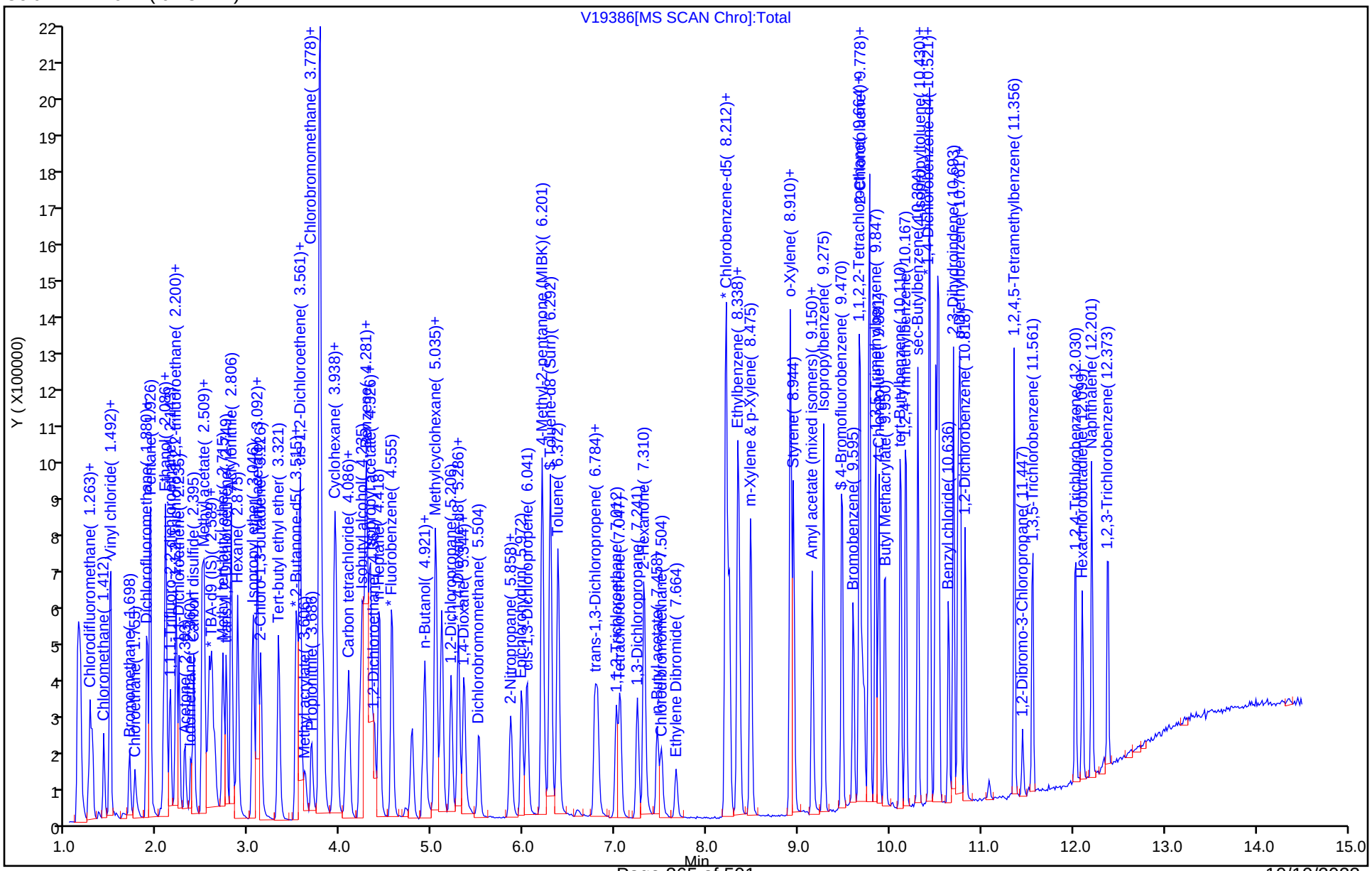
Lims ID: LCS Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8260S_7 Limit Group: VOA - 8260D Water and Solid

Column: DB-624 (0.18 mm)



10/10/2023
12:43 PM

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison | Job No.: 460-258307-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-845827/3

Matrix: Solid | Lab File ID: V19450.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 05/21/2022 08:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 845827 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	19.1		1.0	0.26
100-41-4	Ethylbenzene	19.0		1.0	0.20
108-88-3	Toluene	18.6		1.0	0.23
1330-20-7	Xylenes, Total	39.4		2.0	0.17
95-63-6	1,2,4-Trimethylbenzene	20.5		1.0	0.25
108-67-8	1,3,5-Trimethylbenzene	20.8		1.0	0.31
98-82-8	Cumene	19.8		1.0	0.29

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		72-145
460-00-4	4-Bromofluorobenzene	104		75-139
1868-53-7	Dibromofluoromethane (Surr)	98		73-139
2037-26-5	Toluene-d8 (Surr)	95		80-120

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220521-145557.b\V19450.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 21-May-2022 08:44:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0145557-003
Operator ID: Instrument ID: CVOAMS7

Method: \\chromfs\Edison\ChromData\CVOAMS7\20220521-145557.b\8260S_7.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 23-May-2022 09:34:14 Calib Date: 22-Apr-2022 03:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18072.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1657

First Level Reviewer: parekhv Date: 21-May-2022 13:37:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.275	1.275	0.000	99	158564	20.0	21.1	
2 Chlorodifluoromethane	67	1.297	1.297	0.000	99	27284	20.0	23.7	
3 Chloromethane	50	1.412	1.412	0.000	100	181300	20.0	17.1	
4 Vinyl chloride	62	1.469	1.469	0.000	97	193031	20.0	19.6	
5 Butadiene	54	1.492	1.492	0.000	99	189764	20.0	19.2	
6 Bromomethane	94	1.697	1.697	0.000	98	90076	20.0	20.9	
7 Chloroethane	64	1.755	1.755	0.000	99	98545	20.0	19.4	
8 Dichlorofluoromethane	67	1.880	1.880	0.000	98	240170	20.0	19.9	
9 Trichlorofluoromethane	101	1.892	1.892	0.000	97	189639	20.0	24.1	
10 Pentane	72	1.926	1.926	0.000	96	63907	40.0	45.7	
11 Ethanol	46	2.040	2.040	0.000	89	36282	800.0	736.6	
12 Ethyl ether	59	2.063	2.063	0.000	98	127765	20.0	19.0	
13 2-Methyl-1,3-butadiene	53	2.086	2.086	0.000	97	146868	20.0	20.3	
14 1,2-Dichloro-1,1,2-trifluoroetha	117	2.098	2.098	0.000	94	101499	20.0	21.9	
15 1,1,1-Trifluoro-2,2-dichloroetha	83	2.143	2.143	0.000	93	200060	20.0	21.1	
16 112TCTFE	101	2.200	2.200	0.000	93	118826	20.0	21.6	
17 Acrolein	56	2.200	2.200	0.000	96	295042	300.0	339.6	
18 1,1-Dichloroethene	96	2.235	2.235	0.000	95	126415	20.0	22.1	
19 Acetone	43	2.303	2.303	0.000	86	269471	100.0	86.4	
21 Iodomethane	142	2.360	2.360	0.000	98	110039	20.0	21.4	
20 Isopropyl alcohol	45	2.372	2.372	0.000	59	147338	200.0	183.0	
22 Carbon disulfide	76	2.395	2.395	0.000	99	499376	20.0	19.6	
23 3-Chloro-1-propene	39	2.486	2.486	0.000	95	280111	20.0	19.9	
25 Acetonitrile	40	2.543	2.498	0.045	34	135834	200.0	184.6	a
24 Methyl acetate	43	2.486	2.486	0.000	97	271184	40.0	32.8	
* 26 TBA-d9 (IS)	65	2.566	2.566	0.000	0	563381	1000.0	1000.0	
27 Methylene Chloride	84	2.600	2.600	0.000	96	146661	20.0	19.7	
28 2-Methyl-2-propanol	59	2.623	2.623	0.000	98	226668	200.0	193.4	
29 Methyl tert-butyl ether	73	2.715	2.715	0.000	97	442493	20.0	20.7	
30 trans-1,2-Dichloroethene	96	2.749	2.749	0.000	98	141305	20.0	19.9	
31 Acrylonitrile	53	2.806	2.806	0.000	94	701881	200.0	186.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	57	2.875	2.875	0.000	93	275829	20.0	19.6	
33 Isopropyl ether	45	3.046	3.046	0.000	97	517204	20.0	17.3	
34 1,1-Dichloroethane	63	3.092	3.092	0.000	63	295929	20.0	19.7	
35 Vinyl acetate	86	3.092	3.092	0.000	100	68005	40.0	48.2	
36 2-Chloro-1,3-butadiene	88	3.126	3.126	0.000	92	143354	20.0	21.2	
37 Tert-butyl ethyl ether	87	3.320	3.320	0.000	88	185715	20.0	20.4	
* 38 2-Butanone-d5	46	3.503	3.503	0.000	0	508585	250.0	250.0	
39 2,2-Dichloropropane	79	3.526	3.526	0.000	96	75853	20.0	21.7	
40 cis-1,2-Dichloroethene	96	3.561	3.561	0.000	52	146917	20.0	18.5	
42 2-Butanone (MEK)	72	3.561	3.561	0.000	96	116829	100.0	102.8	
41 Ethyl acetate	70	3.561	3.561	0.000	92	44431	40.0	43.8	
43 Methyl acrylate	55	3.618	3.618	0.000	99	141097	20.0	17.6	
44 Propionitrile	54	3.686	3.686	0.000	98	278446	200.0	195.7	
45 Tetrahydrofuran	72	3.766	3.766	0.000	73	53501	40.0	39.6	
46 Chlorobromomethane	128	3.766	3.766	0.000	96	62439	20.0	19.1	
47 Methacrylonitrile	67	3.778	3.778	0.000	94	750107	200.0	183.4	
48 Chloroform	83	3.812	3.812	0.000	98	246239	20.0	21.2	
49 Cyclohexane	84	3.938	3.938	0.000	94	257889	20.0	20.5	
50 1,1,1-Trichloroethane	97	3.949	3.949	0.000	98	205972	20.0	22.5	
$ 51 Dibromofluoromethane (Surr)	113	3.961	3.961	0.000	95	153941	50.0	49.0	
52 Carbon tetrachloride	117	4.063	4.063	0.000	95	164145	20.0	23.8	
53 1,1-Dichloropropene	75	4.086	4.086	0.000	93	224925	20.0	20.9	
54 Isobutyl alcohol	42	4.212	4.212	0.000	95	145149	500.0	412.3	
55 Benzene	78	4.281	4.281	0.000	97	652082	20.0	19.1	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.292	4.292	0.000	0	203948	50.0	52.4	
57 Isopropyl acetate	43	4.315	4.315	0.000	94	540139	20.0	18.4	
58 Tert-amyl methyl ether	73	4.326	4.326	0.000	90	475361	20.0	18.8	
59 1,2-Dichloroethane	62	4.372	4.372	0.000	96	192891	20.0	21.8	
60 n-Heptane	43	4.418	4.418	0.000	95	331297	20.0	19.2	
* 61 Fluorobenzene	96	4.555	4.555	0.000	98	622941	50.0	50.0	
62 n-Butanol	43	4.886	4.886	0.000	88	57862	500.0	416.3	
63 Trichloroethene	95	4.921	4.921	0.000	96	140518	20.0	19.7	
65 Methylcyclohexane	83	5.035	5.035	0.000	80	302098	20.0	20.5	a
64 Ethyl acrylate	55	5.035	5.035	0.000	93	472028	20.0	19.3	
66 1,2-Dichloropropane	63	5.206	5.206	0.000	91	167557	20.0	18.2	
68 Methyl methacrylate	100	5.286	5.286	0.000	94	74315	40.0	35.2	
* 67 1,4-Dioxane-d8	96	5.286	5.286	0.000	0	42329	1000.0	1000.0	
70 n-Propyl acetate	43	5.344	5.344	0.000	98	254940	20.0	17.3	
69 1,4-Dioxane	88	5.344	5.344	0.000	28	39091	400.0	375.5	
71 Dibromomethane	93	5.355	5.355	0.000	50	82557	20.0	19.0	
72 Dichlorobromomethane	83	5.504	5.504	0.000	98	187858	20.0	21.0	
73 2-Nitropropane	41	5.846	5.846	0.000	88	105673	40.0	41.3	
74 2-Chloroethyl vinyl ether	63	5.869	5.869	0.000	84	93036	20.0	17.8	
75 Epichlorohydrin	57	5.972	5.972	0.000	99	414816	400.0	398.2	
76 cis-1,3-Dichloropropene	75	6.041	6.041	0.000	93	263420	20.0	19.6	
77 4-Methyl-2-pentanone (MIBK)	43	6.201	6.201	0.000	97	845216	100.0	93.5	
$ 78 Toluene-d8 (Surr)	98	6.292	6.292	0.000	99	753046	50.0	47.5	
79 Toluene	91	6.372	6.372	0.000	93	639325	20.0	18.6	
80 trans-1,3-Dichloropropene	75	6.772	6.772	0.000	97	234819	20.0	20.4	
81 Ethyl methacrylate	69	6.807	6.807	0.000	74	186158	20.0	17.2	
82 1,1,2-Trichloroethane	83	7.012	7.012	0.000	94	105750	20.0	17.0	
83 Tetrachloroethene	166	7.058	7.058	0.000	91	113218	20.0	18.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1,3-Dichloropropane	76	7.241	7.241	0.000	96	235577	20.0	18.3	
85 2-Hexanone	43	7.309	7.309	0.000	97	592153	100.0	93.5	
86 n-Butyl acetate	73	7.458	7.458	0.000	98	37458	20.0	15.6	
87 Chlorodibromomethane	129	7.504	7.504	0.000	96	107593	20.0	18.9	
88 Ethylene Dibromide	107	7.664	7.664	0.000	98	115304	20.0	18.8	
* 89 Chlorobenzene-d5	117	8.212	8.212	0.000	90	470801	50.0	50.0	
90 Chlorobenzene	112	8.247	8.247	0.000	91	359833	20.0	18.8	
91 Ethylbenzene	106	8.338	8.338	0.000	99	206970	20.0	19.0	
92 1,1,1,2-Tetrachloroethane	131	8.361	8.361	0.000	95	111001	20.0	19.2	
93 m-Xylene & p-Xylene	106	8.475	8.475	0.000	99	258699	20.0	20.0	
94 o-Xylene	106	8.910	8.910	0.000	95	247841	20.0	19.4	
95 n-Butyl acrylate	73	8.910	8.910	0.000	96	109314	20.0	16.6	
96 Styrene	104	8.944	8.944	0.000	92	399481	20.0	18.1	
97 Amyl acetate (mixed isomers)	43	9.150	9.150	0.000	92	271574	20.0	17.1	
98 Bromoform	173	9.161	9.161	0.000	95	65770	20.0	18.3	
99 Isopropylbenzene	105	9.275	9.275	0.000	96	654380	20.0	19.8	
$ 100 4-Bromofluorobenzene	174	9.481	9.481	0.000	82	195521	50.0	52.2	
101 Bromobenzene	156	9.595	9.595	0.000	90	118442	20.0	18.1	
102 1,1,2,2-Tetrachloroethane	83	9.664	9.664	0.000	98	174941	20.0	17.8	
103 N-Propylbenzene	120	9.675	9.675	0.000	98	166429	20.0	19.7	
104 1,2,3-Trichloropropane	110	9.698	9.698	0.000	98	45216	20.0	19.2	
105 trans-1,4-Dichloro-2-butene	53	9.721	9.721	0.000	81	60417	20.0	20.1	
106 2-Chlorotoluene	126	9.767	9.767	0.000	95	135251	20.0	20.0	
107 4-Ethyltoluene	105	9.778	9.778	0.000	98	632427	20.0	20.1	
108 1,3,5-Trimethylbenzene	105	9.847	9.847	0.000	93	558481	20.0	20.8	
109 4-Chlorotoluene	91	9.881	9.881	0.000	98	492893	20.0	20.2	
110 Butyl Methacrylate	87	9.950	9.950	0.000	99	167847	20.0	17.8	
111 tert-Butylbenzene	119	10.110	10.110	0.000	92	449878	20.0	20.6	
112 1,2,4-Trimethylbenzene	105	10.178	10.178	0.000	97	540976	20.0	20.5	
113 sec-Butylbenzene	105	10.304	10.304	0.000	99	726842	20.0	20.9	
114 4-Isopropyltoluene	119	10.430	10.430	0.000	97	562481	20.0	19.6	
115 1,3-Dichlorobenzene	146	10.441	10.441	0.000	93	242063	20.0	18.9	
* 116 1,4-Dichlorobenzene-d4	152	10.498	10.498	0.000	98	211039	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.521	10.521	0.000	90	245971	20.0	18.7	
118 1,2,3-Trimethylbenzene	105	10.533	10.533	0.000	99	548342	20.0	19.5	
119 Benzyl chloride	126	10.636	10.636	0.000	97	67455	20.0	18.7	
120 2,3-Dihydroindene	117	10.693	10.693	0.000	94	509352	20.0	18.9	
121 p-Diethylbenzene	119	10.750	10.750	0.000	92	296758	20.0	20.0	
122 n-Butylbenzene	92	10.761	10.761	0.000	96	343882	20.0	19.6	
123 1,2-Dichlorobenzene	146	10.818	10.818	0.000	91	234462	20.0	18.7	
124 1,2,4,5-Tetramethylbenzene	119	11.356	11.356	0.000	96	507580	20.0	19.4	
125 1,2-Dibromo-3-Chloropropane	157	11.447	11.447	0.000	88	30885	20.0	16.8	
126 1,3,5-Trichlorobenzene	180	11.561	11.561	0.000	94	167887	20.0	18.5	
127 1,2,4-Trichlorobenzene	180	12.030	12.030	0.000	93	155041	20.0	18.2	
128 Hexachlorobutadiene	225	12.099	12.099	0.000	91	74383	20.0	19.6	
129 Naphthalene	128	12.201	12.201	0.000	98	497189	20.0	17.9	
130 1,2,3-Trichlorobenzene	180	12.384	12.384	0.000	94	149795	20.0	18.7	
S 131 1,2-Dichloroethene, Total	100				0		40.0	38.3	
S 132 1,3-Dichloropropene, Total	100				0		40.0	40.0	
S 133 Xylenes, Total	100				0		40.0	39.4	
S 134 Total BTEX	1				0		100.0	96.2	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260MIX1COMB_00154	Amount Added:	2.00	Units: uL	
524freon_00052	Amount Added:	2.00	Units: uL	
ACROLEIN W_00140	Amount Added:	3.00	Units: uL	
GASES Li_00476	Amount Added:	2.00	Units: uL	
8260SURR250_00226	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00117	Amount Added:	1.00	Units: uL	Run Reagent

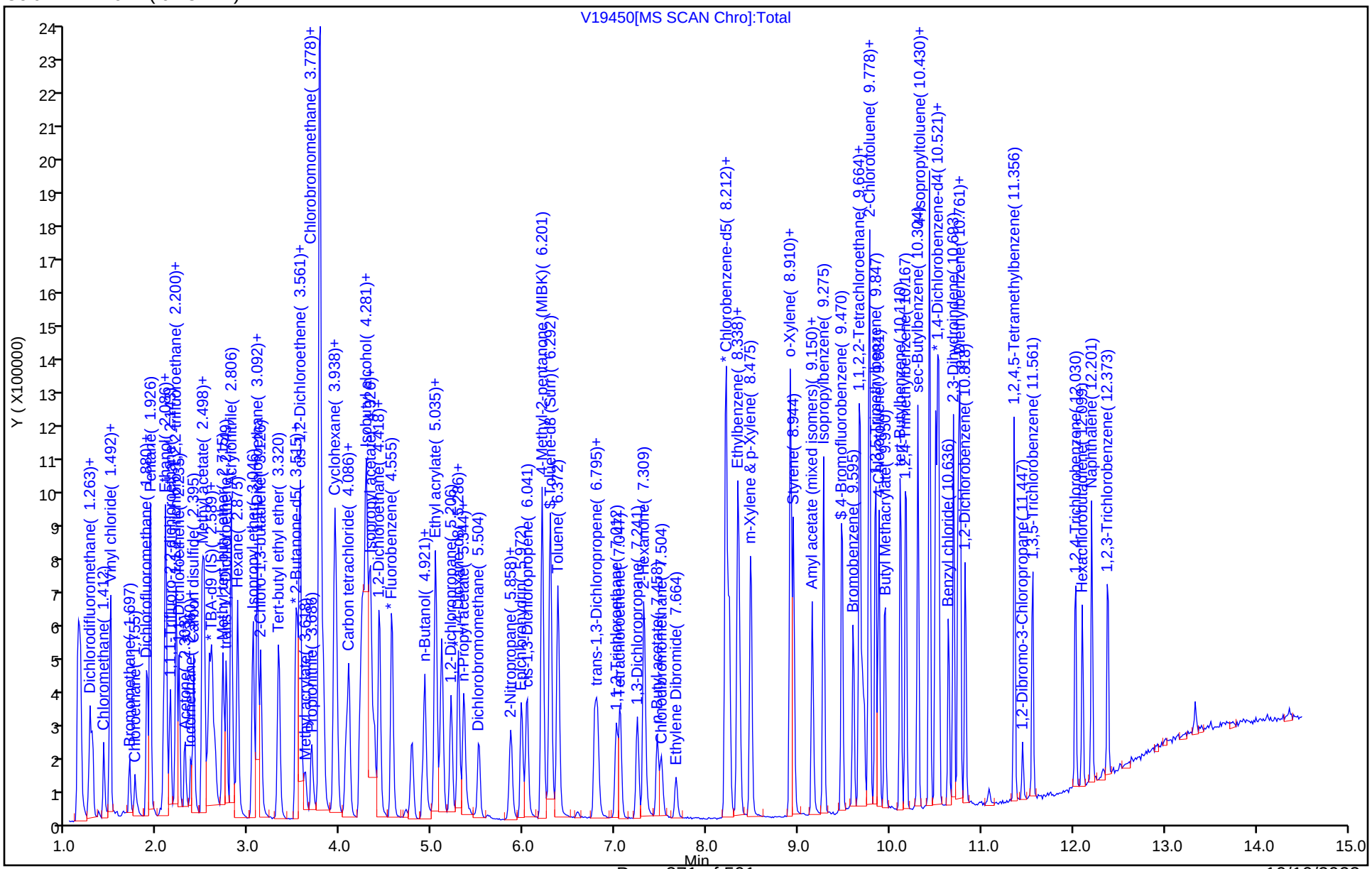
Report Date: 23-May-2022 09:34:15 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220521-145557.b\V19450.D

Injection Date:	21-May-2022 08:44:30	Instrument ID:	CVOAMS7	Operator ID:	
Lims ID:	LCS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260S_7	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



10/10/2023
12:43 PM

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison | Job No.: 460-258307-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-846046/4

Matrix: Solid | Lab File ID: O77037.d

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 05/23/2022 06:20

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 50

Soil Extract Vol.: 5(mL) | GC Column: DB-624 ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Medium

Analysis Batch No.: 846046 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	858		50	10

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		68-150
460-00-4	4-Bromofluorobenzene	97		70-150
1868-53-7	Dibromofluoromethane (Surr)	91		68-150
2037-26-5	Toluene-d8 (Surr)	94		80-147

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220523-145613.b\O77037.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 23-May-2022 06:20:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: LCS
Misc. Info.: 460-0145613-004
Operator ID: Instrument ID: CVOAMS12

Method: \\chromfs\Edison\ChromData\CVOAMS12\20220523-145613.b\8260W_12.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 23-May-2022 17:28:12 Calib Date: 22-May-2022 11:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\O76991.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1657

First Level Reviewer: delpolitov Date: 23-May-2022 17:32:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116	0.867	0.867	0.000	84	18811	20.0	17.5	
3 Dichlorodifluoromethane	85	0.890	0.890	0.000	99	79829	20.0	19.0	
5 Chlorodifluoromethane	67	0.902	0.901	0.001	97	11012	20.0	16.7	
6 Chloromethane	50	0.993	0.993	0.000	99	68466	20.0	17.6	
7 Vinyl chloride	62	1.050	1.050	0.000	97	71175	20.0	17.6	
8 Butadiene	54	1.073	1.073	0.000	96	62736	20.0	17.7	
9 Bromomethane	94	1.233	1.232	0.001	99	62925	20.0	20.5	
10 Chloroethane	64	1.290	1.278	0.012	99	44738	20.0	18.4	
11 Dichlorofluoromethane	67	1.392	1.392	0.000	98	112059	20.0	19.7	
12 Trichlorofluoromethane	101	1.427	1.427	0.000	98	111750	20.0	19.8	
13 Pentane	57	1.472	1.472	0.000	95	23286	40.0	38.9	
14 Ethanol	46	1.529	1.529	0.000	95	7459	800.0	789.1	
15 Ethyl ether	59	1.598	1.598	0.000	92	34201	20.0	16.0	
16 1,2-Dichloro-1,1,2-trifluoroetha	117	1.598	1.598	0.000	86	45665	20.0	15.8	
17 2-Methyl-1,3-butadiene	53	1.609	1.609	0.000	95	46551	20.0	16.8	
18 1,1,1-Trifluoro-2,2-dichloroetha	83	1.632	1.632	0.000	91	59687	20.0	16.3	
19 Acrolein	56	1.666	1.666	0.000	95	6515	40.0	40.0	
20 1,1-Dichloroethene	96	1.724	1.723	0.001	96	49969	20.0	16.9	
21 112TCTFE	101	1.735	1.735	0.000	95	52979	20.0	18.8	
22 Acetone	58	1.758	1.758	0.000	85	12735	100.0	85.3	
23 Iodomethane	142	1.815	1.815	0.000	99	103197	20.0	18.6	
24 Isopropyl alcohol	45	1.849	1.849	0.000	38	18938	200.0	197.9	
25 Carbon disulfide	76	1.861	1.860	0.001	100	172166	20.0	17.2	
26 Acetonitrile	38	1.952	1.952	0.000	74	16983	200.0	160.5	
27 3-Chloro-1-propene	76	1.952	1.952	0.000	90	34815	20.0	18.1	
28 Methyl acetate	43	1.963	1.963	0.000	98	31567	40.0	31.7	
29 Cyclopentene	67	2.009	2.009	0.000	96	108410	20.0	15.9	
30 Methylene Chloride	84	2.032	2.032	0.000	88	60246	20.0	17.2	
* 31 TBA-d9 (IS)	65	2.043	2.043	0.000	99	151878	1000.0	1000.0	
32 2-Methyl-2-propanol	59	2.100	2.100	0.000	98	28551	200.0	207.7	
33 Acrylonitrile	53	2.180	2.180	0.000	94	118216	200.0	171.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 trans-1,2-Dichloroethene	96	2.214	2.214	0.000	68	55022	20.0	16.8	
35 Methyl tert-butyl ether	73	2.214	2.214	0.000	96	155708	20.0	16.7	
36 Hexane	57	2.420	2.408	0.012	90	50670	20.0	19.2	
37 1,1-Dichloroethane	63	2.500	2.500	0.000	100	87918	20.0	15.9	
38 Vinyl acetate	86	2.546	2.545	0.001	99	24756	40.0	39.9	
39 Isopropyl ether	45	2.568	2.568	0.000	87	168612	20.0	16.9	
40 2-Chloro-1,3-butadiene	88	2.580	2.580	0.000	91	59478	20.0	17.7	
41 Tert-butyl ethyl ether	59	2.842	2.842	0.000	92	170267	20.0	16.5	
* 43 2-Butanone-d5	46	2.911	2.911	0.000	100	188076	250.0	250.0	
44 2,2-Dichloropropane	97	2.945	2.945	0.000	85	22075	20.0	19.7	
45 cis-1,2-Dichloroethene	96	2.945	2.945	0.000	96	57763	20.0	16.2	
46 2-Butanone (MEK)	72	2.957	2.956	0.001	99	22290	100.0	90.0	
42 Propionitrile	54	3.002	3.002	0.000	98	42839	200.0	183.5	
47 Ethyl acetate	70	3.025	3.025	0.000	99	9120	40.0	35.5	
48 Methyl acrylate	55	3.048	3.048	0.000	99	40588	20.0	18.5	
50 Methacrylonitrile	67	3.128	3.128	0.000	89	168294	200.0	170.3	
49 Chlorobromomethane	128	3.139	3.139	0.000	76	34645	20.0	17.3	
51 Tetrahydrofuran	42	3.185	3.185	0.000	85	15968	40.0	31.3	
52 Chloroform	83	3.208	3.208	0.000	99	94237	20.0	16.6	
$ 53 Dibromofluoromethane (Surr)	113	3.345	3.345	0.000	98	151335	50.0	45.6	
54 1,1,1-Trichloroethane	97	3.368	3.367	0.001	98	102133	20.0	17.9	
55 Cyclohexane	84	3.413	3.413	0.000	89	74978	20.0	18.9	
56 Carbon tetrachloride	117	3.516	3.516	0.000	96	91834	20.0	17.6	
57 1,1-Dichloropropene	75	3.516	3.516	0.000	95	82067	20.0	17.9	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	3.642	3.641	0.001	0	157253	50.0	46.0	
61 Isobutyl alcohol	43	3.664	3.664	0.000	98	32959	500.0	457.0	a
59 Benzene	78	3.699	3.699	0.000	95	236474	20.0	17.2	
60 1,2-Dichloroethane	62	3.710	3.710	0.000	96	71491	20.0	16.4	
63 Isopropyl acetate	61	3.801	3.801	0.000	96	17411	20.0	16.9	
62 Isooctane	57	3.801	3.801	0.000	95	136736	20.0	23.3	
64 Tert-amyl methyl ether	73	3.824	3.824	0.000	98	168191	20.0	17.3	
* 65 Fluorobenzene	96	3.961	3.961	0.000	99	616040	50.0	50.0	
66 n-Heptane	43	3.995	3.995	0.000	87	47480	20.0	20.6	
67 Trichloroethene	95	4.338	4.338	0.000	94	65448	20.0	18.1	
68 n-Butanol	56	4.372	4.372	0.000	94	15245	500.0	364.1	
69 Ethyl acrylate	55	4.498	4.498	0.000	97	44536	20.0	13.5	
70 Methylcyclohexane	83	4.532	4.532	0.000	94	70717	20.0	19.5	
71 1,2-Dichloropropane	63	4.555	4.555	0.000	90	57501	20.0	17.1	
* 72 1,4-Dioxane-d8	96	4.669	4.669	0.000	0	31878	1000.0	1000.0	
73 Dibromomethane	93	4.681	4.680	0.000	90	33521	20.0	17.2	
74 1,4-Dioxane	88	4.726	4.726	0.000	30	14209	400.0	468.5	
75 Methyl methacrylate	100	4.738	4.737	0.001	82	31263	40.0	37.5	
76 n-Propyl acetate	43	4.829	4.829	0.000	97	57499	20.0	16.0	
77 Dichlorobromomethane	83	4.875	4.874	0.001	99	81005	20.0	17.3	
78 2-Nitropropane	41	5.137	5.137	0.000	98	22910	40.0	27.2	
79 2-Chloroethyl vinyl ether	63	5.263	5.263	0.000	93	31972	20.0	17.3	
80 Epichlorohydrin	57	5.297	5.297	0.000	99	77656	400.0	387.6	
81 cis-1,3-Dichloropropene	75	5.400	5.400	0.000	93	103400	20.0	18.1	
82 4-Methyl-2-pentanone (MIBK)	43	5.617	5.617	0.000	96	196156	100.0	91.2	
$ 83 Toluene-d8 (Surr)	98	5.719	5.719	0.000	99	623252	50.0	47.2	
84 Toluene	91	5.799	5.799	0.000	94	261943	20.0	17.6	
85 trans-1,3-Dichloropropene	75	6.108	6.108	0.000	97	90821	20.0	17.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
86 Ethyl methacrylate	69	6.290	6.290	0.000	86	62918	20.0	17.7	a
87 1,1,2-Trichloroethane	83	6.325	6.324	0.001	92	42928	20.0	17.0	
88 Tetrachloroethene	166	6.496	6.496	0.000	96	75073	20.0	18.5	
89 1,3-Dichloropropane	76	6.541	6.541	0.000	92	87655	20.0	16.8	
90 2-Hexanone	43	6.724	6.724	0.000	96	119419	100.0	94.8	
91 Chlorodibromomethane	129	6.838	6.838	0.000	98	68621	20.0	17.2	
93 Ethylene Dibromide	107	6.964	6.964	0.000	97	58354	20.0	17.2	
92 n-Butyl acetate	43	6.964	6.964	0.000	96	59940	20.0	17.2	
* 94 Chlorobenzene-d5	117	7.649	7.649	0.000	83	536664	50.0	50.0	
95 Chlorobenzene	112	7.683	7.683	0.000	98	185471	20.0	17.8	
96 1,1,1,2-Tetrachloroethane	131	7.820	7.820	0.000	94	70242	20.0	17.3	
97 Ethylbenzene	106	7.889	7.889	0.000	97	93235	20.0	18.3	
98 m-Xylene & p-Xylene	106	8.083	8.083	0.000	99	113232	20.0	17.6	
99 o-Xylene	106	8.665	8.665	0.000	95	113506	20.0	17.9	
100 Styrene	104	8.699	8.699	0.000	97	199149	20.0	18.3	
101 n-Butyl acrylate	73	8.768	8.768	0.000	96	32823	20.0	15.7	
102 Bromoform	173	8.916	8.916	0.000	98	47528	20.0	15.9	
103 Amyl acetate (mixed isomers)	43	9.156	9.156	0.000	92	69300	20.0	15.6	
104 Isopropylbenzene	105	9.270	9.270	0.000	95	254252	20.0	18.2	
$ 105 4-Bromofluorobenzene	174	9.476	9.475	0.001	96	247220	50.0	48.3	
106 Bromobenzene	156	9.658	9.658	0.000	85	89860	20.0	17.7	
107 1,1,2,2-Tetrachloroethane	83	9.772	9.772	0.000	96	61362	20.0	16.5	
108 1,2,3-Trichloropropane	75	9.795	9.795	0.000	95	49008	20.0	18.5	
109 trans-1,4-Dichloro-2-butene	75	9.875	9.875	0.000	93	24385	20.0	15.9	
110 N-Propylbenzene	91	9.944	9.932	0.012	100	260507	20.0	18.4	
111 2-Chlorotoluene	91	10.012	10.012	0.000	96	208291	20.0	20.4	
112 4-Ethyltoluene	105	10.138	10.138	0.000	99	240536	20.0	18.4	
113 4-Chlorotoluene	91	10.206	10.206	0.000	94	212280	20.0	20.3	
114 1,3,5-Trimethylbenzene	105	10.263	10.263	0.000	94	192994	20.0	18.3	
115 Butyl Methacrylate	87	10.537	10.537	0.000	91	70978	20.0	17.2	
116 tert-Butylbenzene	119	10.766	10.766	0.000	96	178639	20.0	18.5	
117 1,2,4-Trimethylbenzene	105	10.857	10.857	0.000	96	197223	20.0	18.3	
118 sec-Butylbenzene	105	11.131	11.131	0.000	99	236467	20.0	19.0	
119 1,3-Dichlorobenzene	146	11.222	11.222	0.000	98	154337	20.0	18.5	
* 120 1,4-Dichlorobenzene-d4	152	11.314	11.314	0.000	93	345005	50.0	50.0	
121 1,4-Dichlorobenzene	146	11.348	11.348	0.000	96	162340	20.0	18.1	
122 4-Isopropyltoluene	119	11.371	11.371	0.000	98	206978	20.0	19.0	
123 1,2,3-Trimethylbenzene	105	11.451	11.451	0.000	97	209209	20.0	18.2	
124 Benzyl chloride	126	11.542	11.542	0.000	100	33275	20.0	19.1	
125 2,3-Dihydroindene	117	11.645	11.645	0.000	94	247073	20.0	17.6	
126 1,2-Dichlorobenzene	146	11.759	11.759	0.000	98	158340	20.0	18.9	
127 p-Diethylbenzene	119	11.805	11.805	0.000	95	102948	20.0	19.0	
128 n-Butylbenzene	92	11.827	11.827	0.000	98	89543	20.0	19.9	
129 1,2-Dibromo-3-Chloropropane	157	12.455	12.455	0.000	90	17313	20.0	16.4	
130 1,2,4,5-Tetramethylbenzene	119	12.467	12.467	0.000	98	125870	20.0	19.5	
131 1,3,5-Trichlorobenzene	180	12.615	12.615	0.000	97	89653	20.0	20.9	
132 1,2,4-Trichlorobenzene	180	13.015	13.015	0.000	92	79698	20.0	20.9	
133 Hexachlorobutadiene	225	13.129	13.129	0.000	98	50764	20.0	21.2	
134 Naphthalene	128	13.152	13.152	0.000	99	136756	20.0	18.3	
135 1,2,3-Trichlorobenzene	180	13.289	13.289	0.000	95	67664	20.0	20.5	
S 137 1,2-Dichloroethene, Total	100				0		40.0	33.0	
S 138 Xylenes, Total	100				0		40.0	35.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 139 Total BTEX	1				0		100.0	88.5	

QC Flag Legend

Processing Flags
Review Flags
a - User Assigned ID

Reagents:

GASES Li_00476	Amount Added:	20.00	Units: uL	
524freon_00052	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00154	Amount Added:	20.00	Units: uL	
ACROLEIN W_00140	Amount Added:	4.00	Units: uL	
8260SURR250_00226	Amount Added:	1.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent

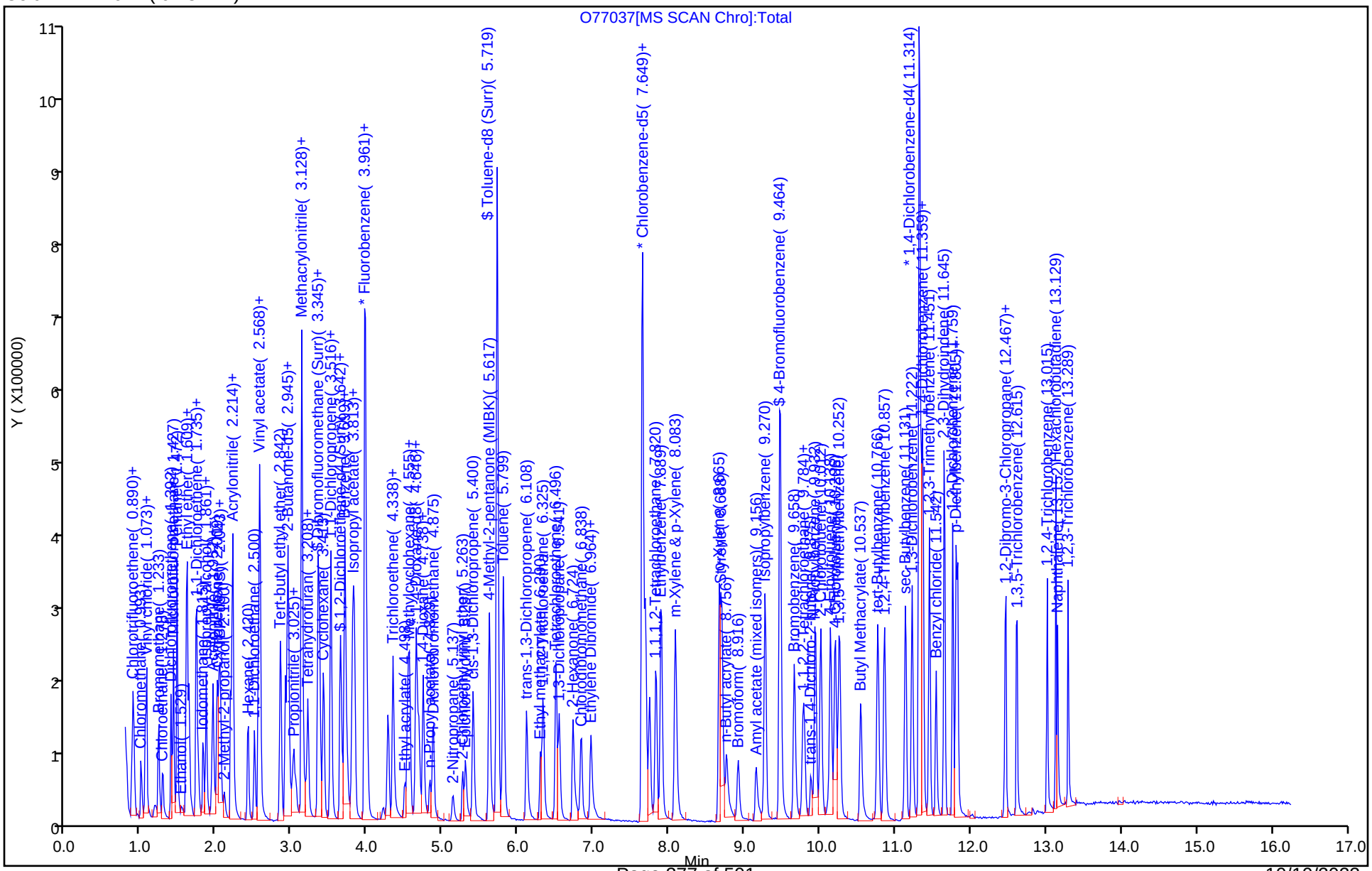
Report Date: 23-May-2022 17:32:02 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220523-145613.b\O77037.d

Injection Date:	23-May-2022 06:20:30	Instrument ID:	CVOAMS12	Operator ID:	
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	50.0000	ALS Bottle#:	3
Method:	8260W_12	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



10/10/2023
12:43 PM

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison | Job No.: 460-258307-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-846050/4

Matrix: Solid | Lab File ID: V19568.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 05/23/2022 07:46

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 846050 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	19.1		1.0	0.26
100-41-4	Ethylbenzene	17.8		1.0	0.20
108-88-3	Toluene	18.5		1.0	0.23
1330-20-7	Xylenes, Total	37.4		2.0	0.17
95-63-6	1,2,4-Trimethylbenzene	19.1		1.0	0.25
108-67-8	1,3,5-Trimethylbenzene	19.4		1.0	0.31
98-82-8	Cumene	18.9		1.0	0.29

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		72-145
460-00-4	4-Bromofluorobenzene	102		75-139
1868-53-7	Dibromofluoromethane (Surr)	98		73-139
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220523-145615.b\V19568.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 23-May-2022 07:46:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0145615-004
Operator ID: Instrument ID: CVOAMS7

Method: \\chromfs\Edison\ChromData\CVOAMS7\20220523-145615.b\8260S_7.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 23-May-2022 12:19:38 Calib Date: 22-Apr-2022 03:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18072.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1657

First Level Reviewer: tupayachia Date: 23-May-2022 10:10:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.275	1.275	0.000	99	198311	20.0	24.1	
2 Chlorodifluoromethane	67	1.297	1.297	0.000	97	25591	20.0	20.3	
3 Chloromethane	50	1.412	1.412	0.000	99	229993	20.0	19.8	
4 Vinyl chloride	62	1.469	1.469	0.000	98	232547	20.0	21.5	
5 Butadiene	54	1.492	1.492	0.000	97	239651	20.0	22.2	
6 Bromomethane	94	1.697	1.697	0.000	97	111145	20.0	23.6	
7 Chloroethane	64	1.755	1.755	0.000	99	119358	20.0	21.5	
8 Dichlorofluoromethane	67	1.880	1.880	0.000	98	277696	20.0	21.1	
9 Trichlorofluoromethane	101	1.892	1.892	0.000	97	204640	20.0	23.7	
10 Pentane	72	1.926	1.926	0.000	96	61653	40.0	40.3	
11 Ethanol	46	2.029	2.029	0.000	91	37766	800.0	705.9	
12 Ethyl ether	59	2.063	2.063	0.000	91	140544	20.0	19.1	
13 2-Methyl-1,3-butadiene	53	2.086	2.086	0.000	98	158975	20.0	20.1	
14 1,2-Dichloro-1,1,2-trifluoroetha	117	2.098	2.098	0.000	96	101241	20.0	20.0	
15 1,1,1-Trifluoro-2,2-dichloroetha	83	2.143	2.143	0.000	96	189021	20.0	18.3	
16 112TCTFE	101	2.200	2.200	0.000	93	129466	20.0	21.5	
17 Acrolein	56	2.200	2.200	0.000	96	302264	300.0	320.3	
18 1,1-Dichloroethene	96	2.235	2.235	0.000	93	126653	20.0	20.2	
19 Acetone	43	2.303	2.303	0.000	87	292660	100.0	88.7	
21 Iodomethane	142	2.360	2.360	0.000	97	120828	20.0	21.5	
20 Isopropyl alcohol	45	2.372	2.372	0.000	62	149960	200.0	171.4	
22 Carbon disulfide	76	2.395	2.395	0.000	99	533023	20.0	19.2	
23 3-Chloro-1-propene	39	2.486	2.486	0.000	94	346054	20.0	22.4	
24 Methyl acetate	43	2.486	2.486	0.000	98	309782	40.0	34.3	
25 Acetonitrile	40	2.543	2.486	0.057	97	151690	200.0	189.8	a
* 26 TBA-d9 (IS)	65	2.566	2.566	0.000	0	611991	1000.0	1000.0	
27 Methylene Chloride	84	2.600	2.600	0.000	97	153984	20.0	18.9	
28 2-Methyl-2-propanol	59	2.623	2.623	0.000	98	243828	200.0	191.5	
29 Methyl tert-butyl ether	73	2.715	2.715	0.000	97	467141	20.0	20.0	
30 trans-1,2-Dichloroethene	96	2.749	2.749	0.000	98	149801	20.0	19.3	
31 Acrylonitrile	53	2.806	2.806	0.000	95	766934	200.0	187.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	57	2.875	2.875	0.000	93	305592	20.0	19.9	
33 Isopropyl ether	45	3.046	3.046	0.000	98	588963	20.0	18.0	
35 Vinyl acetate	86	3.092	3.092	0.000	100	68375	40.0	45.8	
34 1,1-Dichloroethane	63	3.092	3.092	0.000	66	320444	20.0	19.5	
36 2-Chloro-1,3-butadiene	88	3.126	3.126	0.000	92	147245	20.0	19.9	
37 Tert-butyl ethyl ether	87	3.320	3.320	0.000	89	192900	20.0	19.4	
* 38 2-Butanone-d5	46	3.503	3.503	0.000	0	538316	250.0	250.0	
39 2,2-Dichloropropane	79	3.526	3.526	0.000	96	75496	20.0	19.8	
40 cis-1,2-Dichloroethene	96	3.549	3.561	-0.011	89	166704	20.0	19.1	
42 2-Butanone (MEK)	72	3.561	3.561	0.001	96	117711	100.0	97.9	
41 Ethyl acetate	70	3.561	3.561	0.001	94	50055	40.0	46.6	
43 Methyl acrylate	55	3.618	3.618	0.000	99	155480	20.0	17.8	
44 Propionitrile	54	3.686	3.686	0.000	97	301199	200.0	200.0	
45 Tetrahydrofuran	72	3.766	3.766	0.000	81	56705	40.0	39.7	
46 Chlorobromomethane	128	3.766	3.766	0.000	95	66056	20.0	18.5	
47 Methacrylonitrile	67	3.778	3.778	0.000	94	815614	200.0	182.3	
48 Chloroform	83	3.812	3.812	0.000	98	258843	20.0	20.4	
49 Cyclohexane	84	3.938	3.938	0.000	94	274667	20.0	20.0	
50 1,1,1-Trichloroethane	97	3.938	3.938	0.000	96	206487	20.0	20.6	
$ 51 Dibromofluoromethane (Surr)	113	3.961	3.961	0.000	95	167912	50.0	48.8	
52 Carbon tetrachloride	117	4.063	4.063	0.000	95	162534	20.0	21.5	
53 1,1-Dichloropropene	75	4.086	4.086	0.000	94	234085	20.0	19.9	
54 Isobutyl alcohol	42	4.212	4.212	0.000	95	172351	500.0	450.7	
55 Benzene	78	4.281	4.281	0.000	97	691504	20.0	19.1	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.292	4.292	0.000	0	216733	50.0	50.9	
57 Isopropyl acetate	43	4.315	4.315	0.000	95	582381	20.0	18.1	
58 Tert-amyl methyl ether	73	4.326	4.326	0.000	91	500825	20.0	18.1	
59 1,2-Dichloroethane	62	4.372	4.372	0.000	96	207388	20.0	21.4	
60 n-Heptane	43	4.418	4.418	0.000	94	355220	20.0	18.8	
* 61 Fluorobenzene	96	4.555	4.555	0.000	97	681501	50.0	50.0	
62 n-Butanol	43	4.886	4.898	-0.012	87	69641	500.0	459.0	
63 Trichloroethene	95	4.921	4.921	0.000	93	153299	20.0	19.6	
64 Ethyl acrylate	55	5.035	5.035	0.000	93	505200	20.0	18.8	a
65 Methylcyclohexane	83	5.035	5.035	0.000	79	315184	20.0	19.5	
66 1,2-Dichloropropane	63	5.206	5.206	0.000	90	181365	20.0	18.1	
* 67 1,4-Dioxane-d8	96	5.286	5.275	0.011	0	47291	1000.0	1000.0	M
68 Methyl methacrylate	100	5.286	5.286	0.000	93	86182	40.0	37.3	
69 1,4-Dioxane	88	5.332	5.332	0.000	28	42455	400.0	365.0	
70 n-Propyl acetate	43	5.344	5.344	0.000	98	295932	20.0	18.3	
71 Dibromomethane	93	5.344	5.344	0.000	78	80106	20.0	16.8	
72 Dichlorobromomethane	83	5.504	5.504	0.000	98	194309	20.0	19.9	
73 2-Nitropropane	41	5.846	5.846	0.000	89	114874	40.0	41.0	
74 2-Chloroethyl vinyl ether	63	5.858	5.869	-0.011	88	100996	20.0	17.7	
75 Epichlorohydrin	57	5.972	5.972	0.000	99	438221	400.0	397.4	
76 cis-1,3-Dichloropropene	75	6.029	6.029	0.000	94	267209	20.0	18.7	
77 4-Methyl-2-pentanone (MIBK)	43	6.201	6.201	0.000	97	936385	100.0	97.8	
$ 78 Toluene-d8 (Surr)	98	6.292	6.292	0.000	98	826601	50.0	49.1	
79 Toluene	91	6.372	6.372	0.000	94	672513	20.0	18.5	
80 trans-1,3-Dichloropropene	75	6.772	6.772	0.000	98	243951	20.0	20.0	
81 Ethyl methacrylate	69	6.807	6.807	0.000	73	208443	20.0	17.6	
82 1,1,2-Trichloroethane	83	7.012	7.012	0.000	95	114527	20.0	17.4	
83 Tetrachloroethene	166	7.047	7.047	0.000	92	114340	20.0	17.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1,3-Dichloropropane	76	7.241	7.241	0.000	95	259379	20.0	19.0	
85 2-Hexanone	43	7.309	7.309	0.000	97	638959	100.0	95.3	
86 n-Butyl acetate	73	7.458	7.458	0.000	99	43948	20.0	17.2	
87 Chlorodibromomethane	129	7.504	7.504	0.000	97	110508	20.0	18.3	
88 Ethylene Dibromide	107	7.664	7.664	0.000	99	121594	20.0	18.7	
* 89 Chlorobenzene-d5	117	8.212	8.212	0.000	91	499303	50.0	50.0	
90 Chlorobenzene	112	8.247	8.247	0.000	89	370313	20.0	18.2	
91 Ethylbenzene	106	8.338	8.338	0.000	99	205156	20.0	17.8	
92 1,1,1,2-Tetrachloroethane	131	8.361	8.361	0.000	94	120303	20.0	19.6	
93 m-Xylene & p-Xylene	106	8.475	8.475	0.000	97	257538	20.0	18.8	
94 o-Xylene	106	8.910	8.910	0.000	92	252785	20.0	18.6	
95 n-Butyl acrylate	73	8.910	8.910	0.000	95	110330	20.0	15.8	
96 Styrene	104	8.944	8.944	0.000	93	416639	20.0	17.8	
97 Amyl acetate (mixed isomers)	43	9.150	9.150	0.000	91	299298	20.0	17.2	
98 Bromoform	173	9.161	9.161	0.000	92	68555	20.0	18.0	
99 Isopropylbenzene	105	9.275	9.275	0.000	96	661810	20.0	18.9	
$ 100 4-Bromofluorobenzene	174	9.470	9.470	0.000	80	208974	50.0	51.0	
101 Bromobenzene	156	9.595	9.595	0.000	91	124312	20.0	17.4	
102 1,1,2,2-Tetrachloroethane	83	9.664	9.664	0.000	99	187544	20.0	17.5	
103 N-Propylbenzene	120	9.675	9.675	0.000	98	169460	20.0	18.4	
104 1,2,3-Trichloropropane	110	9.698	9.698	0.000	96	48205	20.0	18.7	
105 trans-1,4-Dichloro-2-butene	53	9.721	9.721	0.000	80	61923	20.0	18.9	
106 2-Chlorotoluene	126	9.767	9.767	0.000	96	137896	20.0	18.6	
107 4-Ethyltoluene	105	9.778	9.778	0.000	98	657699	20.0	19.1	
108 1,3,5-Trimethylbenzene	105	9.835	9.847	-0.012	92	570127	20.0	19.4	
109 4-Chlorotoluene	91	9.881	9.881	0.000	98	511007	20.0	19.2	
110 Butyl Methacrylate	87	9.938	9.938	0.000	95	179986	20.0	17.4	
111 tert-Butylbenzene	119	10.110	10.110	0.000	92	452952	20.0	19.0	
112 1,2,4-Trimethylbenzene	105	10.167	10.167	0.000	98	550149	20.0	19.1	
113 sec-Butylbenzene	105	10.304	10.304	0.000	98	723617	20.0	19.0	
114 4-Isopropyltoluene	119	10.430	10.430	0.000	97	560974	20.0	17.9	
115 1,3-Dichlorobenzene	146	10.430	10.430	0.000	90	254019	20.0	18.1	
* 116 1,4-Dichlorobenzene-d4	152	10.498	10.498	0.000	97	230722	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.521	10.521	0.000	90	253227	20.0	17.6	
118 1,2,3-Trimethylbenzene	105	10.533	10.533	0.000	100	574292	20.0	18.7	
119 Benzyl chloride	126	10.636	10.636	0.000	97	61472	20.0	15.6	
120 2,3-Dihydroindene	117	10.693	10.693	0.000	95	513544	20.0	17.4	
121 p-Diethylbenzene	119	10.738	10.750	-0.012	91	281542	20.0	17.3	
122 n-Butylbenzene	92	10.761	10.761	0.000	97	347500	20.0	18.1	
123 1,2-Dichlorobenzene	146	10.818	10.818	0.000	92	245366	20.0	17.9	
124 1,2,4,5-Tetramethylbenzene	119	11.356	11.356	0.000	96	514323	20.0	18.0	
125 1,2-Dibromo-3-Chloropropane	157	11.447	11.447	0.000	90	31721	20.0	15.8	
126 1,3,5-Trichlorobenzene	180	11.561	11.561	0.000	95	164635	20.0	16.6	
127 1,2,4-Trichlorobenzene	180	12.030	12.030	0.000	93	151743	20.0	16.3	
128 Hexachlorobutadiene	225	12.099	12.099	0.000	90	69731	20.0	16.8	
129 Naphthalene	128	12.201	12.201	0.000	99	517823	20.0	17.0	
130 1,2,3-Trichlorobenzene	180	12.384	12.373	0.011	94	148570	20.0	16.9	
S 131 1,2-Dichloroethene, Total	100				0		40.0	38.4	
S 132 1,3-Dichloropropene, Total	100				0		40.0	38.7	
S 133 Xylenes, Total	100				0		40.0	37.4	
S 134 Total BTEX	1				0		100.0	92.8	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260MIX1COMB_00154	Amount Added:	2.00	Units: uL	
524freon_00052	Amount Added:	2.00	Units: uL	
ACROLEIN W_00140	Amount Added:	3.00	Units: uL	
GASES Li_00476	Amount Added:	2.00	Units: uL	
8260SURR250_00226	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00117	Amount Added:	1.00	Units: uL	Run Reagent

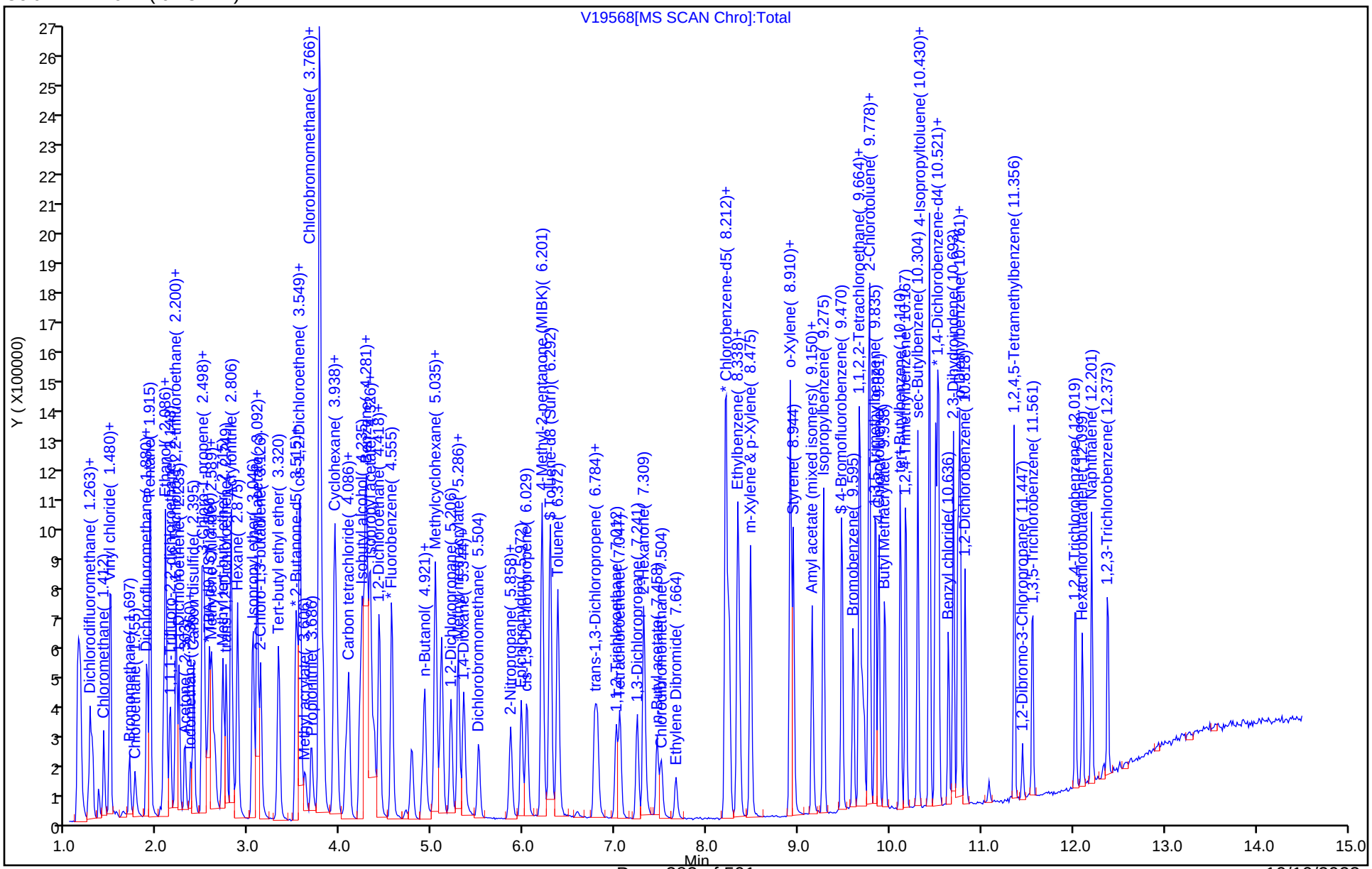
Report Date: 23-May-2022 12:20:26 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220523-145615.b\V19568.D

Injection Date:	23-May-2022 07:46:30	Instrument ID:	CVOAMS7	Operator ID:	
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260S_7	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



10/10/2023
12:43 PM

Manual Integration/User Assign Peak Report

Eurofins Edison

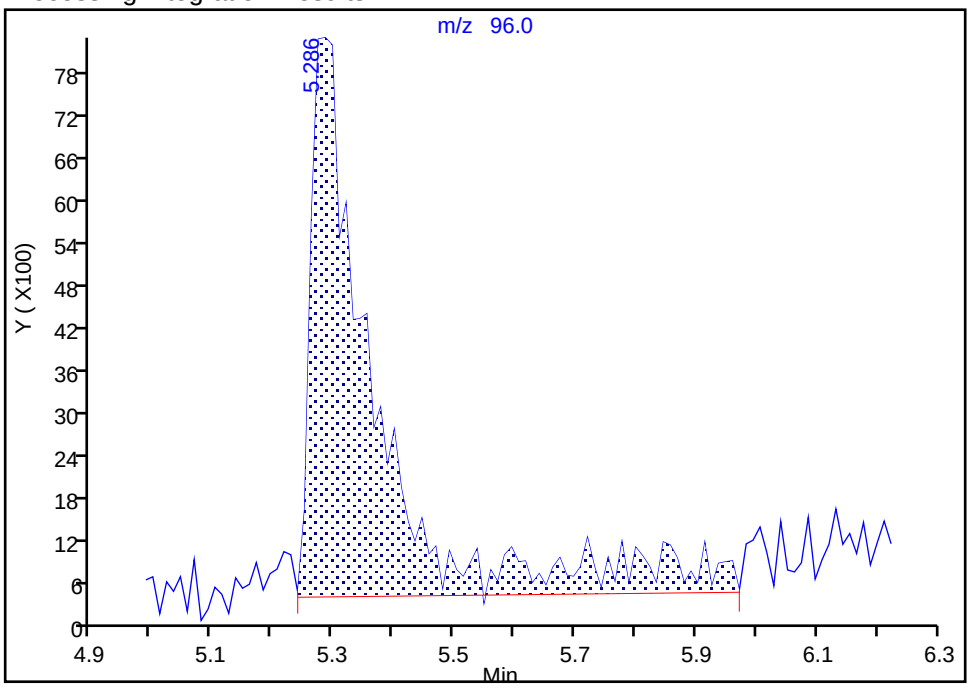
Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220523-145615.b\V19568.D
Injection Date: 23-May-2022 07:46:30 Instrument ID: CVOAMS7
Lims ID: LCS
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S_7 Limit Group: VOA - 8260D Water and Solid
Column: DB-624 (0.18 mm) Detector MS SCAN

* 67 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

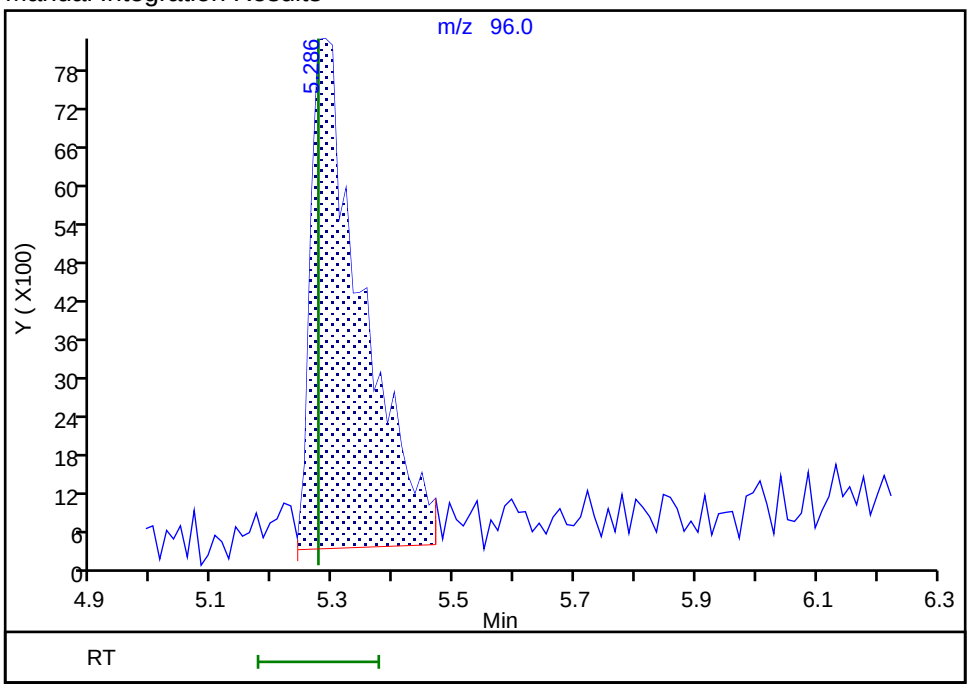
Processing Integration Results

RT: 5.29
Area: 57782
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.29
Area: 47291
Amount: 1000.0000
Amount Units: ug/l



Reviewer: tupayachia, 23-May-2022 10:09:57
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison | Job No.: 460-258307-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-845588/4

Matrix: Solid | Lab File ID: O76950.d

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 05/20/2022 06:36

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 50

Soil Extract Vol.: 5(mL) | GC Column: DB-624 ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Medium

Analysis Batch No.: 845588 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	841		50	10

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	81		68-150
460-00-4	4-Bromofluorobenzene	95		70-150
1868-53-7	Dibromofluoromethane (Surr)	93		68-150
2037-26-5	Toluene-d8 (Surr)	89		80-147

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220520-145506.b\O76950.d
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 20-May-2022 06:36:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: LCSD
Misc. Info.: 460-0145506-004
Operator ID: Instrument ID: CVOAMS12

Method: \\chromfs\Edison\ChromData\CVOAMS12\20220520-145506.b\8260W_12.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 23-May-2022 15:33:11 Calib Date: 12-May-2022 06:25:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS12\20220512-145170.b\O76603.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1657

First Level Reviewer: tupayachia Date: 20-May-2022 07:00:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116	0.879	0.879	0.000	88	19724	20.0	26.5	
3 Dichlorodifluoromethane	85	0.890	0.890	0.000	99	74644	20.0	19.3	
5 Chlorodifluoromethane	67	0.901	0.901	0.000	97	8608	20.0	14.6	
6 Chloromethane	50	1.004	0.993	0.011	98	76047	20.0	15.0	
7 Vinyl chloride	62	1.050	1.050	0.000	97	83212	20.0	16.7	
8 Butadiene	54	1.073	1.073	0.000	90	72857	20.0	17.5	
9 Bromomethane	94	1.232	1.232	0.000	100	62045	20.0	17.7	
10 Chloroethane	64	1.290	1.290	0.000	98	50246	20.0	17.1	
11 Dichlorofluoromethane	67	1.392	1.392	0.000	98	111099	20.0	17.2	
12 Trichlorofluoromethane	101	1.427	1.427	0.000	97	91698	20.0	19.4	
13 Pentane	57	1.484	1.472	0.012	96	21074	40.0	30.5	
14 Ethanol	46	1.541	1.541	0.000	92	7777	800.0	552.5	
15 Ethyl ether	59	1.598	1.598	0.000	91	42021	20.0	15.6	
16 1,2-Dichloro-1,1,2-trifluoroetha	117	1.598	1.598	0.000	95	45635	20.0	17.3	
17 2-Methyl-1,3-butadiene	53	1.609	1.609	0.000	88	50896	20.0	17.2	
18 1,1,1-Trifluoro-2,2-dichloroetha	83	1.632	1.632	0.000	94	67844	20.0	16.0	
19 Acrolein	56	1.678	1.666	0.012	94	6899	40.0	33.1	
20 1,1-Dichloroethene	96	1.735	1.735	0.000	94	58498	20.0	19.1	
21 112TCTFE	101	1.735	1.735	0.000	98	53135	20.0	20.5	
22 Acetone	58	1.758	1.758	0.000	91	17436	100.0	93.9	
23 Iodomethane	142	1.826	1.826	0.000	95	99464	20.0	22.7	
24 Isopropyl alcohol	45	1.860	1.860	0.000	27	19680	200.0	159.7	
25 Carbon disulfide	76	1.860	1.860	0.000	98	217834	20.0	18.8	
26 Acetonitrile	38	1.952	1.952	0.000	80	14798	200.0	178.6	
27 3-Chloro-1-propene	76	1.952	1.952	0.000	94	44266	20.0	19.1	
28 Methyl acetate	43	1.975	1.975	0.000	97	36914	40.0	34.4	
29 Cyclopentene	67	2.009	2.009	0.000	95	133119	20.0	16.3	
30 Methylene Chloride	84	2.032	2.032	0.000	86	75362	20.0	19.3	
* 31 TBA-d9 (IS)	65	2.054	2.055	0.000	99	163790	1000.0	1000.0	
32 2-Methyl-2-propanol	59	2.112	2.112	0.000	99	31552	200.0	161.8	
33 Acrylonitrile	53	2.192	2.192	0.000	95	160676	200.0	158.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 trans-1,2-Dichloroethene	96	2.214	2.214	0.000	90	62842	20.0	18.5	
35 Methyl tert-butyl ether	73	2.214	2.214	0.000	97	176458	20.0	17.8	
36 Hexane	57	2.420	2.420	0.000	87	60480	20.0	18.5	
37 1,1-Dichloroethane	63	2.511	2.500	0.011	99	102481	20.0	16.1	
38 Vinyl acetate	86	2.557	2.557	0.000	100	28648	40.0	52.4	
39 Isopropyl ether	45	2.580	2.568	0.012	88	190861	20.0	15.6	
40 2-Chloro-1,3-butadiene	88	2.580	2.580	0.000	84	70032	20.0	19.5	
41 Tert-butyl ethyl ether	59	2.854	2.854	0.000	92	193297	20.0	16.8	
* 43 2-Butanone-d5	46	2.911	2.911	0.000	100	216132	250.0	250.0	
44 2,2-Dichloropropane	97	2.945	2.945	0.000	80	23894	20.0	19.6	
45 cis-1,2-Dichloroethene	96	2.945	2.945	0.000	97	66492	20.0	17.8	
46 2-Butanone (MEK)	72	2.968	2.968	0.000	97	28562	100.0	97.2	
42 Propionitrile	54	3.014	3.014	0.000	95	59977	200.0	186.5	
47 Ethyl acetate	70	3.025	3.025	0.000	99	11940	40.0	42.5	
48 Methyl acrylate	55	3.059	3.059	0.000	100	51139	20.0	16.6	
50 Methacrylonitrile	67	3.128	3.128	0.000	86	215856	200.0	171.9	
49 Chlorobromomethane	128	3.139	3.139	0.000	80	36169	20.0	20.3	
51 Tetrahydrofuran	42	3.185	3.185	0.000	74	18964	40.0	33.2	
52 Chloroform	83	3.219	3.219	0.000	99	96171	20.0	16.6	
$ 53 Dibromofluoromethane (Surr)	113	3.345	3.345	0.000	97	143678	50.0	46.4	
54 1,1,1-Trichloroethane	97	3.367	3.367	0.000	97	91887	20.0	18.4	
55 Cyclohexane	84	3.425	3.425	0.000	84	89088	20.0	20.7	
56 Carbon tetrachloride	117	3.516	3.516	0.000	95	77886	20.0	19.4	
57 1,1-Dichloropropene	75	3.516	3.516	0.000	97	89671	20.0	17.6	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	3.641	3.641	0.000	0	137037	50.0	40.6	
61 Isobutyl alcohol	43	3.664	3.664	0.000	89	38957	500.0	393.5	a
59 Benzene	78	3.699	3.699	0.000	94	289092	20.0	16.8	
60 1,2-Dichloroethane	62	3.721	3.721	0.000	97	64445	20.0	15.9	
62 Isooctane	57	3.801	3.813	-0.012	94	160681	20.0	23.2	
63 Isopropyl acetate	61	3.813	3.813	0.000	98	23587	20.0	17.5	
64 Tert-amyl methyl ether	73	3.836	3.836	0.000	98	192599	20.0	18.1	
* 65 Fluorobenzene	96	3.973	3.973	0.000	100	707968	50.0	50.0	
66 n-Heptane	43	3.995	3.995	0.000	86	54458	20.0	17.8	
67 Trichloroethene	95	4.349	4.349	0.000	95	71304	20.0	19.2	
68 n-Butanol	56	4.372	4.372	0.000	80	18935	500.0	355.9	
69 Ethyl acrylate	55	4.498	4.498	0.000	97	61993	20.0	13.8	
70 Methylcyclohexane	83	4.543	4.543	0.000	85	81006	20.0	20.5	
71 1,2-Dichloropropane	63	4.566	4.566	0.000	94	71729	20.0	17.1	
* 72 1,4-Dioxane-d8	96	4.680	4.680	0.000	0	34542	1000.0	1000.0	
73 Dibromomethane	93	4.692	4.680	0.012	95	32287	20.0	16.7	
74 1,4-Dioxane	88	4.737	4.737	0.000	31	17031	400.0	435.3	
75 Methyl methacrylate	100	4.749	4.749	0.000	81	39530	40.0	47.0	
76 n-Propyl acetate	43	4.829	4.829	0.000	96	66879	20.0	16.7	
77 Dichlorobromomethane	83	4.874	4.874	0.000	99	81129	20.0	17.7	
78 2-Nitropropane	41	5.137	5.137	0.000	97	19837	40.0	28.8	
79 2-Chloroethyl vinyl ether	63	5.263	5.263	0.000	93	38652	20.0	16.0	
80 Epichlorohydrin	57	5.308	5.308	0.000	98	95424	400.0	396.5	
81 cis-1,3-Dichloropropene	75	5.411	5.411	0.000	87	113455	20.0	16.2	
82 4-Methyl-2-pentanone (MIBK)	43	5.617	5.617	0.000	92	205526	100.0	100.8	
$ 83 Toluene-d8 (Surr)	98	5.731	5.731	0.000	99	678680	50.0	44.4	
84 Toluene	91	5.811	5.811	0.000	93	298868	20.0	17.1	
85 trans-1,3-Dichloropropene	75	6.119	6.119	0.000	93	100636	20.0	16.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
86 Ethyl methacrylate	69	6.302	6.302	0.000	84	71115	20.0	16.1	a
87 1,1,2-Trichloroethane	83	6.336	6.336	0.000	96	49044	20.0	16.8	
88 Tetrachloroethene	166	6.507	6.507	0.000	94	62458	20.0	19.1	
89 1,3-Dichloropropane	76	6.553	6.553	0.000	87	103704	20.0	16.9	
90 2-Hexanone	43	6.735	6.735	0.000	92	126910	100.0	82.1	
91 Chlorodibromomethane	129	6.838	6.838	0.000	98	64079	20.0	18.6	
93 Ethylene Dibromide	107	6.975	6.964	0.011	100	59999	20.0	18.1	
92 n-Butyl acetate	43	6.975	6.975	0.000	97	60144	20.0	10.8	
* 94 Chlorobenzene-d5	117	7.649	7.649	0.000	83	522407	50.0	50.0	
95 Chlorobenzene	112	7.694	7.694	0.000	98	191643	20.0	18.1	
96 1,1,1,2-Tetrachloroethane	131	7.831	7.831	0.000	96	64405	20.0	18.6	
97 Ethylbenzene	106	7.900	7.900	0.000	97	97304	20.0	17.8	
98 m-Xylene & p-Xylene	106	8.094	8.094	0.000	99	122390	20.0	17.6	
99 o-Xylene	106	8.676	8.676	0.000	95	117006	20.0	17.4	
100 Styrene	104	8.711	8.711	0.000	98	199901	20.0	18.1	
101 n-Butyl acrylate	73	8.768	8.768	0.000	99	40154	20.0	13.2	
102 Bromoform	173	8.927	8.927	0.000	97	38666	20.0	18.6	
103 Amyl acetate (mixed isomers)	43	9.156	9.156	0.000	92	73296	20.0	15.6	
104 Isopropylbenzene	105	9.281	9.281	0.000	94	252934	20.0	17.2	
$ 105 4-Bromofluorobenzene	174	9.475	9.475	0.000	91	181586	50.0	47.3	
106 Bromobenzene	156	9.670	9.670	0.000	95	79370	20.0	19.0	
107 1,1,2,2-Tetrachloroethane	83	9.784	9.784	0.000	99	73566	20.0	16.0	
108 1,2,3-Trichloropropane	75	9.807	9.807	0.000	96	54582	20.0	14.8	
109 trans-1,4-Dichloro-2-butene	75	9.886	9.887	0.000	91	30601	20.0	15.6	
110 N-Propylbenzene	91	9.944	9.944	0.000	100	275002	20.0	16.8	
111 2-Chlorotoluene	91	10.023	10.024	-0.001	96	204629	20.0	16.8	
112 4-Ethyltoluene	105	10.149	10.149	0.000	99	239298	20.0	17.2	
113 4-Chlorotoluene	91	10.206	10.206	0.000	94	209216	20.0	16.2	
114 1,3,5-Trimethylbenzene	105	10.263	10.263	0.000	94	192837	20.0	17.8	
115 Butyl Methacrylate	87	10.549	10.549	0.000	83	78074	20.0	15.6	
116 tert-Butylbenzene	119	10.777	10.777	0.000	96	164960	20.0	18.4	
117 1,2,4-Trimethylbenzene	105	10.868	10.868	0.000	95	189725	20.0	17.4	
118 sec-Butylbenzene	105	11.142	11.142	0.000	99	231090	20.0	18.3	
119 1,3-Dichlorobenzene	146	11.234	11.234	0.000	97	136336	20.0	19.1	
* 120 1,4-Dichlorobenzene-d4	152	11.325	11.325	0.000	93	279201	50.0	50.0	
121 1,4-Dichlorobenzene	146	11.359	11.359	0.000	96	147691	20.0	19.0	
122 4-Isopropyltoluene	119	11.371	11.371	0.000	98	201458	20.0	20.0	
123 1,2,3-Trimethylbenzene	105	11.462	11.462	0.000	97	211557	20.0	18.2	
124 Benzyl chloride	126	11.542	11.542	0.000	99	34992	20.0	17.6	
125 2,3-Dihydroindene	117	11.656	11.656	0.000	94	250439	20.0	18.3	
126 1,2-Dichlorobenzene	146	11.770	11.770	0.000	97	139507	20.0	19.4	
127 p-Diethylbenzene	119	11.805	11.805	0.000	94	102504	20.0	20.6	
128 n-Butylbenzene	92	11.827	11.827	0.000	97	93861	20.0	20.0	
129 1,2-Dibromo-3-Chloropropane	157	12.455	12.455	0.000	91	15413	20.0	19.8	
130 1,2,4,5-Tetramethylbenzene	119	12.467	12.467	0.000	98	114359	20.0	19.2	
131 1,3,5-Trichlorobenzene	180	12.615	12.615	0.000	97	67732	20.0	21.8	
132 1,2,4-Trichlorobenzene	180	13.015	13.015	0.000	94	59909	20.0	21.5	
133 Hexachlorobutadiene	225	13.129	13.129	0.000	92	30630	20.0	22.7	
134 Naphthalene	128	13.152	13.152	0.000	99	145966	20.0	19.9	
135 1,2,3-Trichlorobenzene	180	13.300	13.300	0.000	96	52257	20.0	20.4	
S 137 1,2-Dichloroethene, Total	100				0		40.0	36.4	
S 138 Xylenes, Total	100				0		40.0	35.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 139 Total BTEX	1				0		100.0	86.7	

QC Flag Legend

Processing Flags
Review Flags
a - User Assigned ID

Reagents:

8260MIX1COMB_00154	Amount Added:	20.00	Units: uL	
ACROLEIN W_00140	Amount Added:	4.00	Units: uL	
GASES Li_00476	Amount Added:	20.00	Units: uL	
524freon_00052	Amount Added:	20.00	Units: uL	
8260SURR250_00226	Amount Added:	1.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent

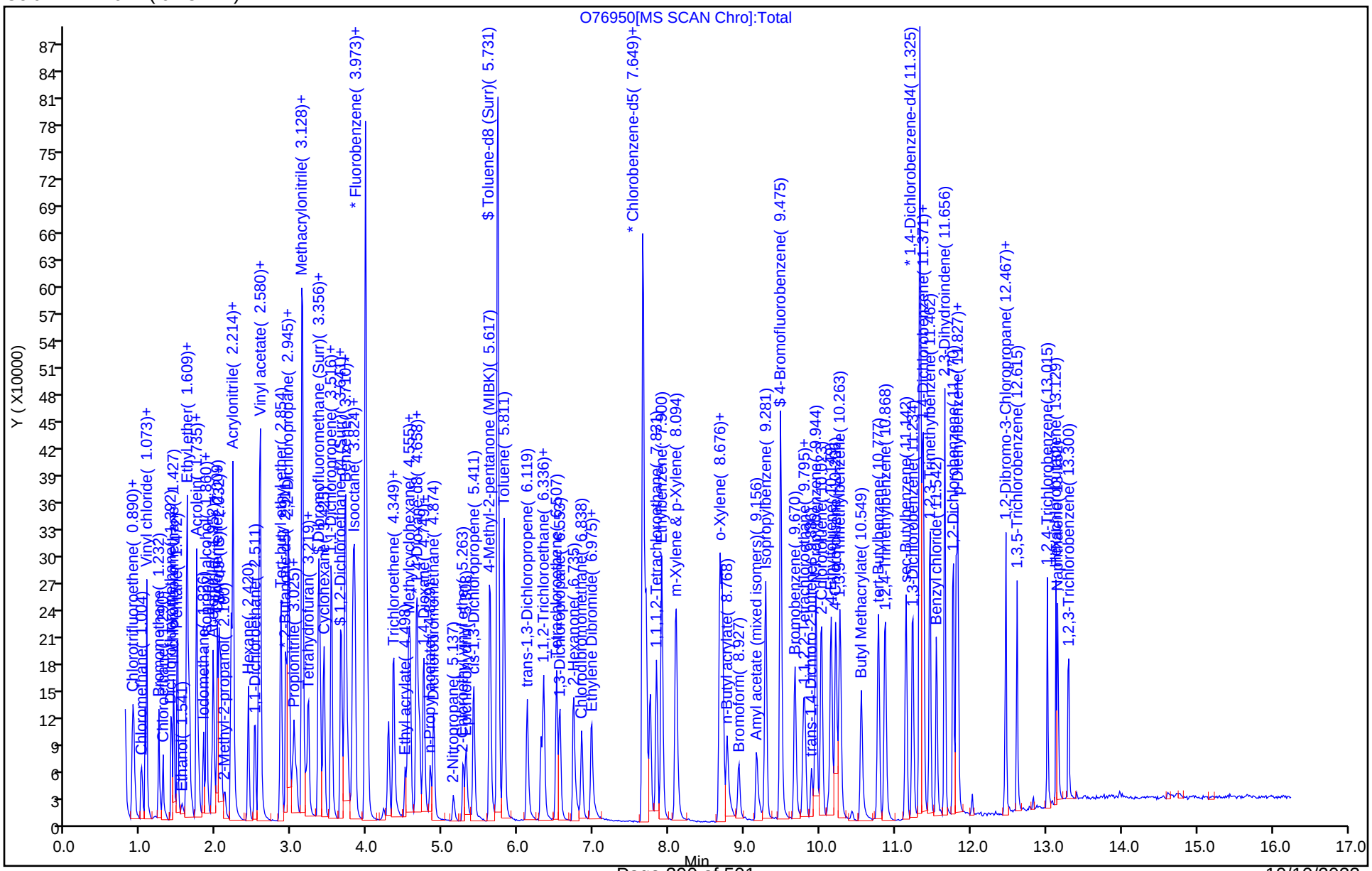
Report Date: 23-May-2022 15:35:28 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220520-145506.b\O76950.d

Injection Date:	20-May-2022 06:36:30	Instrument ID:	CVOAMS12	Operator ID:	
Lims ID:	LCSD			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	50.0000	ALS Bottle#:	3
Method:	8260W_12	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



10/10/2023
12:43 PM

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison | Job No.: 460-258307-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-845591/4

Matrix: Solid | Lab File ID: V19387.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 05/20/2022 06:35

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 845591 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	20.8		1.0	0.26
100-41-4	Ethylbenzene	20.9		1.0	0.20
108-88-3	Toluene	20.7		1.0	0.23
1330-20-7	Xylenes, Total	42.3		2.0	0.17
95-63-6	1,2,4-Trimethylbenzene	22.1		1.0	0.25
108-67-8	1,3,5-Trimethylbenzene	22.4		1.0	0.31
98-82-8	Cumene	21.1		1.0	0.29

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		72-145
460-00-4	4-Bromofluorobenzene	111		75-139
1868-53-7	Dibromofluoromethane (Surr)	103		73-139
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220520-145507.b\V19387.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 20-May-2022 06:35:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: 460-0145507-004
Operator ID: Instrument ID: CVOAMS7

Method: \\chromfs\Edison\ChromData\CVOAMS7\20220520-145507.b\8260S_7.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 20-May-2022 09:47:55 Calib Date: 22-Apr-2022 03:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18072.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1661

First Level Reviewer: delpolitov Date: 20-May-2022 09:47:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.274	1.275	-0.001	99	176896	20.0	26.5	
2 Chlorodifluoromethane	67	1.297	1.298	-0.001	97	20634	20.0	20.1	
3 Chloromethane	50	1.412	1.423	-0.011	99	193469	20.0	20.5	
4 Vinyl chloride	62	1.480	1.480	0.000	98	200917	20.0	22.9	
5 Butadiene	54	1.492	1.492	0.000	98	198202	20.0	22.5	
6 Bromomethane	94	1.697	1.698	-0.001	99	100293	20.0	26.2	
7 Chloroethane	64	1.754	1.755	-0.001	100	111118	20.0	24.6	
8 Dichlorofluoromethane	67	1.880	1.880	0.000	98	280498	20.0	26.1	
9 Trichlorofluoromethane	101	1.892	1.892	0.000	98	206247	20.0	29.4	
10 Pentane	72	1.926	1.926	0.000	97	57432	40.0	46.1	
11 Ethanol	46	2.040	2.040	0.000	96	28822	800.0	665.9	
12 Ethyl ether	59	2.063	2.075	-0.012	97	127543	20.0	21.2	
13 2-Methyl-1,3-butadiene	53	2.086	2.086	0.000	97	145330	20.0	22.5	
14 1,2-Dichloro-1,1,2-trifluoroetha	117	2.097	2.098	-0.001	96	90830	20.0	22.1	
15 1,1,1-Trifluoro-2,2-dichloroetha	83	2.143	2.143	0.000	95	187561	20.0	22.3	
16 112TCTFE	101	2.200	2.201	0.000	94	114620	20.0	23.4	
17 Acrolein	56	2.212	2.212	0.000	95	269720	300.0	353.3	
18 1,1-Dichloroethene	96	2.235	2.246	-0.012	94	115064	20.0	22.6	
19 Acetone	43	2.303	2.303	0.000	87	294015	100.0	113.7	
21 Iodomethane	142	2.360	2.372	-0.012	97	109826	20.0	23.9	
20 Isopropyl alcohol	45	2.372	2.372	0.000	58	125742	200.0	177.7	
22 Carbon disulfide	76	2.395	2.406	-0.011	99	476872	20.0	21.1	
24 Methyl acetate	43	2.486	2.498	-0.012	97	263475	40.0	35.8	
23 3-Chloro-1-propene	39	2.486	2.498	-0.012	90	268331	20.0	21.4	
25 Acetonitrile	40	2.543	2.543	0.000	95	141093	200.0	218.2	
* 26 TBA-d9 (IS)	65	2.566	2.566	0.000	0	495092	1000.0	1000.0	
27 Methylene Chloride	84	2.600	2.601	-0.001	96	144910	20.0	21.9	
28 2-Methyl-2-propanol	59	2.635	2.635	0.000	98	218597	200.0	212.2	
29 Methyl tert-butyl ether	73	2.715	2.715	0.000	97	425315	20.0	22.3	
30 trans-1,2-Dichloroethene	96	2.749	2.761	-0.012	97	137280	20.0	21.7	
31 Acrylonitrile	53	2.806	2.806	0.000	95	672679	200.0	203.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	57	2.875	2.875	0.000	93	273732	20.0	21.9	
33 Isopropyl ether	45	3.046	3.046	0.000	97	523537	20.0	19.7	
35 Vinyl acetate	86	3.092	3.092	0.000	100	60395	40.0	51.6	
34 1,1-Dichloroethane	63	3.092	3.092	0.000	62	289528	20.0	21.6	
36 2-Chloro-1,3-butadiene	88	3.126	3.138	-0.012	92	131881	20.0	21.9	
37 Tert-butyl ethyl ether	87	3.320	3.332	-0.012	89	176340	20.0	21.8	
* 38 2-Butanone-d5	46	3.515	3.515	0.000	0	422024	250.0	250.0	
39 2,2-Dichloropropane	79	3.526	3.526	0.000	96	67176	20.0	21.6	
40 cis-1,2-Dichloroethene	96	3.560	3.561	-0.001	53	147982	20.0	20.9	
42 2-Butanone (MEK)	72	3.560	3.561	-0.001	96	100932	100.0	107.1	
41 Ethyl acetate	70	3.560	3.561	-0.001	92	42187	40.0	50.1	
43 Methyl acrylate	55	3.618	3.618	0.000	98	142792	20.0	20.0	
44 Propionitrile	54	3.686	3.686	0.000	99	254807	200.0	215.8	
45 Tetrahydrofuran	72	3.766	3.766	0.000	75	50079	40.0	44.7	
46 Chlorobromomethane	128	3.766	3.766	0.000	96	60797	20.0	20.9	
47 Methacrylonitrile	67	3.778	3.778	0.000	93	727919	200.0	199.9	
48 Chloroform	83	3.812	3.812	0.000	96	230388	20.0	22.3	
49 Cyclohexane	84	3.938	3.938	0.000	93	254413	20.0	22.8	
50 1,1,1-Trichloroethane	97	3.949	3.949	0.000	97	188899	20.0	23.2	
$ 51 Dibromofluoromethane (Surr)	113	3.960	3.961	-0.001	96	144160	50.0	51.5	
52 Carbon tetrachloride	117	4.063	4.064	-0.001	96	143430	20.0	23.4	
53 1,1-Dichloropropene	75	4.086	4.098	-0.012	93	206008	20.0	21.5	
54 Isobutyl alcohol	42	4.212	4.212	0.000	95	143314	500.0	463.3	
55 Benzene	78	4.280	4.281	-0.001	97	598166	20.0	20.8	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.292	4.304	-0.012	0	183989	50.0	53.1	
57 Isopropyl acetate	43	4.326	4.326	0.000	95	512642	20.0	19.6	
58 Tert-amyl methyl ether	73	4.326	4.338	-0.012	91	451993	20.0	20.1	
59 1,2-Dichloroethane	62	4.372	4.372	0.000	97	178365	20.0	22.6	
60 n-Heptane	43	4.418	4.429	-0.011	95	311651	20.0	20.2	
* 61 Fluorobenzene	96	4.566	4.566	0.000	98	554594	50.0	50.0	
62 n-Butanol	43	4.886	4.886	0.000	87	62869	500.0	509.8	
63 Trichloroethene	95	4.920	4.921	-0.001	94	130940	20.0	20.6	
64 Ethyl acrylate	55	5.035	5.035	0.000	93	440266	20.0	20.2	a
65 Methylcyclohexane	83	5.035	5.035	0.000	80	279247	20.0	21.3	
66 1,2-Dichloropropane	63	5.206	5.207	-0.001	89	157720	20.0	19.3	
* 67 1,4-Dioxane-d8	96	5.286	5.275	0.011	0	34674	1000.0	1000.0	
68 Methyl methacrylate	100	5.286	5.287	-0.001	94	74297	40.0	39.5	
69 1,4-Dioxane	88	5.343	5.344	-0.001	31	35225	400.0	413.1	
70 n-Propyl acetate	43	5.343	5.344	-0.001	99	241080	20.0	18.4	
71 Dibromomethane	93	5.355	5.355	0.000	74	75156	20.0	19.4	
72 Dichlorobromomethane	83	5.515	5.515	0.000	98	172854	20.0	21.7	
73 2-Nitropropane	41	5.846	5.858	-0.012	98	98959	40.0	43.4	
74 2-Chloroethyl vinyl ether	63	5.869	5.869	0.000	97	90462	20.0	19.5	
75 Epichlorohydrin	57	5.972	5.972	0.000	99	377494	400.0	436.7	
76 cis-1,3-Dichloropropene	75	6.041	6.041	0.000	95	243150	20.0	21.4	
77 4-Methyl-2-pentanone (MIBK)	43	6.201	6.201	0.000	97	817075	100.0	108.9	
$ 78 Toluene-d8 (Surr)	98	6.292	6.292	0.000	99	686542	50.0	51.1	
79 Toluene	91	6.372	6.372	0.000	93	600215	20.0	20.7	
80 trans-1,3-Dichloropropene	75	6.772	6.772	0.000	97	218831	20.0	22.5	
81 Ethyl methacrylate	69	6.806	6.807	-0.001	74	176486	20.0	18.4	
82 1,1,2-Trichloroethane	83	7.012	7.012	0.000	96	104231	20.0	19.8	
83 Tetrachloroethene	166	7.046	7.058	-0.012	93	105410	20.0	20.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1,3-Dichloropropane	76	7.241	7.241	0.000	98	223283	20.0	20.5	
85 2-Hexanone	43	7.309	7.310	-0.001	97	551439	100.0	104.9	
86 n-Butyl acetate	73	7.458	7.458	0.000	99	40654	20.0	19.9	
87 Chlorodibromomethane	129	7.504	7.504	0.000	97	97215	20.0	20.2	
88 Ethylene Dibromide	107	7.664	7.664	0.000	98	108591	20.0	20.9	
* 89 Chlorobenzene-d5	117	8.212	8.213	-0.001	91	398318	50.0	50.0	
90 Chlorobenzene	112	8.247	8.247	0.000	91	333509	20.0	20.6	
91 Ethylbenzene	106	8.338	8.338	0.000	99	192171	20.0	20.9	
92 1,1,1,2-Tetrachloroethane	131	8.361	8.361	0.000	94	105746	20.0	21.6	
93 m-Xylene & p-Xylene	106	8.475	8.487	-0.012	98	230732	20.0	21.1	
94 o-Xylene	106	8.909	8.910	-0.001	92	230058	20.0	21.3	
95 n-Butyl acrylate	73	8.909	8.921	-0.012	97	102232	20.0	18.4	
96 Styrene	104	8.944	8.944	0.000	93	383450	20.0	20.6	
97 Amyl acetate (mixed isomers)	43	9.149	9.150	-0.001	91	262560	20.0	19.5	
98 Bromoform	173	9.161	9.161	0.000	91	57927	20.0	19.1	
99 Isopropylbenzene	105	9.275	9.275	0.000	96	588749	20.0	21.1	
$ 100 4-Bromofluorobenzene	174	9.481	9.481	0.000	81	176101	50.0	55.5	
101 Bromobenzene	156	9.595	9.596	-0.001	90	109772	20.0	19.8	
102 1,1,2,2-Tetrachloroethane	83	9.664	9.664	0.000	98	170587	20.0	20.5	
103 N-Propylbenzene	120	9.675	9.676	-0.001	98	153010	20.0	21.4	
104 1,2,3-Trichloropropane	110	9.698	9.698	0.000	97	44101	20.0	22.1	
105 trans-1,4-Dichloro-2-butene	53	9.721	9.721	0.000	79	57142	20.0	22.4	
106 2-Chlorotoluene	126	9.767	9.767	0.000	95	120075	20.0	20.9	
107 4-Ethyltoluene	105	9.778	9.778	0.000	98	579337	20.0	21.7	
108 1,3,5-Trimethylbenzene	105	9.847	9.847	0.000	92	511081	20.0	22.4	
109 4-Chlorotoluene	91	9.881	9.881	0.000	97	458675	20.0	22.2	
110 Butyl Methacrylate	87	9.950	9.950	0.000	99	156579	20.0	19.6	
111 tert-Butylbenzene	119	10.110	10.121	-0.011	92	387723	20.0	20.9	
112 1,2,4-Trimethylbenzene	105	10.178	10.178	0.000	98	494337	20.0	22.1	
113 sec-Butylbenzene	105	10.304	10.304	0.000	99	636887	20.0	21.6	
114 4-Isopropyltoluene	119	10.430	10.430	0.000	97	495869	20.0	20.4	
115 1,3-Dichlorobenzene	146	10.430	10.441	-0.011	91	223547	20.0	20.6	
* 116 1,4-Dichlorobenzene-d4	152	10.498	10.498	0.000	97	178919	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.521	10.521	0.000	91	221784	20.0	19.9	
118 1,2,3-Trimethylbenzene	105	10.532	10.533	-0.001	99	491023	20.0	20.6	
119 Benzyl chloride	126	10.635	10.636	-0.001	98	62677	20.0	20.5	
120 2,3-Dihydroindene	117	10.692	10.693	-0.001	95	448741	20.0	18.7	
121 p-Diethylbenzene	119	10.750	10.750	0.000	92	251287	20.0	20.0	
122 n-Butylbenzene	92	10.761	10.761	0.000	96	305117	20.0	20.5	
123 1,2-Dichlorobenzene	146	10.818	10.819	0.000	91	208721	20.0	19.7	
124 1,2,4,5-Tetramethylbenzene	119	11.355	11.356	-0.001	96	453734	20.0	20.5	
125 1,2-Dibromo-3-Chloropropane	157	11.447	11.447	0.000	88	26302	20.0	16.9	
126 1,3,5-Trichlorobenzene	180	11.561	11.561	0.000	95	145727	20.0	18.9	
127 1,2,4-Trichlorobenzene	180	12.030	12.030	0.000	93	149120	20.0	20.6	
128 Hexachlorobutadiene	225	12.098	12.099	-0.001	89	64667	20.0	20.1	
129 Naphthalene	128	12.201	12.201	0.000	99	465851	20.0	19.7	
130 1,2,3-Trichlorobenzene	180	12.384	12.384	0.000	94	157793	20.0	23.2	
S 131 1,2-Dichloroethene, Total	100				0		40.0	42.6	
S 132 1,3-Dichloropropene, Total	100				0		40.0	43.9	
S 133 Xylenes, Total	100				0		40.0	42.3	
S 134 Total BTEX	1				0		100.0	104.7	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260MIX1COMB_00154	Amount Added:	2.00	Units: uL	
524freon_00052	Amount Added:	2.00	Units: uL	
ACROLEIN W_00140	Amount Added:	3.00	Units: uL	
GASES Li_00476	Amount Added:	2.00	Units: uL	
8260SURR250_00226	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00117	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 20-May-2022 09:47:56 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220520-145507.b\V19387.D

Injection Date: 20-May-2022 06:35:30 Instrument ID: CVOAMS7 Operator ID:

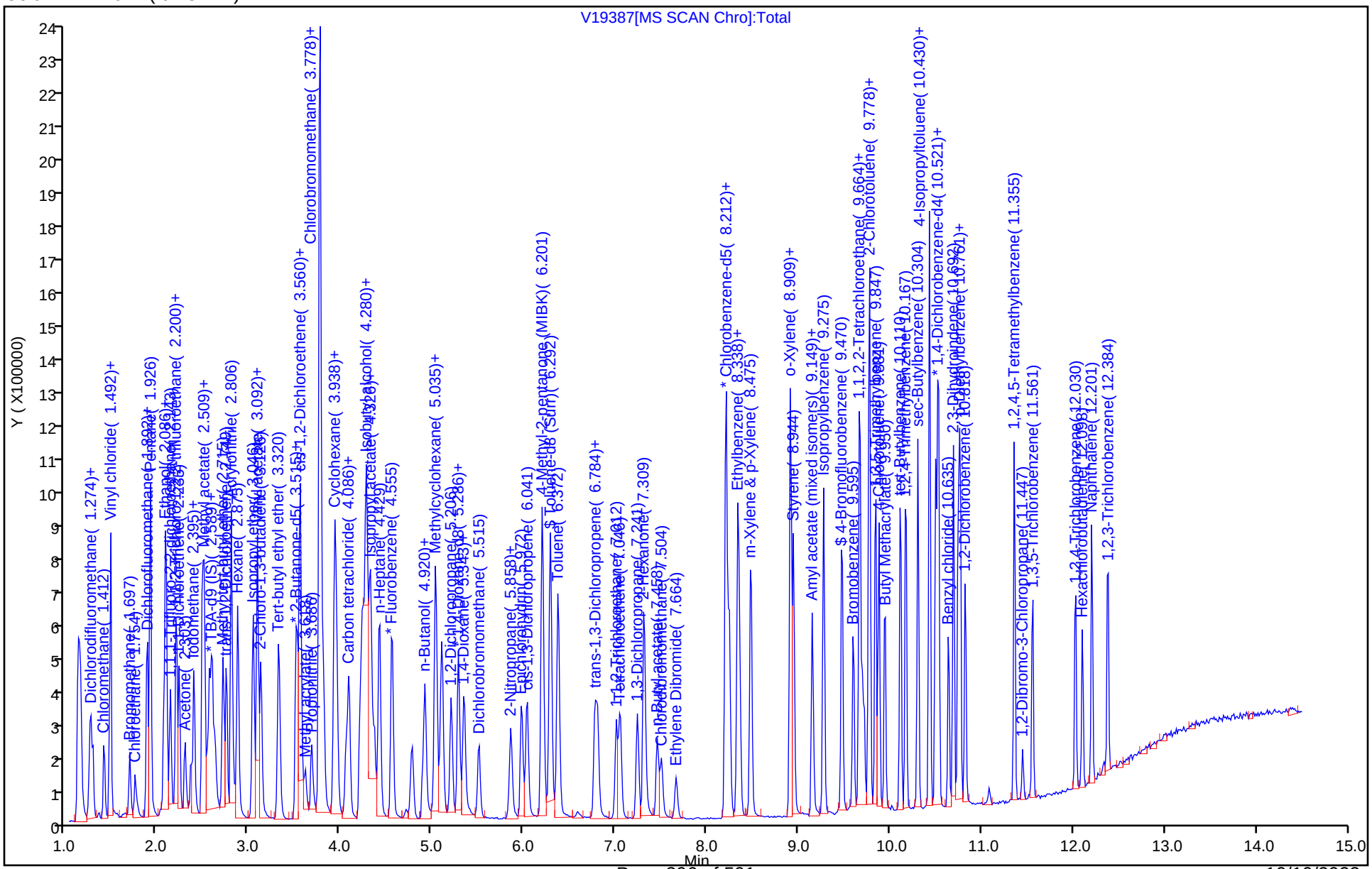
Lims ID: LCSD Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: 8260S_7 Limit Group: VOA - 8260D Water and Solid

Column: DB-624 (0.18 mm)



10/10/2023
12:43 PM

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison | Job No.: 460-258307-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-845827/4

Matrix: Solid | Lab File ID: V19451.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 05/21/2022 09:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 845827 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	20.3		1.0	0.26
100-41-4	Ethylbenzene	20.3		1.0	0.20
108-88-3	Toluene	19.5		1.0	0.23
1330-20-7	Xylenes, Total	40.4		2.0	0.17
95-63-6	1,2,4-Trimethylbenzene	21.6		1.0	0.25
108-67-8	1,3,5-Trimethylbenzene	22.1		1.0	0.31
98-82-8	Cumene	20.0		1.0	0.29

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		72-145
460-00-4	4-Bromofluorobenzene	109		75-139
1868-53-7	Dibromofluoromethane (Surr)	98		73-139
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220521-145557.b\V19451.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 21-May-2022 09:07:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: 460-0145557-004
Operator ID: Instrument ID: CVOAMS7

Method: \\chromfs\Edison\ChromData\CVOAMS7\20220521-145557.b\8260S_7.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 23-May-2022 09:35:11 Calib Date: 22-Apr-2022 03:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18072.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1657

First Level Reviewer: parekhv Date: 21-May-2022 13:38:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.275	1.275	0.000	98	166568	20.0	22.2	M
2 Chlorodifluoromethane	67	1.297	1.297	0.000	97	28192	20.0	24.5	
3 Chloromethane	50	1.412	1.412	0.000	99	201275	20.0	19.0	
4 Vinyl chloride	62	1.469	1.469	0.000	98	197387	20.0	20.0	
5 Butadiene	54	1.492	1.492	0.000	97	190429	20.0	19.3	
6 Bromomethane	94	1.698	1.697	0.001	98	97250	20.0	22.6	
7 Chloroethane	64	1.755	1.755	0.000	100	106621	20.0	21.1	
8 Dichlorofluoromethane	67	1.880	1.880	0.000	98	253240	20.0	21.0	
9 Trichlorofluoromethane	101	1.892	1.892	0.000	97	195631	20.0	24.9	
10 Pentane	72	1.915	1.926	-0.011	97	65127	40.0	46.6	
11 Ethanol	46	2.029	2.040	-0.011	96	38449	800.0	802.4	
12 Ethyl ether	59	2.063	2.063	0.000	96	138177	20.0	20.5	
13 2-Methyl-1,3-butadiene	53	2.086	2.086	0.000	95	161068	20.0	22.3	
14 1,2-Dichloro-1,1,2-trifluoroetha	117	2.098	2.098	0.000	96	102326	20.0	22.2	
15 1,1,1-Trifluoro-2,2-dichloroetha	83	2.143	2.143	0.000	96	194829	20.0	20.6	
16 112TCTFE	101	2.200	2.200	0.000	93	121826	20.0	22.2	
17 Acrolein	56	2.200	2.200	0.000	95	302321	300.0	357.7	
18 1,1-Dichloroethene	96	2.235	2.235	0.000	94	126669	20.0	22.2	
19 Acetone	43	2.303	2.303	0.000	87	281920	100.0	94.0	
21 Iodomethane	142	2.360	2.360	0.000	98	116934	20.0	22.7	
20 Isopropyl alcohol	45	2.372	2.372	0.000	56	141982	200.0	181.2	
22 Carbon disulfide	76	2.395	2.395	0.000	99	509439	20.0	20.1	
24 Methyl acetate	43	2.486	2.486	0.000	97	273994	40.0	33.2	
23 3-Chloro-1-propene	39	2.486	2.486	0.000	94	337735	20.0	24.0	
25 Acetonitrile	40	2.543	2.498	0.045	96	137728	200.0	192.4	a
* 26 TBA-d9 (IS)	65	2.566	2.566	0.000	0	548057	1000.0	1000.0	
27 Methylene Chloride	84	2.589	2.600	-0.011	95	152033	20.0	20.5	
28 2-Methyl-2-propanol	59	2.623	2.623	0.000	99	230324	200.0	202.0	
29 Methyl tert-butyl ether	73	2.715	2.715	0.000	98	464340	20.0	21.7	
30 trans-1,2-Dichloroethene	96	2.749	2.749	0.000	97	151635	20.0	21.3	
31 Acrylonitrile	53	2.806	2.806	0.000	95	730321	200.0	199.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	57	2.875	2.875	0.000	92	297036	20.0	21.2	
33 Isopropyl ether	45	3.046	3.046	0.000	98	560768	20.0	18.8	
34 1,1-Dichloroethane	63	3.092	3.092	0.000	62	307968	20.0	20.5	
35 Vinyl acetate	86	3.092	3.092	0.000	100	69830	40.0	51.4	
36 2-Chloro-1,3-butadiene	88	3.126	3.126	0.000	92	139562	20.0	20.7	
37 Tert-butyl ethyl ether	87	3.321	3.320	0.001	88	191250	20.0	21.1	
* 38 2-Butanone-d5	46	3.503	3.503	0.000	0	489537	250.0	250.0	
39 2,2-Dichloropropane	79	3.526	3.526	0.000	97	77422	20.0	22.2	
40 cis-1,2-Dichloroethene	96	3.561	3.561	0.001	90	155836	20.0	19.6	
42 2-Butanone (MEK)	72	3.561	3.561	0.001	96	111586	100.0	102.1	
41 Ethyl acetate	70	3.561	3.561	0.001	94	44374	40.0	45.4	
43 Methyl acrylate	55	3.618	3.618	0.000	99	145378	20.0	18.2	
44 Propionitrile	54	3.686	3.686	0.000	98	278867	200.0	203.6	
45 Tetrahydrofuran	72	3.766	3.766	0.000	79	55735	40.0	42.9	
46 Chlorobromomethane	128	3.766	3.766	0.000	98	68668	20.0	21.0	
47 Methacrylonitrile	67	3.778	3.778	0.000	94	774418	200.0	189.6	
48 Chloroform	83	3.812	3.812	0.000	98	252124	20.0	21.7	
49 Cyclohexane	84	3.938	3.938	0.000	93	268169	20.0	21.4	
50 1,1,1-Trichloroethane	97	3.949	3.949	0.000	97	199792	20.0	21.9	
$ 51 Dibromofluoromethane (Surr)	113	3.961	3.961	0.000	95	153887	50.0	49.0	
52 Carbon tetrachloride	117	4.063	4.063	0.000	96	165008	20.0	24.0	
53 1,1-Dichloropropene	75	4.086	4.086	0.000	94	222191	20.0	20.6	
54 Isobutyl alcohol	42	4.212	4.212	0.000	94	157018	500.0	458.5	
55 Benzene	78	4.281	4.281	0.000	97	692708	20.0	20.3	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.292	4.292	0.000	0	210099	50.0	54.0	
57 Isopropyl acetate	43	4.315	4.315	0.000	96	567251	20.0	19.3	
58 Tert-amyl methyl ether	73	4.326	4.326	0.000	90	503169	20.0	19.9	
59 1,2-Dichloroethane	62	4.372	4.372	0.000	96	202415	20.0	22.9	
60 n-Heptane	43	4.418	4.418	0.000	96	350397	20.0	20.3	
* 61 Fluorobenzene	96	4.555	4.555	0.000	98	622012	50.0	50.0	
62 n-Butanol	43	4.898	4.886	0.012	91	60971	500.0	449.2	
63 Trichloroethene	95	4.921	4.921	0.000	95	147124	20.0	20.6	
65 Methylcyclohexane	83	5.035	5.035	0.000	80	321147	20.0	21.8	
64 Ethyl acrylate	55	5.035	5.035	0.000	95	483414	20.0	19.7	
66 1,2-Dichloropropane	63	5.206	5.206	0.000	91	179046	20.0	19.5	
68 Methyl methacrylate	100	5.286	5.286	0.000	96	84667	40.0	40.2	
* 67 1,4-Dioxane-d8	96	5.286	5.286	0.000	0	41803	1000.0	1000.0	
70 n-Propyl acetate	43	5.344	5.344	0.000	99	258112	20.0	17.5	
69 1,4-Dioxane	88	5.355	5.344	0.011	28	41228	400.0	401.0	
71 Dibromomethane	93	5.355	5.355	0.000	50	83512	20.0	19.2	
72 Dichlorobromomethane	83	5.515	5.504	0.011	98	193628	20.0	21.7	
73 2-Nitropropane	41	5.847	5.846	0.000	91	113806	40.0	44.5	
74 2-Chloroethyl vinyl ether	63	5.869	5.869	0.000	86	95126	20.0	18.2	
75 Epichlorohydrin	57	5.972	5.972	0.000	99	418674	400.0	417.5	
76 cis-1,3-Dichloropropene	75	6.041	6.041	0.000	95	279930	20.0	20.8	
77 4-Methyl-2-pentanone (MIBK)	43	6.201	6.201	0.000	98	890580	100.0	102.3	
$ 78 Toluene-d8 (Surr)	98	6.292	6.292	0.000	98	782762	50.0	49.3	
79 Toluene	91	6.372	6.372	0.000	94	670256	20.0	19.5	
80 trans-1,3-Dichloropropene	75	6.772	6.772	0.000	97	251871	20.0	21.9	
81 Ethyl methacrylate	69	6.807	6.807	0.000	74	204847	20.0	19.0	
82 1,1,2-Trichloroethane	83	7.012	7.012	0.000	95	110358	20.0	17.8	
83 Tetrachloroethene	166	7.058	7.058	0.000	93	123005	20.0	20.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1,3-Dichloropropane	76	7.241	7.241	0.000	96	247817	20.0	19.2	
85 2-Hexanone	43	7.310	7.309	0.001	96	596526	100.0	97.8	
86 n-Butyl acetate	73	7.458	7.458	0.000	98	42008	20.0	17.4	
87 Chlorodibromomethane	129	7.504	7.504	0.000	96	112763	20.0	19.8	
88 Ethylene Dibromide	107	7.664	7.664	0.000	98	119934	20.0	19.5	
* 89 Chlorobenzene-d5	117	8.212	8.212	0.000	89	471219	50.0	50.0	
90 Chlorobenzene	112	8.247	8.247	0.000	91	376752	20.0	19.6	
91 Ethylbenzene	106	8.338	8.338	0.000	99	220411	20.0	20.3	
92 1,1,1,2-Tetrachloroethane	131	8.361	8.361	0.000	93	119895	20.0	20.7	
93 m-Xylene & p-Xylene	106	8.475	8.475	0.000	98	266145	20.0	20.5	
94 o-Xylene	106	8.910	8.910	0.000	92	254631	20.0	19.9	
95 n-Butyl acrylate	73	8.910	8.910	0.000	98	118761	20.0	18.0	
96 Styrene	104	8.944	8.944	0.000	94	444795	20.0	20.2	
97 Amyl acetate (mixed isomers)	43	9.150	9.150	0.000	91	295090	20.0	18.7	
98 Bromoform	173	9.161	9.161	0.000	90	66222	20.0	18.4	
99 Isopropylbenzene	105	9.275	9.275	0.000	96	661211	20.0	20.0	
$ 100 4-Bromofluorobenzene	174	9.481	9.481	0.000	82	202529	50.0	54.4	
101 Bromobenzene	156	9.595	9.595	0.000	90	127728	20.0	19.6	
102 1,1,2,2-Tetrachloroethane	83	9.664	9.664	0.000	99	190512	20.0	19.5	
103 N-Propylbenzene	120	9.675	9.675	0.000	98	167774	20.0	20.0	
104 1,2,3-Trichloropropane	110	9.698	9.698	0.000	98	47236	20.0	20.2	
105 trans-1,4-Dichloro-2-butene	53	9.721	9.721	0.000	80	59361	20.0	19.9	
106 2-Chlorotoluene	126	9.767	9.767	0.000	96	141616	20.0	21.0	
107 4-Ethyltoluene	105	9.778	9.778	0.000	98	658728	20.0	21.1	
108 1,3,5-Trimethylbenzene	105	9.847	9.847	0.000	92	591467	20.0	22.1	
109 4-Chlorotoluene	91	9.881	9.881	0.000	98	511236	20.0	21.1	
110 Butyl Methacrylate	87	9.950	9.950	0.000	99	180404	20.0	19.2	
111 tert-Butylbenzene	119	10.110	10.110	0.000	92	462169	20.0	21.3	
112 1,2,4-Trimethylbenzene	105	10.178	10.178	0.000	98	565355	20.0	21.6	
113 sec-Butylbenzene	105	10.304	10.304	0.000	99	756054	20.0	21.8	
114 4-Isopropyltoluene	119	10.430	10.430	0.000	97	588106	20.0	20.6	
115 1,3-Dichlorobenzene	146	10.430	10.441	-0.011	93	256156	20.0	20.1	
* 116 1,4-Dichlorobenzene-d4	152	10.498	10.498	0.000	96	209895	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.521	10.521	0.000	91	262217	20.0	20.0	
118 1,2,3-Trimethylbenzene	105	10.533	10.533	0.000	99	581128	20.0	20.8	
119 Benzyl chloride	126	10.636	10.636	0.000	98	71782	20.0	20.1	
120 2,3-Dihydroindene	117	10.693	10.693	0.000	94	519951	20.0	19.3	
121 p-Diethylbenzene	119	10.750	10.750	0.000	93	312018	20.0	21.1	
122 n-Butylbenzene	92	10.761	10.761	0.000	98	353635	20.0	20.2	
123 1,2-Dichlorobenzene	146	10.818	10.818	0.000	91	248175	20.0	20.0	
124 1,2,4,5-Tetramethylbenzene	119	11.356	11.356	0.000	97	518897	20.0	20.0	
125 1,2-Dibromo-3-Chloropropane	157	11.447	11.447	0.000	91	32794	20.0	18.0	
126 1,3,5-Trichlorobenzene	180	11.561	11.561	0.000	94	175636	20.0	19.4	
127 1,2,4-Trichlorobenzene	180	12.030	12.030	0.000	93	159938	20.0	18.9	
128 Hexachlorobutadiene	225	12.099	12.099	0.001	88	71865	20.0	19.0	
129 Naphthalene	128	12.201	12.201	0.000	98	526910	20.0	19.0	
130 1,2,3-Trichlorobenzene	180	12.384	12.384	0.000	95	153578	20.0	19.3	
S 131 1,2-Dichloroethene, Total	100				0		40.0	41.0	
S 132 1,3-Dichloropropene, Total	100				0		40.0	42.7	
S 133 Xylenes, Total	100				0		40.0	40.4	
S 134 Total BTEX	1				0		100.0	100.6	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260MIX1COMB_00154	Amount Added:	2.00	Units: uL	
524freon_00052	Amount Added:	2.00	Units: uL	
ACROLEIN W_00140	Amount Added:	3.00	Units: uL	
GASES Li_00476	Amount Added:	2.00	Units: uL	
8260SURR250_00226	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00117	Amount Added:	1.00	Units: uL	Run Reagent

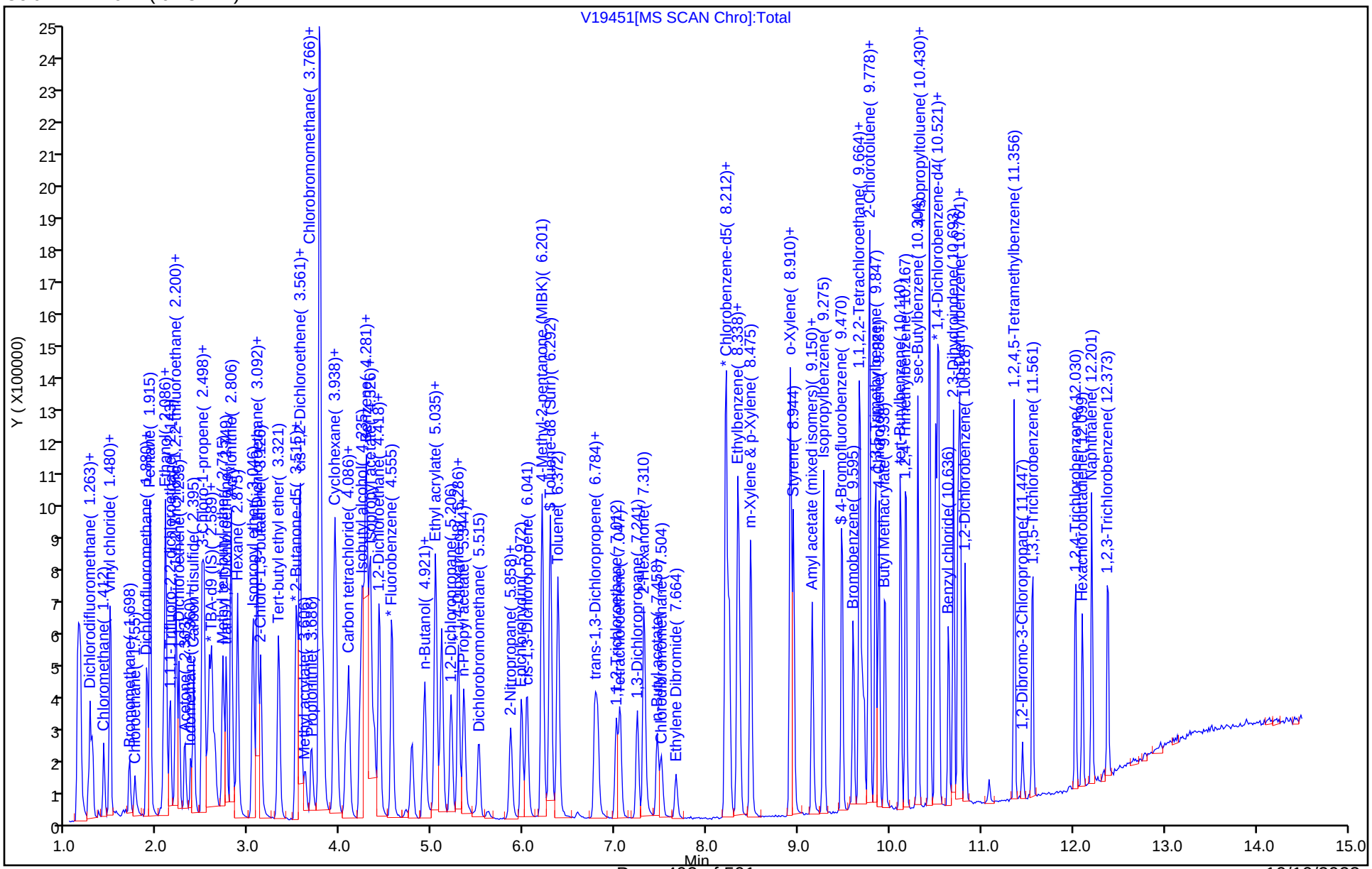
Report Date: 23-May-2022 09:35:12 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220521-145557.b\V19451.D

Injection Date:	21-May-2022 09:07:30	Instrument ID:	CVOAMS7	Operator ID:	
Lims ID:	LCSD			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260S_7	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



10/10/2023
12:43 PM

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison | Job No.: 460-258307-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-846046/5

Matrix: Solid | Lab File ID: O77038.d

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 05/23/2022 06:44

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 50

Soil Extract Vol.: 5(mL) | GC Column: DB-624 ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) N pH:

% Moisture: % Solids: | Level: (low/med) Medium

Analysis Batch No.: 846046 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	904		50	10

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		68-150
460-00-4	4-Bromofluorobenzene	101		70-150
1868-53-7	Dibromofluoromethane (Surr)	97		68-150
2037-26-5	Toluene-d8 (Surr)	99		80-147

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220523-145613.b\O77038.d
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 23-May-2022 06:44:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: LCSD
Misc. Info.: 460-0145613-005
Operator ID: Instrument ID: CVOAMS12

Method: \\chromfs\Edison\ChromData\CVOAMS12\20220523-145613.b\8260W_12.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 23-May-2022 17:33:56 Calib Date: 22-May-2022 11:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS12\20220522-145591.b\O76991.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1657

First Level Reviewer: delpolitov Date: 23-May-2022 17:33:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116	0.867	0.867	0.000	87	18614	20.0	17.8	
3 Dichlorodifluoromethane	85	0.890	0.890	0.000	99	82166	20.0	20.8	
5 Chlorodifluoromethane	67	0.901	0.901	0.000	97	11011	20.0	17.8	
6 Chloromethane	50	0.993	0.993	0.000	99	66735	20.0	18.3	
7 Vinyl chloride	62	1.050	1.050	0.000	98	71203	20.0	18.8	
8 Butadiene	54	1.073	1.073	0.000	96	61031	20.0	18.3	
9 Bromomethane	94	1.232	1.232	0.000	99	62781	20.0	21.7	
10 Chloroethane	64	1.290	1.278	0.012	100	45235	20.0	19.7	
11 Dichlorofluoromethane	67	1.392	1.392	0.000	98	111658	20.0	20.9	
12 Trichlorofluoromethane	101	1.427	1.427	0.000	98	111054	20.0	20.9	
13 Pentane	57	1.472	1.472	0.000	94	21816	40.0	38.7	
14 Ethanol	46	1.529	1.529	0.000	92	8154	800.0	882.0	
15 Ethyl ether	59	1.598	1.598	0.000	89	34334	20.0	17.1	
16 1,2-Dichloro-1,1,2-trifluoroetha	117	1.598	1.598	0.000	84	46867	20.0	17.3	
17 2-Methyl-1,3-butadiene	53	1.609	1.609	0.000	96	46834	20.0	17.9	
18 1,1,1-Trifluoro-2,2-dichloroetha	83	1.632	1.632	0.000	93	61617	20.0	17.9	
19 Acrolein	56	1.666	1.666	0.000	96	7584	40.0	48.2	
20 1,1-Dichloroethene	96	1.723	1.723	0.000	96	50109	20.0	18.1	
21 112TCTFE	101	1.735	1.735	0.000	96	53688	20.0	20.3	
22 Acetone	58	1.758	1.758	0.000	85	12933	100.0	89.2	
23 Iodomethane	142	1.815	1.815	0.000	98	105122	20.0	20.1	
24 Isopropyl alcohol	45	1.849	1.849	0.000	46	18276	200.0	195.2	
25 Carbon disulfide	76	1.860	1.860	0.000	100	167876	20.0	17.8	
26 Acetonitrile	38	1.952	1.952	0.000	74	17312	200.0	167.3	
27 3-Chloro-1-propene	76	1.952	1.952	0.000	90	32731	20.0	18.1	
28 Methyl acetate	43	1.963	1.963	0.000	99	29711	40.0	30.5	
29 Cyclopentene	67	2.009	2.009	0.000	96	108789	20.0	17.0	
30 Methylene Chloride	84	2.032	2.032	0.000	87	59706	20.0	18.2	
* 31 TBA-d9 (IS)	65	2.043	2.043	0.000	99	148543	1000.0	1000.0	
32 2-Methyl-2-propanol	59	2.100	2.100	0.000	98	29596	200.0	220.1	
33 Acrylonitrile	53	2.180	2.180	0.000	94	117760	200.0	181.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 trans-1,2-Dichloroethene	96	2.214	2.214	0.000	91	55150	20.0	17.9	
35 Methyl tert-butyl ether	73	2.214	2.214	0.000	96	157680	20.0	18.0	
36 Hexane	57	2.420	2.408	0.012	91	51221	20.0	20.6	
37 1,1-Dichloroethane	63	2.500	2.500	0.000	99	89618	20.0	17.3	
38 Vinyl acetate	86	2.545	2.545	0.000	99	21975	40.0	36.5	
39 Isopropyl ether	45	2.568	2.568	0.000	83	167589	20.0	17.9	
40 2-Chloro-1,3-butadiene	88	2.580	2.580	0.000	92	59228	20.0	18.7	
41 Tert-butyl ethyl ether	59	2.842	2.842	0.000	91	167724	20.0	17.3	
* 43 2-Butanone-d5	46	2.911	2.911	0.000	100	182735	250.0	250.0	
44 2,2-Dichloropropane	97	2.945	2.945	0.000	86	22939	20.0	21.8	
45 cis-1,2-Dichloroethene	96	2.945	2.945	0.000	95	57598	20.0	17.1	
46 2-Butanone (MEK)	72	2.956	2.956	0.000	99	23263	100.0	96.6	
42 Propionitrile	54	3.002	3.002	0.000	94	38715	200.0	169.6	
47 Ethyl acetate	70	3.025	3.025	0.000	100	9726	40.0	39.0	
48 Methyl acrylate	55	3.048	3.048	0.000	99	40682	20.0	19.7	
50 Methacrylonitrile	67	3.128	3.128	0.000	90	169144	200.0	182.0	
49 Chlorobromomethane	128	3.139	3.139	0.000	80	33375	20.0	17.7	
51 Tetrahydrofuran	42	3.185	3.185	0.000	91	15679	40.0	31.6	
52 Chloroform	83	3.208	3.208	0.000	99	95904	20.0	18.0	
$ 53 Dibromofluoromethane (Surr)	113	3.345	3.345	0.000	98	151826	50.0	48.6	
54 1,1,1-Trichloroethane	97	3.367	3.367	0.000	97	100733	20.0	18.8	
55 Cyclohexane	84	3.413	3.413	0.000	89	72629	20.0	19.5	
56 Carbon tetrachloride	117	3.516	3.516	0.000	96	91111	20.0	18.6	
57 1,1-Dichloropropene	75	3.516	3.516	0.000	92	81380	20.0	18.9	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	3.641	3.641	0.000	0	156853	50.0	48.8	
61 Isobutyl alcohol	43	3.653	3.664	-0.011	98	32801	500.0	465.0	a
59 Benzene	78	3.699	3.699	0.000	95	236031	20.0	18.1	
60 1,2-Dichloroethane	62	3.710	3.710	0.000	97	73161	20.0	17.9	
63 Isopropyl acetate	61	3.801	3.801	0.000	95	18448	20.0	19.0	
62 Isooctane	57	3.801	3.801	0.000	96	138731	20.0	25.1	
64 Tert-amyl methyl ether	73	3.824	3.824	0.000	97	167353	20.0	18.3	
* 65 Fluorobenzene	96	3.973	3.961	0.012	99	579513	50.0	50.0	
66 n-Heptane	43	3.995	3.995	0.000	87	49982	20.0	23.0	
67 Trichloroethene	95	4.338	4.338	0.000	94	67171	20.0	19.8	
68 n-Butanol	56	4.372	4.372	0.000	92	16552	500.0	404.2	
69 Ethyl acrylate	55	4.498	4.498	0.000	96	43319	20.0	13.9	
70 Methylcyclohexane	83	4.532	4.532	0.000	93	72117	20.0	21.1	
71 1,2-Dichloropropane	63	4.555	4.555	0.000	88	56639	20.0	17.9	
* 72 1,4-Dioxane-d8	96	4.669	4.669	0.000	0	30147	1000.0	1000.0	
73 Dibromomethane	93	4.680	4.680	0.000	89	33923	20.0	18.5	
74 1,4-Dioxane	88	4.726	4.726	0.000	30	14416	400.0	502.8	
75 Methyl methacrylate	100	4.737	4.737	0.000	84	30624	40.0	39.1	
76 n-Propyl acetate	43	4.829	4.829	0.000	99	57746	20.0	17.1	
77 Dichlorobromomethane	83	4.874	4.874	0.000	98	77096	20.0	17.5	
78 2-Nitropropane	41	5.137	5.137	0.000	98	23639	40.0	29.8	
79 2-Chloroethyl vinyl ether	63	5.263	5.263	0.000	93	32152	20.0	18.5	
80 Epichlorohydrin	57	5.297	5.297	0.000	99	80193	400.0	412.0	
81 cis-1,3-Dichloropropene	75	5.400	5.400	0.000	93	100724	20.0	18.7	
82 4-Methyl-2-pentanone (MIBK)	43	5.617	5.617	0.000	96	191168	100.0	91.5	
$ 83 Toluene-d8 (Surr)	98	5.719	5.719	0.000	100	619926	50.0	49.6	
84 Toluene	91	5.799	5.799	0.000	95	254990	20.0	18.0	
85 trans-1,3-Dichloropropene	75	6.107	6.108	-0.001	97	88697	20.0	18.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
86 Ethyl methacrylate	69	6.290	6.290	0.000	87	60735	20.0	18.0	a
87 1,1,2-Trichloroethane	83	6.324	6.324	0.000	93	42886	20.0	17.9	
88 Tetrachloroethene	166	6.496	6.496	0.000	96	76113	20.0	19.9	
89 1,3-Dichloropropane	76	6.541	6.541	0.000	92	89963	20.0	18.2	
90 2-Hexanone	43	6.724	6.724	0.000	96	124801	100.0	101.7	
91 Chlorodibromomethane	129	6.838	6.838	0.000	97	66988	20.0	17.7	
93 Ethylene Dibromide	107	6.964	6.964	0.000	97	57662	20.0	18.0	
92 n-Butyl acetate	43	6.964	6.964	0.000	98	59816	20.0	18.1	
* 94 Chlorobenzene-d5	117	7.649	7.649	0.000	84	508086	50.0	50.0	
95 Chlorobenzene	112	7.683	7.683	0.000	98	186172	20.0	18.9	
96 1,1,1,2-Tetrachloroethane	131	7.820	7.820	0.000	95	69456	20.0	18.1	
97 Ethylbenzene	106	7.900	7.889	0.011	97	90463	20.0	18.7	
98 m-Xylene & p-Xylene	106	8.083	8.083	0.000	99	113644	20.0	18.6	
99 o-Xylene	106	8.665	8.665	0.000	95	112040	20.0	18.7	
100 Styrene	104	8.699	8.699	0.000	96	194326	20.0	18.9	
101 n-Butyl acrylate	73	8.768	8.768	0.000	97	31827	20.0	16.1	
102 Bromoform	173	8.916	8.916	0.000	98	47373	20.0	16.8	
103 Amyl acetate (mixed isomers)	43	9.156	9.156	0.000	91	73483	20.0	16.6	
104 Isopropylbenzene	105	9.270	9.270	0.000	95	250405	20.0	19.0	
$ 105 4-Bromofluorobenzene	174	9.475	9.475	0.000	96	245290	50.0	50.6	
106 Bromobenzene	156	9.658	9.658	0.000	85	93518	20.0	18.4	
107 1,1,2,2-Tetrachloroethane	83	9.772	9.772	0.000	96	62590	20.0	16.9	
108 1,2,3-Trichloropropane	75	9.795	9.795	0.000	95	49080	20.0	18.5	
109 trans-1,4-Dichloro-2-butene	75	9.875	9.875	0.000	93	23415	20.0	15.3	
110 N-Propylbenzene	91	9.944	9.932	0.012	99	257477	20.0	18.2	
111 2-Chlorotoluene	91	10.012	10.012	0.000	96	180293	20.0	17.6	
112 4-Ethyltoluene	105	10.138	10.138	0.000	99	236267	20.0	18.1	
113 4-Chlorotoluene	91	10.206	10.206	0.000	94	209121	20.0	20.0	
114 1,3,5-Trimethylbenzene	105	10.263	10.263	0.000	94	190484	20.0	18.1	
115 Butyl Methacrylate	87	10.537	10.537	0.000	91	68602	20.0	16.6	
116 tert-Butylbenzene	119	10.766	10.766	0.000	97	178262	20.0	18.5	
117 1,2,4-Trimethylbenzene	105	10.857	10.857	0.000	97	194362	20.0	18.1	
118 sec-Butylbenzene	105	11.131	11.131	0.000	98	230444	20.0	18.5	
119 1,3-Dichlorobenzene	146	11.222	11.222	0.000	98	154909	20.0	18.6	
* 120 1,4-Dichlorobenzene-d4	152	11.314	11.314	0.000	93	344172	50.0	50.0	
121 1,4-Dichlorobenzene	146	11.348	11.348	0.000	97	162226	20.0	18.2	
122 4-Isopropyltoluene	119	11.371	11.371	0.000	98	203119	20.0	18.6	
123 1,2,3-Trimethylbenzene	105	11.451	11.451	0.000	97	206636	20.0	18.0	
124 Benzyl chloride	126	11.542	11.542	0.000	100	32228	20.0	18.5	
125 2,3-Dihydroindene	117	11.645	11.645	0.000	94	250446	20.0	17.9	
126 1,2-Dichlorobenzene	146	11.759	11.759	0.000	99	160804	20.0	19.2	
127 p-Diethylbenzene	119	11.805	11.805	0.000	96	100884	20.0	18.7	
128 n-Butylbenzene	92	11.827	11.827	0.000	96	86125	20.0	19.2	
129 1,2-Dibromo-3-Chloropropane	157	12.455	12.455	0.000	88	17544	20.0	16.7	
130 1,2,4,5-Tetramethylbenzene	119	12.467	12.467	0.000	98	125519	20.0	19.5	
131 1,3,5-Trichlorobenzene	180	12.615	12.615	0.000	97	87490	20.0	20.5	
132 1,2,4-Trichlorobenzene	180	13.015	13.015	0.000	94	74979	20.0	19.7	
133 Hexachlorobutadiene	225	13.129	13.129	0.000	98	52202	20.0	21.8	
134 Naphthalene	128	13.152	13.152	0.000	99	135585	20.0	18.2	
135 1,2,3-Trichlorobenzene	180	13.289	13.289	0.000	95	66966	20.0	20.4	
S 137 1,2-Dichloroethene, Total	100				0		40.0	35.1	
S 138 Xylenes, Total	100				0		40.0	37.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 139 Total BTEX	1				0		100.0	92.2	

QC Flag Legend

Processing Flags
Review Flags
a - User Assigned ID

Reagents:

8260SURR250_00226	Amount Added:	1.00	Units: uL	
GASES Li_00476	Amount Added:	20.00	Units: uL	
524freon_00052	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00154	Amount Added:	20.00	Units: uL	
ACROLEIN W_00140	Amount Added:	4.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 23-May-2022 17:33:57 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS12\20220523-145613.b\O77038.d

Injection Date: 23-May-2022 06:44:30 Instrument ID: CVOAMS12 Operator ID:

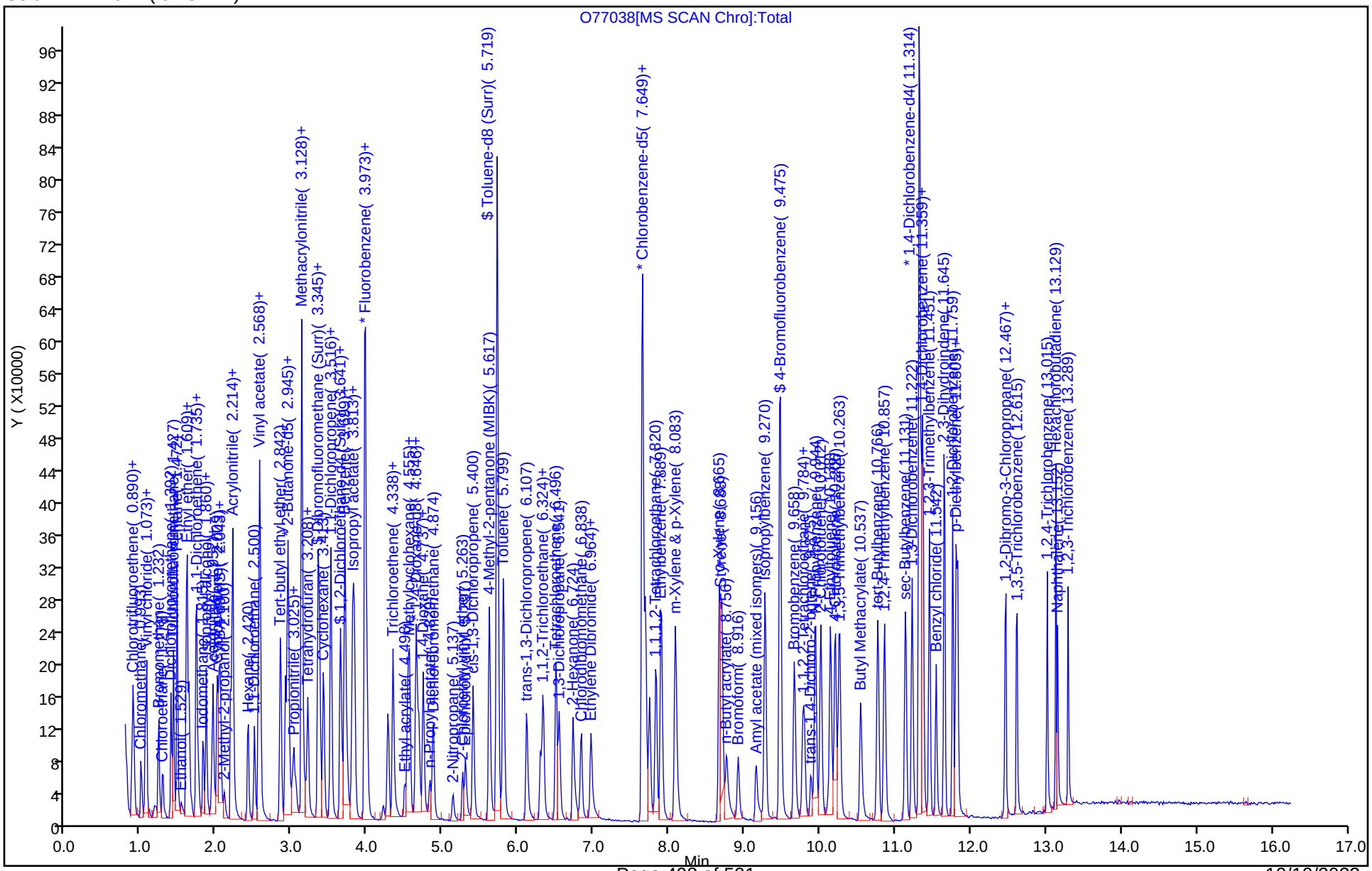
Lims ID: LCSD Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 50.0000 ALS Bottle#: 4

Method: 8260W_12 Limit Group: VOA - 8260D Water and Solid

Column: DB-624 (0.18 mm)



10/10/2023
12:43 PM

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Edison | Job No.: 460-258307-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-846050/5

Matrix: Solid | Lab File ID: V19569.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 05/23/2022 08:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

Purge Volume: 5.0(mL) | Heated Purge: (Y/N) Y pH:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 846050 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	19.6		1.0	0.26
100-41-4	Ethylbenzene	18.9		1.0	0.20
108-88-3	Toluene	19.5		1.0	0.23
1330-20-7	Xylenes, Total	39.6		2.0	0.17
95-63-6	1,2,4-Trimethylbenzene	20.1		1.0	0.25
108-67-8	1,3,5-Trimethylbenzene	19.9		1.0	0.31
98-82-8	Cumene	19.8		1.0	0.29

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		72-145
460-00-4	4-Bromofluorobenzene	98		75-139
1868-53-7	Dibromofluoromethane (Surr)	92		73-139
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220523-145615.b\V19569.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 23-May-2022 08:09:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: 460-0145615-005
Operator ID: Instrument ID: CVOAMS7

Method: \\chromfs\Edison\ChromData\CVOAMS7\20220523-145615.b\8260S_7.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 23-May-2022 12:21:34 Calib Date: 22-Apr-2022 03:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS7\20220421-144336.b\V18072.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1657

First Level Reviewer: tupayachia Date: 23-May-2022 10:10:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.275	1.275	0.000	99	202113	20.0	24.5	
2 Chlorodifluoromethane	67	1.286	1.297	-0.011	97	28705	20.0	22.7	
3 Chloromethane	50	1.412	1.412	0.000	99	228606	20.0	19.6	
4 Vinyl chloride	62	1.469	1.469	0.000	97	234088	20.0	21.6	
5 Butadiene	54	1.492	1.492	0.000	99	232363	20.0	21.4	
6 Bromomethane	94	1.698	1.697	0.001	96	112990	20.0	24.0	
7 Chloroethane	64	1.755	1.755	0.000	99	117466	20.0	21.1	
8 Dichlorofluoromethane	67	1.880	1.880	0.000	98	287483	20.0	21.7	
9 Trichlorofluoromethane	101	1.892	1.892	0.000	99	211038	20.0	24.4	
10 Pentane	72	1.915	1.926	-0.011	98	67685	40.0	44.1	
11 Ethanol	46	2.029	2.029	0.000	96	34965	800.0	681.1	
12 Ethyl ether	59	2.063	2.063	0.000	95	135253	20.0	18.3	
13 2-Methyl-1,3-butadiene	53	2.086	2.086	0.000	96	166922	20.0	21.0	
14 1,2-Dichloro-1,1,2-trifluoroetha	117	2.098	2.098	0.000	96	104648	20.0	20.6	
15 1,1,1-Trifluoro-2,2-dichloroetha	83	2.143	2.143	0.000	94	206311	20.0	19.9	
16 112TCTFE	101	2.200	2.200	0.000	91	129203	20.0	21.4	
17 Acrolein	56	2.200	2.200	0.000	95	305528	300.0	337.4	
18 1,1-Dichloroethene	96	2.235	2.235	0.000	96	132343	20.0	21.1	
19 Acetone	43	2.303	2.303	0.000	87	292886	100.0	88.4	
21 Iodomethane	142	2.361	2.360	0.000	97	123771	20.0	21.9	
20 Isopropyl alcohol	45	2.361	2.372	-0.012	97	158045	200.0	188.3	
22 Carbon disulfide	76	2.395	2.395	0.000	99	556868	20.0	20.0	
23 3-Chloro-1-propene	39	2.486	2.486	0.000	94	358834	20.0	23.2	
24 Methyl acetate	43	2.486	2.486	0.000	98	306996	40.0	33.9	
25 Acetonitrile	40	2.543	2.486	0.057	94	146684	200.0	191.3	a
* 26 TBA-d9 (IS)	65	2.566	2.566	0.000	0	587198	1000.0	1000.0	M
27 Methylene Chloride	84	2.589	2.600	-0.011	99	154025	20.0	18.9	
28 2-Methyl-2-propanol	59	2.623	2.623	0.000	99	242484	200.0	198.5	
29 Methyl tert-butyl ether	73	2.715	2.715	0.000	98	479564	20.0	20.4	
30 trans-1,2-Dichloroethene	96	2.749	2.749	0.000	97	152678	20.0	19.6	
31 Acrylonitrile	53	2.806	2.806	0.000	95	770559	200.0	196.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	57	2.875	2.875	0.000	92	322011	20.0	20.9	
33 Isopropyl ether	45	3.046	3.046	0.000	98	588780	20.0	18.0	
35 Vinyl acetate	86	3.092	3.092	0.000	100	68282	40.0	45.5	
34 1,1-Dichloroethane	63	3.092	3.092	0.000	63	320347	20.0	19.4	
36 2-Chloro-1,3-butadiene	88	3.126	3.126	0.000	93	143003	20.0	19.3	
37 Tert-butyl ethyl ether	87	3.321	3.320	0.001	90	200219	20.0	20.1	
* 38 2-Butanone-d5	46	3.503	3.503	0.000	0	540444	250.0	250.0	
39 2,2-Dichloropropane	79	3.526	3.526	0.000	95	84710	20.0	22.1	
40 cis-1,2-Dichloroethene	96	3.549	3.561	-0.011	87	160593	20.0	18.4	
42 2-Butanone (MEK)	72	3.561	3.561	0.001	96	120603	100.0	99.9	
41 Ethyl acetate	70	3.561	3.561	0.001	93	49186	40.0	45.6	
43 Methyl acrylate	55	3.618	3.618	0.000	99	158126	20.0	18.0	
44 Propionitrile	54	3.675	3.686	-0.011	98	306690	200.0	202.8	
45 Tetrahydrofuran	72	3.766	3.766	0.000	77	59214	40.0	41.3	
46 Chlorobromomethane	128	3.766	3.766	0.000	95	67836	20.0	18.9	
47 Methacrylonitrile	67	3.766	3.778	-0.012	94	838487	200.0	186.9	
48 Chloroform	83	3.812	3.812	0.000	98	264174	20.0	20.7	
49 Cyclohexane	84	3.926	3.938	-0.012	94	283228	20.0	20.6	
50 1,1,1-Trichloroethane	97	3.938	3.938	0.000	97	221673	20.0	22.1	
$ 51 Dibromofluoromethane (Surr)	113	3.961	3.961	0.000	95	158419	50.0	46.0	
52 Carbon tetrachloride	117	4.064	4.063	0.001	97	169952	20.0	22.5	
53 1,1-Dichloropropene	75	4.086	4.086	0.000	94	244606	20.0	20.7	
54 Isobutyl alcohol	42	4.212	4.212	0.000	92	167521	500.0	456.6	
55 Benzene	78	4.281	4.281	0.000	97	707157	20.0	19.6	
$ 56 1,2-Dichloroethane-d4 (Surr)	65	4.292	4.292	0.000	0	214121	50.0	50.1	
57 Isopropyl acetate	43	4.315	4.315	0.000	95	601263	20.0	18.6	
58 Tert-amyl methyl ether	73	4.326	4.326	0.000	90	524923	20.0	18.9	
59 1,2-Dichloroethane	62	4.372	4.372	0.000	95	212022	20.0	21.8	
60 n-Heptane	43	4.418	4.418	0.000	95	383412	20.0	20.2	
* 61 Fluorobenzene	96	4.555	4.555	0.000	99	683111	50.0	50.0	
62 n-Butanol	43	4.886	4.898	-0.012	86	65241	500.0	448.7	
63 Trichloroethene	95	4.921	4.921	0.000	91	159609	20.0	20.4	
64 Ethyl acrylate	55	5.035	5.035	0.000	93	513851	20.0	19.1	
65 Methylcyclohexane	83	5.035	5.035	0.000	89	332711	20.0	20.6	
66 1,2-Dichloropropane	63	5.206	5.206	0.000	90	186121	20.0	18.5	
* 67 1,4-Dioxane-d8	96	5.287	5.275	0.011	0	44938	1000.0	1000.0	
68 Methyl methacrylate	100	5.287	5.286	0.000	93	84338	40.0	36.4	
69 1,4-Dioxane	88	5.332	5.332	0.000	29	42291	400.0	382.7	
70 n-Propyl acetate	43	5.344	5.344	0.000	98	276068	20.0	17.1	
71 Dibromomethane	93	5.344	5.344	0.000	77	86341	20.0	18.1	
72 Dichlorobromomethane	83	5.504	5.504	0.000	98	195622	20.0	20.0	
73 2-Nitropropane	41	5.847	5.846	0.001	86	114461	40.0	40.8	
74 2-Chloroethyl vinyl ether	63	5.858	5.869	-0.011	88	105002	20.0	18.3	
75 Epichlorohydrin	57	5.972	5.972	0.000	99	441735	400.0	399.0	
76 cis-1,3-Dichloropropene	75	6.029	6.029	0.000	97	281484	20.0	19.8	
77 4-Methyl-2-pentanone (MIBK)	43	6.201	6.201	0.000	97	946313	100.0	98.5	
$ 78 Toluene-d8 (Surr)	98	6.292	6.292	0.000	98	804300	50.0	47.9	
79 Toluene	91	6.372	6.372	0.000	93	705844	20.0	19.5	
80 trans-1,3-Dichloropropene	75	6.772	6.772	0.000	98	245770	20.0	20.2	
81 Ethyl methacrylate	69	6.807	6.807	0.000	73	206587	20.0	17.4	
82 1,1,2-Trichloroethane	83	7.012	7.012	0.000	96	122035	20.0	18.6	
83 Tetrachloroethene	166	7.047	7.047	0.000	93	128081	20.0	20.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1,3-Dichloropropane	76	7.241	7.241	0.000	95	258839	20.0	19.0	
85 2-Hexanone	43	7.310	7.309	0.001	97	629252	100.0	93.5	
86 n-Butyl acetate	73	7.458	7.458	0.000	99	43463	20.0	17.1	
87 Chlorodibromomethane	129	7.504	7.504	0.000	97	113066	20.0	18.8	
88 Ethylene Dibromide	107	7.664	7.664	0.000	99	119776	20.0	18.5	
* 89 Chlorobenzene-d5	117	8.213	8.212	0.000	90	498101	50.0	50.0	
90 Chlorobenzene	112	8.247	8.247	0.000	89	382475	20.0	18.9	
91 Ethylbenzene	106	8.338	8.338	0.000	99	217224	20.0	18.9	
92 1,1,1,2-Tetrachloroethane	131	8.361	8.361	0.000	95	119546	20.0	19.5	
93 m-Xylene & p-Xylene	106	8.475	8.475	0.000	98	272348	20.0	19.9	
94 o-Xylene	106	8.910	8.910	0.000	92	266904	20.0	19.7	
95 n-Butyl acrylate	73	8.910	8.910	0.000	62	121693	20.0	17.5	
96 Styrene	104	8.944	8.944	0.000	92	434799	20.0	18.7	
97 Amyl acetate (mixed isomers)	43	9.150	9.150	0.000	90	308164	20.0	17.5	
98 Bromoform	173	9.161	9.161	0.000	92	67321	20.0	17.7	
99 Isopropylbenzene	105	9.275	9.275	0.000	97	690812	20.0	19.8	
$ 100 4-Bromofluorobenzene	174	9.481	9.470	0.011	81	203850	50.0	49.0	
101 Bromobenzene	156	9.596	9.595	0.001	90	130237	20.0	17.9	
102 1,1,2,2-Tetrachloroethane	83	9.664	9.664	0.000	98	197171	20.0	18.1	
103 N-Propylbenzene	120	9.664	9.675	-0.011	98	180812	20.0	19.3	
104 1,2,3-Trichloropropane	110	9.698	9.698	0.000	96	49607	20.0	19.0	
105 trans-1,4-Dichloro-2-butene	53	9.721	9.721	0.000	78	65654	20.0	19.7	
106 2-Chlorotoluene	126	9.767	9.767	0.000	96	142943	20.0	19.0	
107 4-Ethyltoluene	105	9.778	9.778	0.000	98	685048	20.0	19.6	
108 1,3,5-Trimethylbenzene	105	9.847	9.847	0.000	92	593684	20.0	19.9	
109 4-Chlorotoluene	91	9.881	9.881	0.000	98	562263	20.0	20.8	
110 Butyl Methacrylate	87	9.938	9.938	0.000	96	182353	20.0	17.4	
111 tert-Butylbenzene	119	10.110	10.110	0.000	91	472148	20.0	19.5	
112 1,2,4-Trimethylbenzene	105	10.167	10.167	0.000	98	589900	20.0	20.1	
113 sec-Butylbenzene	105	10.304	10.304	0.000	99	751271	20.0	19.4	
114 4-Isopropyltoluene	119	10.430	10.430	0.000	98	610555	20.0	19.2	
115 1,3-Dichlorobenzene	146	10.430	10.430	0.000	91	260834	20.0	18.3	
* 116 1,4-Dichlorobenzene-d4	152	10.498	10.498	0.000	98	234347	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.521	10.521	0.000	90	264817	20.0	18.1	
118 1,2,3-Trimethylbenzene	105	10.533	10.533	0.000	99	593075	20.0	19.0	
119 Benzyl chloride	126	10.636	10.636	0.000	97	72599	20.0	18.2	
120 2,3-Dihydroindene	117	10.693	10.693	0.000	94	538875	20.0	18.2	
121 p-Diethylbenzene	119	10.738	10.750	-0.012	91	310998	20.0	18.9	
122 n-Butylbenzene	92	10.761	10.761	0.000	97	371052	20.0	19.0	
123 1,2-Dichlorobenzene	146	10.818	10.818	0.000	91	253821	20.0	18.3	
124 1,2,4,5-Tetramethylbenzene	119	11.356	11.356	0.000	96	558882	20.0	19.3	
125 1,2-Dibromo-3-Chloropropane	157	11.447	11.447	0.000	92	34300	20.0	16.8	
126 1,3,5-Trichlorobenzene	180	11.561	11.561	0.000	94	177824	20.0	17.6	
127 1,2,4-Trichlorobenzene	180	12.030	12.030	0.000	92	167232	20.0	17.7	
128 Hexachlorobutadiene	225	12.099	12.099	0.001	91	78711	20.0	18.7	
129 Naphthalene	128	12.201	12.201	0.000	99	524422	20.0	17.0	
130 1,2,3-Trichlorobenzene	180	12.373	12.373	0.000	94	154259	20.0	17.3	
S 131 1,2-Dichloroethene, Total	100				0		40.0	38.0	
S 132 1,3-Dichloropropene, Total	100				0		40.0	40.0	
S 133 Xylenes, Total	100				0		40.0	39.6	
S 134 Total BTEX	1				0		100.0	97.6	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260MIX1COMB_00154	Amount Added:	2.00	Units: uL	
524freon_00052	Amount Added:	2.00	Units: uL	
ACROLEIN W_00140	Amount Added:	3.00	Units: uL	
GASES Li_00476	Amount Added:	2.00	Units: uL	
8260SURR250_00226	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00117	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 23-May-2022 12:21:35 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220523-145615.b\V19569.D

Injection Date: 23-May-2022 08:09:30 Instrument ID: CVOAMS7 Operator ID:

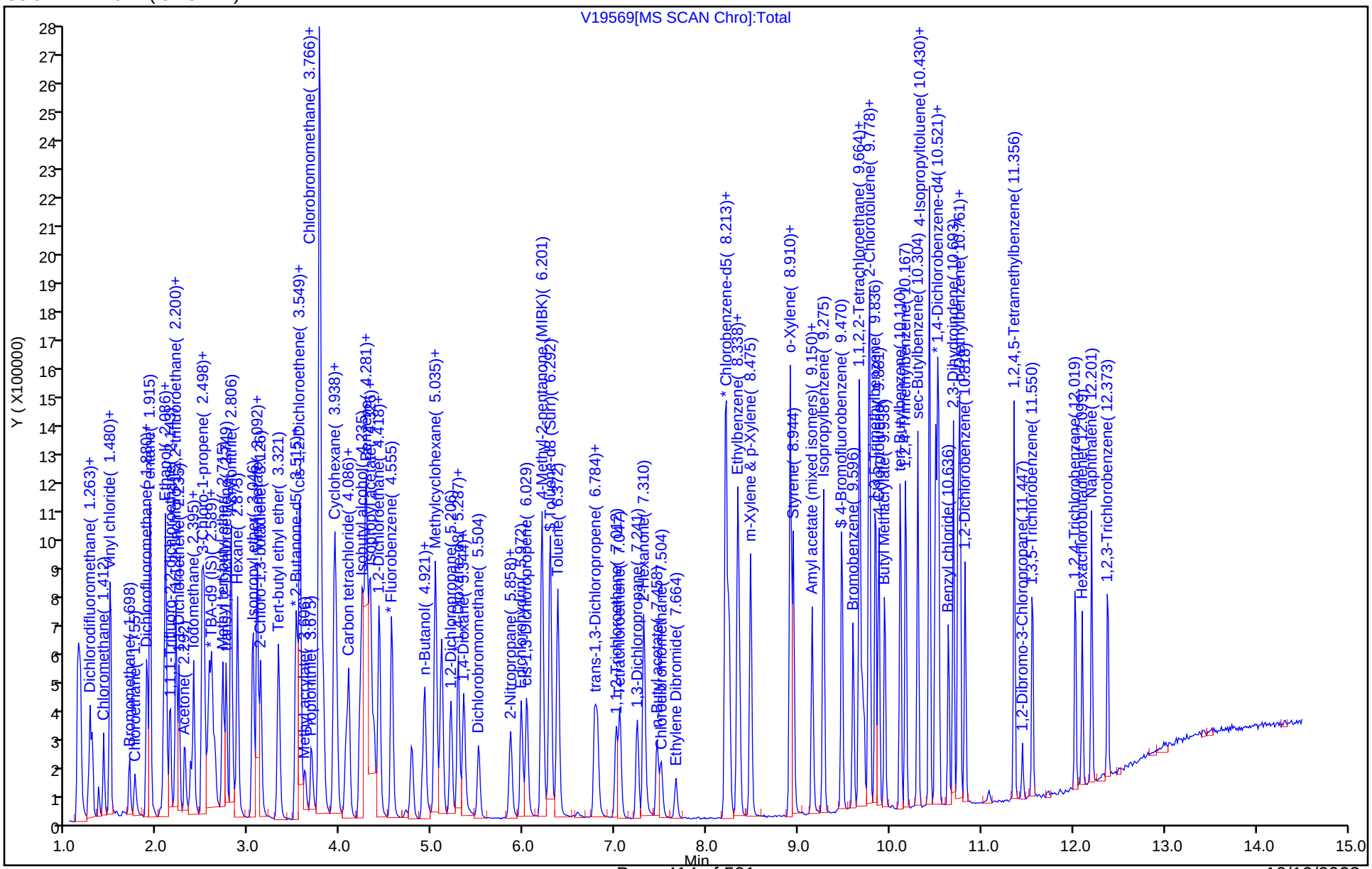
Lims ID: LCSD Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: 8260S_7 Limit Group: VOA - 8260D Water and Solid

Column: DB-624 (0.18 mm)



10/10/2023
12:43 PM

Manual Integration/User Assign Peak Report

Eurofins Edison

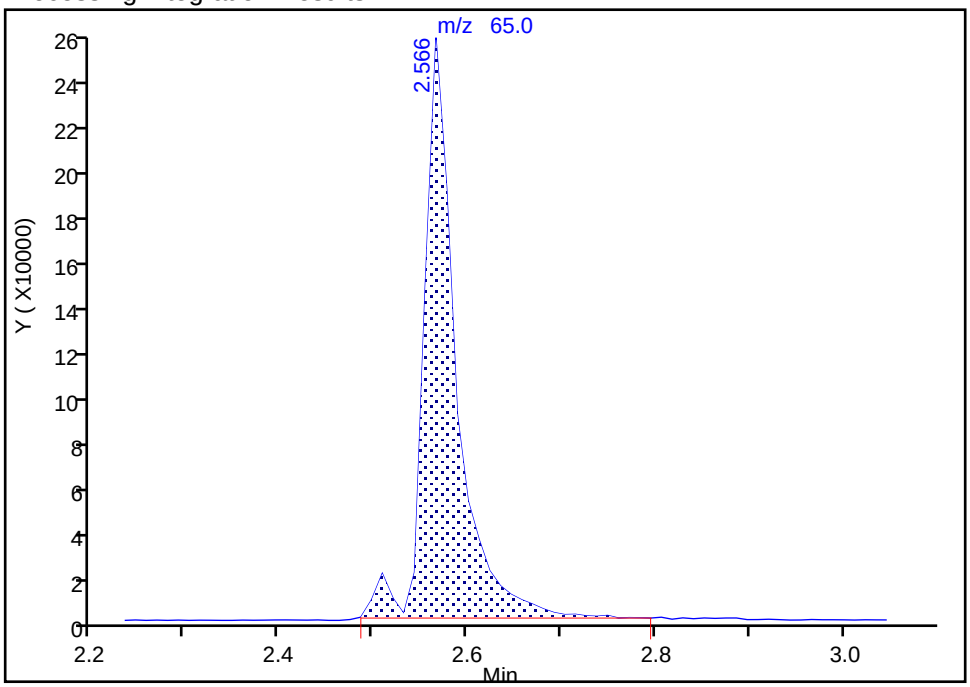
Data File: \\chromfs\Edison\ChromData\CVOAMS7\20220523-145615.b\V19569.D
Injection Date: 23-May-2022 08:09:30 Instrument ID: CVOAMS7
Lims ID: LCSD
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S_7 Limit Group: VOA - 8260D Water and Solid
Column: DB-624 (0.18 mm) Detector MS SCAN

* 26 TBA-d9 (IS), CAS: 25725-11-5

Signal: 1

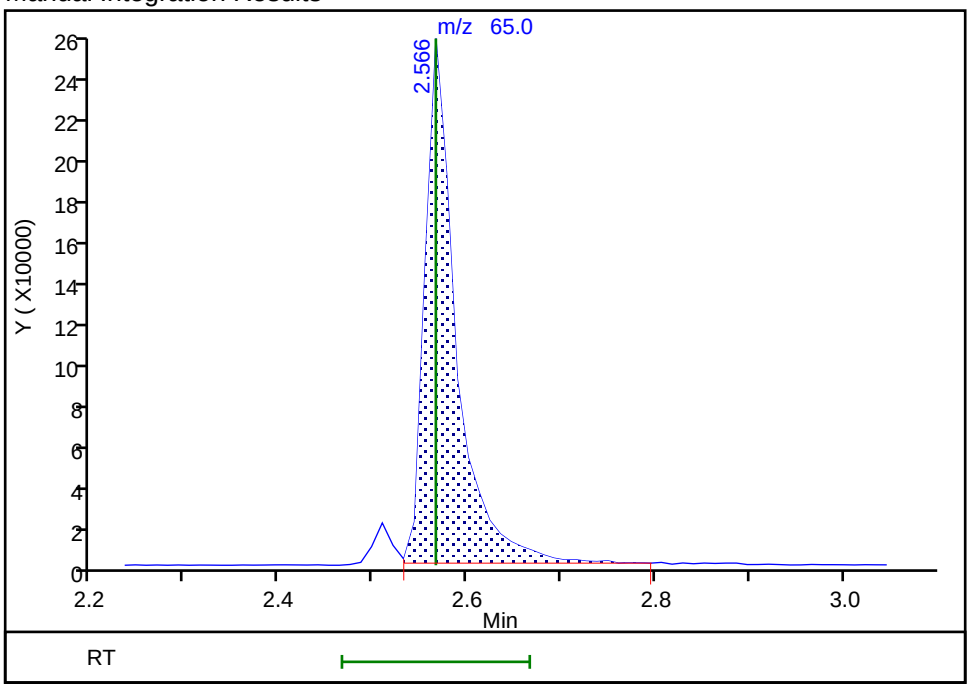
Processing Integration Results

RT: 2.57
Area: 612204
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 2.57
Area: 587198
Amount: 1000.0000
Amount Units: ug/l



Reviewer: delpolitov, 23-May-2022 12:20:52
Audit Action: Split an Integrated Peak Audit Reason: Shouldering

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Instrument ID: CVOAMS12 Start Date: 05/12/2022 03:12

Analysis Batch Number: 844084 End Date: 05/12/2022 10:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-844084/1		05/12/2022 03:12	1	O76595.d	DB-624 0.18(mm)
STD7 460-844084/3 IC		05/12/2022 04:01	1	O76597.d	DB-624 0.18(mm)
STD1 460-844084/4 IC		05/12/2022 04:25	1	O76598.d	DB-624 0.18(mm)
STD5 460-844084/5 IC		05/12/2022 04:49	1	O76599.d	DB-624 0.18(mm)
STD20 460-844084/6 ICIS		05/12/2022 05:13	1	O76600.d	DB-624 0.18(mm)
STD50 460-844084/7 IC		05/12/2022 05:37	1	O76601.d	DB-624 0.18(mm)
STD200 460-844084/8 IC		05/12/2022 06:01	1	O76602.d	DB-624 0.18(mm)
STD500 460-844084/9 IC		05/12/2022 06:25	1	O76603.d	DB-624 0.18(mm)
ICV 460-844084/17		05/12/2022 10:23	1	O76611.d	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Instrument ID: CVOAMS12 Start Date: 05/20/2022 04:29

Analysis Batch Number: 845588 End Date: 05/20/2022 16:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/20/2022 04:29	1		DB-624 0.18(mm)
CCVIS 460-845588/2		05/20/2022 05:21	1	O76948.d	DB-624 0.18(mm)
LCS 460-845588/3		05/20/2022 06:12	50	O76949.d	DB-624 0.18(mm)
LCSD 460-845588/4		05/20/2022 06:36	50	O76950.d	DB-624 0.18(mm)
MB 460-845588/9		05/20/2022 08:47	50	O76955.d	DB-624 0.18(mm)
460-258307-5	DRA2-SB19-0.0-0.5	05/20/2022 10:00	50	O76958.d	DB-624 0.18(mm)
ZZZZZ		05/20/2022 10:24	50		DB-624 0.18(mm)
ZZZZZ		05/20/2022 11:36	200		DB-624 0.18(mm)
ZZZZZ		05/20/2022 12:00	200		DB-624 0.18(mm)
460-258307-6	DRA2-SB20-0.5-1.0	05/20/2022 13:12	500	O76966.d	DB-624 0.18(mm)
ZZZZZ		05/20/2022 14:48	50		DB-624 0.18(mm)
ZZZZZ		05/20/2022 16:24	50		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Instrument ID: CVOAMS12 Start Date: 05/22/2022 07:56

Analysis Batch Number: 845946 End Date: 05/22/2022 14:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-845946/1		05/22/2022 07:56	1	O76983.d	DB-624 0.18(mm)
STD7 460-845946/3 IC		05/22/2022 08:51	1	O76985.d	DB-624 0.18(mm)
STD1 460-845946/4 IC		05/22/2022 09:15	1	O76986.d	DB-624 0.18(mm)
STD5 460-845946/5 IC		05/22/2022 09:39	1	O76987.d	DB-624 0.18(mm)
STD20 460-845946/6 ICIS		05/22/2022 10:03	1	O76988.d	DB-624 0.18(mm)
STD50 460-845946/7 IC		05/22/2022 10:27	1	O76989.d	DB-624 0.18(mm)
STD200 460-845946/8 IC		05/22/2022 10:51	1	O76990.d	DB-624 0.18(mm)
STD500 460-845946/9 IC		05/22/2022 11:15	1	O76991.d	DB-624 0.18(mm)
ICV 460-845946/17		05/22/2022 14:28	1	O76999.d	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Instrument ID: CVOAMS12 Start Date: 05/23/2022 05:55

Analysis Batch Number: 846046 End Date: 05/23/2022 17:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 460-846046/3		05/23/2022 05:55	1	O77036.d	DB-624 0.18(mm)
LCS 460-846046/4		05/23/2022 06:20	50	O77037.d	DB-624 0.18(mm)
LCSD 460-846046/5		05/23/2022 06:44	50	O77038.d	DB-624 0.18(mm)
MB 460-846046/10		05/23/2022 08:44	50	O77043.d	DB-624 0.18(mm)
460-258307-3	DRA2-SB17-0.0-0.5	05/23/2022 09:43	50	O77044.d	DB-624 0.18(mm)
ZZZZZ		05/23/2022 10:31	50		DB-624 0.18(mm)
ZZZZZ		05/23/2022 11:19	50		DB-624 0.18(mm)
ZZZZZ		05/23/2022 11:43	50		DB-624 0.18(mm)
ZZZZZ		05/23/2022 12:07	100		DB-624 0.18(mm)
ZZZZZ		05/23/2022 12:55	250		DB-624 0.18(mm)
ZZZZZ		05/23/2022 13:19	50		DB-624 0.18(mm)
ZZZZZ		05/23/2022 14:31	50		DB-624 0.18(mm)
ZZZZZ		05/23/2022 15:19	1000		DB-624 0.18(mm)
ZZZZZ		05/23/2022 15:43	10000		DB-624 0.18(mm)
ZZZZZ		05/23/2022 17:42	50		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Instrument ID: CVOAMS7 Start Date: 04/22/2022 01:10

Analysis Batch Number: 840582 End Date: 04/22/2022 05:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-840582/1		04/22/2022 01:10	1	V18065.D	DB-624 0.18(mm)
STD1 460-840582/3 IC		04/22/2022 01:49	1	V18067.D	DB-624 0.18(mm)
STD5 460-840582/4 IC		04/22/2022 02:12	1	V18068.D	DB-624 0.18(mm)
STD20 460-840582/5 ICIS		04/22/2022 02:34	1	V18069.D	DB-624 0.18(mm)
STD50 460-840582/6 IC		04/22/2022 02:57	1	V18070.D	DB-624 0.18(mm)
STD200 460-840582/7 IC		04/22/2022 03:20	1	V18071.D	DB-624 0.18(mm)
STD500 460-840582/8 IC		04/22/2022 03:43	1	V18072.D	DB-624 0.18(mm)
ICV 460-840582/13		04/22/2022 05:36	1	V18077.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Instrument ID: CVOAMS7 Start Date: 05/20/2022 05:49

Analysis Batch Number: 845591 End Date: 05/20/2022 16:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 460-845591/2		05/20/2022 05:49	1	V19385.D	DB-624 0.18(mm)
LCS 460-845591/3		05/20/2022 06:12	1	V19386.D	DB-624 0.18(mm)
LCSD 460-845591/4		05/20/2022 06:35	1	V19387.D	DB-624 0.18(mm)
MB 460-845591/7		05/20/2022 07:43	1	V19390.D	DB-624 0.18(mm)
ZZZZZ		05/20/2022 08:05	1		DB-624 0.18(mm)
ZZZZZ		05/20/2022 08:28	1		DB-624 0.18(mm)
ZZZZZ		05/20/2022 08:51	1		DB-624 0.18(mm)
ZZZZZ		05/20/2022 09:14	1		DB-624 0.18(mm)
ZZZZZ		05/20/2022 09:36	1		DB-624 0.18(mm)
ZZZZZ		05/20/2022 09:59	1		DB-624 0.18(mm)
ZZZZZ		05/20/2022 10:22	1		DB-624 0.18(mm)
ZZZZZ		05/20/2022 10:45	1		DB-624 0.18(mm)
ZZZZZ		05/20/2022 11:07	1		DB-624 0.18(mm)
ZZZZZ		05/20/2022 11:53	1		DB-624 0.18(mm)
ZZZZZ		05/20/2022 12:16	1		DB-624 0.18(mm)
ZZZZZ		05/20/2022 13:01	1		DB-624 0.18(mm)
ZZZZZ		05/20/2022 13:24	1		DB-624 0.18(mm)
ZZZZZ		05/20/2022 13:47	1		DB-624 0.18(mm)
ZZZZZ		05/20/2022 14:10	1		DB-624 0.18(mm)
460-258307-1	DRA2-SB15-0.5-1.0	05/20/2022 14:32	1	V19408.D	DB-624 0.18(mm)
460-258307-2	DRA2-SB16-0.5-1.0	05/20/2022 14:55	1	V19409.D	DB-624 0.18(mm)
460-258307-7	DRA2-SB21-1.5-2.0	05/20/2022 16:26	1	V19413.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Instrument ID: CVOAMS7 Start Date: 05/21/2022 08:18

Analysis Batch Number: 845827 End Date: 05/21/2022 16:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 460-845827/2		05/21/2022 08:18	1	V19449.D	DB-624 0.18(mm)
LCS 460-845827/3		05/21/2022 08:44	1	V19450.D	DB-624 0.18(mm)
LCSD 460-845827/4		05/21/2022 09:07	1	V19451.D	DB-624 0.18(mm)
MB 460-845827/7		05/21/2022 10:15	1	V19454.D	DB-624 0.18(mm)
460-258307-8	DRA2-SB22-0.0-0.5	05/21/2022 10:37	1	V19455.D	DB-624 0.18(mm)
460-258307-4	DRA2-SB18-0.0-0.5	05/21/2022 11:00	1	V19456.D	DB-624 0.18(mm)
ZZZZZ		05/21/2022 11:46	1		DB-624 0.18(mm)
ZZZZZ		05/21/2022 12:08	1		DB-624 0.18(mm)
ZZZZZ		05/21/2022 12:31	1		DB-624 0.18(mm)
ZZZZZ		05/21/2022 12:54	1		DB-624 0.18(mm)
ZZZZZ		05/21/2022 13:17	1		DB-624 0.18(mm)
ZZZZZ		05/21/2022 13:39	1		DB-624 0.18(mm)
ZZZZZ		05/21/2022 14:02	1		DB-624 0.18(mm)
ZZZZZ		05/21/2022 14:25	1		DB-624 0.18(mm)
ZZZZZ		05/21/2022 14:48	1		DB-624 0.18(mm)
ZZZZZ		05/21/2022 15:10	1		DB-624 0.18(mm)
ZZZZZ		05/21/2022 15:33	1		DB-624 0.18(mm)
ZZZZZ		05/21/2022 15:56	1		DB-624 0.18(mm)
ZZZZZ		05/21/2022 16:19	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Instrument ID: CVOAMS7 Start Date: 05/23/2022 07:23

Analysis Batch Number: 846050 End Date: 05/23/2022 18:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 460-846050/3		05/23/2022 07:23	1	V19567.D	DB-624 0.18(mm)
LCS 460-846050/4		05/23/2022 07:46	1	V19568.D	DB-624 0.18(mm)
LCSD 460-846050/5		05/23/2022 08:09	1	V19569.D	DB-624 0.18(mm)
MB 460-846050/8		05/23/2022 09:17	1	V19572.D	DB-624 0.18(mm)
ZZZZZ		05/23/2022 09:40	1		DB-624 0.18(mm)
ZZZZZ		05/23/2022 10:03	1		DB-624 0.18(mm)
ZZZZZ		05/23/2022 10:26	1		DB-624 0.18(mm)
ZZZZZ		05/23/2022 11:57	1		DB-624 0.18(mm)
LB3 460-845242/1-A		05/23/2022 12:42	1	V19581.D	DB-624 0.18(mm)
ZZZZZ		05/23/2022 13:05	1		DB-624 0.18(mm)
ZZZZZ		05/23/2022 13:28	1		DB-624 0.18(mm)
ZZZZZ		05/23/2022 13:51	1		DB-624 0.18(mm)
ZZZZZ		05/23/2022 14:13	1		DB-624 0.18(mm)
ZZZZZ		05/23/2022 14:36	1		DB-624 0.18(mm)
ZZZZZ		05/23/2022 14:59	1		DB-624 0.18(mm)
ZZZZZ		05/23/2022 15:45	1		DB-624 0.18(mm)
ZZZZZ		05/23/2022 16:07	1		DB-624 0.18(mm)
ZZZZZ		05/23/2022 16:30	1		DB-624 0.18(mm)
ZZZZZ		05/23/2022 16:53	1		DB-624 0.18(mm)
ZZZZZ		05/23/2022 17:16	1		DB-624 0.18(mm)
ZZZZZ		05/23/2022 17:39	1		DB-624 0.18(mm)
ZZZZZ		05/23/2022 18:25	1		DB-624 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Batch Number: 840582 Batch Start Date: 04/22/22 01:10 Batch Analyst: Boykin, Kenneth

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	524freon 00051	8260 SP 00153	8260ISNEW 00117	8260MIX1COMB 00153
BFB 460-840582/1		8260D		5 mL	5 mL				
STD1 460-840582/3 IC		8260D		5 mL	5 mL	1 uL		1 uL	1 uL
STD5 460-840582/4 IC		8260D		5 mL	5 mL	5 uL		1 uL	5 uL
STD20 460-840582/5 ICIS		8260D		5 mL	5 mL	2 uL		1 uL	2 uL
STD50 460-840582/6 IC		8260D		5 mL	5 mL	5 uL		1 uL	5 uL
STD200 460-840582/7 IC		8260D		5 mL	5 mL			1 uL	
STD500 460-840582/8 IC		8260D		5 mL	5 mL			1 uL	
ICV 460-840582/13		8260D		5 mL	5 mL		2 uL	1 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260SURR250 00226	8FreonHi 00043	8FreonsSS 00044	ACROLEIN SP 00136	ACROLEIN W 00139	BFB 00031
BFB 460-840582/1		8260D							1 uL
STD1 460-840582/3 IC		8260D		1 uL				10 uL	
STD5 460-840582/4 IC		8260D		1 uL				20 uL	
STD20 460-840582/5 ICIS		8260D		1 uL				3 uL	
STD50 460-840582/6 IC		8260D		1 uL				4 uL	
STD200 460-840582/7 IC		8260D		1 uL	2 uL			5 uL	
STD500 460-840582/8 IC		8260D		1 uL	5 uL			6 uL	
ICV 460-840582/13		8260D		1 uL		2 uL	3 uL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	Ethanol mix 00063	GAS C SP 00458	GAS Hi 00412	GASES Li 00472	MIX 2 Hi 00122	MIX I Hi 00149

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 Edison Job No.: 460-258307-1

SDG No.:

Batch Number: 840582 Batch Start Date: 04/22/22 01:10 Batch Analyst: Boykin, Kenneth

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	Ethanol mix 00063	GAS C SP 00458	GAS Hi 00412	GASES Li 00472	MIX 2 Hi 00122	MIX I Hi 00149
BFB 460-840582/1		8260D							
STD1 460-840582/3 IC		8260D					1 uL		
STD5 460-840582/4 IC		8260D					5 uL		
STD20 460-840582/5 ICIS		8260D					2 uL		
STD50 460-840582/6 IC		8260D					5 uL		
STD200 460-840582/7 IC		8260D		2 uL		2 uL		2 uL	2 uL
STD500 460-840582/8 IC		8260D		5 uL		5 uL		5 uL	5 uL
ICV 460-840582/13		8260D			2 uL				

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 Edison Job No.: 460-258307-1

SDG No.:

Batch Number: 844084 Batch Start Date: 05/12/22 03:12 Batch Analyst: Boykin, Kenneth

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	14DIOXINTER 00141	524freon 00051	8260 SP 00154	8260ISNEW 00129
BFB 460-844084/1		8260D		5 mL	5 mL				1 uL
STD7 460-844084/3 IC		8260D		5 mL	5 mL				1 uL
STD1 460-844084/4 IC		8260D		5 mL	5 mL	30 uL	10 uL		1 uL
STD5 460-844084/5 IC		8260D		5 mL	5 mL		10 uL		1 uL
STD20 460-844084/6 ICIS		8260D		5 mL	5 mL		20 uL		1 uL
STD50 460-844084/7 IC		8260D		5 mL	5 mL		50 uL		1 uL
STD200 460-844084/8 IC		8260D		5 mL	5 mL				1 uL
STD500 460-844084/9 IC		8260D		5 mL	5 mL				1 uL
ICV 460-844084/17		8260D		5 mL	5 mL			20 uL	1 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260MIX1COMB 00153	8260SURR250 00226	8FreonHi 00044	8FreonsSS 00045	ACROLEIN SP 00137	ACROLEIN W 00139
BFB 460-844084/1		8260D							
STD7 460-844084/3 IC		8260D			1 uL				
STD1 460-844084/4 IC		8260D		10 uL	1 uL				4 uL
STD5 460-844084/5 IC		8260D		10 uL	1 uL				4 uL
STD20 460-844084/6 ICIS		8260D		20 uL	1 uL				4 uL
STD50 460-844084/7 IC		8260D		50 uL	1 uL				10 uL
STD200 460-844084/8 IC		8260D			1 uL	20 uL			20 uL
STD500 460-844084/9 IC		8260D			1 uL	50 uL			40 uL
ICV 460-844084/17		8260D			1 uL		20 uL	4 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 Edison Job No.: 460-258307-1

SDG No.:

Batch Number: 844084 Batch Start Date: 05/12/22 03:12 Batch Analyst: Boykin, Kenneth

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	ACRY/EPIH MIX 00100	BFB 00031	Ethanol mix 00064	GAS C SP 00461	GAS Hi 00414	GASES Li 00475
BFB 460-844084/1		8260D			1 uL				
STD7 460-844084/3 IC		8260D		20 uL					2.5 uL
STD1 460-844084/4 IC		8260D							10 uL
STD5 460-844084/5 IC		8260D							10 uL
STD20 460-844084/6 ICIS		8260D							20 uL
STD50 460-844084/7 IC		8260D							50 uL
STD200 460-844084/8 IC		8260D				20 uL		20 uL	
STD500 460-844084/9 IC		8260D				50 uL		50 uL	
ICV 460-844084/17		8260D					20 uL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	MIX 2 Hi 00123	MIX I Hi 00150				
BFB 460-844084/1		8260D							
STD7 460-844084/3 IC		8260D							
STD1 460-844084/4 IC		8260D							
STD5 460-844084/5 IC		8260D							
STD20 460-844084/6 ICIS		8260D							
STD50 460-844084/7 IC		8260D							
STD200 460-844084/8 IC		8260D		20 uL	20 uL				
STD500 460-844084/9 IC		8260D		50 uL	50 uL				
ICV 460-844084/17		8260D							

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 Edison Job No.: 460-258307-1

SDG No.:

Batch Number: 844084 Batch Start Date: 05/12/22 03:12 Batch Analyst: Boykin, Kenneth

Batch Method: 8260D Batch End Date:

Batch Notes	

Basis	Basis Description

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

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Batch Number: 845239 Batch Start Date: 05/18/22 10:14 Batch Analyst: Cho, Jordan J

Batch Method: 5035 Batch End Date: 05/18/22 10:21

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	VMC8PrepSU 00602			
460-258307-B-3	DRA2-SB17-0.0-0.5	5035, 8260D	T	5.69 g	10 mL	10 mL			
460-258307-B-5	DRA2-SB19-0.0-0.5	5035, 8260D	T	5.81 g	10 mL	10 mL			
460-258307-B-6	DRA2-SB20-0.5-1.0	5035, 8260D	T	5.24 g	10 mL	10 mL			

Batch Notes	
Balance ID	35
Blank Matrix ID	170485
Pipette/Syringe/Dispenser ID	5
Vial Lot Number	0128701g
Batch Comment	288059

Basis	Basis Description
T	Total/NA

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

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Batch Number: 845242 Batch Start Date: 05/18/22 10:22 Batch Analyst: Cho, Jordan J

Batch Method: 5035 Batch End Date: 05/18/22 10:35

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
LB3 460-845242/1		5035, 8260D		5 g	5 mL				
460-258307-C-1	DRA2-SB15-0.5-1.0	5035, 8260D	T	5.69 g	5 mL				
460-258307-C-2	DRA2-SB16-0.5-1.0	5035, 8260D	T	5.62 g	5 mL				
460-258307-D-4	DRA2-SB18-0.0-0.5	5035, 8260D	T	5.80 g	5 mL				
460-258307-C-7	DRA2-SB21-1.5-2.0	5035, 8260D	T	5.94 g	5 mL				
460-258307-D-8	DRA2-SB22-0.0-0.5	5035, 8260D	T	5.73 g	5 mL				

Batch Notes	
Balance ID	35
Blank Matrix ID	170485
Pipette/Syringe/Dispenser ID	7
Vial Lot Number	0128701G

Basis	Basis Description
T	Total/NA

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

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Batch Number: 845588 Batch Start Date: 05/20/22 04:29 Batch Analyst: Starzec, Margaret

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	524freon 00052	8260ISNEW 00129	8260MIX1COMB 00154	8260SURR250 00226
CCVIS 460-845588/2		8260D		5 mL	5 mL	20 uL	1 uL	20 uL	1 uL
LCS 460-845588/3		8260D		5 mL	5 mL	20 uL	1 uL	20 uL	1 uL
LCSD 460-845588/4		8260D		5 mL	5 mL	20 uL	1 uL	20 uL	1 uL
MB 460-845588/9		8260D		5 mL	5 mL		1 uL		1 uL
460-258307-B-5-A	DRA2-SB19-0.0-0.5	8260D	T	5 mL	5 mL		1 uL		
460-258307-B-6-A	DRA2-SB20-0.5-1.0	8260D	T	5 mL	5 mL		1 uL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	ACROLEIN W 00140	GASES Li 00476				
CCVIS 460-845588/2		8260D		4 uL	20 uL				
LCS 460-845588/3		8260D		4 uL	20 uL				
LCSD 460-845588/4		8260D		4 uL	20 uL				
MB 460-845588/9		8260D							
460-258307-B-5-A	DRA2-SB19-0.0-0.5	8260D	T						
460-258307-B-6-A	DRA2-SB20-0.5-1.0	8260D	T						

Batch Notes	

Basis	Basis Description
T	Total/NA

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

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Batch Number: 845591 Batch Start Date: 05/20/22 05:49 Batch Analyst: Tupayachi, Audberto

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	524freon 00052	8260ISNEW 00117	8260MIX1COMB 00154	8260SURR250 00226
CCVIS 460-845591/2		8260D		5 mL	5 mL	2 uL	1 uL	2 uL	1 uL
LCS 460-845591/3		8260D		5 mL	5 mL	2 uL	1 uL	2 uL	1 uL
LCSD 460-845591/4		8260D		5 mL	5 mL	2 uL	1 uL	2 uL	1 uL
MB 460-845591/7		8260D		5 mL	5 mL		1 uL		1 uL
460-258307-C-1-A	DRA2-SB15-0.5-1.0	8260D	T	5 mL	5 mL		1 uL		1 uL
460-258307-C-2-A	DRA2-SB16-0.5-1.0	8260D	T	5 mL	5 mL		1 uL		1 uL
460-258307-C-7-A	DRA2-SB21-1.5-2.0	8260D	T	5 mL	5 mL		1 uL		1 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	ACROLEIN W 00140	GASES Li 00476				
CCVIS 460-845591/2		8260D		3 uL	2 uL				
LCS 460-845591/3		8260D		3 uL	2 uL				
LCSD 460-845591/4		8260D		3 uL	2 uL				
MB 460-845591/7		8260D							
460-258307-C-1-A	DRA2-SB15-0.5-1.0	8260D	T						
460-258307-C-2-A	DRA2-SB16-0.5-1.0	8260D	T						
460-258307-C-7-A	DRA2-SB21-1.5-2.0	8260D	T						

Batch Notes	

Basis	Basis Description
T	Total/NA

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

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Batch Number: 845827 Batch Start Date: 05/21/22 08:18 Batch Analyst: Starzec, Margaret

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	524freon 00052	8260ISNEW 00117	8260MIX1COMB 00154	8260SURR250 00226
CCVIS 460-845827/2		8260D		5 mL	5 mL	2 uL	1 uL	2 uL	1 uL
LCS 460-845827/3		8260D		5 mL	5 mL	2 uL	1 uL	2 uL	1 uL
LCSD 460-845827/4		8260D		5 mL	5 mL	2 uL	1 uL	2 uL	1 uL
MB 460-845827/7		8260D		5 mL	5 mL		1 uL		1 uL
460-258307-D-8-A	DRA2-SB22-0.0-0.5	8260D	T	5 mL	5 mL		1 uL		1 uL
460-258307-D-4-A	DRA2-SB18-0.0-0.5	8260D	T	5 mL	5 mL		1 uL		1 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	ACROLEIN W 00140	GASES Li 00476				
CCVIS 460-845827/2		8260D		3 uL	2 uL				
LCS 460-845827/3		8260D		3 uL	2 uL				
LCSD 460-845827/4		8260D		3 uL	2 uL				
MB 460-845827/7		8260D							
460-258307-D-8-A	DRA2-SB22-0.0-0.5	8260D	T						
460-258307-D-4-A	DRA2-SB18-0.0-0.5	8260D	T						

Batch Notes	

Basis	Basis Description
T	Total/NA

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

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Batch Number: 845946 Batch Start Date: 05/22/22 07:56 Batch Analyst: Tupayachi, Audberto

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	14DIOXINTER 00141	524freon 00052	8260 SP 00154	8260ISNEW 00129
BFB 460-845946/1		8260D		5 mL	5 mL				1 uL
STD7 460-845946/3 IC		8260D		5 mL	5 mL				1 uL
STD1 460-845946/4 IC		8260D		5 mL	5 mL	30 uL	10 uL		1 uL
STD5 460-845946/5 IC		8260D		5 mL	5 mL		10 uL		1 uL
STD20 460-845946/6 ICIS		8260D		5 mL	5 mL		20 uL		1 uL
STD50 460-845946/7 IC		8260D		5 mL	5 mL		50 uL		1 uL
STD200 460-845946/8 IC		8260D		5 mL	5 mL				1 uL
STD500 460-845946/9 IC		8260D		5 mL	5 mL				1 uL
ICV 460-845946/17		8260D		5 mL	5 mL			20 uL	1 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260MIX1COMB 00154	8260SURR250 00226	8FreonHi 00044	8FreonsSS 00045	ACROLEIN SP 00137	ACROLEIN W 00140
BFB 460-845946/1		8260D							
STD7 460-845946/3 IC		8260D			1 uL				
STD1 460-845946/4 IC		8260D		10 uL	1 uL				4 uL
STD5 460-845946/5 IC		8260D		10 uL	1 uL				4 uL
STD20 460-845946/6 ICIS		8260D		20 uL	1 uL				4 uL
STD50 460-845946/7 IC		8260D		50 uL	1 uL				10 uL
STD200 460-845946/8 IC		8260D			1 uL	20 uL			20 uL
STD500 460-845946/9 IC		8260D			1 uL	50 uL			40 uL
ICV 460-845946/17		8260D			1 uL		20 uL	4 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 Edison Job No.: 460-258307-1

SDG No.:

Batch Number: 845946 Batch Start Date: 05/22/22 07:56 Batch Analyst: Tupayachi, Audberto

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	ACRY/EPIH MIX 00100	BFB 00031	Ethanol mix 00064	GAS C SP 00462	GAS Hi 00414	GASES Li 00476
BFB 460-845946/1		8260D			1 uL				
STD7 460-845946/3 IC		8260D		20 uL					2.5 uL
STD1 460-845946/4 IC		8260D							10 uL
STD5 460-845946/5 IC		8260D							10 uL
STD20 460-845946/6 ICIS		8260D							20 uL
STD50 460-845946/7 IC		8260D							50 uL
STD200 460-845946/8 IC		8260D				20 uL		20 uL	
STD500 460-845946/9 IC		8260D				50 uL		50 uL	
ICV 460-845946/17		8260D					20 uL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	MIX 2 Hi 00123	MIX I Hi 00150				
BFB 460-845946/1		8260D							
STD7 460-845946/3 IC		8260D							
STD1 460-845946/4 IC		8260D							
STD5 460-845946/5 IC		8260D							
STD20 460-845946/6 ICIS		8260D							
STD50 460-845946/7 IC		8260D							
STD200 460-845946/8 IC		8260D		20 uL	20 uL				
STD500 460-845946/9 IC		8260D		50 uL	50 uL				
ICV 460-845946/17		8260D							

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 Edison Job No.: 460-258307-1

SDG No.:

Batch Number: 845946 Batch Start Date: 05/22/22 07:56 Batch Analyst: Tupayachi, Audberto

Batch Method: 8260D Batch End Date:

Batch Notes	

Basis	Basis Description

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

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Batch Number: 846046 Batch Start Date: 05/23/22 05:55 Batch Analyst: Tupayachi, Audberto

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	524freon 00052	8260ISNEW 00129	8260MIX1COMB 00154	8260SURR250 00226
CCVIS 460-846046/3		8260D		5 mL	5 mL	20 uL	1 uL	20 uL	1 uL
LCS 460-846046/4		8260D		5 mL	5 mL	20 uL	1 uL	20 uL	1 uL
LCSD 460-846046/5		8260D		5 mL	5 mL	20 uL	1 uL	20 uL	1 uL
MB 460-846046/10		8260D		5 mL	5 mL		1 uL		1 uL
460-258307-B-3-A	DRA2-SB17-0.0-0.5	8260D	T	5 mL	5 mL		1 uL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	ACROLEIN W 00140	GASES Li 00476				
CCVIS 460-846046/3		8260D		4 uL	20 uL				
LCS 460-846046/4		8260D		4 uL	20 uL				
LCSD 460-846046/5		8260D		4 uL	20 uL				
MB 460-846046/10		8260D							
460-258307-B-3-A	DRA2-SB17-0.0-0.5	8260D	T						

Batch Notes	

Basis	Basis Description
T	Total/NA

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

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Batch Number: 846050 Batch Start Date: 05/23/22 07:23 Batch Analyst: Tupayachi, Audberto

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	524freon 00052	8260ISNEW 00117	8260MIX1COMB 00154	8260SURR250 00226
CCVIS 460-846050/3		8260D		5 mL	5 mL	2 uL	1 uL	2 uL	1 uL
LCS 460-846050/4		8260D		5 mL	5 mL	2 uL	1 uL	2 uL	1 uL
LCSD 460-846050/5		8260D		5 mL	5 mL	2 uL	1 uL	2 uL	1 uL
MB 460-846050/8		8260D		5 mL	5 mL		1 uL		1 uL
LB3 460-845242/1-A		8260D		5 mL	5 mL		1 uL		1 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	ACROLEIN W 00140	GASES Li 00476				
CCVIS 460-846050/3		8260D		3 uL	2 uL				
LCS 460-846050/4		8260D		3 uL	2 uL				
LCSD 460-846050/5		8260D		3 uL	2 uL				
MB 460-846050/8		8260D							
LB3 460-845242/1-A		8260D							

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.

METALS

COVER PAGE
METALS

Lab Name: Eurofins Edison Job Number: 460-258307-1

SDG No.:

Project: PES Refinery

Client Sample ID	Lab Sample ID
DRA3-SB06R-1.5-2.0	460-258307-9
DRA3-SB09-0.0-0.5	460-258307-10

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DRA3-SB06R-1.5-2.0 Lab Sample ID: 460-258307-9

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG ID.:

Matrix: Solid Date Sampled: 05/17/2022 11:05

Reporting Basis: DRY Date Received: 05/17/2022 19:30

% Solids: 83.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	61.2	0.53	0.18	mg/Kg			1	6020B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DRA3-SB09-0.0-0.5 Lab Sample ID: 460-258307-10

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG ID.:

Matrix: Solid Date Sampled: 05/17/2022 11:15

Reporting Basis: DRY Date Received: 05/17/2022 19:30

% Solids: 80.6

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	73.7	0.61	0.20	mg/Kg			1	6020B

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

ICV Source: ME_ICV_00074 Concentration Units: ug/L

CCV Source: ME_Cal4_00110

Analyte	ICV 460-846020/7 05/22/2022 13:15				CCV 460-846020/14 05/22/2022 13:39				CCV 460-846020/81 05/22/2022 16:24			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Lead	80.77		80.0	101	100.4		100	100	101.6		100	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

ICV Source: ME_ICV_00074 Concentration Units: ug/L

CCV Source: ME_Cal4_00110

Analyte	CCV 460-846020/93 05/22/2022 16:52				CCV 460-846020/105 05/22/2022 17:20							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Lead	102.1		100	102	102.3		100	102				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 460-846020/8 05/22/2022 13:17		CCB 460-846020/15 05/22/2022 13:41		CCB 460-846020/82 05/22/2022 16:27		CCB 460-846020/94 05/22/2022 16:54	
		Found	C	Found	C	Found	C	Found	C
Lead	6.0	2.0	U	2.0	U	2.0	U	2.0	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 460-846020/106 05/22/2022 17:22							
		Found	C	Found	C	Found	C	Found	C
Lead	6.0	2.0	U						

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 460-845917/1-A

Instrument Code: ICPMS3 Batch No.: 846020

CAS No.	Analyte	Concentration	C	Q	Method
7439-92-1	Lead	0.20	U		6020B

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab Sample ID: ICSA 460-846020/10 Instrument ID: ICPMS3

Lab File ID: 013ICSA.d ICS Source: ME_ICSA_00125

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Lead		**0.268**	
Aluminum	*100000*	*98901*	*99*
Antimony		*-0.0030*	
Arsenic		*0.143*	
Barium		*1.66*	
Beryllium		*0.0290*	
Boron		*6.17*	
Cadmium		*0.548*	
Calcium	*100000*	*100616*	*101*
Chromium		*0.839*	
Cobalt		*0.339*	
Copper		*0.476*	
Iron	*100000*	*99859*	*100*
Magnesium	*100000*	*95633*	*96*
Manganese		*0.937*	
Molybdenum	*2000*	*1986*	*99*
Nickel		*0.695*	
Potassium	*100000*	*98339*	*98*
Selenium		*0.105*	
Silver		*0.410*	
Sodium	*100000*	*98918*	*99*
Strontium		*2.63*	
Thallium		*-0.0090*	
Tin		*0.360*	
Titanium	*2000*	*2046*	*102*
Vanadium		*0.0970*	
Zinc		*0.276*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Lab Sample ID: ICSAB 460-846020/11 Instrument ID: ICPMS3

Lab File ID: 014ICSB.d ICS Source: ME_ICSAB_00086

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Lead	**200**	**199**	**99**
Aluminum	*100000*	*98681*	*99*
Antimony	*100*	*107*	*107*
Arsenic	*200*	*199*	*100*
Barium	*200*	*199*	*100*
Beryllium	*200*	*197*	*98*
Boron		*8.97*	
Cadmium	*200*	*201*	*100*
Calcium	*100000*	*100563*	*101*
Chromium	*200*	*197*	*99*
Cobalt	*200*	*195*	*98*
Copper	*200*	*194*	*97*
Iron	*100000*	*100430*	*100*
Magnesium	*100000*	*97704*	*98*
Manganese	*200*	*200*	*100*
Molybdenum	*2000*	*1998*	*100*
Nickel	*200*	*197*	*99*
Potassium	*100000*	*98614*	*99*
Selenium	*200*	*201*	*100*
Silver	*200*	*193*	*96*
Sodium	*100000*	*99679*	*100*
Strontium	*200*	*201*	*100*
Thallium	*100*	*97.6*	*98*
Tin	*200*	*201*	
Titanium	*2000*	*2070*	*103*
Vanadium	*200*	*200*	*100*
Zinc	*200*	*197*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: | Lab ID: 460-258333-D-2-G MS

Lab Name: Eurofins Edison | Job No.: 460-258307-1

SDG No.:

Matrix: Solid | Concentration Units: mg/Kg

% Solids: 92.3

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Lead	27.81		14.5		4.44	300	75-125	F1	6020B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: Lab ID: 460-258333-D-2-E PDS

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Lead	16.43		14.5		2.17	90	75-125		6020B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

6-IN
DUPLICATES
METALS

Client ID: Lab ID: 460-258333-D-2-F DU

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

% Solids for Sample: 92.3 % Solids for Duplicate: 92.3

Matrix: Solid Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S) C		Duplicate (D) C		RPD	Q	Method
Lead	0.52	14.5		15.06		4		6020B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN
LINEAR RANGE CHECK STANDARD
METALS

Lab ID: LRC 460-846020/12

Lab Name: Eurofins Edison Job No.: 460-258307-1

Sample Matrix: LCS Source: me_LR-A_00016

Analyte	(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Lead	20000	20580		103	90	110		6020B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LINEAR RANGE CHECK STANDARD
METALS

Lab ID: LRC 460-846020/13

Lab Name: Eurofins Edison Job No.: 460-258307-1

Sample Matrix: LCS Source:

Analyte	(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Lead		2.0	U					6020B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 460-845917/2-A ^5

Lab Name: Eurofins Edison Job No.: 460-258307-1

Sample Matrix: Solid LCS Source: ME_LCSS_113_00001

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Lead	123	124.0		100.8	83.7	117.1		6020B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 460-258333-D-2-E SD ^5

SDG No:

Lab Name: Eurofins Edison Job No: 460-258307-1

Matrix: Solid Concentration Units: mg/Kg

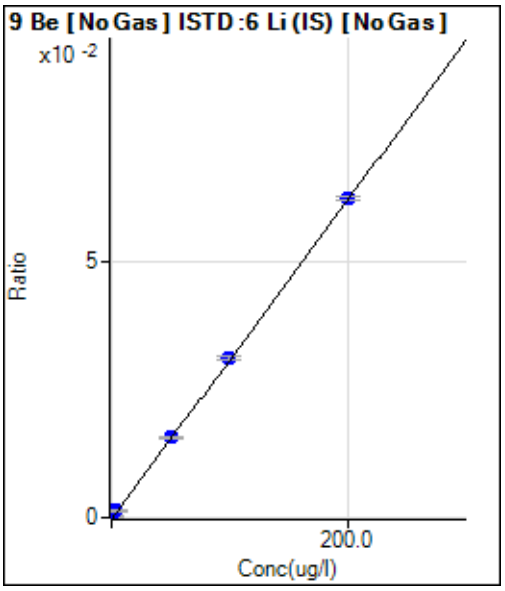
Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Lead	14.5		14.59		NC		6020B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

Batch Folder: C:\Agilent\ICPMH\1\DATA\nm052222_B.b\
Analysis File: nm052222_B.batch.bin
DA Date-Time: 2022-05-22 16:25:51
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

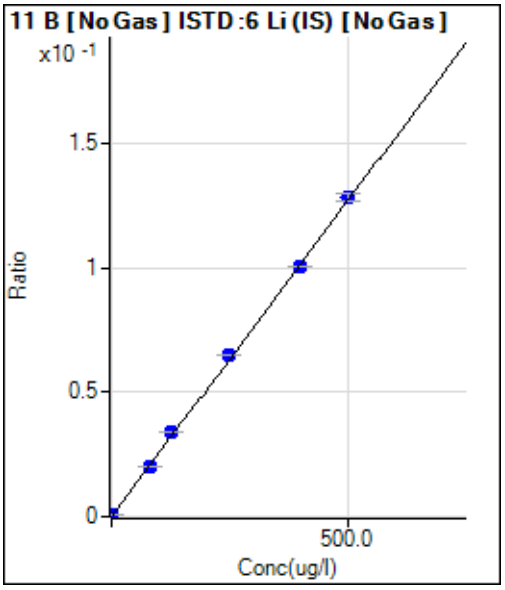
Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	IC Cal Blk	2022-05-22 13:01:33
2	005CALS.d	IC Cal-1 9803767	2022-05-22 13:03:51
3	006CALS.d	IC Cal-2 9767631	2022-05-22 13:06:09
4	007CALS.d	IC Cal-3 9767645	2022-05-22 13:08:27
5	008CALS.d	IC Cal-4 9803796	2022-05-22 13:10:45
6	009CALS.d	IC Cal-5 9767673	2022-05-22 13:13:04



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	55.56	0.0000	P	26.9	
2	☐	0.800	0.786	1263.39	0.0003	P	4.0	-1.8
3	☐	4.000	4.184	6458.05	0.0013	P	1.0	4.6
4	☐	50.000	50.109	74749.80	0.0156	P	1.1	0.2
5	☐	100.000	99.802	153372.02	0.0311	P	1.7	-0.2
6	☐	200.000	200.068	309601.49	0.0624	P	1.7	0.0

y = 3.1178E-004 * x + 1.1162E-005
R = 1.0000
DL = 0.02889 ug/l
BEC = 0.0358 ug/l

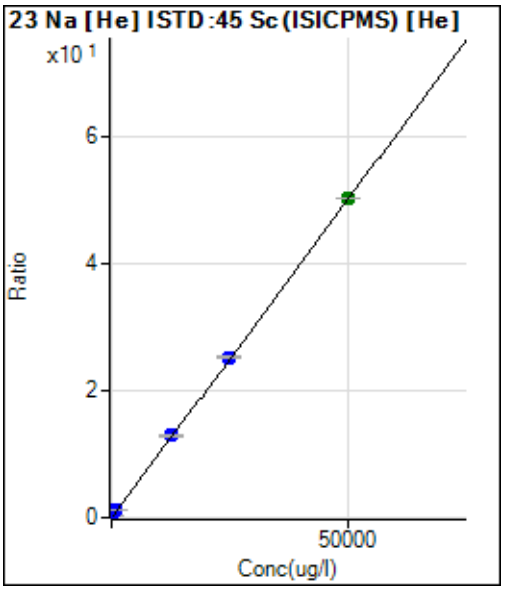
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3618.22	0.0007	P	3.9	
2	☐	80.000	77.282	100287.48	0.0203	P	0.7	-3.4
3	☐	400.000	392.380	492217.85	0.1003	P	0.3	-1.9
4	☐	125.000	132.314	163956.27	0.0343	P	0.2	5.9
5	☐	250.000	253.443	320364.94	0.0650	P	0.8	1.4
6	☐	500.000	502.981	636799.40	0.1283	P	2.0	0.6

y = 2.5368E-004 * x + 7.2718E-004
R = 0.9996
DL = 0.3338 ug/l
BEC = 2.867 ug/l

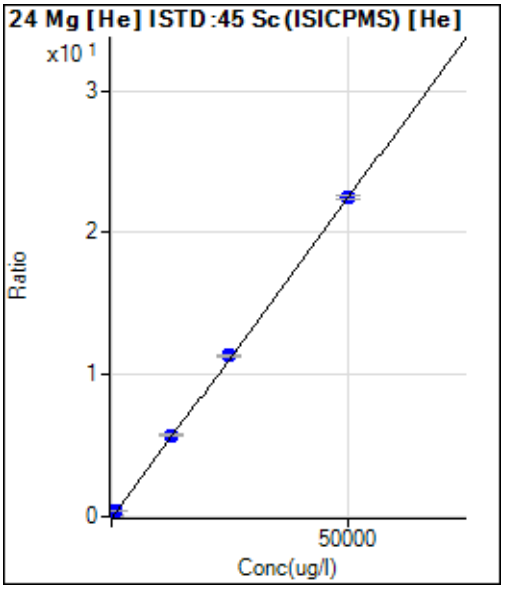
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23464.63	0.2213	P	1.8	
2	☐	200.000	201.128	44920.04	0.4225	P	0.8	0.6
3	☐	1000.000	1035.235	134885.64	1.2573	P	1.0	3.5
4	☐	12500.00	12652.95	1350589.42	12.884	P	1.4	1.2
5	☐	25000.00	24980.79	2666137.13	25.221	P	1.3	-0.1
6	☐	50000.00	49970.65	5239841.27	50.230	A	0.5	-0.1

y = 0.0010 * x + 0.2213
R = 1.0000
DL = 11.68 ug/l
BEC = 221.1 ug/l

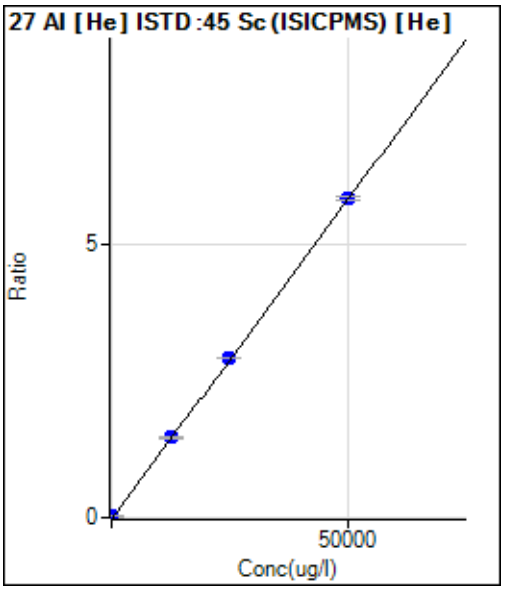
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	126.67	0.0012	P	8.2	
2	☐	200.000	205.064	9963.29	0.0937	P	2.0	2.5
3	☐	1000.000	1028.149	49897.89	0.4651	P	2.3	2.8
4	☐	12500.00	12695.50	600660.05	5.7299	P	1.3	1.6
5	☐	25000.00	25146.17	1199684.56	11.348	P	0.7	0.6
6	☐	50000.00	49877.45	2347881.77	22.507	P	1.4	-0.2

y = 4.5124E-004 * x + 0.0012
R = 1.0000
DL = 0.6474 ug/l
BEC = 2.647 ug/l

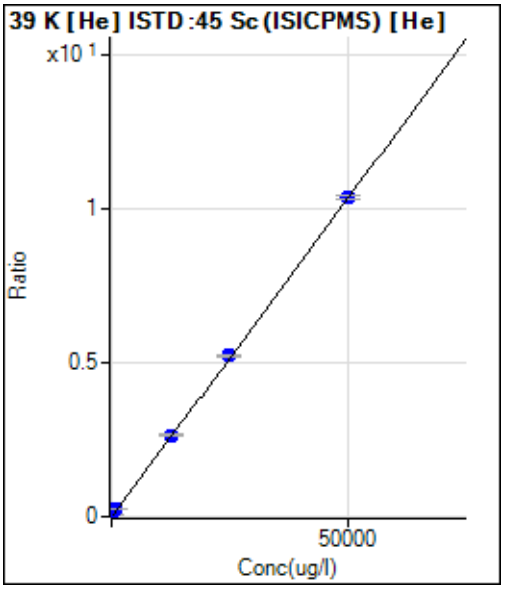
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	25.55	0.0002	P	15.8	
2	☐	40.000	41.690	543.34	0.0051	P	3.6	4.2
3	☐	200.000	207.598	2626.91	0.0245	P	1.7	3.8
4	☐	12500.00	12527.62	153410.22	1.4634	P	2.1	0.2
5	☐	25000.00	25048.61	309302.09	2.9257	P	0.6	0.2
6	☐	50000.00	49968.75	608797.83	5.8362	P	0.9	-0.1

y = 1.1679E-004 * x + 2.4111E-004
R = 1.0000
DL = 0.9789 ug/l
BEC = 2.064 ug/l

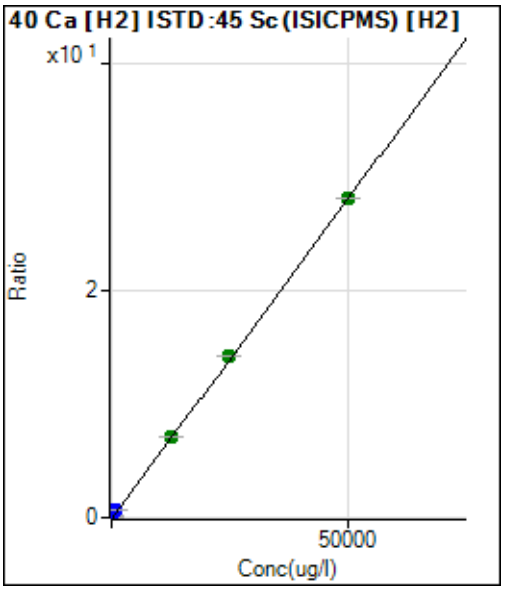
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4196.16	0.0396	P	2.0	
2	☐	200.000	198.198	8572.47	0.0806	P	1.2	-0.9
3	☐	1000.000	1017.984	26879.42	0.2505	P	0.7	1.8
4	☐	12500.00	12583.68	277517.52	2.6474	P	1.3	0.7
5	☐	25000.00	25083.33	553711.27	5.2377	P	0.5	0.3
6	☐	50000.00	49937.06	1083641.40	10.388	P	1.1	-0.1

y = 2.0724E-004 * x + 0.0396
R = 1.0000
DL = 11.38 ug/l
BEC = 190.9 ug/l

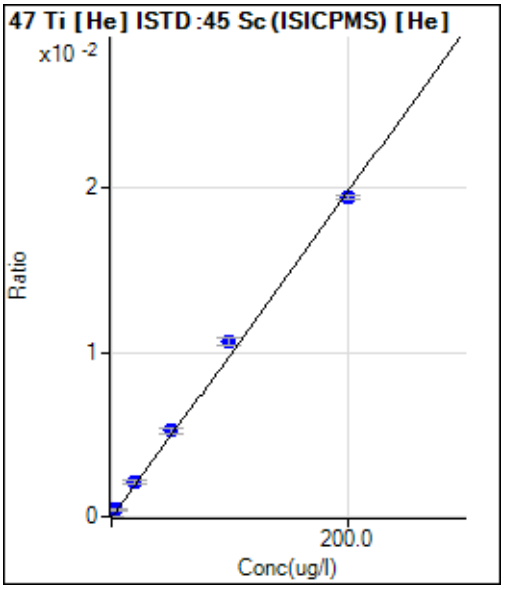
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	38311.66	0.0170	P	0.9	
2	☐	200.000	211.781	310663.13	0.1361	P	0.4	5.9
3	☐	1000.000	1035.272	1376529.01	0.5994	P	0.5	3.5
4	☐	12500.00	12608.83	15969975.18	7.1107	A	0.7	0.9
5	☐	25000.00	25190.82	32100967.30	14.189	A	0.4	0.8
6	☐	50000.00	49876.62	64610394.59	28.077	A	0.4	-0.2

y = 5.6260E-004 * x + 0.0170
R = 1.0000
DL = 0.8059 ug/l
BEC = 30.21 ug/l

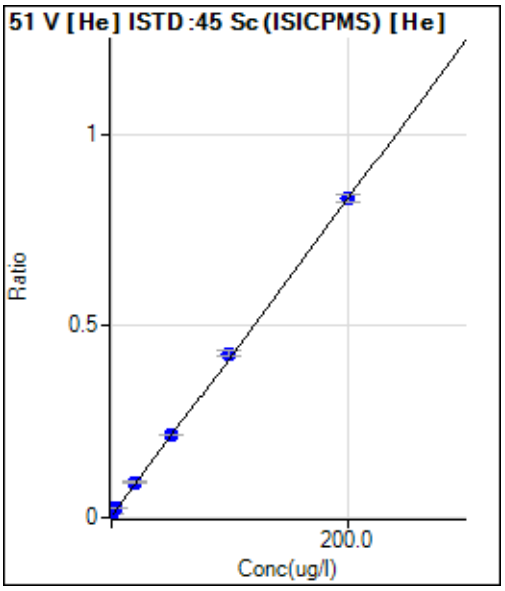
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2.22	0.0000	P	86.6	
2	☐	4.000	4.109	45.56	0.0004	P	25.9	2.7
3	☐	20.000	20.970	225.56	0.0021	P	13.9	4.8
4	☐	50.000	52.674	550.01	0.0052	P	7.0	5.3
5	☐	100.000	107.121	1125.60	0.0107	P	5.2	7.1
6	☐	200.000	195.672	2027.93	0.0194	P	1.4	-2.2

y = 9.9246E-005 * x + 2.1001E-005
R = 0.9989
DL = 0.5498 ug/l
BEC = 0.2116 ug/l

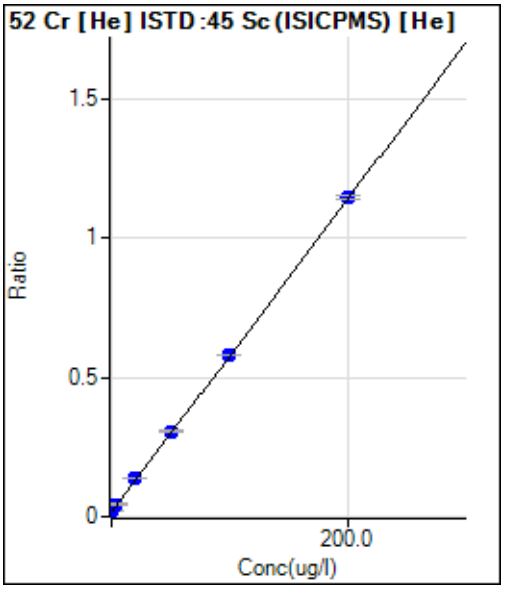
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	900.03	0.0085	P	4.9	
2	☐	4.000	3.851	2595.79	0.0244	P	2.2	-3.7
3	☐	20.000	20.077	9821.04	0.0915	P	3.3	0.4
4	☐	50.000	50.081	22607.01	0.2157	P	1.4	0.2
5	☐	100.000	101.286	45194.63	0.4275	P	3.3	1.3
6	☐	200.000	199.332	86902.15	0.8331	P	2.1	-0.3

y = 0.0041 * x + 0.0085
R = 1.0000
DL = 0.3039 ug/l
BEC = 2.051 ug/l

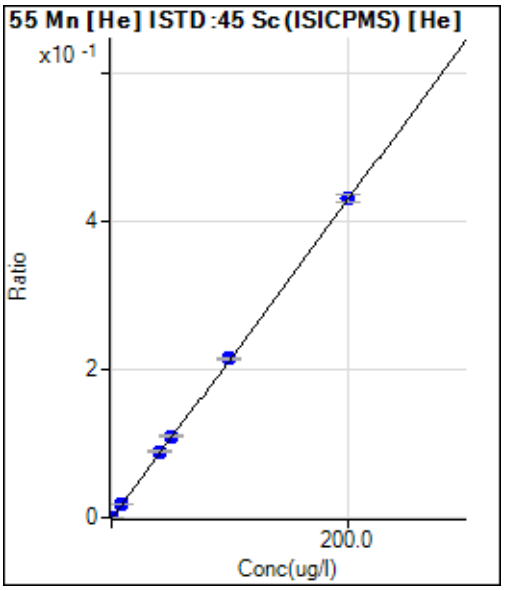
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2310.19	0.0218	P	1.7	
2	☐	4.000	4.091	4756.34	0.0447	P	7.0	2.3
3	☐	20.000	20.619	14755.08	0.1375	P	1.3	3.1
4	☐	50.000	50.792	32173.34	0.3069	P	1.1	1.6
5	☐	100.000	99.269	61214.62	0.5790	P	0.9	-0.7
6	☐	200.000	200.104	119447.17	1.1451	P	1.8	0.1

y = 0.0056 * x + 0.0218
R = 1.0000
DL = 0.198 ug/l
BEC = 3.88 ug/l

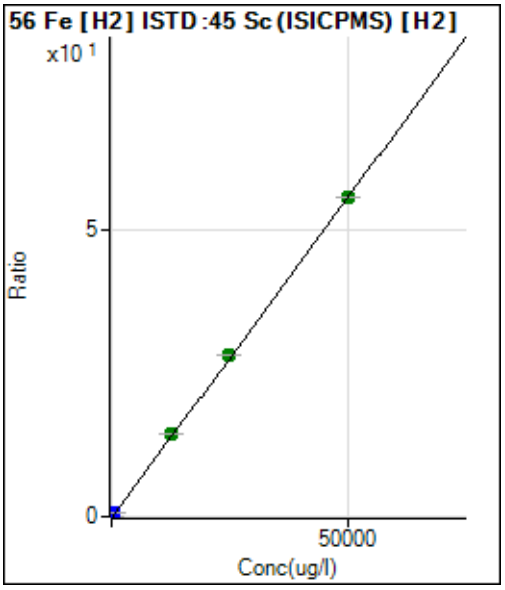
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	71.11	0.0007	P	23.9	
2	☐	8.000	7.756	1846.79	0.0174	P	3.3	-3.1
3	☐	40.000	40.720	9478.61	0.0883	P	2.9	1.8
4	☐	50.000	50.514	11471.10	0.1094	P	2.0	1.0
5	☐	100.000	99.570	22732.85	0.2150	P	1.0	-0.4
6	☐	200.000	199.952	44976.32	0.4312	P	2.1	0.0

y = 0.0022 * x + 6.7118E-004
R = 1.0000
DL = 0.2231 ug/l
BEC = 0.3117 ug/l

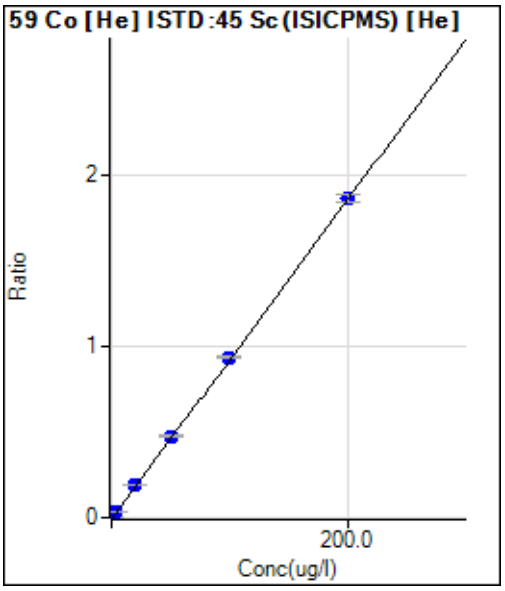
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	37915.61	0.0168	P	1.0	
2	☐	120.000	124.235	354845.66	0.1555	P	0.5	3.5
3	☐	600.000	615.270	1615890.59	0.7037	P	0.9	2.5
4	☐	12500.00	12831.51	32208066.19	14.340	A	0.6	2.7
5	☐	25000.00	25247.91	63801665.16	28.201	A	0.4	1.0
6	☐	50000.00	49792.97	127948556.9	55.601	A	0.5	-0.4

y = 0.0011 * x + 0.0168
R = 1.0000
DL = 0.4678 ug/l
BEC = 15.07 ug/l

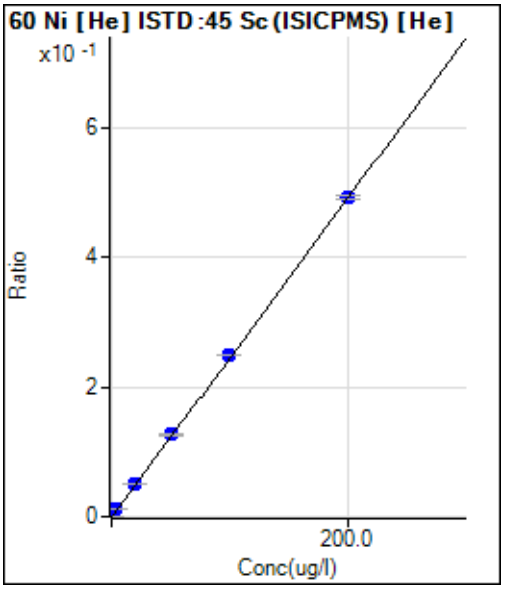
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53.34	0.0005	P	11.0	
2	☐	4.000	3.987	4010.56	0.0377	P	0.6	-0.3
3	☐	20.000	20.013	20099.11	0.1873	P	0.2	0.1
4	☐	50.000	50.911	49875.30	0.4758	P	0.8	1.8
5	☐	100.000	100.129	98878.12	0.9353	P	0.7	0.1
6	☐	200.000	199.706	194534.01	1.8650	P	2.9	-0.1

y = 0.0093 * x + 5.0295E-004
R = 1.0000
DL = 0.01771 ug/l
BEC = 0.05387 ug/l

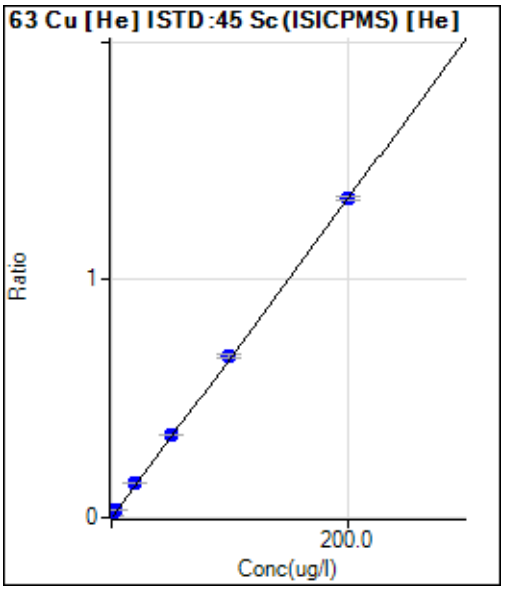
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	128.89	0.0012	P	22.3	
2	☐	4.000	4.339	1264.51	0.0119	P	7.5	8.5
3	☐	20.000	20.377	5512.16	0.0514	P	0.6	1.9
4	☐	50.000	50.809	13237.05	0.1263	P	2.4	1.6
5	☐	100.000	100.510	26283.22	0.2486	P	0.4	0.5
6	☐	200.000	199.498	51354.83	0.4923	P	1.5	-0.3

y = 0.0025 * x + 0.0012
R = 1.0000
DL = 0.3306 ug/l
BEC = 0.4942 ug/l

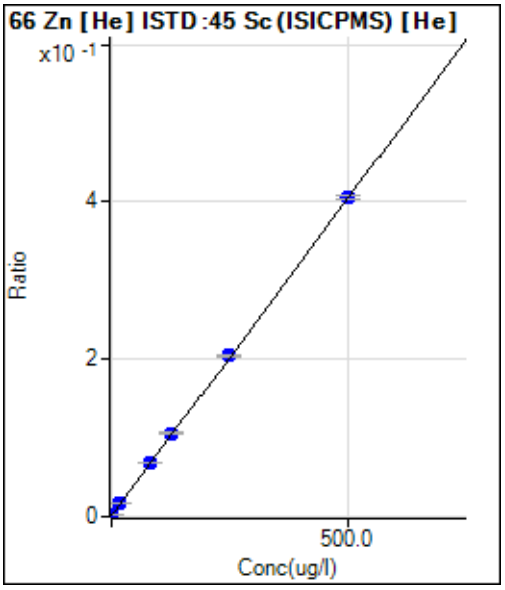
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	544.46	0.0051	P	9.8	
2	☐	4.000	4.090	3462.64	0.0326	P	4.0	2.2
3	☐	20.000	20.955	15636.07	0.1457	P	2.1	4.8
4	☐	50.000	51.236	36572.65	0.3489	P	1.3	2.5
5	☐	100.000	100.602	71899.66	0.6801	P	1.5	0.6
6	☐	200.000	199.292	140019.49	1.3423	P	1.6	-0.4

y = 0.0067 * x + 0.0051
R = 1.0000
DL = 0.2245 ug/l
BEC = 0.7651 ug/l

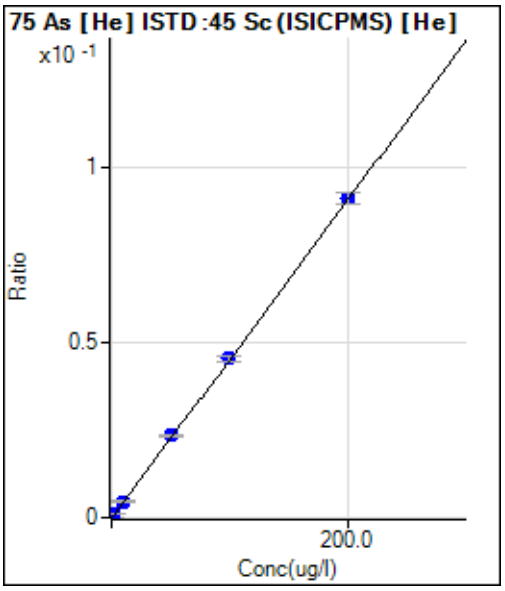
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	366.67	0.0035	P	2.3	
2	☐	16.000	16.376	1770.12	0.0166	P	3.0	2.3
3	☐	80.000	81.011	7372.98	0.0687	P	1.1	1.3
4	☐	125.000	126.741	11065.29	0.1056	P	1.7	1.4
5	☐	250.000	249.879	21645.87	0.2048	P	0.9	0.0
6	☐	500.000	499.452	42333.56	0.4058	P	0.9	-0.1

y = 8.0562E-004 * x + 0.0035
R = 1.0000
DL = 0.2911 ug/l
BEC = 4.291 ug/l

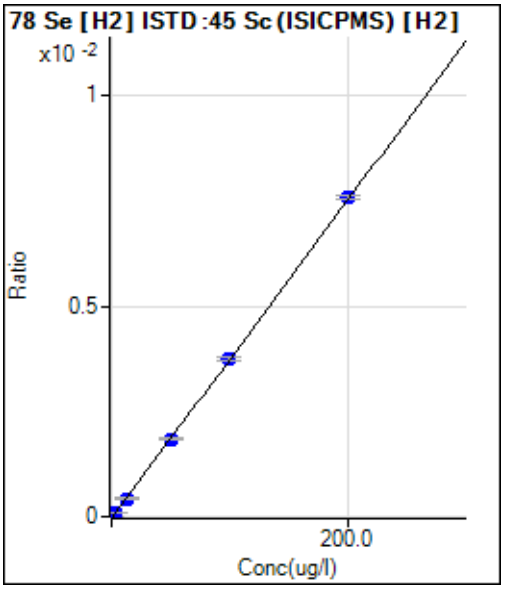
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23.33	0.0002	P	43.5	
2	☐	2.000	1.745	107.78	0.0010	P	5.7	-12.7
3	☐	10.000	9.381	481.12	0.0045	P	9.6	-6.2
4	☐	50.000	51.282	2465.78	0.0235	P	2.3	2.6
5	☐	100.000	99.371	4795.26	0.0454	P	4.0	-0.6
6	☐	200.000	200.027	9504.24	0.0911	P	3.4	0.0

y = 4.5441E-004 * x + 2.2043E-004
R = 1.0000
DL = 0.6334 ug/l
BEC = 0.4851 ug/l

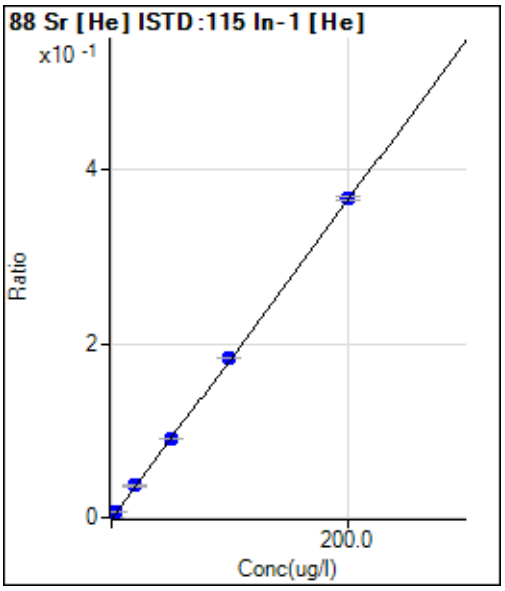
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5.00	0.0000	P	32.2	
2	☐	2.500	2.516	222.23	0.0001	P	10.4	0.6
3	☐	12.500	11.386	993.92	0.0004	P	2.8	-8.9
4	☐	50.000	48.857	4155.60	0.0019	P	1.2	-2.3
5	☐	100.000	99.304	8502.47	0.0038	P	2.2	-0.7
6	☐	200.000	200.703	17474.83	0.0076	P	0.9	0.4

y = 3.7825E-005 * x + 2.2127E-006
R = 1.0000
DL = 0.05649 ug/l
BEC = 0.0585 ug/l

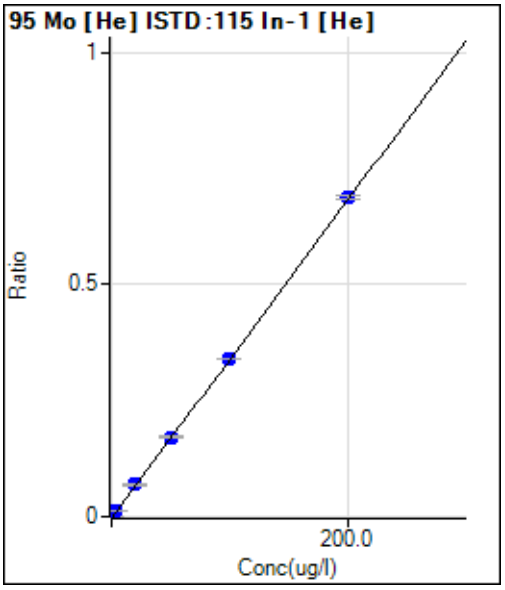
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15.56	0.0001	P	32.6	
2	☐	4.000	3.783	752.25	0.0071	P	5.2	-5.4
3	☐	20.000	19.924	3920.55	0.0366	P	6.2	-0.4
4	☐	50.000	49.088	9353.03	0.0900	P	0.8	-1.8
5	☐	100.000	99.983	19240.49	0.1833	P	0.5	0.0
6	☐	200.000	200.248	37939.15	0.3669	P	1.4	0.1

y = 0.0018 * x + 1.4679E-004
R = 1.0000
DL = 0.07828 ug/l
BEC = 0.08015 ug/l

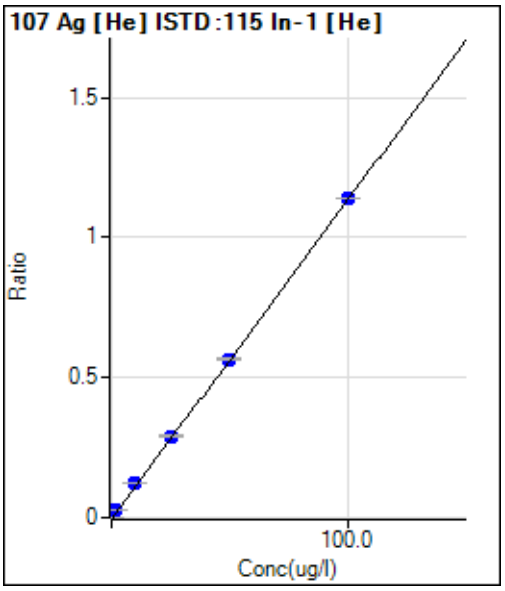
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5.56	0.0001	P	91.8	
2	☐	4.000	3.888	1424.52	0.0134	P	5.0	-2.8
3	☐	20.000	20.017	7357.46	0.0688	P	4.0	0.1
4	☐	50.000	49.763	17744.21	0.1708	P	2.3	-0.5
5	☐	100.000	98.842	35622.38	0.3393	P	0.5	-1.2
6	☐	200.000	200.639	71216.89	0.6887	P	1.6	0.3

y = 0.0034 * x + 5.2513E-005
R = 1.0000
DL = 0.04212 ug/l
BEC = 0.0153 ug/l

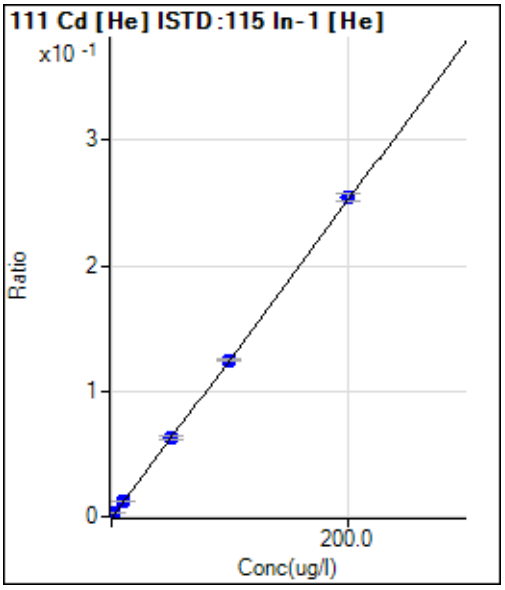
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	66.67	0.0006	P	13.1	
2	☐	2.000	2.126	2642.48	0.0248	P	3.6	6.3
3	☐	10.000	10.779	13204.99	0.1234	P	1.0	7.8
4	☐	25.000	25.317	30013.41	0.2890	P	2.0	1.3
5	☐	50.000	49.645	59432.82	0.5661	P	1.5	-0.7
6	☐	100.000	100.018	117860.38	1.1398	P	0.6	0.0

y = 0.0114 * x + 6.2929E-004
R = 1.0000
DL = 0.02171 ug/l
BEC = 0.05525 ug/l

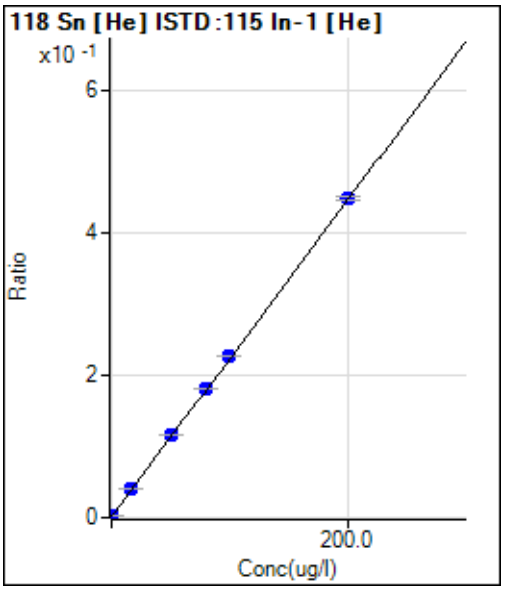
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	0.00	0.0000	P		
2	☐	2.000	2.015	271.11	0.0025	P	12.0	0.7
3	☐	10.000	9.829	1331.18	0.0124	P	3.5	-1.7
4	☐	50.000	49.585	6517.08	0.0628	P	5.7	-0.8
5	☐	100.000	98.152	13041.53	0.1242	P	1.1	-1.8
6	☐	200.000	201.036	26308.48	0.2544	P	2.6	0.5

y = 0.0013 * x + 0.0000E+000
R = 0.9999
DL = 0 ug/l
BEC = 0 ug/l

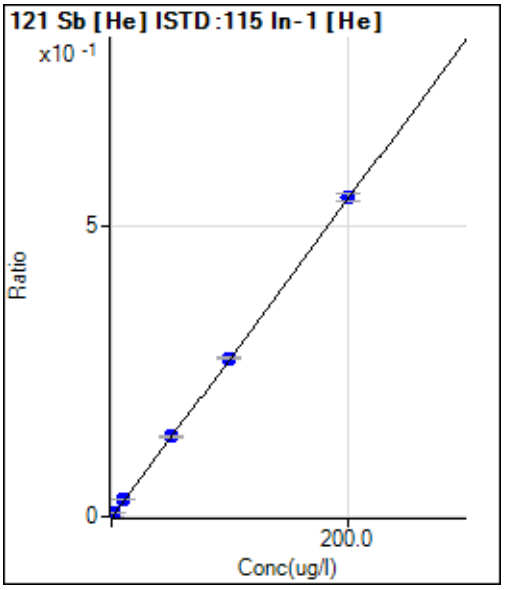
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	386.67	0.0037	P	3.7	
2	☐	16.000	16.199	4221.75	0.0397	P	0.6	1.2
3	☐	80.000	79.514	19327.53	0.1806	P	0.1	-0.6
4	☐	50.000	50.341	12016.20	0.1157	P	0.3	0.7
5	☐	100.000	100.129	23778.61	0.2265	P	0.3	0.1
6	☐	200.000	200.029	46409.37	0.4488	P	1.3	0.0

y = 0.0022 * x + 0.0037
R = 1.0000
DL = 0.1829 ug/l
BEC = 1.64 ug/l

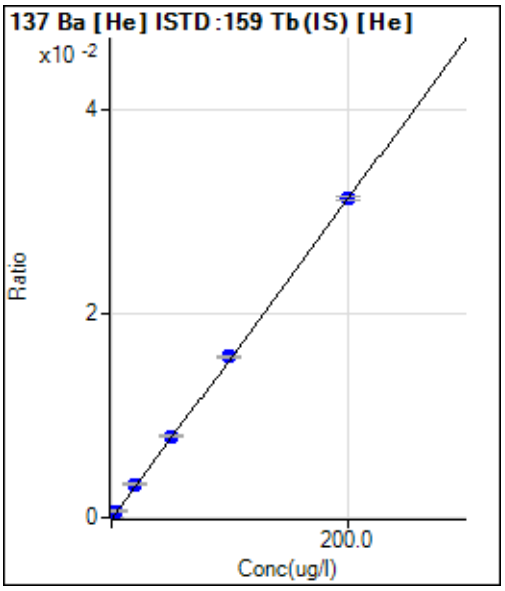
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43.33	0.0004	P	40.3	
2	☐	2.000	2.014	631.13	0.0059	P	8.8	0.7
3	☐	10.000	10.372	3088.13	0.0289	P	3.1	3.7
4	☐	50.000	50.078	14309.45	0.1378	P	1.2	0.2
5	☐	100.000	99.435	28675.45	0.2731	P	0.3	-0.6
6	☐	200.000	200.244	56831.60	0.5496	P	1.9	0.1

y = 0.0027 * x + 4.0935E-004
R = 1.0000
DL = 0.1804 ug/l
BEC = 0.1493 ug/l

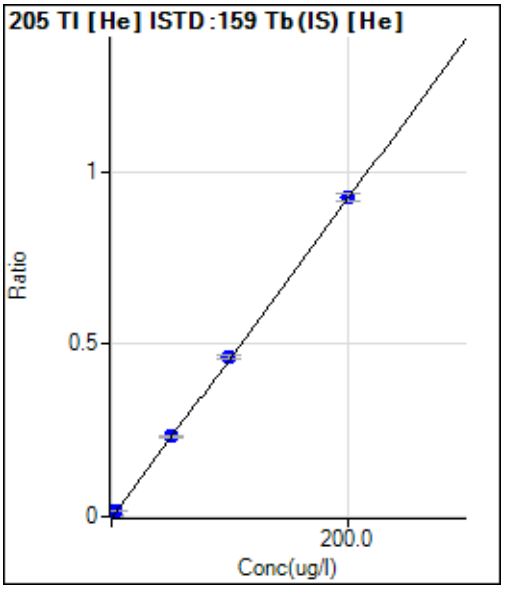
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	100.	
2	☐	4.000	4.120	375.56	0.0007	P	5.1	3.0
3	☐	20.000	20.665	1879.03	0.0033	P	3.2	3.3
4	☐	50.000	50.851	4498.52	0.0080	P	1.0	1.7
5	☐	100.000	100.510	8938.43	0.0158	P	1.4	0.5
6	☐	200.000	199.463	17693.35	0.0314	P	1.1	-0.3

y = 1.5721E-004 * x + 1.1752E-005
R = 1.0000
DL = 0.2243 ug/l
BEC = 0.07475 ug/l

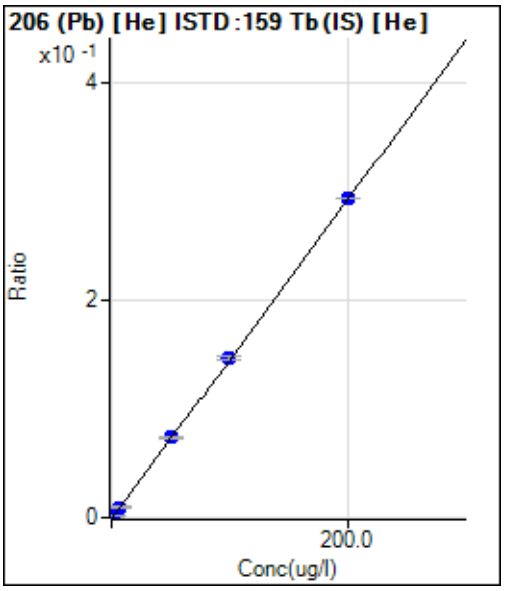
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	142.22	0.0002	P	17.2	
2	☐	0.800	0.784	2209.08	0.0039	P	5.7	-2.0
3	☐	4.000	4.048	10945.58	0.0190	P	2.3	1.2
4	☐	50.000	50.199	130736.36	0.2327	P	1.5	0.4
5	☐	100.000	100.154	262256.91	0.4639	P	1.9	0.2
6	☐	200.000	199.872	522072.80	0.9256	P	1.9	-0.1

y = 0.0046 * x + 2.4902E-004
R = 1.0000
DL = 0.02773 ug/l
BEC = 0.05378 ug/l

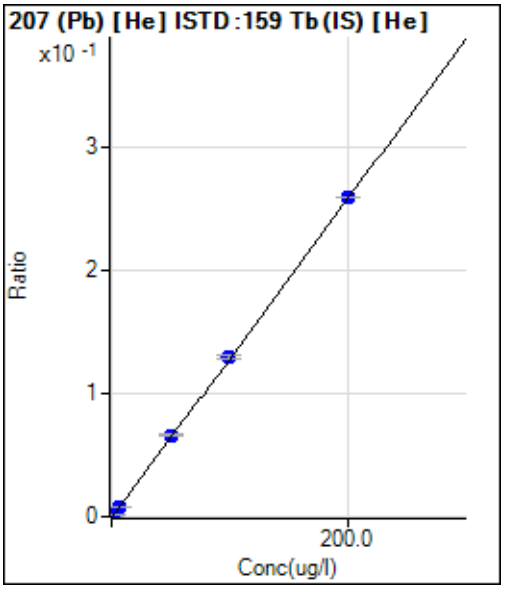
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	123.33	0.0002	P	7.6	
2	☐	1.200	1.294	1205.62	0.0021	P	4.9	7.9
3	☐	6.000	6.451	5585.63	0.0097	P	1.9	7.5
4	☐	50.000	50.177	41531.39	0.0739	P	1.3	0.4
5	☐	100.000	100.244	83348.30	0.1474	P	2.1	0.2
6	☐	200.000	199.820	165654.99	0.2937	P	0.4	-0.1

y = 0.0015 * x + 2.1611E-004
R = 1.0000
DL = 0.03365 ug/l
BEC = 0.1471 ug/l

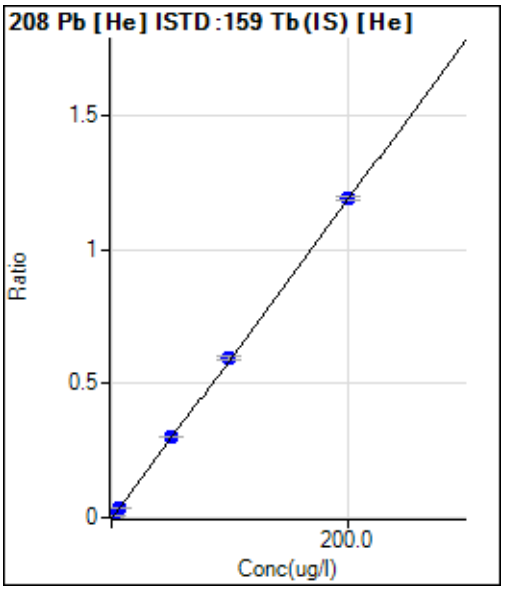
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	138.89	0.0002	P	19.1	
2	☐	1.200	1.284	1087.83	0.0019	P	6.0	7.0
3	☐	6.000	6.060	4674.17	0.0081	P	2.4	1.0
4	☐	50.000	50.830	37220.03	0.0662	P	1.7	1.7
5	☐	100.000	99.806	73385.58	0.1298	P	1.4	-0.2
6	☐	200.000	199.887	146512.74	0.2598	P	0.6	-0.1

y = 0.0013 * x + 2.4357E-004
R = 1.0000
DL = 0.1077 ug/l
BEC = 0.1876 ug/l

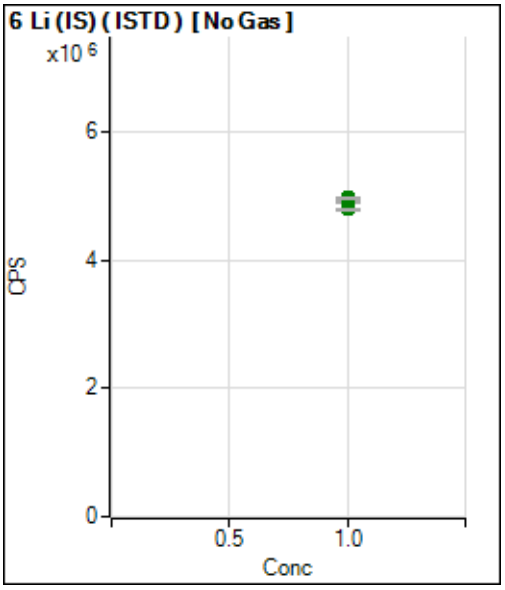
Weight: <None>
Min Conc: <None>



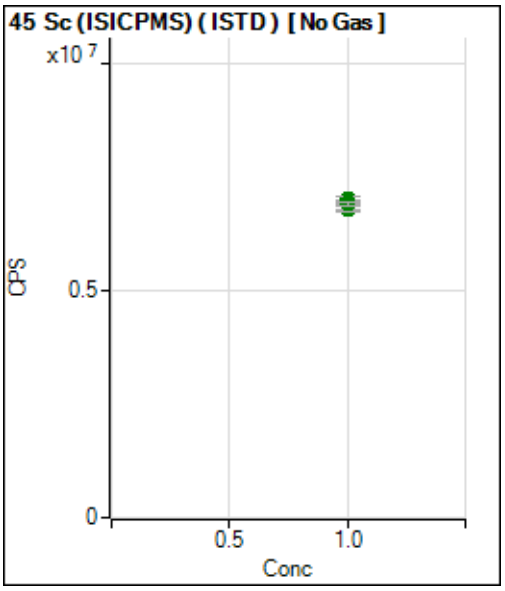
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	578.90	0.0010	P	3.7	
2	☐	1.200	1.249	4812.59	0.0085	P	0.5	4.0
3	☐	6.000	6.212	21912.64	0.0380	P	1.1	3.5
4	☐	50.000	50.325	169038.76	0.3008	P	1.3	0.6
5	☐	100.000	99.901	337010.64	0.5962	P	1.7	-0.1
6	☐	200.000	199.962	672490.44	1.1923	P	0.9	0.0

y = 0.0060 * x + 0.0010
R = 1.0000
DL = 0.01906 ug/l
BEC = 0.1702 ug/l

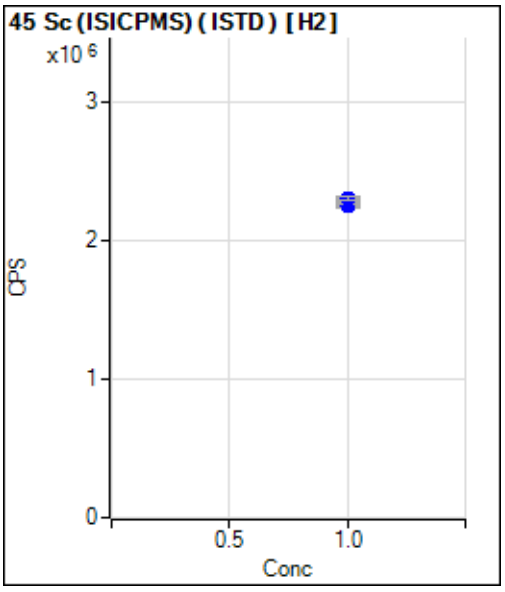
Weight: <None>
Min Conc: <None>



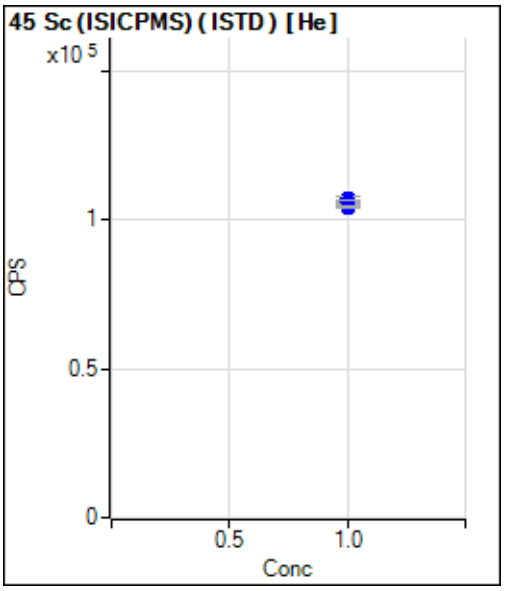
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4975872.91		A	0.2	
2	☐	1.000		4932546.59		A	0.6	
3	☐	1.000		4909110.79		A	0.4	
4	☐	1.000		4781132.67		A	0.1	
5	☐	1.000		4927068.02		A	0.4	
6	☐	1.000		4962105.45		A	0.8	



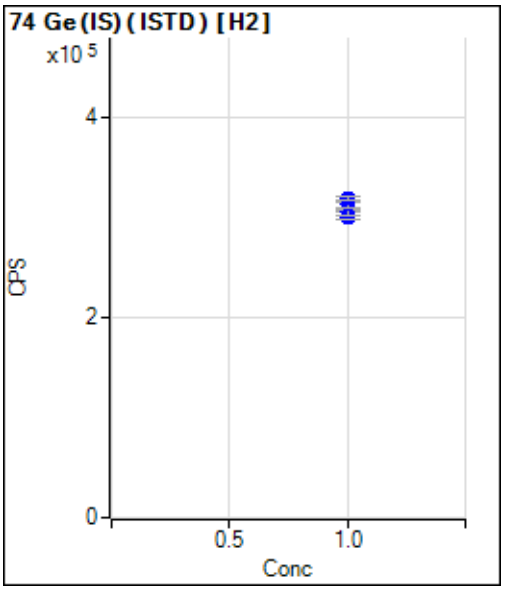
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		7035091.67		A	0.8	
2	☐	1.000		6995988.29		A	0.3	
3	☐	1.000		6996061.33		A	1.9	
4	☐	1.000		6773316.52		A	0.4	
5	☐	1.000		6932244.50		A	0.8	
6	☐	1.000		6913631.83		A	1.7	



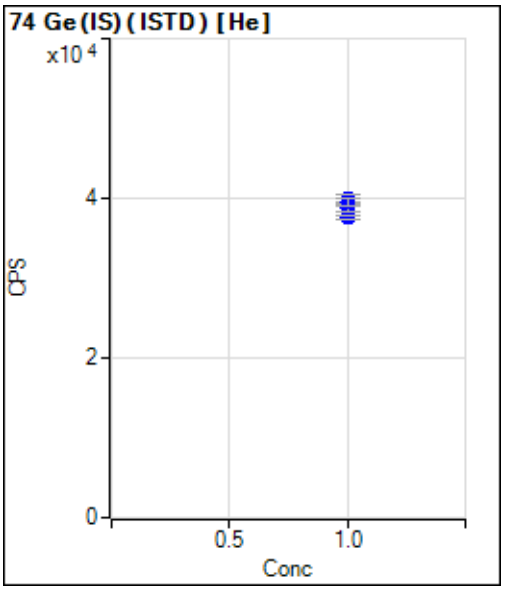
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2253742.42		P	1.3	
2	☐	1.000		2281818.63		P	0.5	
3	☐	1.000		2296312.07		P	0.7	
4	☐	1.000		2245817.29		P	1.0	
5	☐	1.000		2262326.82		P	0.7	
6	☐	1.000		2301093.58		P	0.9	



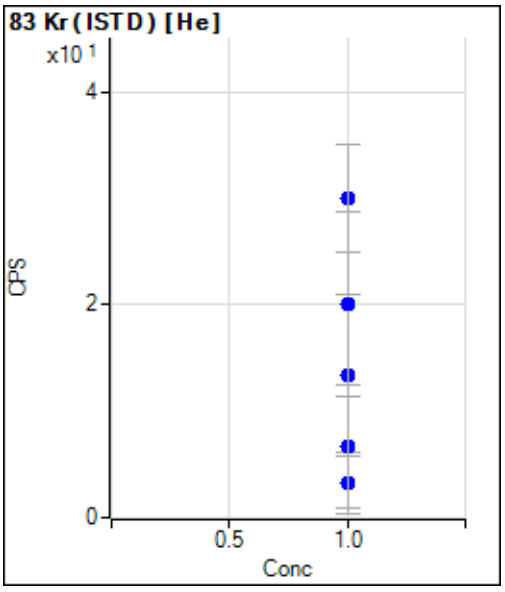
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		106059.24		P	0.7	
2	☐	1.000		106311.17		P	0.8	
3	☐	1.000		107287.08		P	0.7	
4	☐	1.000		104824.18		P	0.7	
5	☐	1.000		105713.83		P	1.3	
6	☐	1.000		104316.53		P	0.4	



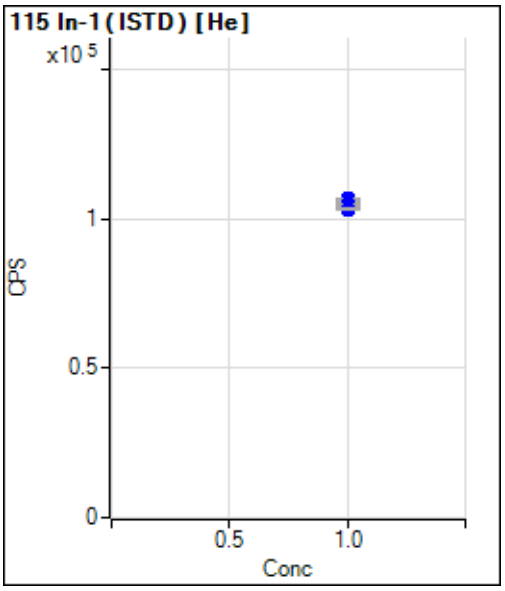
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		299454.67		P	1.5	
2	☐	1.000		299470.81		P	0.9	
3	☐	1.000		306233.06		P	0.8	
4	☐	1.000		304598.98		P	1.7	
5	☐	1.000		312142.43		P	1.4	
6	☐	1.000		318620.96		P	1.1	



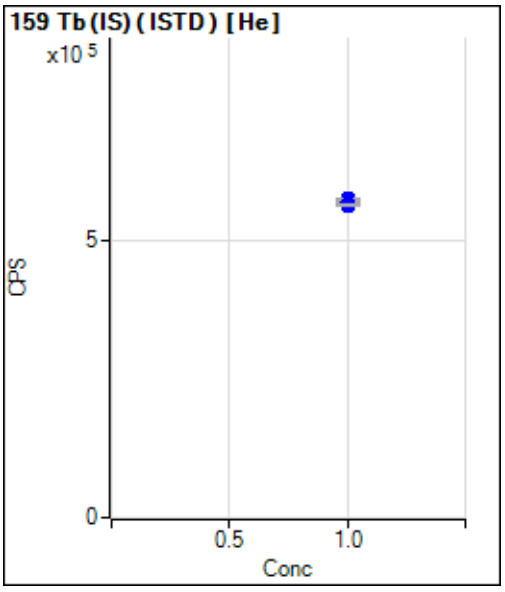
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		37672.53		P	1.4	
2	☐	1.000		38482.02		P	3.5	
3	☐	1.000		39378.65		P	1.0	
4	☐	1.000		38860.01		P	2.7	
5	☐	1.000		40061.26		P	2.0	
6	☐	1.000		39576.02		P	1.9	



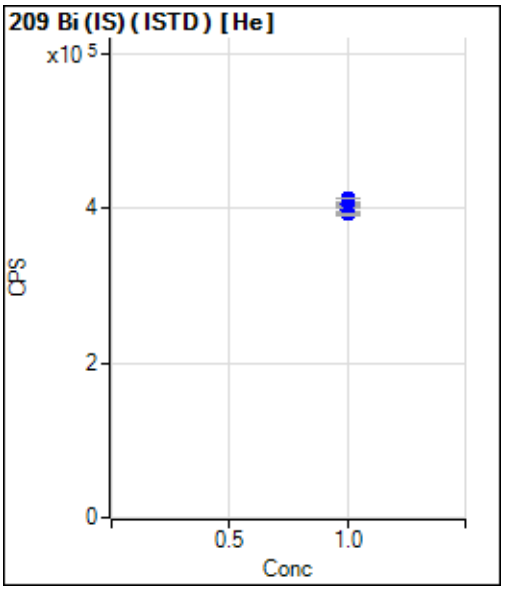
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		20.02		P	86.6	
2	☐	1.000		13.35		P	114.	
3	☐	1.000		3.34		P	173.	
4	☐	1.000		20.02		P	NaN	
5	☐	1.000		30.03		P	33.3	
6	☐	1.000		6.67		P	173.	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		105927.36		P	0.3	
2	☐	1.000		106340.97		P	0.4	
3	☐	1.000		107015.36		P	0.1	
4	☐	1.000		103871.67		P	0.9	
5	☐	1.000		104992.28		P	0.8	
6	☐	1.000		103407.50		P	0.4	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		570852.04		P	1.1	
2	☐	1.000		569348.13		P	0.7	
3	☐	1.000		576329.29		P	0.5	
4	☐	1.000		561900.99		P	0.1	
5	☐	1.000		565229.40		P	0.8	
6	☐	1.000		564031.05		P	0.8	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		405713.40		P	0.9	
2	☐	1.000		405498.37		P	1.0	
3	☐	1.000		412544.90		P	0.4	
4	☐	1.000		397316.65		P	1.3	
5	☐	1.000		393601.59		P	0.4	
6	☐	1.000		392093.13		P	0.4	

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins Edison Job Number: 460-258307-1

SDG Number:

Matrix: Solid Instrument ID: ICPMS3

Method: 6020B MDL Date: 03/10/2022 00:00

Prep Method: 3050B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Lead		0.6	0.2

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins Edison Job Number: 460-258307-1

SDG Number:

Matrix: Solid Instrument ID: ICPMS3

Method: 6020B XMDL Date: 03/10/2022 00:00

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Lead		6	2

11-IN
LINEAR RANGES
METALS

Lab Name: Eurofins Edison Job No: 460-258307-1

SDG No.:

Instrument ID: ICPMS3 Date: 07/09/2020 16:08

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Lead		20000	6020B

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 460-845917/1-A	05/21/2022 22:30	845917	1.00		100
LCSSRM 460-845917/2-A ^5	05/21/2022 22:30	845917	1.08		100
460-258333-D-2-F DU	05/21/2022 22:30	845917	1.26		100
460-258333-D-2-G MS	05/21/2022 22:30	845917	1.22		100
460-258307-9	05/21/2022 22:30	845917	1.36		100
460-258307-10	05/21/2022 22:30	845917	1.21		100

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Instrument ID: ICPMS3 Method: 6020B

Start Date: 05/22/2022 13:01 End Date: 05/22/2022 21:34

Lab Sample ID	D / F	Type	Time	Analytes																			
				Pb																			
IC 460-846020/1	1		13:01	X																			
IC 460-846020/2	1		13:03	X																			
IC 460-846020/3	1		13:06	X																			
IC 460-846020/4	1		13:08	X																			
IC 460-846020/5	1		13:10	X																			
IC 460-846020/6	1		13:13	X																			
ICV 460-846020/7	1		13:15	X																			
ICB 460-846020/8	1		13:17	X																			
CRI 460-846020/9			13:19																				
ICSA 460-846020/10	1		13:22	X																			
ICSAB 460-846020/11	1		13:24	X																			
LRC 460-846020/12	1		13:26	X																			
LRC 460-846020/13	1		13:29	X																			
CCV 460-846020/14	1		13:39	X																			
CCB 460-846020/15	1		13:41	X																			
ZZZZZZ			13:48																				
ZZZZZZ			13:51																				
ZZZZZZ			13:53																				
ZZZZZZ			13:55																				
ZZZZZZ			13:57																				
ZZZZZZ			14:00																				
ZZZZZZ			14:02																				
CCV 460-846020/23			14:04																				
CCB 460-846020/24			14:07																				
ZZZZZZ			14:09																				
ZZZZZZ			14:11																				
ZZZZZZ			14:14																				
ZZZZZZ			14:16																				
ZZZZZZ			14:18																				
ZZZZZZ			14:21																				
ZZZZZZ			14:23																				
ZZZZZZ			14:25																				
ZZZZZZ			14:28																				
ZZZZZZ			14:30																				
CCV 460-846020/35			14:32																				
CCB 460-846020/36			14:35																				
ZZZZZZ			14:37																				
ZZZZZZ			14:39																				
ZZZZZZ			14:41																				
ZZZZZZ			14:44																				
ZZZZZZ			14:46																				
ZZZZZZ			14:48																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Instrument ID: ICPMS3 Method: 6020B

Start Date: 05/22/2022 13:01 End Date: 05/22/2022 21:34

Lab Sample ID	D / F	Type	Time	Analytes																			
				Pb																			
ZZZZZZ			14:51																				
ZZZZZZ			14:53																				
ZZZZZZ			14:55																				
ZZZZZZ			14:58																				
CCV 460-846020/47			15:00																				
CCB 460-846020/48			15:02																				
ZZZZZZ			15:05																				
ZZZZZZ			15:07																				
ZZZZZZ			15:09																				
ZZZZZZ			15:11																				
ZZZZZZ			15:14																				
ZZZZZZ			15:16																				
ZZZZZZ			15:18																				
ZZZZZZ			15:21																				
CCV 460-846020/57			15:23																				
CCB 460-846020/58			15:25																				
ZZZZZZ			15:28																				
ZZZZZZ			15:30																				
ZZZZZZ			15:32																				
ZZZZZZ			15:35																				
ZZZZZZ			15:37																				
ZZZZZZ			15:39																				
ZZZZZZ			15:42																				
ZZZZZZ			15:44																				
ZZZZZZ			15:46																				
ZZZZZZ			15:48																				
CCV 460-846020/69			15:51																				
CCB 460-846020/70			15:53																				
ZZZZZZ			15:55																				
ZZZZZZ			15:58																				
ZZZZZZ			16:00																				
ZZZZZZ			16:02																				
ZZZZZZ			16:05																				
ZZZZZZ			16:07																				
ZZZZZZ			16:09																				
ZZZZZZ			16:12																				
ZZZZZZ			16:14																				
ZZZZZZ			16:22																				
CCV 460-846020/81	1		16:24	X																			
CCB 460-846020/82	1		16:27	X																			
MB 460-845917/1-A	1	T	16:29	X																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Instrument ID: ICPMS3 Method: 6020B

Start Date: 05/22/2022 13:01 End Date: 05/22/2022 21:34

Lab Sample ID	D/F	Type	Time	Analytes																			
				Pb																			
LCSSRM 460-845917/2-A ^5	5	T	16:31	X																			
460-258333-D-2-E PDS	1	T	16:34	X																			
460-258333-D-2-G MS	1	T	16:36	X																			
460-258333-D-2-F DU	1	T	16:38	X																			
ZZZZZZ			16:41																				
460-258333-D-2-E SD ^5	5	T	16:43	X																			
ZZZZZZ			16:45																				
ZZZZZZ			16:48																				
460-258307-9	1	T	16:50	X																			
CCV 460-846020/93	1		16:52	X																			
CCB 460-846020/94	1		16:54	X																			
460-258307-10	1	T	16:57	X																			
ZZZZZZ			16:59																				
ZZZZZZ			17:01																				
ZZZZZZ			17:04																				
ZZZZZZ			17:06																				
ZZZZZZ			17:08																				
ZZZZZZ			17:11																				
ZZZZZZ			17:13																				
ZZZZZZ			17:15																				
ZZZZZZ			17:18																				
CCV 460-846020/105	1		17:20	X																			
CCB 460-846020/106	1		17:22	X																			
ZZZZZZ			17:25																				
ZZZZZZ			17:27																				
ZZZZZZ			17:29																				
ZZZZZZ			17:32																				
ZZZZZZ			17:34																				
ZZZZZZ			17:36																				
CCV 460-846020/113			17:39																				
CCB 460-846020/114			17:41																				
ZZZZZZ			17:43																				
ZZZZZZ			17:46																				
ZZZZZZ			17:48																				
ZZZZZZ			17:50																				
ZZZZZZ			17:53																				
ZZZZZZ			17:55																				
ZZZZZZ			17:57																				
ZZZZZZ			17:59																				
ZZZZZZ			18:02																				
ZZZZZZ			18:04																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Instrument ID: ICPMS3 Method: 6020B

Start Date: 05/22/2022 13:01 End Date: 05/22/2022 21:34

Lab Sample ID	D / F	Type	Time	Analytes																			
				Pb																			
CCV 460-846020/125			18:06																				
CCB 460-846020/126			18:09																				
ZZZZZZ			18:11																				
ZZZZZZ			18:13																				
ZZZZZZ			18:16																				
ZZZZZZ			18:18																				
ZZZZZZ			18:20																				
ZZZZZZ			18:23																				
ZZZZZZ			18:25																				
ZZZZZZ			18:27																				
ZZZZZZ			18:29																				
ZZZZZZ			18:32																				
CCV 460-846020/137			18:34																				
CCB 460-846020/138			18:36																				
ZZZZZZ			18:39																				
ZZZZZZ			18:41																				
ZZZZZZ			18:43																				
ZZZZZZ			18:46																				
ZZZZZZ			18:48																				
ZZZZZZ			18:50																				
ZZZZZZ			18:53																				
ZZZZZZ			18:55																				
ZZZZZZ			18:57																				
CCV 460-846020/148			19:00																				
CCB 460-846020/149			19:02																				
ZZZZZZ			19:04																				
ZZZZZZ			19:07																				
ZZZZZZ			19:09																				
ZZZZZZ			19:11																				
ZZZZZZ			19:13																				
ZZZZZZ			19:16																				
ZZZZZZ			19:18																				
ZZZZZZ			19:20																				
ZZZZZZ			19:23																				
ZZZZZZ			19:25																				
CCV 460-846020/160			19:27																				
CCB 460-846020/161			19:30																				
ZZZZZZ			19:32																				
ZZZZZZ			19:34																				
ZZZZZZ			19:37																				
ZZZZZZ			19:39																				
ZZZZZZ			19:41																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Instrument ID: ICPMS3 Method: 6020B

Start Date: 05/22/2022 13:01 End Date: 05/22/2022 21:34

Lab Sample ID	D / F	Type	Time	Analytes																			
				Pb																			
ZZZZZZ			19:43																				
ZZZZZZ			19:46																				
ZZZZZZ			19:48																				
ZZZZZZ			19:50																				
ZZZZZZ			19:53																				
CCV 460-846020/172			19:55																				
CCB 460-846020/173			19:57																				
ZZZZZZ			20:00																				
ZZZZZZ			20:02																				
ZZZZZZ			20:04																				
ZZZZZZ			20:07																				
ZZZZZZ			20:09																				
ZZZZZZ			20:11																				
ZZZZZZ			20:13																				
CCV 460-846020/181			20:16																				
CCB 460-846020/182			20:18																				
ZZZZZZ			20:20																				
ZZZZZZ			20:23																				
ZZZZZZ			20:25																				
ZZZZZZ			20:27																				
ZZZZZZ			20:30																				
ZZZZZZ			20:32																				
ZZZZZZ			20:34																				
ZZZZZZ			20:37																				
ZZZZZZ			20:39																				
ZZZZZZ			20:41																				
CCV 460-846020/193			20:43																				
CCB 460-846020/194			20:46																				
ZZZZZZ			20:48																				
ZZZZZZ			20:50																				
ZZZZZZ			20:53																				
ZZZZZZ			20:55																				
ZZZZZZ			20:57																				
ZZZZZZ			21:00																				
ZZZZZZ			21:02																				
ZZZZZZ			21:04																				
ZZZZZZ			21:06																				
ZZZZZZ			21:09																				
CCV 460-846020/205			21:11																				
CCB 460-846020/206			21:13																				
ZZZZZZ			21:16																				
ZZZZZZ			21:18																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Instrument ID: ICPMS3 Method: 6020B

Start Date: 05/22/2022 13:01 End Date: 05/22/2022 21:34

Lab Sample ID	D / F	Type	Time	Analytes																			
				Pb																			
ZZZZZZ			21:20																				
ZZZZZZ			21:23																				
ZZZZZZ			21:25																				
ZZZZZZ			21:27																				
ZZZZZZ			21:29																				
CCV 460-846020/214			21:32																				
CCB 460-846020/215			21:34																				

Prep Types

T = Total/NA

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.: Analysis Batch No.: 846020

ICP-MS Instrument ID: ICPMS3 Start Date: 05/22/2022 End Date: 05/22/2022

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc/1	Q	Element Sc/2	Q	Element Sc/3	Q	Element Ge/2	Q
IC 460-846020/1	13:01	100		100		100		100		100	
IC 460-846020/2	13:03	99		99		101		100		100	
IC 460-846020/3	13:06	99		99		102		101		102	
IC 460-846020/4	13:08	96		96		100		99		102	
IC 460-846020/5	13:10	99		99		100		100		104	
IC 460-846020/6	13:13	100		98		102		98		106	
ICV 460-846020/7	13:15	99		97		99		98		102	
ICB 460-846020/8	13:17	98		96		98		98		99	
ICSA 460-846020/10	13:22	96		96		99		99		105	
ICSAB 460-846020/11	13:24	97		95		98		98		103	
LRC 460-846020/12	13:26	96		93		91		87		97	
LRC 460-846020/13	13:29	79		86		92		89		93	
CCV 460-846020/14	13:39	99		93		95		94		98	
CCB 460-846020/15	13:41	93		90		93		92		94	
CCV 460-846020/81	16:24	98		104		99		93		100	
CCB 460-846020/82	16:27	91		98		95		90		95	
MB 460-845917/1-A	16:29	80		91		89		85		91	
LCSSRM 460-845917/2-A ^5	16:31	82		94		92		91		95	
460-258333-D-2-E PDS	16:34	83		94		94		90		94	
460-258333-D-2-G MS	16:36	84		94		92		85		91	
460-258333-D-2-F DU	16:38	85		93		91		83		90	
460-258333-D-2-E SD ^5	16:43	78		83		82		77		84	
460-258307-9	16:50	97		101		98		94		99	
CCV 460-846020/93	16:52	86		94		89		85		92	
CCB 460-846020/94	16:54	80		90		87		83		89	
460-258307-10	16:57	75		85		84		79		85	
CCV 460-846020/105	17:20	78		87		84		80		88	
CCB 460-846020/106	17:22	76		84		81		77		84	

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.: Analysis Batch No.: 846020

ICP-MS Instrument ID: ICPMS3 Start Date: 05/22/2022 End Date: 05/22/2022

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Ge/3	Q	Element In	Q	Element Tb	Q	Element Bi	Q	Element	Q
IC 460-846020/1	13:01	100		100		100		100			
IC 460-846020/2	13:03	102		100		100		100			
IC 460-846020/3	13:06	105		101		101		102			
IC 460-846020/4	13:08	103		98		98		98			
IC 460-846020/5	13:10	106		99		99		97			
IC 460-846020/6	13:13	105		98		99		97			
ICV 460-846020/7	13:15	103		98		99		98			
ICB 460-846020/8	13:17	102		99		98		99			
ICSA 460-846020/10	13:22	107		97		99		95			
ICSAB 460-846020/11	13:24	105		96		98		94			
LRC 460-846020/12	13:26	94		92		95		98			
LRC 460-846020/13	13:29	94		88		91		85			
CCV 460-846020/14	13:39	98		95		97		96			
CCB 460-846020/15	13:41	93		94		96		98			
CCV 460-846020/81	16:24	98		92		94		92			
CCB 460-846020/82	16:27	94		90		92		93			
MB 460-845917/1-A	16:29	90		86		87		88			
LCSSRM 460-845917/2-A ^5	16:31	97		89		91		91			
460-258333-D-2-E PDS	16:34	91		86		93		89			
460-258333-D-2-G MS	16:36	89		82		88		85			
460-258333-D-2-F DU	16:38	88		83		88		85			
460-258333-D-2-E SD ^5	16:43	83		78		81		82			
460-258307-9	16:50	99		89		94		91			
CCV 460-846020/93	16:52	92		85		86		86			
CCB 460-846020/94	16:54	88		83		84		86			
460-258307-10	16:57	85		77		84		81			
CCV 460-846020/105	17:20	88		81		84		84			
CCB 460-846020/106	17:22	83		79		80		82			

METALS BATCH WORKSHEET

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Batch Number: 845917 Batch Start Date: 05/21/22 22:30 Batch Analyst: Esteban, Gared A

Batch Method: 3050B Batch End Date: 05/22/22 03:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ME_ipmsSPK 00045	ME_LCSS_113 00001		
MB 460-845917/1		3050B, 6020B		1.00 g	100 mL				
LCSSRM 460-845917/2		3050B, 6020B		1.08 g	100 mL		1.08 g		
460-258333-D-2 DU		3050B, 6020B	T	1.26 g	100 mL				
460-258333-D-2 MS		3050B, 6020B	T	1.22 g	100 mL	1 mL			
460-258307-A-9	DRA3-SB06R-1.5-2.0	3050B, 6020B	T	1.36 g	100 mL				
460-258307-A-10	DRA3-SB09-0.0-0.5	3050B, 6020B	T	1.21 g	100 mL				

Batch Notes	
Balance ID	#35
Digestion Tube/Cup ID	J502014-4932 (SCP 50mL.tube)
Pipette/Syringe/Dispenser ID	#22
Analyst ID - Spike Analyst	GE
Hydrochloric Acid ID	0000275677
Nitric Acid ID	0000261535
Hydrogen Peroxide ID	0000262345
Digestion Unit ID	#8
Thermometer ID	Metals-7 (cf +2)
Filter ID	09-790F
Temperature - Uncorrected - Start	88 Uncorr Degrees C
Temperature - Corrected - Start	90 Corr Degrees C
Temperature - Uncorrected - End	88 Uncorr Degrees C
Temperature - Corrected - End	90 Corr Degrees C
Digestion Start Time	05/21/2022 22:30
Digestion End Time	05/22/2022 00:30

Basis	Basis Description
T	Total/NA

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

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Edison Job Number: 460-258307-1

SDG No.:

Project: PES Refinery

Client Sample ID	Lab Sample ID
DRA2-SB15-0.5-1.0	460-258307-1
DRA2-SB16-0.5-1.0	460-258307-2
DRA2-SB17-0.0-0.5	460-258307-3
DRA2-SB18-0.0-0.5	460-258307-4
DRA2-SB19-0.0-0.5	460-258307-5
DRA2-SB20-0.5-1.0	460-258307-6
DRA2-SB21-1.5-2.0	460-258307-7
DRA2-SB22-0.0-0.5	460-258307-8

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Edison Job Number: 460-258307-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 02/15/2007 17:07

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		1	
Percent Solids		1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Edison Job Number: 460-258307-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 01/01/2007 16:49

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		1	
Percent Solids		1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 05/20/2022 22:20 End Date: 05/20/2022 22:22

Lab Sample ID	D/F	Type	Time	Analytes																			
				%Sol	Moist																		
ZZZZZZ			22:20																				
460-258307-1	1	T	22:20	X	X																		
460-258307-2	1	T	22:20	X	X																		
460-258307-3	1	T	22:20	X	X																		
460-258307-4	1	T	22:20	X	X																		
460-258307-5	1	T	22:20	X	X																		
460-258307-6	1	T	22:20	X	X																		
460-258307-7	1	T	22:20	X	X																		
460-258307-8	1	T	22:20	X	X																		
ZZZZZZ			22:20																				
ZZZZZZ			22:20																				
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ZZZZZZ			22:20																				
ZZZZZZ			22:20																				
460-258485-D-7 DU	1	T	22:20	X	X																		
ZZZZZZ			22:20																				
ZZZZZZ			22:20																				
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 05/20/2022 22:20 End Date: 05/20/2022 22:22

Lab Sample ID	D / F	Type	Time	Analytes																			
				% Sol	Moist																		
ZZZZZZ			22:20																				
ZZZZZZ			22:22																				

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Edison Job No.: 460-258307-1

SDG No.:

Batch Number: 845801 Batch Start Date: 05/20/22 22:20 Batch Analyst: Cho, Claudia J

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry	%_Moisture	%_Solid
460-258307-A-1	DRA2-SB15-0.5-1.0	Moisture	T		5.39 g	28.90 g	24.90 g	17.0140365801786 %	82.9859634198214 %
460-258307-A-2	DRA2-SB16-0.5-1.0	Moisture	T		5.39 g	34.49 g	29.00 g	18.8659793814433 %	81.1340206185567 %
460-258307-A-3	DRA2-SB17-0.0-0.5	Moisture	T		5.39 g	35.62 g	30.43 g	17.1683757856434 %	82.8316242143566 %
460-258307-A-4	DRA2-SB18-0.0-0.5	Moisture	T		5.39 g	36.99 g	31.84 g	16.2974683544304 %	83.7025316455696 %
460-258307-A-5	DRA2-SB19-0.0-0.5	Moisture	T		5.39 g	33.30 g	28.45 g	17.3772841275528 %	82.6227158724472 %
460-258307-A-6	DRA2-SB20-0.5-1.0	Moisture	T		5.39 g	34.69 g	29.74 g	16.8941979522184 %	83.1058020477816 %
460-258307-A-7	DRA2-SB21-1.5-2.0	Moisture	T		5.39 g	34.92 g	29.50 g	18.3542160514731 %	81.6457839485269 %
460-258307-A-8	DRA2-SB22-0.0-0.5	Moisture	T		5.39 g	35.24 g	29.76 g	18.3584589614748 %	81.6415410385252 %
460-258485-D-7 DU		Moisture	T	14	28.21 g	33.47 g	33.01 g	8.74524714828917 %	91.2547528517117 %

Batch Notes	
Balance ID	106
Oven ID	3
Thermometer ID	W25364
Date samples were placed in the oven	05/20/2022
Time samples were place in the oven	22:37
Temperature - Start - Uncorrected	108 Degrees C
Oven Temp In	108 Degrees C
Temperature - End - Uncorrected	108 Degrees C
Oven Temp Out	108 Degrees C
Batch Comment	oven

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

Chain of Custody Record

624790

South Jersey Service Center
372

eurofins | Environment Testing America

TAL-8210

Address: _____

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

Client Contact	Project Manager: William Schmidt	Site Contact:	Date:	COC No:
Company Name: Ransom Consulting, LLC	Tel/Email: william.schmidt@ransomenv.com	Lab Contact:	Carrier:	1 of 1 COCs
Address: 2127 Hamilton Avenue	Analysis Turnaround Time: ☐ CALENDAR DAYS ☑ WORKING DAYS			Sampler: Todd Reichert
City/State/Zip: Hamilton, NJ	TAT if different from Below: ☐ 2 weeks ☑ 1 week ☐ 2 days ☐ 1 day			For Lab Use Only: Walk-in Client: Lab Sampling:
Phone: 609.584.0090				Job / SDG No.:
Fax: 609.584.1190				
Project Name: PES				
Site: Philadelphia, PA				
P O #				256307

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Benzene	Lead	Sample Specific Notes:
DRA2-SB15-0.5-1.0	5.17.22	12:38	G	S	4			✓		1
DRA2-SB16-0.5-1.0		12:43			4			✓		2
DRA2-SB17-0.0-0.5		12:50			4			✓		3
DRA2-SB18-0.0-0.5		12:56			4			✓		4
DRA2-SB19-0.0-0.5		13:18			4			✓		5
DRA2-SB20-0.5-1.0		13:23			4			✓		6
DRA2-SB21-0.0-0.5		13:30			4			✓		7
DRA2-SB22-0.0-0.5		13:35			4			✓		8
DRA3-SB06R-1.5-2.0		11:05			1				✓	9
DRA3-SB09-0.0-0.5		11:15			1				✓	10
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____								1	1	

SHORT HOLD

460-258307 Chain of Custody

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

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

Sample Disposal (A fee may be assessed if sampl

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 4.5 Corr'd: 4.7 Therm ID No.: 9

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Ransom Consulting, LLC			ETA	5/17/22 1445
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	ETA	5/17/22			5/17/22 1830
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
		5/17/22			5/17/22 1930

4.7/4.8 c#10

Page 499 of 501

10/10/2023 12:43 PM

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 256307

Number of Coolers: 1 IR Gun # 10

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	4.7 °C	4.8 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

*Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

Initials: CH Date: 5/17/22

Login Sample Receipt Checklist

Client: Ransom Consulting LLC

Job Number: 460-258307-1

Login Number: 258307
List Number: 1
Creator: Narinkhum, Nudjarin 1

List Source: Eurofins Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Lab Number:	L2207568
Client:	Ransom/Hilco 99 Summer St. Suite 1110 Boston, MA 02110
ATTN:	Joe Jeray
Phone:	(978) 729-3209
Project Name:	PHILADELPHIA REFINERY DIKE RO
Project Number:	200.00135.006
Report Date:	10/11/23

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: PHILADELPHIA REFINERY DIKE RO
Project Number: 200.00135.006

Lab Number: L2207568
Report Date: 10/11/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2207568-01	DRA2-SB03R-0.5-1.0	SOIL	PHILADELPHIA, PA	02/11/22 13:00	02/11/22
L2207568-02	DRA2-SB03R-2.0-2.5	SOIL	PHILADELPHIA, PA	02/11/22 13:05	02/11/22
L2207568-03	DRA2-SB04R-1.5-2.0	SOIL	PHILADELPHIA, PA	02/11/22 13:10	02/11/22
L2207568-04	DRA2-SB04R-2.5-3.0	SOIL	PHILADELPHIA, PA	02/11/22 13:15	02/11/22
L2207568-05	DRA2-SB07R-0.5-1.0	SOIL	PHILADELPHIA, PA	02/11/22 13:20	02/11/22
L2207568-06	DRA2-SB07R-2.0-2.5	SOIL	PHILADELPHIA, PA	02/11/22 13:25	02/11/22
L2207568-07	DRA2-SB09-0.5-1.0	SOIL	PHILADELPHIA, PA	02/11/22 13:30	02/11/22
L2207568-08	DRA2-SB10-0.5-1.0	SOIL	PHILADELPHIA, PA	02/11/22 13:35	02/11/22
L2207568-09	DRA2-SB11-1.0-1.5	SOIL	PHILADELPHIA, PA	02/11/22 13:40	02/11/22
L2207568-10	DRA2-SB12-0.5-1.0	SOIL	PHILADELPHIA, PA	02/11/22 13:45	02/11/22
L2207568-11	DRA2-SB13-1.0-1.5	SOIL	PHILADELPHIA, PA	02/11/22 13:55	02/11/22
L2207568-12	DRA2-SB14-0.5-1.0	SOIL	PHILADELPHIA, PA	02/11/22 14:00	02/11/22
L2207568-13	DRA2-SB15-1.5-2.0	SOIL	PHILADELPHIA, PA	02/11/22 14:05	02/11/22
L2207568-14	DRA2-SB16-0.5-1.0	SOIL	PHILADELPHIA, PA	02/11/22 14:15	02/11/22

Project Name:	PHILADELPHIA REFINERY DIKE RO	**Lab Number:**	L2207568
Project Number:	200.00135.006	**Report Date:**	10/11/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	PHILADELPHIA REFINERY DIKE RO	**Lab Number:**	L2207568
Project Number:	200.00135.006	**Report Date:**	10/11/23

Case Narrative (continued)

Report Revision

October 11, 2023: At the client's request, the Volatile Organics reporting list has been amended.

January 04, 2023: The Volatile Organics reporting list has been expanded.

Report Submission

February 22, 2022: This final report includes the results of all requested analyses.

February 17, 2022: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 10/11/23

ORGANICS

VOLATILES

Project Name: PHILADELPHIA REFINERY DIKE RO **Lab Number:** L2207568

Project Number: 200.00135.006 **Report Date:** 10/11/23

SAMPLE RESULTS

Lab ID: L2207568-01
Client ID: DRA2-SB03R-0.5-1.0
Sample Location: PHILADELPHIA, PA

Date Collected: 02/11/22 13:00
Date Received: 02/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/16/22 00:47
Analyst: KJD
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.00019	J	mg/kg	0.00050	0.00016	1
Toluene	ND		mg/kg	0.0010	0.00054	1
Ethylbenzene	ND		mg/kg	0.0010	0.00014	1
p/m-Xylene	ND		mg/kg	0.0020	0.00056	1
o-Xylene	ND		mg/kg	0.0010	0.00029	1
Xylenes, Total	ND		mg/kg	0.0010	0.00029	1
Isopropylbenzene	ND		mg/kg	0.0010	0.00011	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0020	0.00019	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0020	0.00033	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	100		70-130

Project Name: PHILADELPHIA REFINERY DIKE RO **Lab Number:** L2207568

Project Number: 200.00135.006 **Report Date:** 10/11/23

SAMPLE RESULTS

Lab ID: L2207568-02
Client ID: DRA2-SB03R-2.0-2.5
Sample Location: PHILADELPHIA, PA

Date Collected: 02/11/22 13:05
Date Received: 02/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/16/22 01:12
Analyst: KJD
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	ND		mg/kg	0.00054	0.00018	1
Toluene	ND		mg/kg	0.0011	0.00058	1
Ethylbenzene	ND		mg/kg	0.0011	0.00015	1
p/m-Xylene	ND		mg/kg	0.0021	0.00060	1
o-Xylene	ND		mg/kg	0.0011	0.00031	1
Xylenes, Total	ND		mg/kg	0.0011	0.00031	1
Isopropylbenzene	ND		mg/kg	0.0011	0.00012	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0021	0.00021	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0021	0.00036	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	99		70-130

Project Name: PHILADELPHIA REFINERY DIKE RO
Lab Number: L2207568
Project Number: 200.00135.006
Report Date: 10/11/23

SAMPLE RESULTS

Lab ID: L2207568-03
Client ID: DRA2-SB04R-1.5-2.0
Sample Location: PHILADELPHIA, PA

Date Collected: 02/11/22 13:10
Date Received: 02/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/16/22 01:38
Analyst: KJD
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	ND		mg/kg	0.00044	0.00015	1
Toluene	ND		mg/kg	0.00089	0.00048	1
Ethylbenzene	ND		mg/kg	0.00089	0.00012	1
p/m-Xylene	ND		mg/kg	0.0018	0.00050	1
o-Xylene	ND		mg/kg	0.00089	0.00026	1
Xylenes, Total	ND		mg/kg	0.00089	0.00026	1
Isopropylbenzene	ND		mg/kg	0.00089	0.00009	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0018	0.00017	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0018	0.00030	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	99		70-130

Project Name: PHILADELPHIA REFINERY DIKE RO **Lab Number:** L2207568

Project Number: 200.00135.006 **Report Date:** 10/11/23

SAMPLE RESULTS

Lab ID: L2207568-04
Client ID: DRA2-SB04R-2.5-3.0
Sample Location: PHILADELPHIA, PA

Date Collected: 02/11/22 13:15
Date Received: 02/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/16/22 02:04
Analyst: KJD
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	ND		mg/kg	0.00054	0.00018	1
Toluene	ND		mg/kg	0.0011	0.00058	1
Ethylbenzene	ND		mg/kg	0.0011	0.00015	1
p/m-Xylene	ND		mg/kg	0.0021	0.00060	1
o-Xylene	ND		mg/kg	0.0011	0.00031	1
Xylenes, Total	ND		mg/kg	0.0011	0.00031	1
Isopropylbenzene	ND		mg/kg	0.0011	0.00012	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0021	0.00021	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0021	0.00036	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	107		70-130

Project Name: PHILADELPHIA REFINERY DIKE RO **Lab Number:** L2207568

Project Number: 200.00135.006 **Report Date:** 10/11/23

SAMPLE RESULTS

Lab ID: L2207568-05
Client ID: DRA2-SB07R-0.5-1.0
Sample Location: PHILADELPHIA, PA

Date Collected: 02/11/22 13:20
Date Received: 02/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/16/22 02:30
Analyst: KJD
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.00078		mg/kg	0.00053	0.00017	1
Toluene	ND		mg/kg	0.0010	0.00057	1
Ethylbenzene	ND		mg/kg	0.0010	0.00015	1
p/m-Xylene	ND		mg/kg	0.0021	0.00059	1
o-Xylene	ND		mg/kg	0.0010	0.00031	1
Xylenes, Total	ND		mg/kg	0.0010	0.00031	1
Isopropylbenzene	ND		mg/kg	0.0010	0.00011	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0021	0.00020	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0021	0.00035	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	101		70-130

Project Name: PHILADELPHIA REFINERY DIKE RO **Lab Number:** L2207568

Project Number: 200.00135.006 **Report Date:** 10/11/23

SAMPLE RESULTS

Lab ID: L2207568-06
Client ID: DRA2-SB07R-2.0-2.5
Sample Location: PHILADELPHIA, PA

Date Collected: 02/11/22 13:25
Date Received: 02/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/16/22 02:56
Analyst: KJD
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	ND		mg/kg	0.00050	0.00017	1
Toluene	ND		mg/kg	0.0010	0.00054	1
Ethylbenzene	ND		mg/kg	0.0010	0.00014	1
p/m-Xylene	ND		mg/kg	0.0020	0.00056	1
o-Xylene	ND		mg/kg	0.0010	0.00029	1
Xylenes, Total	ND		mg/kg	0.0010	0.00029	1
Isopropylbenzene	ND		mg/kg	0.0010	0.00011	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0020	0.00019	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0020	0.00033	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	102		70-130

Project Name: PHILADELPHIA REFINERY DIKE RO **Lab Number:** L2207568

Project Number: 200.00135.006 **Report Date:** 10/11/23

SAMPLE RESULTS

Lab ID: L2207568-07
Client ID: DRA2-SB09-0.5-1.0
Sample Location: PHILADELPHIA, PA

Date Collected: 02/11/22 13:30
Date Received: 02/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/16/22 03:21
Analyst: KJD
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	ND		mg/kg	0.00044	0.00015	1
Toluene	ND		mg/kg	0.00088	0.00048	1
Ethylbenzene	ND		mg/kg	0.00088	0.00012	1
p/m-Xylene	ND		mg/kg	0.0018	0.00049	1
o-Xylene	ND		mg/kg	0.00088	0.00026	1
Xylenes, Total	ND		mg/kg	0.00088	0.00026	1
Isopropylbenzene	ND		mg/kg	0.00088	0.00009	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0018	0.00017	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0018	0.00029	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	99		70-130

Project Name: PHILADELPHIA REFINERY DIKE RO **Lab Number:** L2207568

Project Number: 200.00135.006 **Report Date:** 10/11/23

SAMPLE RESULTS

Lab ID: L2207568-08
Client ID: DRA2-SB10-0.5-1.0
Sample Location: PHILADELPHIA, PA

Date Collected: 02/11/22 13:35
Date Received: 02/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/16/22 05:30
Analyst: KJD
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Benzene	0.14		mg/kg	0.031	0.010	1
Toluene	0.36		mg/kg	0.062	0.034	1
Ethylbenzene	0.17		mg/kg	0.062	0.0088	1
p/m-Xylene	1.1		mg/kg	0.12	0.035	1
o-Xylene	0.56		mg/kg	0.062	0.018	1
Xylenes, Total	1.7		mg/kg	0.062	0.018	1
Isopropylbenzene	0.30		mg/kg	0.062	0.0068	1
1,3,5-Trimethylbenzene	0.57		mg/kg	0.12	0.012	1
1,2,4-Trimethylbenzene	1.2		mg/kg	0.12	0.021	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	95		70-130

Project Name: PHILADELPHIA REFINERY DIKE RO **Lab Number:** L2207568

Project Number: 200.00135.006 **Report Date:** 10/11/23

SAMPLE RESULTS

Lab ID: L2207568-09
Client ID: DRA2-SB11-1.0-1.5
Sample Location: PHILADELPHIA, PA

Date Collected: 02/11/22 13:40
Date Received: 02/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/16/22 05:04
Analyst: KJD
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	ND		mg/kg	0.00076	0.00025	1
Toluene	ND		mg/kg	0.0015	0.00083	1
Ethylbenzene	ND		mg/kg	0.0015	0.00022	1
p/m-Xylene	ND		mg/kg	0.0030	0.00085	1
o-Xylene	ND		mg/kg	0.0015	0.00044	1
Xylenes, Total	ND		mg/kg	0.0015	0.00044	1
Isopropylbenzene	0.00021	J	mg/kg	0.0015	0.00017	1
1,3,5-Trimethylbenzene	0.0071		mg/kg	0.0030	0.00029	1
1,2,4-Trimethylbenzene	0.0013	J	mg/kg	0.0030	0.00051	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	94		70-130

Project Name: PHILADELPHIA REFINERY DIKE RO **Lab Number:** L2207568

Project Number: 200.00135.006 **Report Date:** 10/11/23

SAMPLE RESULTS

Lab ID: L2207568-10
Client ID: DRA2-SB12-0.5-1.0
Sample Location: PHILADELPHIA, PA

Date Collected: 02/11/22 13:45
Date Received: 02/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/16/22 03:47
Analyst: KJD
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	ND		mg/kg	0.00048	0.00016	1
Toluene	ND		mg/kg	0.00097	0.00053	1
Ethylbenzene	ND		mg/kg	0.00097	0.00014	1
p/m-Xylene	ND		mg/kg	0.0019	0.00054	1
o-Xylene	ND		mg/kg	0.00097	0.00028	1
Xylenes, Total	ND		mg/kg	0.00097	0.00028	1
Isopropylbenzene	ND		mg/kg	0.00097	0.00010	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0019	0.00019	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0019	0.00032	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	101		70-130

Project Name: PHILADELPHIA REFINERY DIKE RO **Lab Number:** L2207568

Project Number: 200.00135.006 **Report Date:** 10/11/23

SAMPLE RESULTS

Lab ID: L2207568-11
Client ID: DRA2-SB13-1.0-1.5
Sample Location: PHILADELPHIA, PA

Date Collected: 02/11/22 13:55
Date Received: 02/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/16/22 04:13
Analyst: KJD
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	ND		mg/kg	0.00048	0.00016	1
Toluene	ND		mg/kg	0.00096	0.00052	1
Ethylbenzene	ND		mg/kg	0.00096	0.00013	1
p/m-Xylene	ND		mg/kg	0.0019	0.00054	1
o-Xylene	ND		mg/kg	0.00096	0.00028	1
Xylenes, Total	ND		mg/kg	0.00096	0.00028	1
Isopropylbenzene	ND		mg/kg	0.00096	0.00010	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0019	0.00018	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0019	0.00032	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	102		70-130

Project Name: PHILADELPHIA REFINERY DIKE RO **Lab Number:** L2207568

Project Number: 200.00135.006 **Report Date:** 10/11/23

SAMPLE RESULTS

Lab ID: L2207568-12
Client ID: DRA2-SB14-0.5-1.0
Sample Location: PHILADELPHIA, PA

Date Collected: 02/11/22 14:00
Date Received: 02/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/16/22 04:38
Analyst: KJD
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	ND		mg/kg	0.00049	0.00016	1
Toluene	ND		mg/kg	0.00098	0.00053	1
Ethylbenzene	ND		mg/kg	0.00098	0.00014	1
p/m-Xylene	ND		mg/kg	0.0020	0.00055	1
o-Xylene	ND		mg/kg	0.00098	0.00029	1
Xylenes, Total	ND		mg/kg	0.00098	0.00029	1
Isopropylbenzene	ND		mg/kg	0.00098	0.00011	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0020	0.00019	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0020	0.00033	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	101		70-130

Project Name: PHILADELPHIA REFINERY DIKE RO **Lab Number:** L2207568

Project Number: 200.00135.006 **Report Date:** 10/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/15/22 21:21
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-07,09-12 Batch: WG1605583-5					
Benzene	ND		mg/kg	0.00050	0.00017
Toluene	ND		mg/kg	0.0010	0.00054
Ethylbenzene	ND		mg/kg	0.0010	0.00014
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
Isopropylbenzene	ND		mg/kg	0.0010	0.00011
1,3,5-Trimethylbenzene	ND		mg/kg	0.0020	0.00019
1,2,4-Trimethylbenzene	ND		mg/kg	0.0020	0.00033

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	96		70-130

Project Name: PHILADELPHIA REFINERY DIKE RO
Project Number: 200.00135.006
Lab Number: L2207568
Report Date: 10/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/15/22 21:21
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 08 Batch: WG1605584-5					
Benzene	ND		mg/kg	0.025	0.0083
Toluene	ND		mg/kg	0.050	0.027
Ethylbenzene	ND		mg/kg	0.050	0.0070
p/m-Xylene	ND		mg/kg	0.10	0.028
o-Xylene	ND		mg/kg	0.050	0.014
Xylenes, Total	ND		mg/kg	0.050	0.014
Isopropylbenzene	ND		mg/kg	0.050	0.0054
1,3,5-Trimethylbenzene	ND		mg/kg	0.10	0.0096
1,2,4-Trimethylbenzene	ND		mg/kg	0.10	0.017

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILADELPHIA REFINERY DIKE RO

Project Number: 200.00135.006

Lab Number: L2207568

Report Date: 10/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-07,09-12 Batch: WG1605583-3 WG1605583-4								
Benzene	98		95		70-130	3		30
Toluene	98		96		70-130	2		30
Ethylbenzene	99		96		70-130	3		30
p/m-Xylene	105		103		70-130	2		30
o-Xylene	106		101		70-130	5		30
Isopropylbenzene	99		96		70-130	3		30
1,3,5-Trimethylbenzene	98		94		70-130	4		30
1,2,4-Trimethylbenzene	98		94		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	89		92		70-130
Toluene-d8	98		97		70-130
4-Bromofluorobenzene	92		91		70-130
Dibromofluoromethane	99		100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILADELPHIA REFINERY DIKE RO

Project Number: 200.00135.006

Lab Number: L2207568

Report Date: 10/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 08 Batch: WG1605584-3 WG1605584-4								
Benzene	98		95		70-130	3		30
Toluene	98		96		70-130	2		30
Ethylbenzene	99		96		70-130	3		30
p/m-Xylene	105		103		70-130	2		30
o-Xylene	106		101		70-130	5		30
Isopropylbenzene	99		96		70-130	3		30
1,3,5-Trimethylbenzene	98		94		70-130	4		30
1,2,4-Trimethylbenzene	98		94		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	89		92		70-130
Toluene-d8	98		97		70-130
4-Bromofluorobenzene	93		91		70-130
Dibromofluoromethane	99		100		70-130

INORGANICS
&
MISCELLANEOUS

Project Name: PHILADELPHIA REFINERY DIKE RO
Project Number: 200.00135.006
Lab Number: L2207568
Report Date: 10/11/23

SAMPLE RESULTS

Lab ID: L2207568-01
Client ID: DRA2-SB03R-0.5-1.0
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil
Date Collected: 02/11/22 13:00
Date Received: 02/11/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.8		%	0.100	NA	1	-	02/12/22 08:41	121,2540G	RI

Project Name: PHILADELPHIA REFINERY DIKE RO
Project Number: 200.00135.006
Lab Number: L2207568
Report Date: 10/11/23

SAMPLE RESULTS

Lab ID: L2207568-02
Client ID: DRA2-SB03R-2.0-2.5
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil
Date Collected: 02/11/22 13:05
Date Received: 02/11/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.7		%	0.100	NA	1	-	02/12/22 08:41	121,2540G	RI

Project Name: PHILADELPHIA REFINERY DIKE RO
Project Number: 200.00135.006
Lab Number: L2207568
Report Date: 10/11/23

SAMPLE RESULTS

Lab ID: L2207568-03
Client ID: DRA2-SB04R-1.5-2.0
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil
Date Collected: 02/11/22 13:10
Date Received: 02/11/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.6		%	0.100	NA	1	-	02/12/22 08:41	121,2540G	RI

Project Name: PHILADELPHIA REFINERY DIKE RO
Project Number: 200.00135.006
Lab Number: L2207568
Report Date: 10/11/23

SAMPLE RESULTS

Lab ID: L2207568-04
Client ID: DRA2-SB04R-2.5-3.0
Sample Location: PHILADELPHIA, PA
Date Collected: 02/11/22 13:15
Date Received: 02/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.6		%	0.100	NA	1	-	02/12/22 08:41	121,2540G	RI

Project Name: PHILADELPHIA REFINERY DIKE RO
Project Number: 200.00135.006
Lab Number: L2207568
Report Date: 10/11/23

SAMPLE RESULTS

Lab ID: L2207568-05
Client ID: DRA2-SB07R-0.5-1.0
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil
Date Collected: 02/11/22 13:20
Date Received: 02/11/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.9		%	0.100	NA	1	-	02/12/22 08:41	121,2540G	RI

Project Name: PHILADELPHIA REFINERY DIKE RO
Project Number: 200.00135.006
Lab Number: L2207568
Report Date: 10/11/23

SAMPLE RESULTS

Lab ID: L2207568-06
Client ID: DRA2-SB07R-2.0-2.5
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil
Date Collected: 02/11/22 13:25
Date Received: 02/11/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.2		%	0.100	NA	1	-	02/12/22 08:41	121,2540G	RI

Project Name: PHILADELPHIA REFINERY DIKE RO
Project Number: 200.00135.006
Lab Number: L2207568
Report Date: 10/11/23

SAMPLE RESULTS

Lab ID: L2207568-07
Client ID: DRA2-SB09-0.5-1.0
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil
Date Collected: 02/11/22 13:30
Date Received: 02/11/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.6		%	0.100	NA	1	-	02/12/22 08:41	121,2540G	RI

Project Name: PHILADELPHIA REFINERY DIKE RO
Project Number: 200.00135.006
Lab Number: L2207568
Report Date: 10/11/23

SAMPLE RESULTS

Lab ID: L2207568-08
Client ID: DRA2-SB10-0.5-1.0
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil
Date Collected: 02/11/22 13:35
Date Received: 02/11/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.8		%	0.100	NA	1	-	02/12/22 08:41	121,2540G	RI

Project Name: PHILADELPHIA REFINERY DIKE RO
Project Number: 200.00135.006
Lab Number: L2207568
Report Date: 10/11/23

SAMPLE RESULTS

Lab ID: L2207568-09
Client ID: DRA2-SB11-1.0-1.5
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil
Date Collected: 02/11/22 13:40
Date Received: 02/11/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.1		%	0.100	NA	1	-	02/12/22 08:41	121,2540G	RI

Project Name: PHILADELPHIA REFINERY DIKE RO
Project Number: 200.00135.006
Lab Number: L2207568
Report Date: 10/11/23

SAMPLE RESULTS

Lab ID: L2207568-10
Client ID: DRA2-SB12-0.5-1.0
Sample Location: PHILADELPHIA, PA
Date Collected: 02/11/22 13:45
Date Received: 02/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.8		%	0.100	NA	1	-	02/12/22 08:41	121,2540G	RI

Project Name: PHILADELPHIA REFINERY DIKE RO
Project Number: 200.00135.006
Lab Number: L2207568
Report Date: 10/11/23

SAMPLE RESULTS

Lab ID: L2207568-11
Client ID: DRA2-SB13-1.0-1.5
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil
Date Collected: 02/11/22 13:55
Date Received: 02/11/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.7		%	0.100	NA	1	-	02/12/22 08:41	121,2540G	RI

Project Name: PHILADELPHIA REFINERY DIKE RO
Project Number: 200.00135.006
Lab Number: L2207568
Report Date: 10/11/23

SAMPLE RESULTS

Lab ID: L2207568-12
Client ID: DRA2-SB14-0.5-1.0
Sample Location: PHILADELPHIA, PA
Date Collected: 02/11/22 14:00
Date Received: 02/11/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.7		%	0.100	NA	1	-	02/12/22 08:41	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: PHILADELPHIA REFINERY DIKE RO

Project Number: 200.00135.006

Lab Number: L2207568

Report Date: 10/11/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG1604273-1 QC Sample: L2207568-01 Client ID: DRA2-SB03R-0.5-1.0						
Solids, Total	84.8	85.0	%	0		20

Project Name: PHILADELPHIA REFINERY DIKE RO
Project Number: 200.00135.006

Lab Number: L2207568
Report Date: 10/11/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2207568-01A	Vial MeOH preserved	A	NA		3.6	Y	Absent		PA-8260HLW(14)
L2207568-01B	Vial water preserved	A	NA		3.6	Y	Absent	12-FEB-22 05:18	PA-8260HLW(14)
L2207568-01C	Vial water preserved	A	NA		3.6	Y	Absent	12-FEB-22 05:18	PA-8260HLW(14)
L2207568-01D	Vial Large Septa unpreserved (4oz)	A	NA		3.6	Y	Absent		HOLD-CONTINGENCY(14)
L2207568-01E	Plastic 120ml unpreserved	A	NA		3.6	Y	Absent		TS(7)
L2207568-02A	Vial MeOH preserved	A	NA		3.6	Y	Absent		PA-8260HLW(14)
L2207568-02B	Vial water preserved	A	NA		3.6	Y	Absent	12-FEB-22 05:18	PA-8260HLW(14)
L2207568-02C	Vial water preserved	A	NA		3.6	Y	Absent	12-FEB-22 05:18	PA-8260HLW(14)
L2207568-02D	Vial Large Septa unpreserved (4oz)	A	NA		3.6	Y	Absent		HOLD-CONTINGENCY(14)
L2207568-02E	Plastic 120ml unpreserved	A	NA		3.6	Y	Absent		TS(7)
L2207568-03A	Vial MeOH preserved	A	NA		3.6	Y	Absent		PA-8260HLW(14)
L2207568-03B	Vial water preserved	A	NA		3.6	Y	Absent	12-FEB-22 05:18	PA-8260HLW(14)
L2207568-03C	Vial water preserved	A	NA		3.6	Y	Absent	12-FEB-22 05:18	PA-8260HLW(14)
L2207568-03D	Vial Large Septa unpreserved (4oz)	A	NA		3.6	Y	Absent		HOLD-CONTINGENCY(14)
L2207568-03E	Plastic 120ml unpreserved	A	NA		3.6	Y	Absent		TS(7)
L2207568-04A	Vial MeOH preserved	A	NA		3.6	Y	Absent		PA-8260HLW(14)
L2207568-04B	Vial water preserved	A	NA		3.6	Y	Absent	12-FEB-22 05:18	PA-8260HLW(14)
L2207568-04C	Vial water preserved	A	NA		3.6	Y	Absent	12-FEB-22 05:18	PA-8260HLW(14)
L2207568-04D	Vial Large Septa unpreserved (4oz)	A	NA		3.6	Y	Absent		HOLD-CONTINGENCY(14)
L2207568-04E	Plastic 120ml unpreserved	A	NA		3.6	Y	Absent		TS(7)
L2207568-05A	Vial MeOH preserved	A	NA		3.6	Y	Absent		PA-8260HLW(14)
L2207568-05B	Vial water preserved	A	NA		3.6	Y	Absent	12-FEB-22 05:18	PA-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: PHILADELPHIA REFINERY DIKE RO
Project Number: 200.00135.006

Lab Number: L2207568
Report Date: 10/11/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2207568-05C	Vial water preserved	A	NA		3.6	Y	Absent	12-FEB-22 05:18	PA-8260HLW(14)
L2207568-05D	Vial Large Septa unpreserved (4oz)	A	NA		3.6	Y	Absent		HOLD-CONTINGENCY(14)
L2207568-05E	Plastic 120ml unpreserved	A	NA		3.6	Y	Absent		TS(7)
L2207568-06A	Vial MeOH preserved	A	NA		3.6	Y	Absent		PA-8260HLW(14)
L2207568-06B	Vial water preserved	A	NA		3.6	Y	Absent	12-FEB-22 05:18	PA-8260HLW(14)
L2207568-06C	Vial water preserved	A	NA		3.6	Y	Absent	12-FEB-22 05:18	PA-8260HLW(14)
L2207568-06D	Vial Large Septa unpreserved (4oz)	A	NA		3.6	Y	Absent		HOLD-CONTINGENCY(14)
L2207568-06E	Plastic 120ml unpreserved	A	NA		3.6	Y	Absent		TS(7)
L2207568-07A	Vial MeOH preserved	A	NA		3.6	Y	Absent		PA-8260HLW(14)
L2207568-07B	Vial water preserved	A	NA		3.6	Y	Absent	12-FEB-22 05:18	PA-8260HLW(14)
L2207568-07C	Vial water preserved	A	NA		3.6	Y	Absent	12-FEB-22 05:18	PA-8260HLW(14)
L2207568-07D	Vial Large Septa unpreserved (4oz)	A	NA		3.6	Y	Absent		HOLD-CONTINGENCY(14)
L2207568-07E	Plastic 120ml unpreserved	A	NA		3.6	Y	Absent		TS(7)
L2207568-08A	Vial MeOH preserved	B	NA		2.6	Y	Absent		PA-8260HLW(14)
L2207568-08B	Vial water preserved	B	NA		2.6	Y	Absent	12-FEB-22 05:18	PA-8260HLW(14)
L2207568-08C	Vial water preserved	B	NA		2.6	Y	Absent	12-FEB-22 05:18	PA-8260HLW(14)
L2207568-08D	Vial Large Septa unpreserved (4oz)	B	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14)
L2207568-08E	Plastic 120ml unpreserved	B	NA		2.6	Y	Absent		TS(7)
L2207568-09A	Vial MeOH preserved	B	NA		2.6	Y	Absent		PA-8260HLW(14)
L2207568-09B	Vial water preserved	B	NA		2.6	Y	Absent	12-FEB-22 05:18	PA-8260HLW(14)
L2207568-09C	Vial water preserved	B	NA		2.6	Y	Absent	12-FEB-22 05:18	PA-8260HLW(14)
L2207568-09D	Vial Large Septa unpreserved (4oz)	B	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14)
L2207568-09E	Plastic 120ml unpreserved	B	NA		2.6	Y	Absent		TS(7)
L2207568-10A	Vial MeOH preserved	B	NA		2.6	Y	Absent		PA-8260HLW(14)
L2207568-10B	Vial water preserved	B	NA		2.6	Y	Absent	12-FEB-22 05:18	PA-8260HLW(14)
L2207568-10C	Vial water preserved	B	NA		2.6	Y	Absent	12-FEB-22 05:18	PA-8260HLW(14)
L2207568-10D	Vial Large Septa unpreserved (4oz)	B	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14)
L2207568-10E	Plastic 120ml unpreserved	B	NA		2.6	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: PHILADELPHIA REFINERY DIKE RO
Project Number: 200.00135.006

Lab Number: L2207568
Report Date: 10/11/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2207568-11A	Vial MeOH preserved	B	NA		2.6	Y	Absent		PA-8260HLW(14)
L2207568-11B	Vial water preserved	B	NA		2.6	Y	Absent	12-FEB-22 05:18	PA-8260HLW(14)
L2207568-11C	Vial water preserved	B	NA		2.6	Y	Absent	12-FEB-22 05:18	PA-8260HLW(14)
L2207568-11D	Vial Large Septa unpreserved (4oz)	B	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14)
L2207568-11E	Plastic 120ml unpreserved	B	NA		2.6	Y	Absent		TS(7)
L2207568-12A	Vial MeOH preserved	B	NA		2.6	Y	Absent		PA-8260HLW(14)
L2207568-12B	Vial water preserved	B	NA		2.6	Y	Absent	12-FEB-22 05:18	PA-8260HLW(14)
L2207568-12C	Vial water preserved	B	NA		2.6	Y	Absent	12-FEB-22 05:18	PA-8260HLW(14)
L2207568-12D	Vial Large Septa unpreserved (4oz)	B	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14)
L2207568-12E	Plastic 120ml unpreserved	B	NA		2.6	Y	Absent		TS(7)
L2207568-13A	Vial MeOH preserved	B	NA		2.6	Y	Absent		HOLD-8260HLW(14)
L2207568-13B	Vial water preserved	B	NA		2.6	Y	Absent	12-FEB-22 05:18	HOLD-8260HLW(14)
L2207568-13C	Vial water preserved	B	NA		2.6	Y	Absent	12-FEB-22 05:18	HOLD-8260HLW(14)
L2207568-13D	Vial Large Septa unpreserved (4oz)	B	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14)
L2207568-13E	Plastic 120ml unpreserved	B	NA		2.6	Y	Absent		HOLD-WETCHEM()
L2207568-14A	Vial MeOH preserved	B	NA		2.6	Y	Absent		HOLD-8260HLW(14)
L2207568-14B	Vial water preserved	B	NA		2.6	Y	Absent	12-FEB-22 05:18	HOLD-8260HLW(14)
L2207568-14C	Vial water preserved	B	NA		2.6	Y	Absent	12-FEB-22 05:18	HOLD-8260HLW(14)
L2207568-14D	Vial Large Septa unpreserved (4oz)	B	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14)
L2207568-14E	Plastic 120ml unpreserved	B	NA		2.6	Y	Absent		HOLD-WETCHEM()

*Values in parentheses indicate holding time in days

Project Name:	PHILADELPHIA REFINERY DIKE RO	**Lab Number:**	L2207568
Project Number:	200.00135.006	**Report Date:**	10/11/23

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	PHILADELPHIA REFINERY DIKE RO	**Lab Number:**	L2207568
Project Number:	200.00135.006	**Report Date:**	10/11/23

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	PHILADELPHIA REFINERY DIKE RO	**Lab Number:**	L2207568
Project Number:	200.00135.006	**Report Date:**	10/11/23

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	PHILADELPHIA REFINERY DIKE RO	**Lab Number:**	L2207568
Project Number:	200.00135.006	**Report Date:**	10/11/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Serial_No:10112313:42

CHAIN OF CUSTODY

PAGE 1 OF 2

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 2/12/22

ALPHA Job #: L2207568

Client Information

Client: Ransom Consulting, LLC

Address: 2127 Hamilton Ave Trenton, NJ 08619

Phone: 215-901-4974

Fax:

Email: William.Schmidt@ransomenv

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Philadelphia Refinery Dike Roadway Area 2

Project Location: Philadelphia, PA

Project #: 200.00135.006

Project Manager: William Schmidt

ALPHA Quote #: 13161

Turn-Around Time

☐ Standard ☑ RUSH (only confirmed if pre-approved!)

Date Due: 5-Day Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

Other Project Specific Requirements/Comments/Detection Limits:

Email Results to EDD@terraphase.com + jjgray@hillcglobal.com

ANALYSIS: USEPA 8260 (Benzene); SPLP (Benzene); USEPA 8260 (1,2,4-TMB)

SAMPLE HANDLING: Filtration ☐ Done ☐ Not needed ☐ Lab to do; Preservation ☐ Lab to do (Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	USEPA 8260 (Benzene)	SPLP (Benzene)	USEPA 8260 (1,2,4-TMB)	Sample Specific Comments	Total # Bottles
07568-01	DRA2-SB03R-0.5-1.0	2/11	1300	S	TS	✓	✓	✓	Hold SPLP	5
-02	DRA2-SB03R-2.0-2.5	↓	1305	↓	↓	✓	✓	✓	Hold SPLP	↓
-03	DRA2-SB04R-1.5-2.0	↓	1310	↓	↓	✓	✓	✓	Hold SPLP	↓
-04	DRA2-SB04R-2.5-3.0	↓	1315	↓	↓	✓	✓	✓	Hold SPLP	↓
-05	DRA2-SB07R-0.5-1.0	↓	1320	↓	↓	✓	✓	✓	Hold SPLP	↓
-06	DRA2-SB07R-2.0-2.5	↓	1325	↓	↓	✓	✓	✓	Hold SPLP	↓
-07	DRA2-SB09-0.5-1.0	↓	1330	↓	↓	✓	✓	✓	Hold SPLP	↓
-08	DRA2-SB10-0.5-1.0	↓	1335	↓	↓	✓	✓	✓	Hold SPLP	↓
-09	DRA2-SB11-1.0-1.5	↓	1340	↓	↓	✓	✓	✓	Hold SPLP	↓
-10	DRA2-SB12-0.5-1.0	↓	1345	↓	↓	✓	✓	✓	Hold SPLP	↓

Container Type

Preservative

Rec'd — 2/12/22 0155

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	2/11 1500	ST AAL	2/11/22 15:00
ST	2/11/22 1800	[signature] AAL	2-11-22 1800
[signature] AAL	2-11-22	[signature]	2/11/22 2030

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Serial_No:10112313:42

CHAIN OF CUSTODY

PAGE 2 OF 2

Date Rec'd in Lab: 2/12/22

ALPHA Job #: L2207568

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Project Information

Project Name: PHILADELPHIA REFINERY DIKE ROADWAY AREA 2

Project Location: PHILADELPHIA, PA

Project #: 200.00135.006

Project Manager: WILLIAM SCHMIDT

ALPHA Quote #:

Report Information - Data Deliverables

❑ FAX ☑ EMAIL
❑ ADEx ❑ Add'l Deliverables

Billing Information

❑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

Client Information

Client: RANSOM CONSULTING, LLC

Address: 2127 HAMILTON AVE TRENTON, NJ 08619

Phone: 215-901-4974

Fax:

Email: WILLIAM.SCHMIDT@RANSOMENV

❑ These samples have been previously analyzed by Alpha

Turn-Around Time

❑ Standard ☑ RUSH (only confirmed if pre-approved!)

Date Due: 5-DAY Time:

Other Project Specific Requirements/Comments/Detection Limits:

SEE PG. 1

ANALYSIS: USEPA 8260 (BENZENE); SPLP (BENZENE); USEPA 8260 (1,2,4-TMB)

SAMPLE HANDLING
Filtration
❑ Done
❑ Not needed
❑ Lab to do
Preservation
❑ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	USEPA 8260 (BENZENE)	SPLP (BENZENE)	USEPA 8260 (1,2,4-TMB)	Sample Specific Comments	TOTAL # BOTTLES
07568-11	DRA2-SB13-1.0-1.5	2/11	1355	S		✓	✓	✓	HOLD SPLP	5
-12	DRA2-SB14-0.5-1.0	↓	1400	S		✓	✓	✓	HOLD SPLP	5
-13	DRA2-SB15-1.5-2.0	↓	1405	S		✓	✓	✓	HOLD ALL SAMPLES	5
-14	DRA2-SB16-0.5-1.0	↓	1415	S		✓	✓	✓	HOLD ALL SAMPLES	5

Container Type
Preservative

Rec'd L 2/12/22 0155

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	2/11 1500	STL AAL	2/11/22 15:00
[signature]	2/11/22 1800	TEAM COL AAL	2/11/22 1800
TEAM COL AAL 2-11-22		[signature]	2/11/22 2030

[signature] 2/12/22 0155

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

ANALYTICAL REPORT

Lab Number:	L2262687
Client:	Ransom/Hilco 99 Summer St. Suite 1110 Boston, MA 02110
ATTN:	Joe Jeray
Phone:	(978) 729-3209
Project Name:	PHILADELPHIA REFINERY
Project Number:	200.00135.006
Report Date:	10/11/23

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: PHILADELPHIA REFINERY
Project Number: 200.00135.006

Lab Number: L2262687
Report Date: 10/11/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2262687-01	DRA2-SB23-4.0-4.5	SOIL	PHILADELPHIA, PA	11/08/22 14:00	11/08/22
L2262687-02	DRA2-SB24-4.0-4.5	SOIL	PHILADELPHIA, PA	11/08/22 14:10	11/08/22
L2262687-03	DRA2-SB25-1.5-2.0	SOIL	PHILADELPHIA, PA	11/08/22 14:20	11/08/22
L2262687-04	DRA2-SB26-6.5-7.0	SOIL	PHILADELPHIA, PA	11/08/22 14:30	11/08/22
L2262687-05	DRA2-SB27-6.5-7.0	SOIL	PHILADELPHIA, PA	11/08/22 14:40	11/08/22
L2262687-06	DRA2-SB28-0.0-0.5	SOIL	PHILADELPHIA, PA	11/08/22 14:50	11/08/22
L2262687-07	DRA2-SB29-5.5-6.0	SOIL	PHILADELPHIA, PA	11/08/22 15:00	11/08/22
L2262687-08	DRA2-SB30-2.0-2.5	SOIL	PHILADELPHIA, PA	11/08/22 15:10	11/08/22

Project Name:	PHILADELPHIA REFINERY	**Lab Number:**	L2262687
Project Number:	200.00135.006	**Report Date:**	10/11/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	PHILADELPHIA REFINERY	**Lab Number:**	L2262687
Project Number:	200.00135.006	**Report Date:**	10/11/23

Case Narrative (continued)

Report Revision

October 11, 2023: At the client's request, the Volatile Organics reporting list has been amended.

December 30, 2022: The Volatile Organics reporting list has been expanded.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2262687-08: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (132%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 10/11/23

ORGANICS

VOLATILES

Project Name: PHILADELPHIA REFINERY
Lab Number: L2262687
Project Number: 200.00135.006
Report Date: 10/11/23

SAMPLE RESULTS

Lab ID: L2262687-01
Client ID: DRA2-SB23-4.0-4.5
Sample Location: PHILADELPHIA, PA

Date Collected: 11/08/22 14:00
Date Received: 11/08/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 11/10/22 11:53
Analyst: KJD
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.0012		mg/kg	0.00050	0.00016	1
Toluene	ND		mg/kg	0.0010	0.00054	1
Ethylbenzene	0.00024	J	mg/kg	0.0010	0.00014	1
p/m-Xylene	0.0012	J	mg/kg	0.0020	0.00056	1
o-Xylene	0.00059	J	mg/kg	0.0010	0.00029	1
Xylenes, Total	0.0018	J	mg/kg	0.0010	0.00029	1
Isopropylbenzene	0.00058	J	mg/kg	0.0010	0.00011	1
1,3,5-Trimethylbenzene	0.00045	J	mg/kg	0.0020	0.00019	1
1,2,4-Trimethylbenzene	0.0013	J	mg/kg	0.0020	0.00033	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	99		70-130

Project Name: PHILADELPHIA REFINERY
Lab Number: L2262687
Project Number: 200.00135.006
Report Date: 10/11/23

SAMPLE RESULTS

Lab ID: L2262687-02
Client ID: DRA2-SB24-4.0-4.5
Sample Location: PHILADELPHIA, PA

Date Collected: 11/08/22 14:10
Date Received: 11/08/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 11/10/22 12:19
Analyst: KJD
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.0078		mg/kg	0.00056	0.00018	1
Toluene	0.0029		mg/kg	0.0011	0.00060	1
Ethylbenzene	0.0032		mg/kg	0.0011	0.00016	1
p/m-Xylene	0.014		mg/kg	0.0022	0.00062	1
o-Xylene	0.0048		mg/kg	0.0011	0.00032	1
Xylenes, Total	0.019		mg/kg	0.0011	0.00032	1
Isopropylbenzene	0.0076		mg/kg	0.0011	0.00012	1
1,3,5-Trimethylbenzene	0.0059		mg/kg	0.0022	0.00021	1
1,2,4-Trimethylbenzene	0.018		mg/kg	0.0022	0.00037	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	126		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	101		70-130

Project Name: PHILADELPHIA REFINERY
Project Number: 200.00135.006
Lab Number: L2262687
Report Date: 10/11/23

SAMPLE RESULTS

Lab ID: L2262687-03
Client ID: DRA2-SB25-1.5-2.0
Sample Location: PHILADELPHIA, PA
Date Collected: 11/08/22 14:20
Date Received: 11/08/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 11/10/22 12:45
Analyst: KJD
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	ND		mg/kg	0.00055	0.00018	1
Toluene	ND		mg/kg	0.0011	0.00060	1
Ethylbenzene	ND		mg/kg	0.0011	0.00016	1
p/m-Xylene	ND		mg/kg	0.0022	0.00062	1
o-Xylene	ND		mg/kg	0.0011	0.00032	1
Xylenes, Total	ND		mg/kg	0.0011	0.00032	1
Isopropylbenzene	ND		mg/kg	0.0011	0.00012	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.0022	0.00021	1
1,2,4-Trimethylbenzene	ND		mg/kg	0.0022	0.00037	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	101		70-130

Project Name: PHILADELPHIA REFINERY
Lab Number: L2262687
Project Number: 200.00135.006
Report Date: 10/11/23

SAMPLE RESULTS

Lab ID: L2262687-04
Client ID: DRA2-SB26-6.5-7.0
Sample Location: PHILADELPHIA, PA

Date Collected: 11/08/22 14:30
Date Received: 11/08/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 11/10/22 13:11
Analyst: KJD
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.0096		mg/kg	0.00052	0.00017	1
Toluene	0.0086		mg/kg	0.0010	0.00056	1
Ethylbenzene	0.0059		mg/kg	0.0010	0.00015	1
p/m-Xylene	0.019		mg/kg	0.0021	0.00058	1
o-Xylene	0.0089		mg/kg	0.0010	0.00030	1
Xylenes, Total	0.028		mg/kg	0.0010	0.00030	1
Isopropylbenzene	0.0098		mg/kg	0.0010	0.00011	1
1,3,5-Trimethylbenzene	0.010		mg/kg	0.0021	0.00020	1
1,2,4-Trimethylbenzene	0.029		mg/kg	0.0021	0.00035	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	100		70-130

Project Name: PHILADELPHIA REFINERY
Lab Number: L2262687
Project Number: 200.00135.006
Report Date: 10/11/23

SAMPLE RESULTS

Lab ID: L2262687-05
Client ID: DRA2-SB27-6.5-7.0
Sample Location: PHILADELPHIA, PA

Date Collected: 11/08/22 14:40
Date Received: 11/08/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 11/10/22 13:38
Analyst: KJD
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Benzene	2.9		mg/kg	0.034	0.011	1
Toluene	0.54		mg/kg	0.068	0.037	1
Ethylbenzene	0.11		mg/kg	0.068	0.0096	1
p/m-Xylene	0.38		mg/kg	0.14	0.038	1
o-Xylene	0.17		mg/kg	0.068	0.020	1
Xylenes, Total	0.55		mg/kg	0.068	0.020	1
Isopropylbenzene	0.085		mg/kg	0.068	0.0074	1
1,3,5-Trimethylbenzene	0.025	J	mg/kg	0.14	0.013	1
1,2,4-Trimethylbenzene	0.096	J	mg/kg	0.14	0.023	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	97		70-130

Project Name: PHILADELPHIA REFINERY
Project Number: 200.00135.006
Lab Number: L2262687
Report Date: 10/11/23

SAMPLE RESULTS

Lab ID: L2262687-06
Client ID: DRA2-SB28-0.0-0.5
Sample Location: PHILADELPHIA, PA
Date Collected: 11/08/22 14:50
Date Received: 11/08/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 11/10/22 14:04
Analyst: KJD
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.0022		mg/kg	0.00051	0.00017	1
Toluene	0.0023		mg/kg	0.0010	0.00055	1
Ethylbenzene	0.0013		mg/kg	0.0010	0.00014	1
p/m-Xylene	0.0080		mg/kg	0.0020	0.00057	1
o-Xylene	0.0038		mg/kg	0.0010	0.00030	1
Xylenes, Total	0.012		mg/kg	0.0010	0.00030	1
Isopropylbenzene	0.0040		mg/kg	0.0010	0.00011	1
1,3,5-Trimethylbenzene	0.0031		mg/kg	0.0020	0.00020	1
1,2,4-Trimethylbenzene	0.0088		mg/kg	0.0020	0.00034	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	100		70-130

Project Name: PHILADELPHIA REFINERY
Lab Number: L2262687
Project Number: 200.00135.006
Report Date: 10/11/23

SAMPLE RESULTS

Lab ID: L2262687-07
Client ID: DRA2-SB29-5.5-6.0
Sample Location: PHILADELPHIA, PA

Date Collected: 11/08/22 15:00
Date Received: 11/08/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 11/10/22 14:30
Analyst: KJD
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Benzene	1.6		mg/kg	0.040	0.013	1
Toluene	0.31		mg/kg	0.080	0.043	1
Ethylbenzene	0.054	J	mg/kg	0.080	0.011	1
p/m-Xylene	0.19		mg/kg	0.16	0.044	1
o-Xylene	0.097		mg/kg	0.080	0.023	1
Xylenes, Total	0.29		mg/kg	0.080	0.023	1
Isopropylbenzene	0.042	J	mg/kg	0.080	0.0087	1
1,3,5-Trimethylbenzene	ND		mg/kg	0.16	0.015	1
1,2,4-Trimethylbenzene	0.055	J	mg/kg	0.16	0.026	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	99		70-130

Project Name: PHILADELPHIA REFINERY
Project Number: 200.00135.006
Lab Number: L2262687
Report Date: 10/11/23

SAMPLE RESULTS

Lab ID: L2262687-08
Client ID: DRA2-SB30-2.0-2.5
Sample Location: PHILADELPHIA, PA
Date Collected: 11/08/22 15:10
Date Received: 11/08/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 11/10/22 14:56
Analyst: KJD
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Benzene	0.0033		mg/kg	0.00053	0.00018	1
Toluene	0.0086		mg/kg	0.0011	0.00058	1
Ethylbenzene	0.011		mg/kg	0.0011	0.00015	1
p/m-Xylene	0.080		mg/kg	0.0021	0.00060	1
o-Xylene	0.037		mg/kg	0.0011	0.00031	1
Xylenes, Total	0.12		mg/kg	0.0011	0.00031	1
Isopropylbenzene	0.016		mg/kg	0.0011	0.00012	1
1,3,5-Trimethylbenzene	0.036		mg/kg	0.0021	0.00021	1
1,2,4-Trimethylbenzene	0.10		mg/kg	0.0021	0.00036	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	**132**	Q	70-130
Dibromofluoromethane	99		70-130

Project Name: PHILADELPHIA REFINERY
Project Number: 200.00135.006
Lab Number: L2262687
Report Date: 10/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 11/10/22 09:15
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-04,06,08 Batch: WG1711188-5					
Benzene	ND		mg/kg	0.00050	0.00017
Toluene	ND		mg/kg	0.0010	0.00054
Ethylbenzene	ND		mg/kg	0.0010	0.00014
p/m-Xylene	ND		mg/kg	0.0020	0.00056
o-Xylene	ND		mg/kg	0.0010	0.00029
Xylenes, Total	ND		mg/kg	0.0010	0.00029
Isopropylbenzene	ND		mg/kg	0.0010	0.00011
1,3,5-Trimethylbenzene	ND		mg/kg	0.0020	0.00019
1,2,4-Trimethylbenzene	ND		mg/kg	0.0020	0.00033

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	126		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	101		70-130

Project Name: PHILADELPHIA REFINERY
Project Number: 200.00135.006
Lab Number: L2262687
Report Date: 10/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 11/10/22 09:15
Analyst: JIC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 05,07 Batch: WG1711189-5					
Benzene	ND		mg/kg	0.025	0.0083
Toluene	ND		mg/kg	0.050	0.027
Ethylbenzene	ND		mg/kg	0.050	0.0070
p/m-Xylene	ND		mg/kg	0.10	0.028
o-Xylene	ND		mg/kg	0.050	0.014
Xylenes, Total	ND		mg/kg	0.050	0.014
Isopropylbenzene	ND		mg/kg	0.050	0.0054
1,3,5-Trimethylbenzene	ND		mg/kg	0.10	0.0096
1,2,4-Trimethylbenzene	ND		mg/kg	0.10	0.017

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	126		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILADELPHIA REFINERY

Project Number: 200.00135.006

Lab Number: L2262687

Report Date: 10/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04,06,08 Batch: WG1711188-3 WG1711188-4								
Benzene	118		104		70-130	13		30
Toluene	108		97		70-130	11		30
Ethylbenzene	112		101		70-130	10		30
p/m-Xylene	106		95		70-130	11		30
o-Xylene	102		92		70-130	10		30
Isopropylbenzene	108		96		70-130	12		30
1,3,5-Trimethylbenzene	109		97		70-130	12		30
1,2,4-Trimethylbenzene	108		97		70-130	11		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	123		123		70-130
Toluene-d8	104		105		70-130
4-Bromofluorobenzene	106		106		70-130
Dibromofluoromethane	100		101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHILADELPHIA REFINERY

Project Number: 200.00135.006

Lab Number: L2262687

Report Date: 10/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05,07 Batch: WG1711189-3 WG1711189-4								
Benzene	118		104		70-130	13		30
Toluene	108		97		70-130	11		30
Ethylbenzene	112		101		70-130	10		30
p/m-Xylene	106		95		70-130	11		30
o-Xylene	102		92		70-130	10		30
Isopropylbenzene	108		96		70-130	12		30
1,3,5-Trimethylbenzene	109		97		70-130	12		30
1,2,4-Trimethylbenzene	108		97		70-130	11		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	123		123		70-130
Toluene-d8	104		105		70-130
4-Bromofluorobenzene	106		106		70-130
Dibromofluoromethane	100		101		70-130

INORGANICS
&
MISCELLANEOUS

Project Name: PHILADELPHIA REFINERY
Project Number: 200.00135.006
Lab Number: L2262687
Report Date: 10/11/23

SAMPLE RESULTS

Lab ID: L2262687-01
Client ID: DRA2-SB23-4.0-4.5
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil
Date Collected: 11/08/22 14:00
Date Received: 11/08/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.1		%	0.100	NA	1	-	11/10/22 02:45	121,2540G	JD

Project Name: PHILADELPHIA REFINERY
Project Number: 200.00135.006
Lab Number: L2262687
Report Date: 10/11/23

SAMPLE RESULTS

Lab ID: L2262687-02
Client ID: DRA2-SB24-4.0-4.5
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil
Date Collected: 11/08/22 14:10
Date Received: 11/08/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.3		%	0.100	NA	1	-	11/10/22 02:45	121,2540G	JD

Project Name: PHILADELPHIA REFINERY
Project Number: 200.00135.006
Lab Number: L2262687
Report Date: 10/11/23

SAMPLE RESULTS

Lab ID: L2262687-03
Client ID: DRA2-SB25-1.5-2.0
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil

Date Collected: 11/08/22 14:20
Date Received: 11/08/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.2		%	0.100	NA	1	-	11/10/22 02:45	121,2540G	JD

Project Name: PHILADELPHIA REFINERY
Project Number: 200.00135.006
Lab Number: L2262687
Report Date: 10/11/23

SAMPLE RESULTS

Lab ID: L2262687-04
Client ID: DRA2-SB26-6.5-7.0
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil
Date Collected: 11/08/22 14:30
Date Received: 11/08/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.6		%	0.100	NA	1	-	11/10/22 02:45	121,2540G	JD

Project Name: PHILADELPHIA REFINERY
Project Number: 200.00135.006
Lab Number: L2262687
Report Date: 10/11/23

SAMPLE RESULTS

Lab ID: L2262687-05
Client ID: DRA2-SB27-6.5-7.0
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil
Date Collected: 11/08/22 14:40
Date Received: 11/08/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.1		%	0.100	NA	1	-	11/10/22 02:45	121,2540G	JD

Project Name: PHILADELPHIA REFINERY
Project Number: 200.00135.006
Lab Number: L2262687
Report Date: 10/11/23

SAMPLE RESULTS

Lab ID: L2262687-06
Client ID: DRA2-SB28-0.0-0.5
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil
Date Collected: 11/08/22 14:50
Date Received: 11/08/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.4		%	0.100	NA	1	-	11/10/22 02:45	121,2540G	JD

Project Name: PHILADELPHIA REFINERY
Project Number: 200.00135.006
Lab Number: L2262687
Report Date: 10/11/23

SAMPLE RESULTS

Lab ID: L2262687-07
Client ID: DRA2-SB29-5.5-6.0
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil

Date Collected: 11/08/22 15:00
Date Received: 11/08/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.8		%	0.100	NA	1	-	11/10/22 02:45	121,2540G	JD

Project Name: PHILADELPHIA REFINERY
Project Number: 200.00135.006
Lab Number: L2262687
Report Date: 10/11/23

SAMPLE RESULTS

Lab ID: L2262687-08
Client ID: DRA2-SB30-2.0-2.5
Sample Location: PHILADELPHIA, PA
Sample Depth:
Matrix: Soil

Date Collected: 11/08/22 15:10
Date Received: 11/08/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.6		%	0.100	NA	1	-	11/10/22 02:45	121,2540G	JD

Lab Duplicate Analysis

Batch Quality Control

Project Name: PHILADELPHIA REFINERY

Project Number: 200.00135.006

Lab Number: L2262687

Report Date: 10/11/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1710350-1 QC Sample: L2262963-01 Client ID: DUP Sample						
Solids, Total	47.1	47.7	%	1		20

Project Name: PHILADELPHIA REFINERY
Project Number: 200.00135.006

Lab Number: L2262687
Report Date: 10/11/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2262687-01A	Vial MeOH preserved	A	NA		3.2	Y	Absent		PA-8260HLW(14)
L2262687-01B	Vial water preserved	A	NA		3.2	Y	Absent	09-NOV-22 07:21	PA-8260HLW(14)
L2262687-01C	Vial water preserved	A	NA		3.2	Y	Absent	09-NOV-22 07:21	PA-8260HLW(14)
L2262687-01D	Plastic 120ml unpreserved	A	NA		3.2	Y	Absent		TS(7)
L2262687-02A	Vial MeOH preserved	A	NA		3.2	Y	Absent		PA-8260HLW(14)
L2262687-02B	Vial water preserved	A	NA		3.2	Y	Absent	09-NOV-22 07:21	PA-8260HLW(14)
L2262687-02C	Vial water preserved	A	NA		3.2	Y	Absent	09-NOV-22 07:21	PA-8260HLW(14)
L2262687-02D	Plastic 120ml unpreserved	A	NA		3.2	Y	Absent		TS(7)
L2262687-03A	Vial MeOH preserved	A	NA		3.2	Y	Absent		PA-8260HLW(14)
L2262687-03B	Vial water preserved	A	NA		3.2	Y	Absent	09-NOV-22 07:21	PA-8260HLW(14)
L2262687-03C	Vial water preserved	A	NA		3.2	Y	Absent	09-NOV-22 07:21	PA-8260HLW(14)
L2262687-03D	Plastic 120ml unpreserved	A	NA		3.2	Y	Absent		TS(7)
L2262687-04A	Vial MeOH preserved	A	NA		3.2	Y	Absent		PA-8260HLW(14)
L2262687-04B	Vial water preserved	A	NA		3.2	Y	Absent	09-NOV-22 07:21	PA-8260HLW(14)
L2262687-04C	Vial water preserved	A	NA		3.2	Y	Absent	09-NOV-22 07:21	PA-8260HLW(14)
L2262687-04D	Plastic 120ml unpreserved	A	NA		3.2	Y	Absent		TS(7)
L2262687-05A	Vial MeOH preserved	A	NA		3.2	Y	Absent		PA-8260HLW(14)
L2262687-05B	Vial water preserved	A	NA		3.2	Y	Absent	09-NOV-22 07:21	PA-8260HLW(14)
L2262687-05C	Vial water preserved	A	NA		3.2	Y	Absent	09-NOV-22 07:21	PA-8260HLW(14)
L2262687-05D	Plastic 120ml unpreserved	A	NA		3.2	Y	Absent		TS(7)
L2262687-06A	Vial MeOH preserved	A	NA		3.2	Y	Absent		PA-8260HLW(14)
L2262687-06B	Vial water preserved	A	NA		3.2	Y	Absent	09-NOV-22 07:21	PA-8260HLW(14)
L2262687-06C	Vial water preserved	A	NA		3.2	Y	Absent	09-NOV-22 07:21	PA-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: PHILADELPHIA REFINERY
Project Number: 200.00135.006

Lab Number: L2262687
Report Date: 10/11/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2262687-06D	Plastic 120ml unpreserved	A	NA		3.2	Y	Absent		TS(7)
L2262687-07A	Vial MeOH preserved	A	NA		3.2	Y	Absent		PA-8260HLW(14)
L2262687-07B	Vial water preserved	A	NA		3.2	Y	Absent	09-NOV-22 07:21	PA-8260HLW(14)
L2262687-07C	Vial water preserved	A	NA		3.2	Y	Absent	09-NOV-22 07:21	PA-8260HLW(14)
L2262687-07D	Plastic 120ml unpreserved	A	NA		3.2	Y	Absent		TS(7)
L2262687-08A	Vial MeOH preserved	A	NA		3.2	Y	Absent		PA-8260HLW(14)
L2262687-08B	Vial water preserved	A	NA		3.2	Y	Absent	09-NOV-22 07:21	PA-8260HLW(14)
L2262687-08C	Vial water preserved	A	NA		3.2	Y	Absent	09-NOV-22 07:21	PA-8260HLW(14)
L2262687-08D	Plastic 120ml unpreserved	A	NA		3.2	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name:	PHILADELPHIA REFINERY	**Lab Number:**	L2262687
Project Number:	200.00135.006	**Report Date:**	10/11/23

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	PHILADELPHIA REFINERY	**Lab Number:**	L2262687
Project Number:	200.00135.006	**Report Date:**	10/11/23

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	PHILADELPHIA REFINERY	**Lab Number:**	L2262687
Project Number:	200.00135.006	**Report Date:**	10/11/23

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	PHILADELPHIA REFINERY	**Lab Number:**	L2262687
Project Number:	200.00135.006	**Report Date:**	10/11/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL

Westborough, MA TEL: 508-898-9220 FAX: 508-898-9193
Mansfield, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 11/09/22

ALPHA Job #: L2262687

Project Information

Project Name: Philadelphia Refinery

Project Location: Philadelphia, PA

Project #: 200.00135.006

Project Manager: William Schmidt

ALPHA Quote #: ~~12161~~ ~~L2623~~ 18559

Turn-Around Time

☒ Standard ☐ Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Client Information

Client: Ransom Consulting, LLC

Address: 2127 Hamilton Avenue

Trenton, NJ 08619

Phone: 215-901-4974

Fax:

Email: William.Schmidt@ransomenv.com

☐ These samples have been Previously analyzed by Alpha

Report Information Data Deliverables

☐ FAX ☒ EMAIL

☒ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client Info PO #: 3562

Regulatory Requirements/Report Limits

State/Fed Program | Criteria

Other Project Specific Requirements/Comments/Detection Limits:

Report only project-specific analyte list of PADEP Leaded/Unleaded Gasoline and No. 2, 4, 5, and 6 Fuel Oil Shortlist. Run Naphthalene using Method 8270 ONLY!! Email results to edd@terraphase.com, William.Schmidt@ransomenv.com, and jjeray@hilcoglobal.com

SAMPLE HANDLING
Filtration
☐ Done
☒ Not Needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs (8260)	SVOCs (8270)	Lead	Benzene (8260B)	Sample Specific Comments	TOTAL # BOTTLES
62687-01	DRA2-SB23-4.0-4.5	11/8	1400	S	TS	☐	☐	☐	☒		4
-02	DRA2-SB24-4.0-4.5		1410			☐	☐	☐	☒		2
-03	DRA2-SB25-1.5-2.0		1420			☐	☐	☐	☒		4
-04	DRA2-SB26-6.5-7.0		1430			☐	☐	☐	☒		2
-05	DRA2-SB27-6.5-7.0		1440			☐	☐	☐	☒		4
-06	DRA2-SB28-0.0-0.5		1450			☐	☐	☐	☒		2
-07	DRA2-SB29-5.5-6.0		1500			☐	☐	☐	☒		4
-08	DRA2-SB-30-2.0-2.5		1510			☐	☐	☐	☒		2
						☐	☐	☐	☐		4
						☐	☐	☐	☐		2

	VOCs (8260)	SVOCs (8270)	Lead
Container Type	G	G	G
Preservative	F	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	11/8 1520	[signature]	11/8/22 1520
[signature] AAL	11/8/22 1800	[signature]	11-9 1800

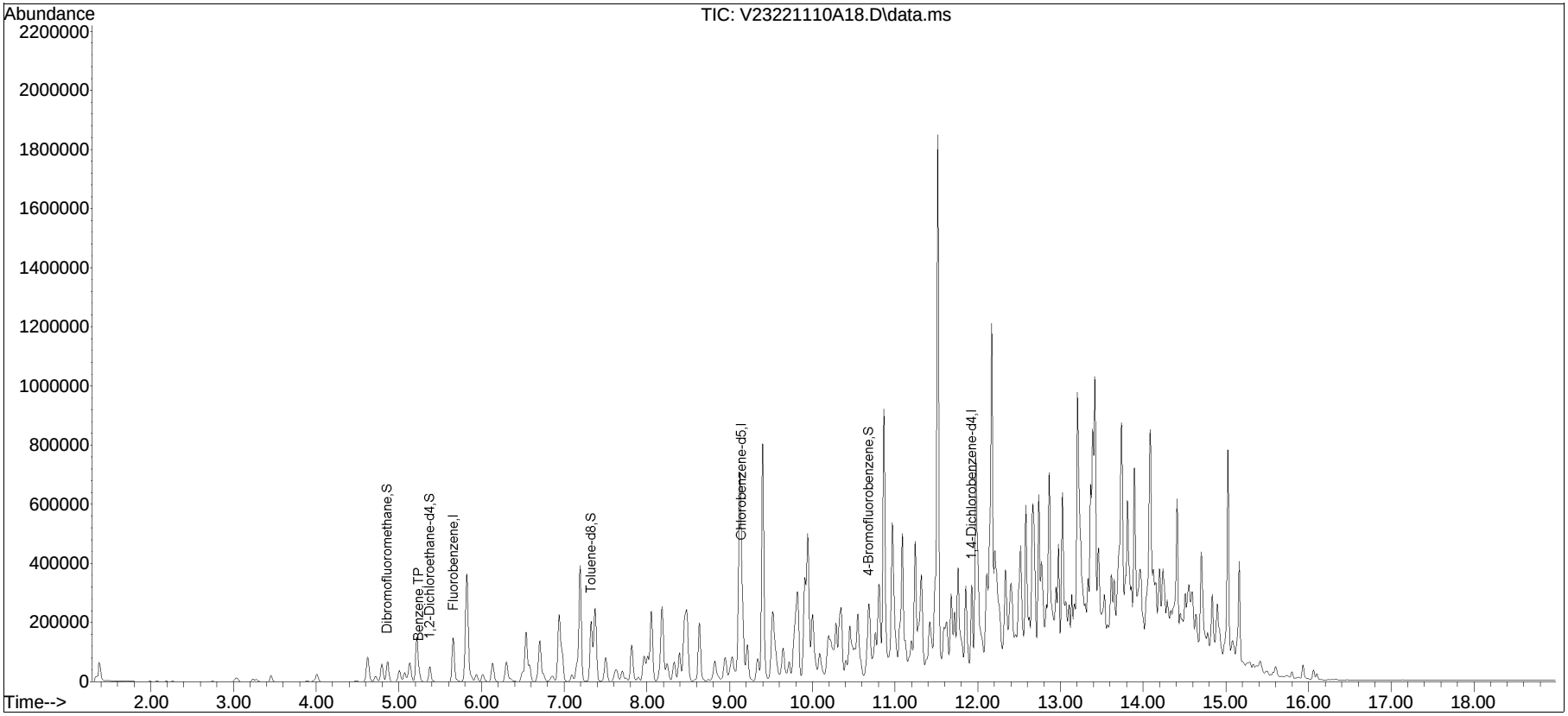
Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2022\221110A\
Data File : V23221110A18.D
Acq On : 10 Nov 2022 02:56 pm
Operator : VOA123:JIC
Sample : l2262687-08,31,5.66,5,,b,r2f
Misc : WG1711188,ICAL19289
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 11 10:47:05 2022
Quant Method : I:\VOLATILES\VOA123\2022\221110A\V123_220825N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Aug 26 09:12:14 2022
Response via : Initial Calibration

Sub List : 8260-Benzene - benzene only2\221110A\V23221110A01.D•



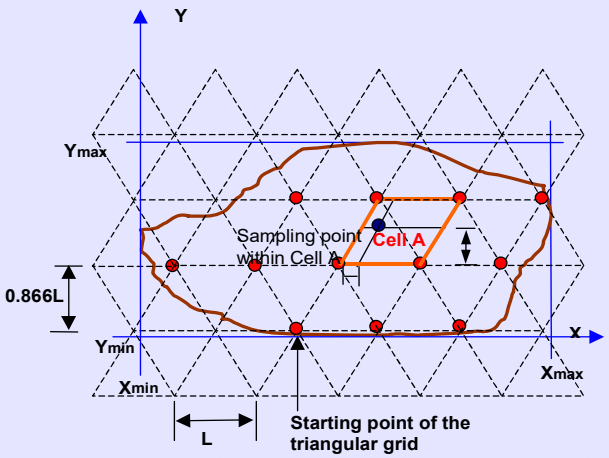
Appendix G

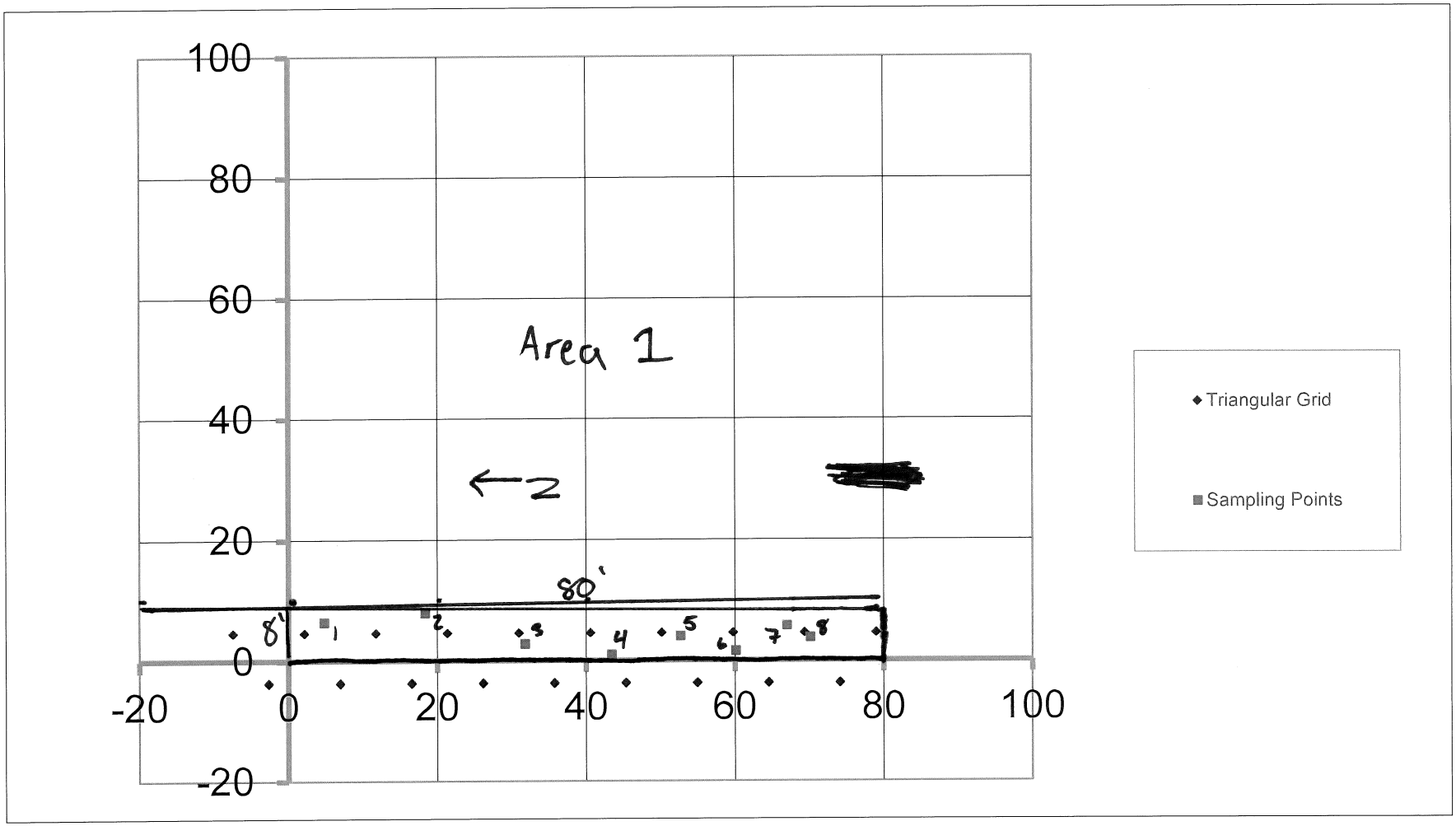
Systematic Random Sampling Grid

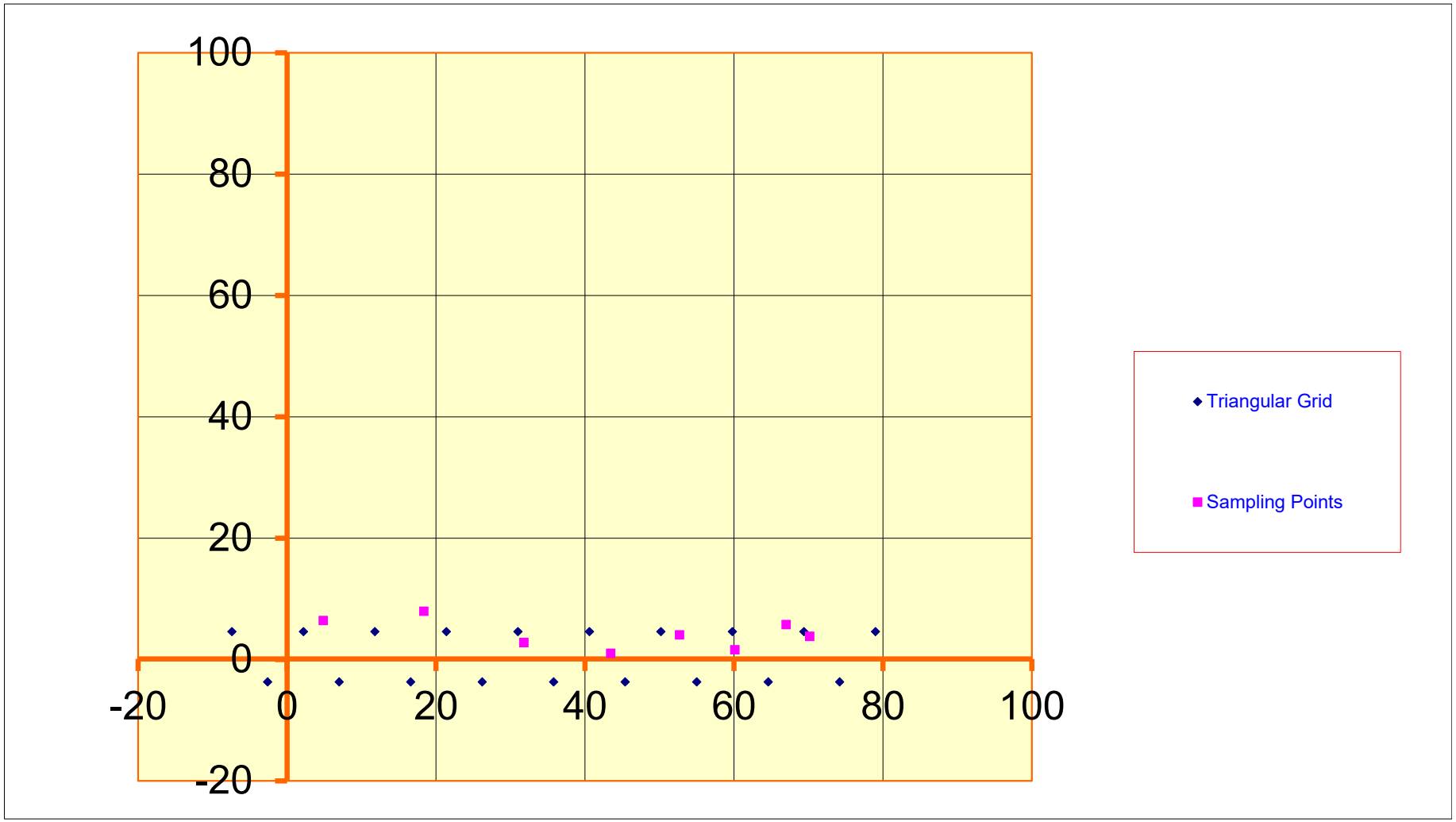
Systematic Random Sampling Workbook

Area of Contamination (Sq. feet.):	640	
Depth Zone (feet.):	0	- 0
Volume of Contaminated Soil (Cubic Yards):	2.5	
Number of Soil Samples: (If you are applying 75%/10X or 75%/2X rule, the spreadsheet will determine the minimum number of samples for you. Otherwise, please specify the number of samples here. **Limitations: The maximum number of samples per row is ten. The maximum number of rows is ten.**=======>)		
Number of Soil Samples:	8	
L= Cell Spacing (feet):	9.6	
0.866*L(feet):	8.3	
X_{min} (feet):	0	
X_{max} (feet):	80.1	
Y_{min} (feet):	0	
Y_{max} (feet):	8.1	
X_o (feet):	50.2	
Y_o (feet):	4.6	

Example




100
80
60
40
20
0
-20
-20
0
20
40
60
80
100
Area 1
←2
80'
8'
1
2
3
4
5
6
7
8
Triangular Grid
Sampling Points


100
80
60
40
20
0
-20
-20
0
20
40
60
80
100
Triangular Grid
Sampling Points

Triangular Grid Node Coordinate Pairs

	0th Row (Xi, Yi)	
	-7.4	4.6
	2.2	4.6
	11.8	4.6
	21.4	4.6
	31	4.6
	40.6	4.6
Starting Point ---->	50.2	4.6
	59.8	4.6
	69.4	4.6
	79	4.6

1st Row (Xi, Yi)

-1st Row (Xi, Yi)	
-2.6	-3.7
7	-3.7
16.6	-3.7
26.2	-3.7
35.8	-3.7
45.4	-3.7
55	-3.7
64.6	-3.7
74.2	-3.7

2nd Row **(Xi, Yi)**	3rd Row **(Xi, Yi)**	4th R **(Xi,**
-2nd Row **(Xi, Yi)**	-3rd Row **(Xi, Yi)**	-4th **(Xi,**

Row **Yi)**	5th Row **(Xi, Yi)**	6th Row **(Xi, Yi)**
Row **Yi)**	-5th Row **(Xi, Yi)**	-6th Row **(Xi, Yi)**

7th Row **(Xi, Yi)**	8th Row **(Xi, Yi)**
-7th Row **(Xi, Yi)**	-8th Row **(Xi, Yi)**

9th Row **(Xi, Yi)**	10th Row **(Xi, Yi)**
-9th Row **(Xi, Yi)**	-10th Row **(Xi, Yi)**

Coordinates of 3-D Systematic Random Sampling Points

Note: Sampling points that are not within the area of contamination should

0th Row		
Xi,	Yi	Zi
4.9	6.4	0.0
18.4	7.9	0.0
67.0	5.8	0.0

1st Row	
Xi,	Yi

-1st Row	
Xi,	Yi
31.8	2.8
43.5	1.0
52.7	4.0
60.1	1.6
70.2	3.8

d be discarded. You will need to generate another group of data sets if the numbe

Zi

2nd Row		
Xi,	Yi	Zi

3rd Row	
Xi,	Yi

Zi
0.0
0.0
0.0
0.0
0.0

-2nd Row		
Xi,	Yi	Zi

-3rd Row	
Xi,	Yi

er of valid data sets in a group is less than the minimum number of samples

Zi

4th Row		
Xi,	Yi	Zi

Xi,

Zi

-4th Row		
Xi,	Yi	Zi

Xi,

s otherwise required.

5th Row	
Yi	Zi

6th Row		
Xi,	Yi	Zi

Xi,	

-5th Row	
Yi	Zi

-6th Row		
Xi,	Yi	Zi

Xi,	

7th Row	
Yi	**Zi**

8th Row		
Xi,	**Yi**	**Zi**

-7th Row	
Yi	**Zi**

-8th Row		
Xi,	**Yi**	**Zi**

9th Row		
Xi,	**Yi**	**Zi**

10th Row		
Xi,	**Yi**	**Zi**

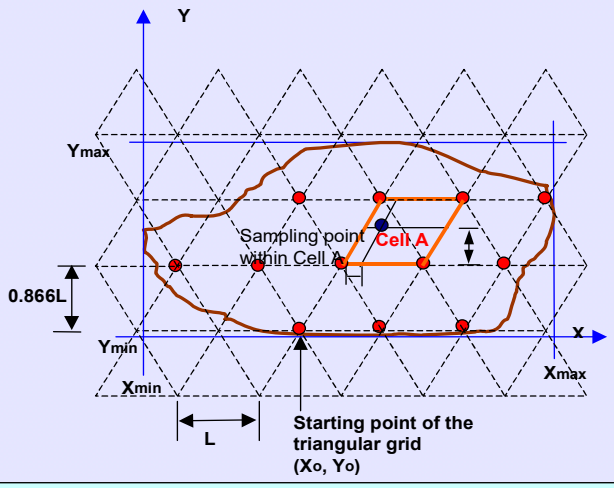
-9th Row		
Xi,	**Yi**	**Zi**

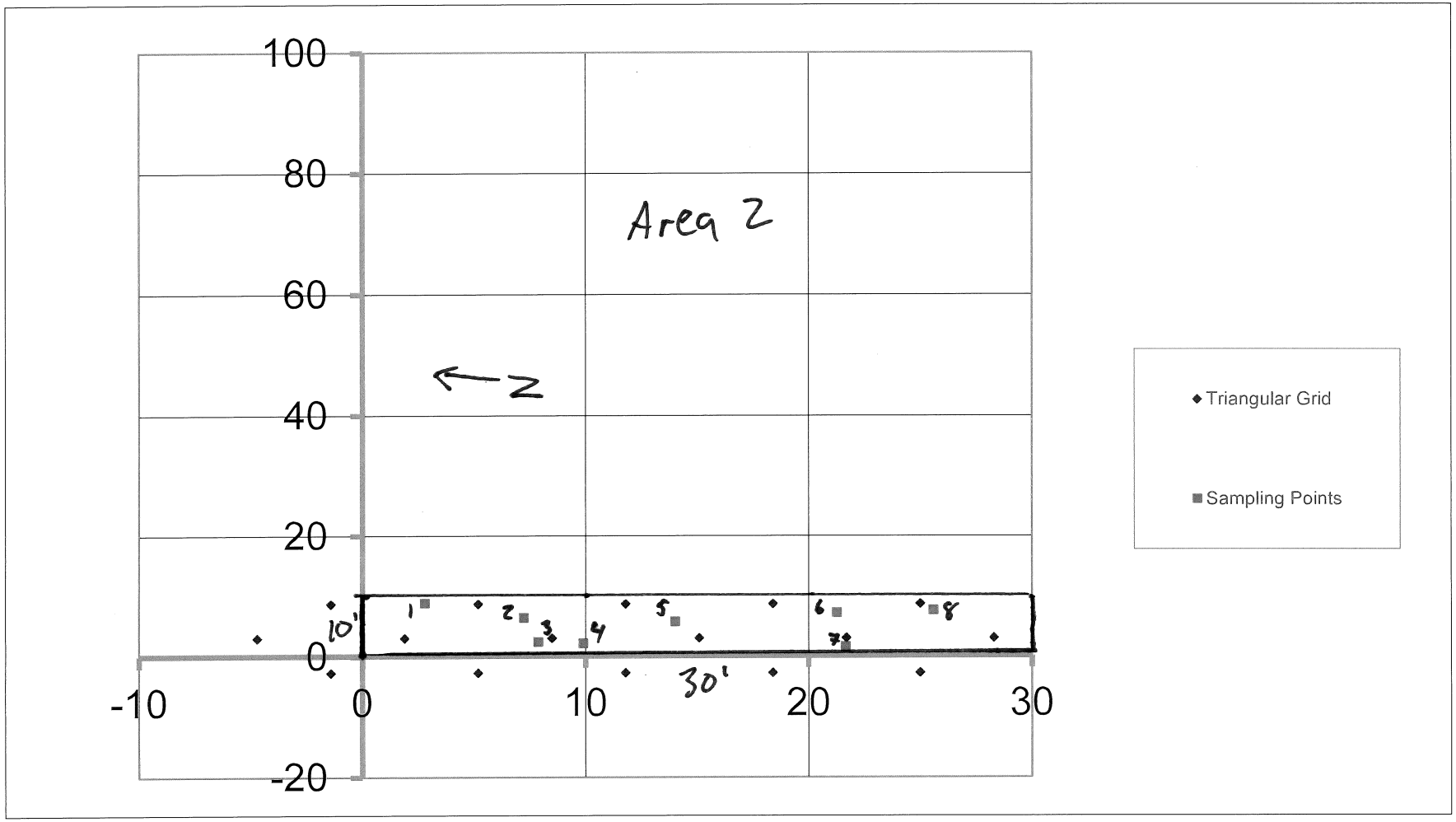
-10th Row		
Xi,	**Yi**	**Zi**

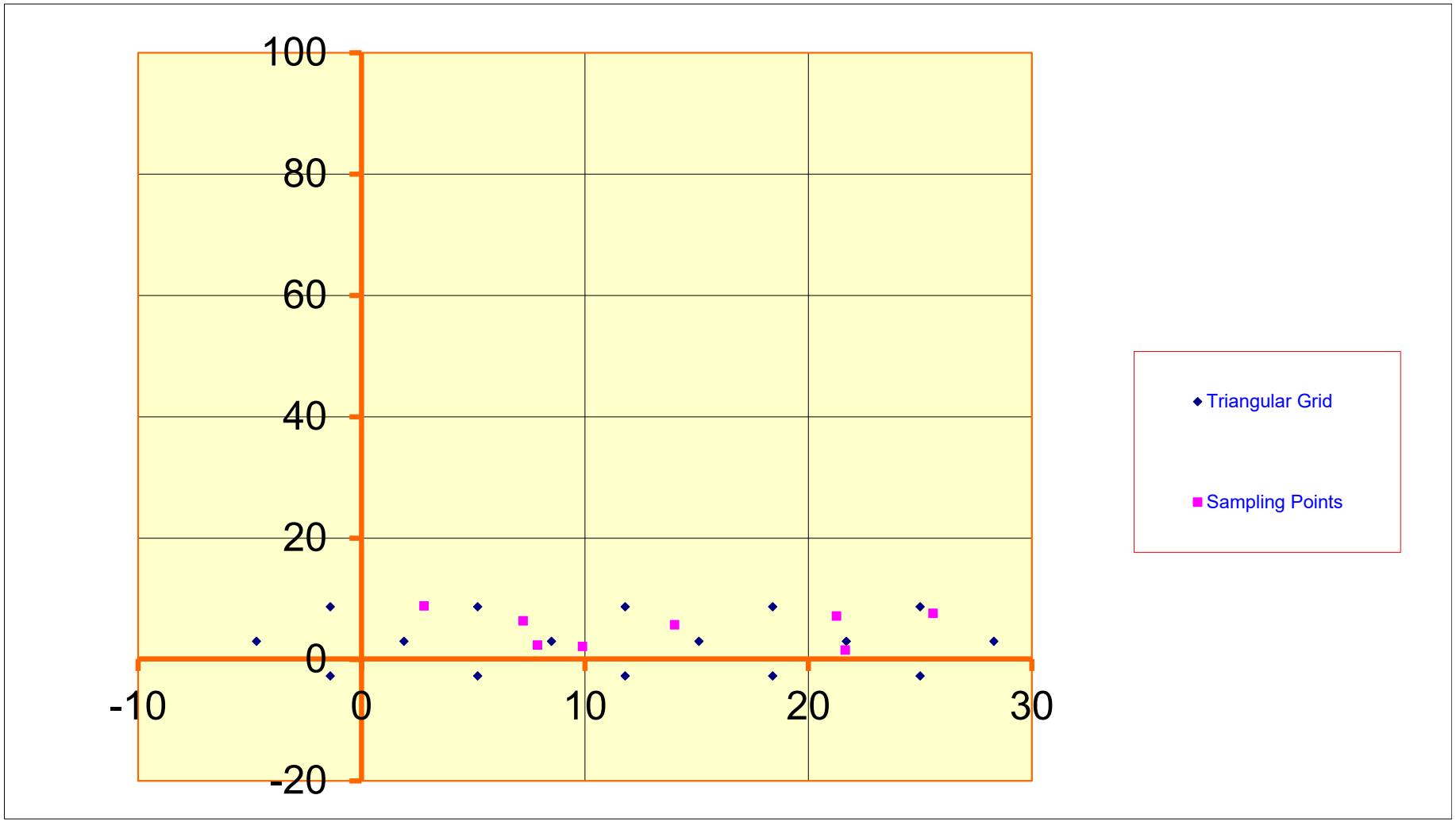
Systematic Random Sampling Workbook

Area of Contamination (Sq. feet.):	300	
Depth Zone (feet.):	0	- 0
Volume of Contaminated Soil (Cubic Yards):	1.4	
Number of Soil Samples: (If you are applying 75%/10X or 75%/2X rule, the spreadsheet will determine the minimum number of samples for you. Otherwise, please specify the number of samples here. **Limitations: The maximum number of samples per row is ten. The maximum number of rows is ten.**=======>)		
Number of Soil Samples:	8	
L= Cell Spacing (feet):	6.6	
0.866*L(feet):	5.7	
X_{min} (feet):	0	
X_{max} (feet):	30.1	
Y_{min} (feet):	0	
Y_{max} (feet):	10.1	
X_o (feet):	5.2	
Y_o (feet):	8.7	

Example




100
80
60
40
20
0
-20
-10
0
10
20
30
Area 2
N
10'
30'
1
2
3
4
5
6
7
8
Triangular Grid
Sampling Points


100
80
60
40
20
0
-20
-10
0
10
20
30
Triangular Grid
Sampling Points

Triangular Grid Node Coordinate Pairs

	0th Row (Xi, Yi)	
	-1.4	8.7
Starting Point ---->	5.2	8.7
	11.8	8.7
	18.4	8.7
	25	8.7

1st Row (Xi, Yi)	

-1st Row (Xi, Yi)	
-4.7	3
1.9	3
8.5	3
15.1	3
21.7	3
28.3	3

2nd Row **(Xi, Yi)**	3rd Row **(Xi, Yi)**	4th R **(Xi,**

-2nd Row **(Xi, Yi)**		-3rd Row **(Xi, Yi)**	-4th **(Xi,**
-1.4	-2.7		
5.2	-2.7		
11.8	-2.7		
18.4	-2.7		
25	-2.7		

Coordinates of 3-D Systematic Random Sampling Points

Note: Sampling points that are not within the area of contamination should

0th Row		
Xi,	Yi	Zi
2.8	8.8	0.0

1st Row	
Xi,	Yi

-1st Row	
Xi,	Yi
7.2	6.4
14.0	5.7
21.3	7.2
25.6	7.6

d be discarded. You will need to generate another group of data sets if the numbe

Zi

2nd Row		
Xi,	Yi	Zi

3rd Row	
Xi,	Yi

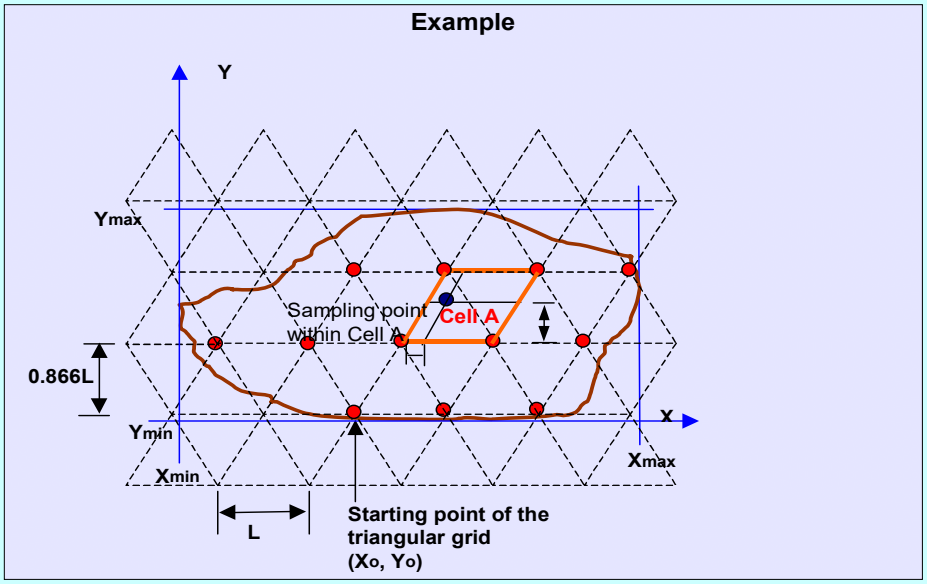
Zi
0.0
0.0
0.0
0.0

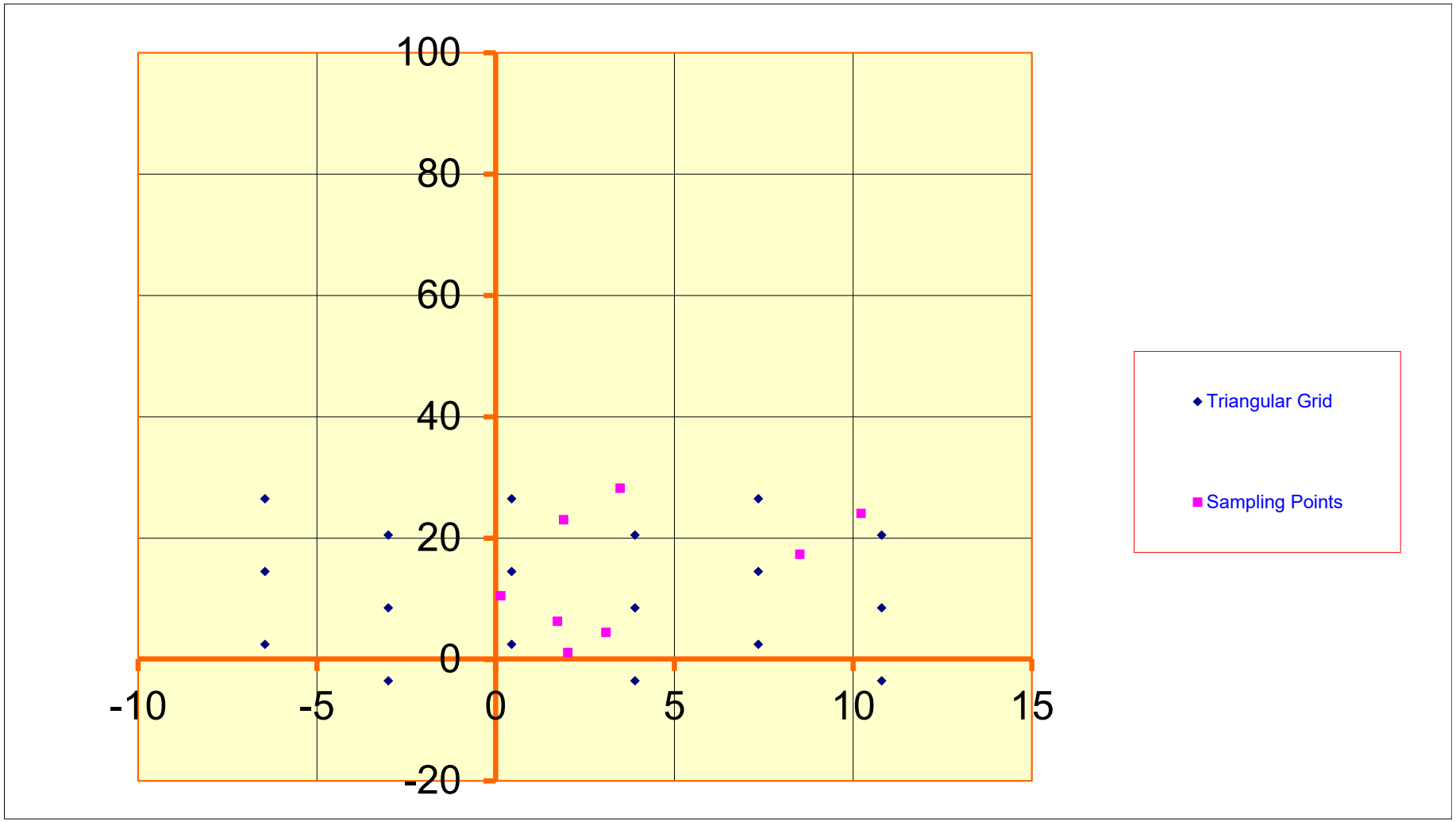
-2nd Row		
Xi,	Yi	Zi
7.9	2.4	0.0
9.9	2.1	0.0
21.7	1.6	0.0

-3rd Row	
Xi,	Yi

Systematic Random Sampling Workbook

Area of Contamination (Sq. feet.):	330	
Depth Zone (feet.):	0	- 0
Volume of Contaminated Soil (Cubic Yards):	18	
Number of Soil Samples: (If you are applying 75%/10X or 75%/2X rule, the spreadsheet will determine the minimum number of samples for you. Otherwise, please specify the number of samples here. **Limitations: The maximum number of samples per row is ten. The maximum number of rows is ten.**======>)		
Number of Soil Samples:	8	
L= Cell Spacing (feet):	6.9	
0.866*L(feet):	6.0	
X_{min} (feet):	0	
X_{max} (feet):	11	
Y_{min} (feet):	0	
Y_{max} (feet):	30	
X_o (feet):	3.9	
Y_o (feet):	8.5	




100
80
60
40
20
0
-20
-10
-5
0
5
10
15
Triangular Grid
Sampling Points

Coordinates of 3-D Systematic Random Sampling Points

Note: Sampling points that are not within the area of contamination should

0th Row		
Xi,	Yi	Zi
0.1	10.5	0.0

1st Row	
Xi,	Yi
8.5	17.3

-1st Row	
Xi,	Yi
1.7	6.3
3.1	4.5

d be discarded. You will need to generate another group of data sets if the numbe

Zi
0.0

2nd Row		
Xi,	Yi	Zi
1.9	23.0	0.0
10.2	24.1	0.0

3rd Row	
Xi,	Yi
3.5	28.2

Zi
0.0
0.0

-2nd Row		
Xi,	Yi	Zi
2.0	1.1	0.0

-3rd Row	
Xi,	Yi

er of valid data sets in a group is less than the minimum number of samples

Zi
0.0

4th Row		
Xi,	Yi	Zi

Xi,

Zi

-4th Row		
Xi,	Yi	Zi

Xi,

s otherwise required.

5th Row	
Yi	Zi

6th Row		
Xi,	Yi	Zi

Xi,	

-5th Row	
Yi	Zi

-6th Row		
Xi,	Yi	Zi

Xi,	

7th Row	
Yi	**Zi**

8th Row		
Xi,	**Yi**	**Zi**

-7th Row	
Yi	**Zi**

-8th Row		
Xi,	**Yi**	**Zi**

9th Row		
Xi,	**Yi**	**Zi**

10th Row		
Xi,	**Yi**	**Zi**

-9th Row		
Xi,	**Yi**	**Zi**

-10th Row		
Xi,	**Yi**	**Zi**

Triangular Grid Node Coordinate Pairs

	0th Row (Xi, Yi)	
	-3	8.5
Starting Point ---->	3.9	8.5
	10.8	8.5

1st Row (Xi, Yi)	
-6.45	14.5
0.45	14.5
7.35	14.5

-1st Row (Xi, Yi)	
-6.45	2.5
0.45	2.5
7.35	2.5

2nd Row (Xi, Yi)	
-3	20.5
3.9	20.5
10.8	20.5

3rd Row (Xi, Yi)	
-6.45	26.5
0.45	26.5
7.35	26.5

4th R (Xi,

-2nd Row (Xi, Yi)	
-3	-3.5
3.9	-3.5
10.8	-3.5

-3rd Row (Xi, Yi)

-4th (Xi,

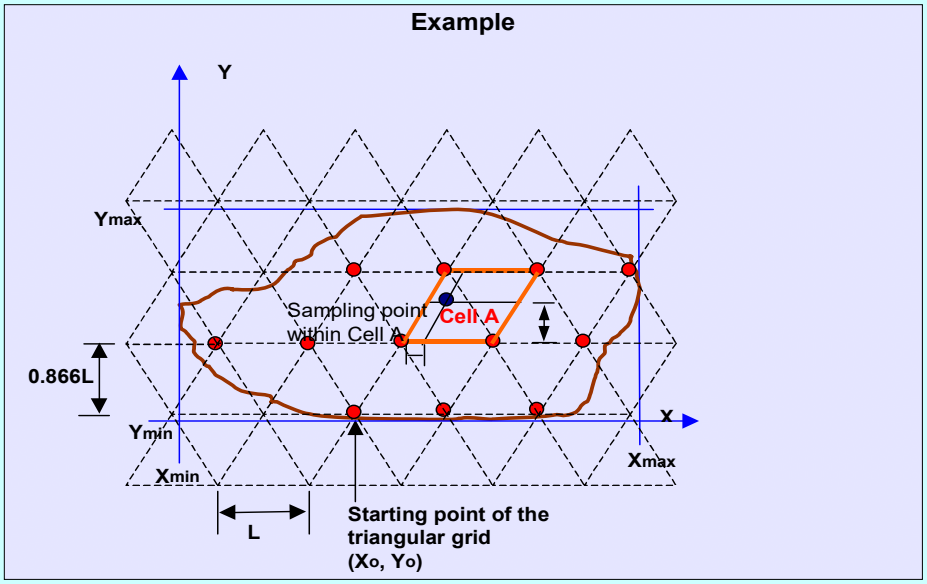
Row **Yi)**	5th Row **(Xi, Yi)**	6th Row **(Xi, Yi)**
Row **Yi)**	-5th Row **(Xi, Yi)**	-6th Row **(Xi, Yi)**

7th Row **(Xi, Yi)**	8th Row **(Xi, Yi)**
-7th Row **(Xi, Yi)**	-8th Row **(Xi, Yi)**

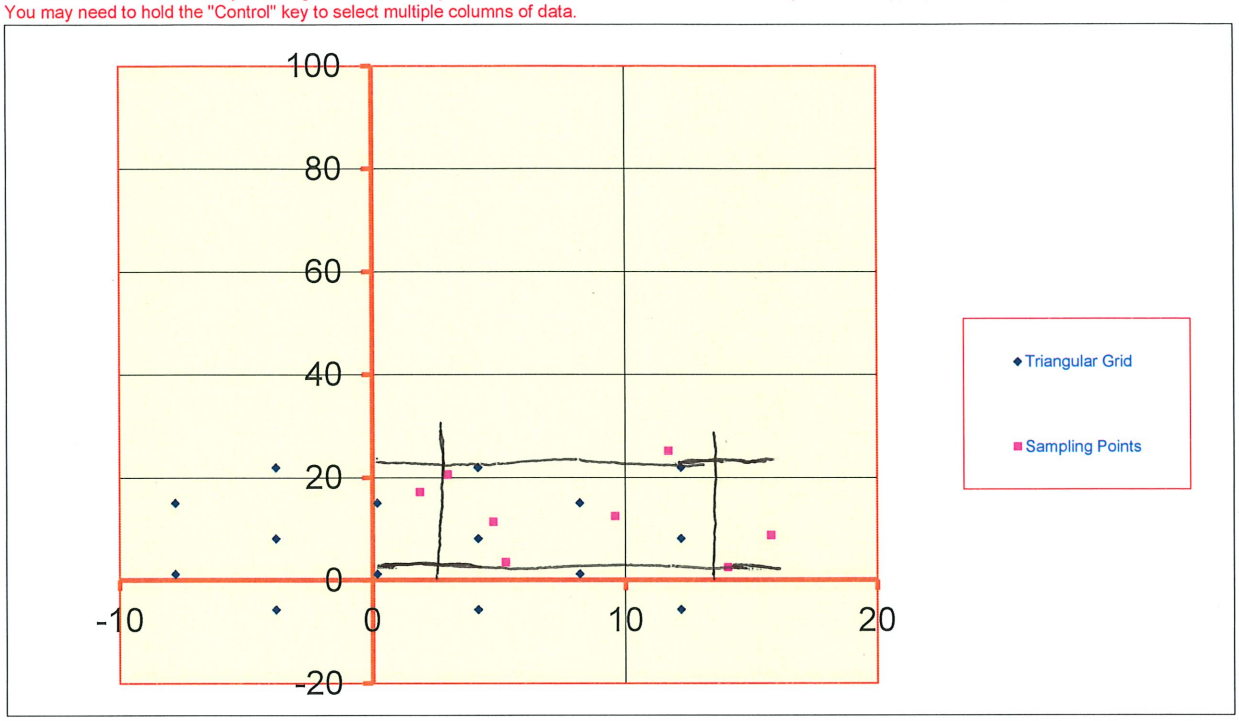
9th Row **(Xi, Yi)**	10th Row **(Xi, Yi)**
-9th Row **(Xi, Yi)**	-10th Row **(Xi, Yi)**

Systematic Random Sampling Workbook

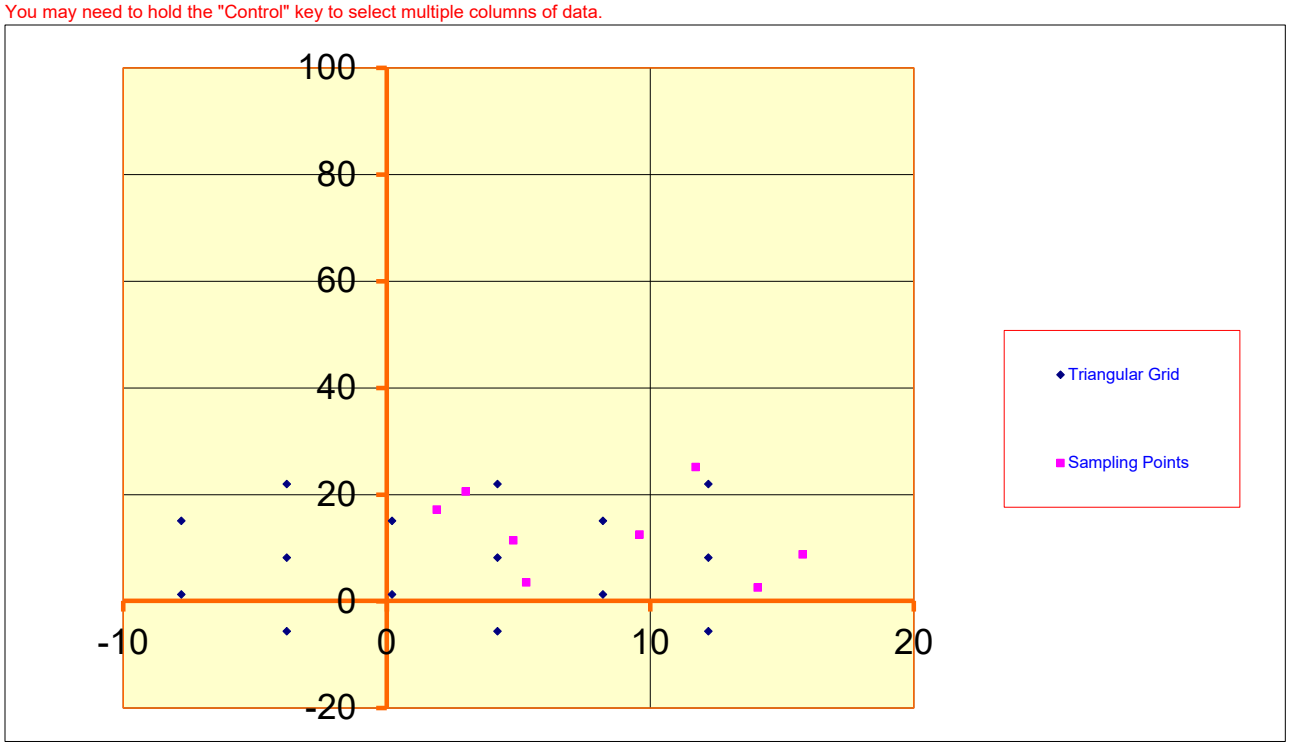
Area of Contamination (Sq. feet.):	220	
Depth Zone (feet.):	0	- 0
Volume of Contaminated Soil (Cubic Yards):	24.5	
Number of Soil Samples: (If you are applying 75%/10X or 75%/2X rule, the spreadsheet will determine the minimum number of samples for you. Otherwise, please specify the number of samples here. **Limitations: The maximum number of samples per row is ten. The maximum number of rows is ten.**======>)		
Number of Soil Samples:	8	
L= Cell Spacing (feet):	5.6	
0.866*L(feet):	4.8	
X_{min} (feet):	0	
X_{max} (feet):	16	
Y_{min} (feet):	0	
Y_{max} (feet):	28	
X_o (feet):	10.2	
Y_o (feet):	16.7	



Note: The 'Source Data' may need to be adjusted manually in order to allow the triangular grid pattern and sampling points to appear.
Move the mouse pointer to the center of the plot area and then right-click the mouse. Select 'Source Data' from the menu.
Select 'Series' tab. Click collapse dialog buttons at the right end of X Values and Y Values boxes to adjust for the appropriate ranges of source data.
You may need to hold the "Control" key to select multiple columns of data.

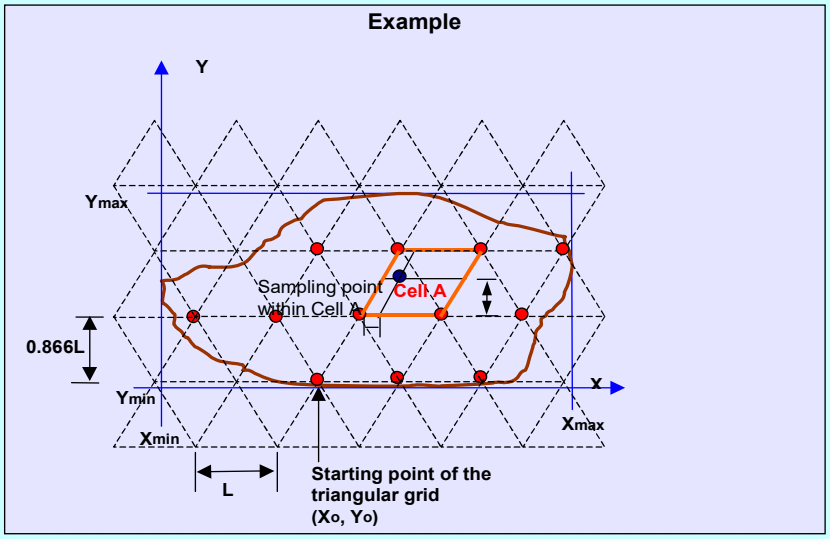


Note: The 'Source Data' may need to be adjusted manually in order to allow the triangular grid pattern and sampling points to appear.
Move the mouse pointer to the center of the plot area and then right-click the mouse. Select 'Source Data' from the menu.
Select 'Series' tab. Click collapse dialog buttons at the right end of X Values and Y Values boxes to adjust for the appropriate ranges of source data.
You may need to hold the "Control" key to select multiple columns of data.

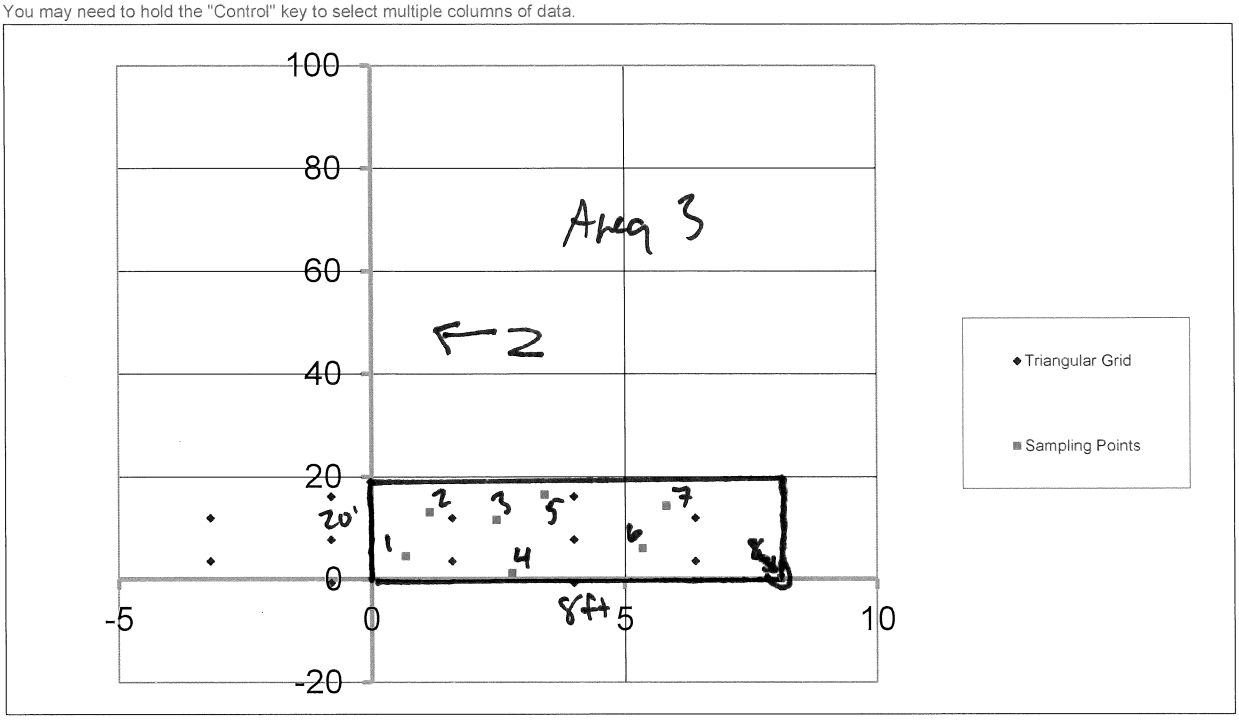


Systematic Random Sampling Workbook

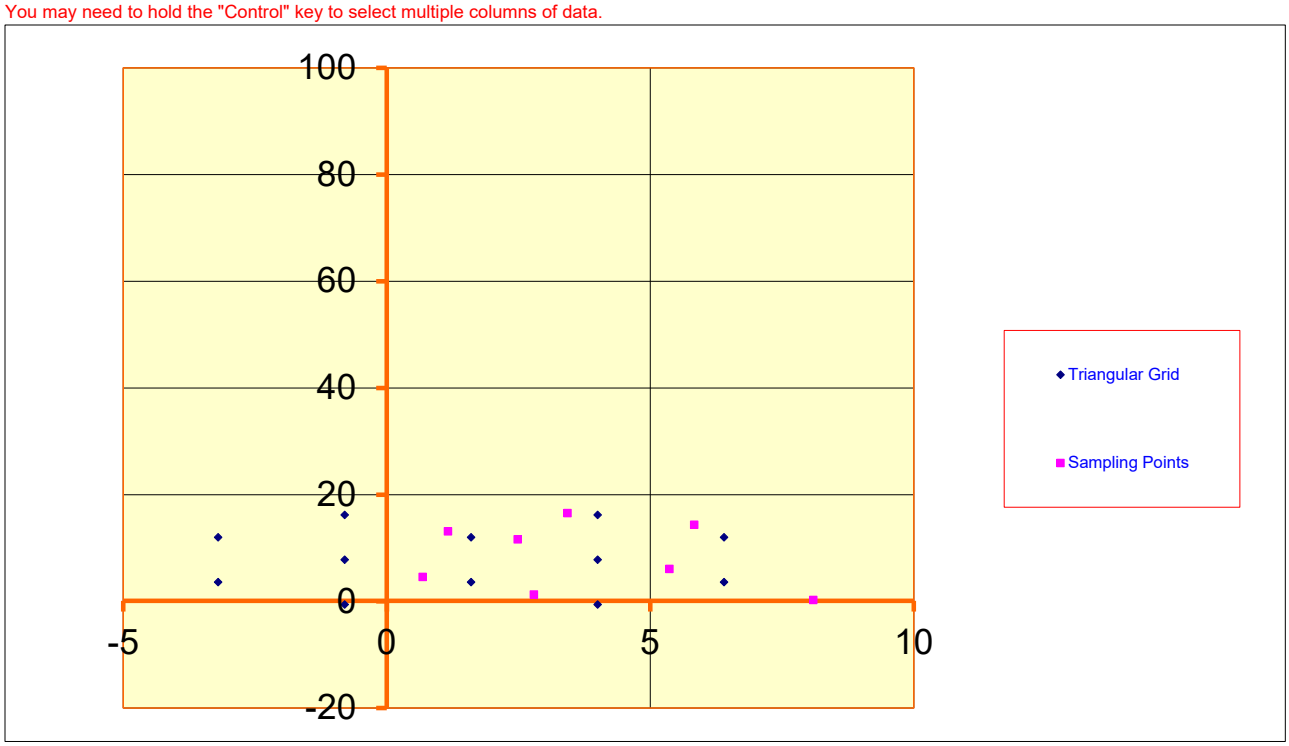
Area of Contamination (Sq. feet.):	160	
Depth Zone (feet.):	0	- 0
Volume of Contaminated Soil (Cubic Yards):	1.73	
Number of Soil Samples: (If you are applying 75%/10X or 75%/2X rule, the spreadsheet will determine the minimum number of samples for you. Otherwise, please specify the number of samples here. **Limitations: The maximum number of samples per row is ten. The maximum number of rows is ten.**=======>)		
Number of Soil Samples:	8	
L= Cell Spacing (feet):	4.8	
0.866*L(feet):	4.2	
X_{min} (feet):	0	
X_{max} (feet):	8.1	
Y_{min} (feet):	0	
Y_{max} (feet):	20.1	
X_o (feet):	1.6	
Y_o (feet):	12.0	



Note: The 'Source Data' may need to be adjusted manually in order to allow the triangular grid pattern and sampling points to appear.
Move the mouse pointer to the center of the plot area and then right-click the mouse. Select 'Source Data' from the menu.
Select 'Series' tab. Click collapse dialog buttons at the right end of X Values and Y Values boxes to adjust for the appropriate ranges of source data.
You may need to hold the "Control" key to select multiple columns of data.



Note: The 'Source Data' may need to be adjusted manually in order to allow the triangular grid pattern and sampling points to appear.
Move the mouse pointer to the center of the plot area and then right-click the mouse. Select 'Source Data' from the menu.
Select 'Series' tab. Click collapse dialog buttons at the right end of X Values and Y Values boxes to adjust for the appropriate ranges of source data.
You may need to hold the "Control" key to select multiple columns of data.



Triangular Grid Node Coordinate Pairs

	0th Row (Xi, Yi)	
	-3.2	12
Starting Point ---->	1.6	12
	6.4	12

1st Row (Xi, Yi)	
-0.8	16.2
4	16.2

-1st Row (Xi, Yi)	
-0.8	7.8
4	7.8

2nd Row **(Xi, Yi)**	3rd Row **(Xi, Yi)**	4th R **(Xi,**

-2nd Row **(Xi, Yi)**		-3rd Row **(Xi, Yi)**		-4th **(Xi,**
-3.2	3.6	-0.8	-0.6	
1.6	3.6	4	-0.6	
6.4	3.6			

Coordinates of 3-D Systematic Random Sampling Points

Note: Sampling points that are not within the area of contamination should

0th Row		
Xi,	Yi	Zi
1.2	13.1	0.0
5.8	14.3	0.0

1st Row	
Xi,	Yi
3.4	16.5

-1st Row	
Xi,	Yi
2.5	11.6

d be discarded. You will need to generate another group of data sets if the numbe

		2nd Row				3rd Row	
Zi		Xi,	Yi	Zi		Xi,	Yi
0.0							

		-2nd Row				-3rd Row	
Zi		Xi,	Yi	Zi		Xi,	Yi
0.0		0.7	4.6	0.0		2.8	1.3
		5.4	6.1	0.0		8.1	0.2

Appendix H

75%/10x Rule Calculations

Appendix H
Table 1a
Benzene Area 2 (First Post-Excavation)
Philadelphia Energy Solutions Refining and Marketing LLC, Philadelphia, PA

Location	Sample Name	Sample Date	Chemical	CASRN	Conc (mg/kg)	Qual	Limit (mg/kg)	Exposure Conc (mg/kg)	PADEP Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW (mg/kg)	Exceeds Criteria	Exceeds 10x Criteria
DRA2-SB01	DRA2-SB01	11/19/2021	Benzene	71-43-2	0.17	J	0.26	0.17	0.5	No	No
DRA2-SB02	DRA2-SB02	11/19/2021	Benzene	71-43-2		U	0.24	0.24	0.5	No	No
DRA2-SB03	DRA2-SB03	11/19/2021	Benzene	71-43-2	3.8		0.3	3.8	0.5	**Yes**	No
DRA2-SB04	DRA2-SB04	11/19/2021	Benzene	71-43-2	4.1		0.26	4.1	0.5	**Yes**	No
DRA2-SB05	DRA2-SB05	11/19/2021	Benzene	71-43-2	0.33		0.26	0.33	0.5	No	No
DRA2-SB06	DRA2-SB06	11/19/2021	Benzene	71-43-2		U	0.26	0.26	0.5	No	No
DRA2-SB07	DRA2-SB07	11/19/2021	Benzene	71-43-2	3.1		0.33	3.1	0.5	**Yes**	No
DRA2-SB08	DRA2-SB08	11/19/2021	Benzene	71-43-2	0.33		0.26	0.33	0.5	No	No

Percentage of Non-Exceeding Locations	63%
Number of Locations Exceeding 10x Criteria	0

Appendix H
Table 1b
Benzene Area 2 (Second Post-Excavation)
Philadelphia Energy Solutions Refining and Marketing LLC, Philadelphia, PA

Location	Sample Name	Sample Date	Chemical	CASRN	Conc (mg/kg)	Qual	Limit (mg/kg)	Exposure Conc (mg/kg)	PADEP Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW (mg/kg)	Exceeds Criteria	Exceeds 10x Criteria
DRA2-SB15	DRA2-SB15-0.5-1.0	5/17/2022	Benzene	71-43-2		U	0.0011	0.0011	0.5	No	No
DRA2-SB16	DRA2-SB16-0.5-1.0	5/17/2022	Benzene	71-43-2		U	0.0011	0.0011	0.5	No	No
DRA2-SB17	DRA2-SB17-1.5-2.0	5/17/2022	Benzene	71-43-2	1.2		0.12	1.2	0.5	**Yes**	No
DRA2-SB18	DRA2-SB18-1.5-2.0	5/17/2022	Benzene	71-43-2	0.44		0.001	0.44	0.5	No	No
DRA2-SB19	DRA2-SB19-1.5-2.0	5/17/2022	Benzene	71-43-2	3.4		0.11	3.4	0.5	**Yes**	No
DRA2-SB20	DRA2-SB20-0.5-1.0	5/17/2022	Benzene	71-43-2	80		1.2	80	0.5	**Yes**	**Yes**
DRA2-SB21	DRA2-SB21-1.5-2.0	5/17/2022	Benzene	71-43-2		U	0.001	0.001	0.5	No	No
DRA2-SB22	DRA2-SB22-0.0-0.5	5/17/2022	Benzene	71-43-2		U	0.0011	0.0011	0.5	No	No

Percentage of Non-Exceeding Locations	63%
Number of Locations Exceeding 10x Criteria	1

Appendix H
Table 1c
Benzene Area 2 (Third Post-Excavation)
Philadelphia Energy Solutions Refining and Marketing LLC, Philadelphia, PA

Location	Sample Name	Sample Date	Chemical	CASRN	Conc (mg/kg)	Qual	Limit (mg/kg)	Exposure Conc (mg/kg)	PADEP Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW (mg/kg)	Exceeds Criteria	Exceeds 10x Criteria	PADEP Non-Res Used Aquifer (TDS ≤ 2500) Soil-to-GW (mg/kg)	Exceeds Criteria	Exceeds 10x Criteria
DRA2-SB23	DRA2-SB23-4.0-4.5	11/8/2022	Benzene	71-43-2	0.0012		0.0005	0.0012	0.5	No	No	0.13	No	No
DRA2-SB24	DRA2-SB24-4.0-4.5	11/8/2022	Benzene	71-43-2	0.0078		0.00056	0.0078	0.5	No	No	0.13	No	No
DRA2-SB25	DRA2-SB25-1.5-2.0	11/8/2022	Benzene	71-43-2		U	0.00055	0.00055	0.5	No	No	0.13	No	No
DRA2-SB26	DRA2-SB26-6.5-7.0	11/8/2022	Benzene	71-43-2	0.0096		0.00052	0.0096	0.5	No	No	0.13	No	No
DRA2-SB27	DRA2-SB27-6.5-7.0	11/8/2022	Benzene	71-43-2	2.9		0.034	2.9	0.5	**Yes**	No	0.13	**Yes**	**Yes**
DRA2-SB28	DRA2-SB28-0.0-0.5	11/8/2022	Benzene	71-43-2	0.0022		0.00051	0.0022	0.5	No	No	0.13	No	No
DRA2-SB29	DRA2-SB29-5.5-6.0	11/8/2022	Benzene	71-43-2	1.6		0.04	1.6	0.5	**Yes**	No	0.13	**Yes**	**Yes**
DRA2-SB30	DRA2-SB30-2.0-2.5	11/8/2022	Benzene	71-43-2	0.0033		0.00053	0.0033	0.5	No	No	0.13	No	No

Percentage of Non-Exceeding Locations	75%
Number of Locations Exceeding 10x Criteria	0

Appendix I

Public Involvement Plan Documentation

DRAFT

Public Involvement Plan

Pipeline Release PB 881 Dike Roadway (eFacts 856437)
Former Philadelphia Energy Solutions Refinery
3144 West Passyunk Avenue, Philadelphia, Pennsylvania

Prepared for

Philadelphia Energy Solutions Refining and Marketing LLC
3144 West Passyunk Avenue
Philadelphia, Pennsylvania

Prepared by

Terraphase Engineering Inc.
100 Canal Pointe Boulevard, Suite 110
Princeton, New Jersey 08540

November 2023

Project Number P044.001.005

This document is a draft and the information contained herein is subject to change. It should not be relied upon; consult the final document.

File: Document3

terraphase engineering

1 Public Involvement Plan

In accordance with the requirements of *Pennsylvania Code* Title 25, Chapter 250, entitled Administration of the Land Recycling Program (Act 2), and on behalf of Philadelphia Energy Solutions Refining and Marketing LLC (PESRM), Terraphase Engineering Inc. (Terraphase) has prepared this Public Involvement Plan (PIP) to address the requirements for remediation completed under the Act 2 Program. The PIP has been developed for use in support of a release area west of tank PB 881 (herein referred to as the "Dike Roadway Act 2 Site") at the former Philadelphia Energy Solutions (PES) Refinery (the "Facility") located 3144 West Passyunk Avenue, Philadelphia, Philadelphia County, Pennsylvania, for which PESRM is working to pursue liability protection under Act 2 via the Site-Specific Standard (SSS).

This PIP has been developed to meet requirements for public involvement when attaining the SSS. The City of Philadelphia has requested this PIP following the submittal of the Notice of Intent to Remediate (NIR) on June 20, 2023 for the Dike Roadway Act 2 Site. Although the NIR indicated that PESRM intended to remediate soil at the Site to attain the SSS, further evaluation subsequent to the submission of this NIR indicated that the attainment soil sample data set demonstrates attainment of the SHS. While PESRM has modified its approach to instead remediate the area to attain the SHS, PESRM intends to comply with the City's original request for a PIP prior to submission of a Remedial Investigation/Final Report (RI/FR).

1.1 Objectives

The objective of this PIP is to facilitate involvement from the community in the environmental investigation, characterization, and remediation of the Dike Roadway Act 2 Site to the requirements under Act 2. This PIP was also created to outline proper procedures for community engagement and to create open communication between the Facility's contacts and involved parties in the community regarding the findings of investigations at the Site.

1.2 Regulations

Governance of this PIP is outlined in 25 Pa. Code § 250.6, and the Pennsylvania Land Recycling Program *Technical Guidance Manual* updated on March 27, 2021 (Section II.A.3(c)). As stated in the regulations, when a PIP is requested by the municipality, the remediator must, at a minimum, include the following measures:

1. Provide public access at convenient locations for document review.
2. Designate a single contact person to address questions from the community.
3. Use a location near the remediation site for any public hearings and meetings that may be part of the PIP.

1.3 Public Notices

PESRM will issue public notice to the Department of Public Health (in writing), to inform the community 30 days in advance of the public information session. The notice will indicate the date, time, and location of the public information session as well as information regarding access to copies of the RI/FR for public review.

Comments and questions can be submitted directly to Julianna Connolly (via email address jconnolly@hilcoglobal.com) for 30 days prior to the meeting.

1.3.1 Availability of Documents

Prior to the 30-days advance notice of the public information session, a copy of the RI/FR will be made available for public review and comment. Copies of the RI/FR will be available online and in hard copy form, available at two branches of the Free Library of Philadelphia closest to the Facility as follows:

- **Thomas F. Donatucci, Sr. Library** – 1935 W Shunk St, Philadelphia, PA 19145
  T: (215) 685-1755
  https://libwww.freelibrary.org/locations/thomas-f-donatucci-sr-library

- **Eastwick Library** – 2851 Island Ave, Philadelphia, PA 19153
  T: (215) 685-4170
  https://libwww.freelibrary.org/locations/eastwick-library

The 30-day public comment period will not begin until the RI/FR is posted, and copies are provided to the libraries. At the conclusion of the 30-day period, comments will no longer be accepted, PESRM will respond to the comments, address them publicly at the public information session, and submit the written responses with the reports to PADEP.

PESRM will maintain a public repository of documents, recordings of any public information sessions and questions, updates, and site activities for the Facility's redevelopment. Members of the public will be encouraged to visit this website for updates on the redevelopment as well as to review prior public information sessions. Copies of reports will be uploaded to this website https://www.thebellwetherdistrict.com/ for public review.

1.3.2 Public Information Session

PESRM will schedule and host a virtual public information session to provide a summary of the investigation and remediation activities, as well as to address any comments received from the community during the initial public comment period. In addition to providing written notice of the public information session to the Department of Public Health, PESRM will also post the notice on a website https://www.thebellwetherdistrict.com/ announcing the date, time, and the web link to attend the virtual session. The notice of the virtual public information session will be posted at least 30-days prior to allow interested parties to participate. This session will be recorded, and the recording will be made available to the public via a website.

The meeting will focus on the following:

- Identity, location and concentration of contaminants and hazardous substances found in sampling events at the site;
- Any potential health effects of those contaminants, based on locations and concentrations noted;
- Measures to be taken to protect the community, workers and recreation areas from possible exposure;
- Further definition of the remediation performed;
- Discussion of other specific procedures employed to prevent exposure to contaminants.
- Discussion of comments received during the 30-day public comment period.

Attachment A to this PIP will be prepared in the future (after the public information session) and provided to the PADEP with the Final RI/FR. This attachment will include copies of the presentation materials used during the public information session, the attendance lists, and will summarize the questions received during the public information session and PESRM's responses to the questions.

Attachment A

Summary of Public Information Session

January 12, 2024

Ms. Leigh Anne Rainford
Program Manager
Philadelphia Department of Public Health
Public Health Services
321 University Avenue, 2nd Floor
Philadelphia, PA 19104

sent via email to LeighAnne.Rainford@Phila.gov and UPS, Proof of Delivery Requested

Subject: **Notice of Public Information Session**
Former Philadelphia Energy Solutions Refinery
PB 881 Dike Roadway Release (0.025-Acre Area)
3144 West Passyunk Avenue, Philadelphia, PA 19153

Dear Ms. Rainford:

This letter provides notice that Philadelphia Energy Solutions Refining and Marketing LLC (PESRM) is informing the community of a public information session regarding the PB 881 Dike Roadway Release Area, a 0.025-acre area, located at the former Philadelphia Energy Solutions Refinery located at 3144 Passyunk Avenue in Philadelphia, Pennsylvania (the Site). PESRM has prepared a Remedial Investigation/Final Report for the PB 881 Dike Roadway Release Area, which will be submitted to the Pennsylvania Department of Environmental Protection (PADEP) Southeast Regional Office, following the public information session.

PESRM is hereby issuing public notice of a public information session to the Department of Health. The public information session will be held virtually on February 12, 2024 at 6:30 pm ET and can be accessed via this Zoom link: https://hilcoglobal.zoom.us/webinar/register/WN_MuNo3jG9RS-nOk16Rpyz-Q. PESRM will provide notice of the public information session and a link to access the virtual meeting at https://www.thebellwetherdistrict.com/. The notice of the virtual public information session has been posted at least 30-days prior to allow interested parties to participate. This session will be recorded, and the recording will be made available to the public via the website.

Beginning on January 12, 2024, copies of the Remedial Investigation/Final Report have been made available for public review and comment. Copies of the Remedial Investigation/Final Report are available online (https://www.thebellwetherdistrict.com/), and in hard copy form at two branches of the Free Library of Philadelphia closest to the Site as follows:

- ***Thomas F. Donatucci, Sr. Library*** – 1935 W Shunk St, Philadelphia, PA 19145
  T: (215) 685-1755
  https://libwww.freelibrary.org/locations/thomas-f-donatucci-sr-library
- ***Eastwick Library*** – *2851 Island Ave, Philadelphia, PA 19153*
  T: (215) 685-4170
  https://libwww.freelibrary.org/locations/eastwick-library

Public comments and questions can be submitted directly to Julianna Connolly (via email address jconnolly@hilcoglobal.com) for 30 days prior to the meeting. At the conclusion of the 30-day period, comments will no longer be accepted. PESRM will respond to any comments, address them publicly at the public information session, and submit the written responses with the report submitted to PADEP.

Should you have any questions or comments regarding this notice, please contact me at kevin.long@terraphase.com or 609-236-8171, ext. 93.

Sincerely,

for Terraphase Engineering Inc.

Kevin L. Long
Principal Consultant

KL:cs

cc: Julianna Connolly (jconnolly@hilcoglobal.com)
Amy Piccone (apiccone@hilcoglobal.com)

From: Rachel Weaver
To: Mia Civitillo; Kevin Long; Nick Scala; Christine Schumann
Subject: FW: UPS Delivery Notification, Tracking Number 1Z75YA670128182844
Date: Friday, January 12, 2024 9:57:12 AM

Rachel Weaver (Whitson)
O: 609.375.8880 ext. 134 | C: 423.483.5574
rachel.weaver@terraphase.com

From: UPS <pkginfo@ups.com>
Sent: Friday, January 12, 2024 9:56 AM
To: Rachel Weaver <rachel.weaver@terraphase.com>
Subject: UPS Delivery Notification, Tracking Number 1Z75YA670128182844

Hello, your package has been delivered.

Delivery Date: Friday, 01/12/2024
Delivery Time: 9:46 AM
Signed by: LIBRARY

TERRAPHASE ENGINEERING

Tracking Number:	1Z75YA670128182844
Ship To:	EASTWICK LIBRARY 2851 ISLAND AVENUE PHILADELPHIA, PA 19153 US
Number of Packages:	1
UPS Service:	UPS Next Day Air®
Package Weight:	3.0 LBS
Reference Number:	P044.001.005_SCALA/LONG

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From: Rachel Weaver
To: Kevin Long; Nick Scala; Mia Civitillo; Christine Schumann
Subject: FW: UPS Delivery Notification, Tracking Number 1Z75YA670139527639
Date: Friday, January 12, 2024 9:50:17 AM

Rachel Weaver (Whitson)
O: 609.375.8880 ext. 134 | C: 423.483.5574
rachel.weaver@terraphase.com

From: UPS <pkginfo@ups.com>
Sent: Friday, January 12, 2024 9:49 AM
To: Rachel Weaver <rachel.weaver@terraphase.com>
Subject: UPS Delivery Notification, Tracking Number 1Z75YA670139527639

Hello, your package has been delivered.

Delivery Date: Friday, 01/12/2024
Delivery Time: 9:46 AM
Signed by: LIBRARY

TERRAPHASE ENGINEERING

Tracking Number:	1Z75YA670139527639
Ship To:	THOMAS F. DONATUCCI, SR. LIBRARY 1935 WEST SHUNK STREET PHILADELPHIA, PA 19145 US
Number of Packages:	1
UPS Service:	UPS Next Day Air®
Package Weight:	3.0 LBS
Reference Number:	P044.001.005_SCALA/LONG

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January 12, 2024

Register to Attend : The Bellwether District Act 2 Public Meeting – PB 881 Dike Roadway Pipeline Release Final Report

Leasing

Event

February 12, 2024

The Bellwether District Act 2 Public Meeting - PB 881 Dike Roadway Pipeline Release Final Report

Former Aboveground Storage Tank PB-881 Dike Roadway Release

Remedial Investigation and Final Report (Public Information Session)

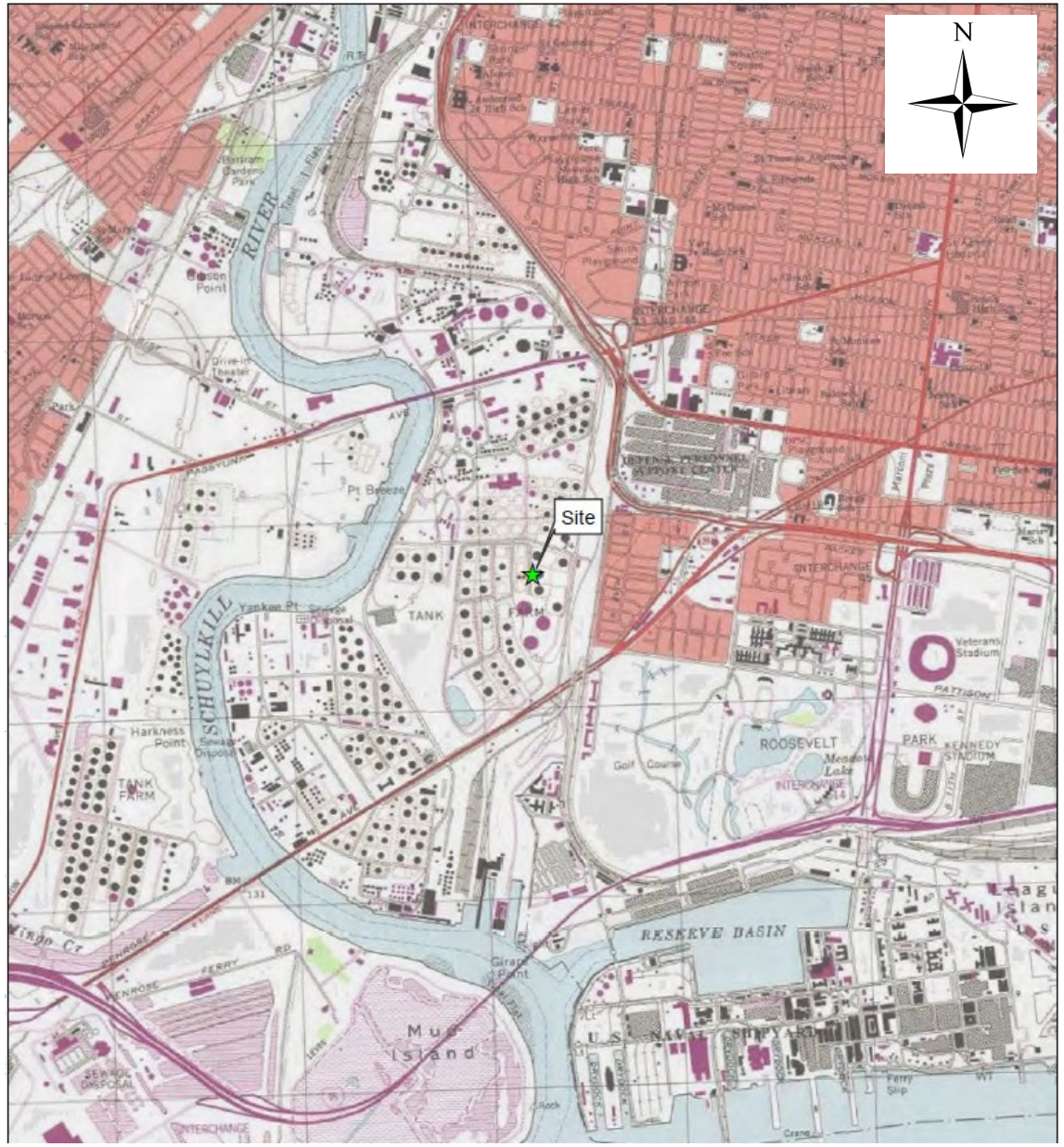
Former Philadelphia Energy Solutions Refinery, Facility ID No. 51-33620
Philadelphia Energy Solutions Refining and Marketing LLC (PESRM)
3144 West Passyunk Avenue, Philadelphia, Pennsylvania

Presented by:
Kevin Long (Principal Consultant) & Rachel Weaver (Sr. Project Consultant)
Terraphase Engineering Inc.

February 12, 2024

PB-881 Dike Roadway Release
Incident Summary

- November 16, 2021
- Removal of **overhead pipelines** west of tank PB-881
- Pipelines previously used to transfer **crude oil** during refinery operation
- **Out-of-service** for more than 10 years



USGS Philadelphia (1995) 7.5 Minute Quadrangle

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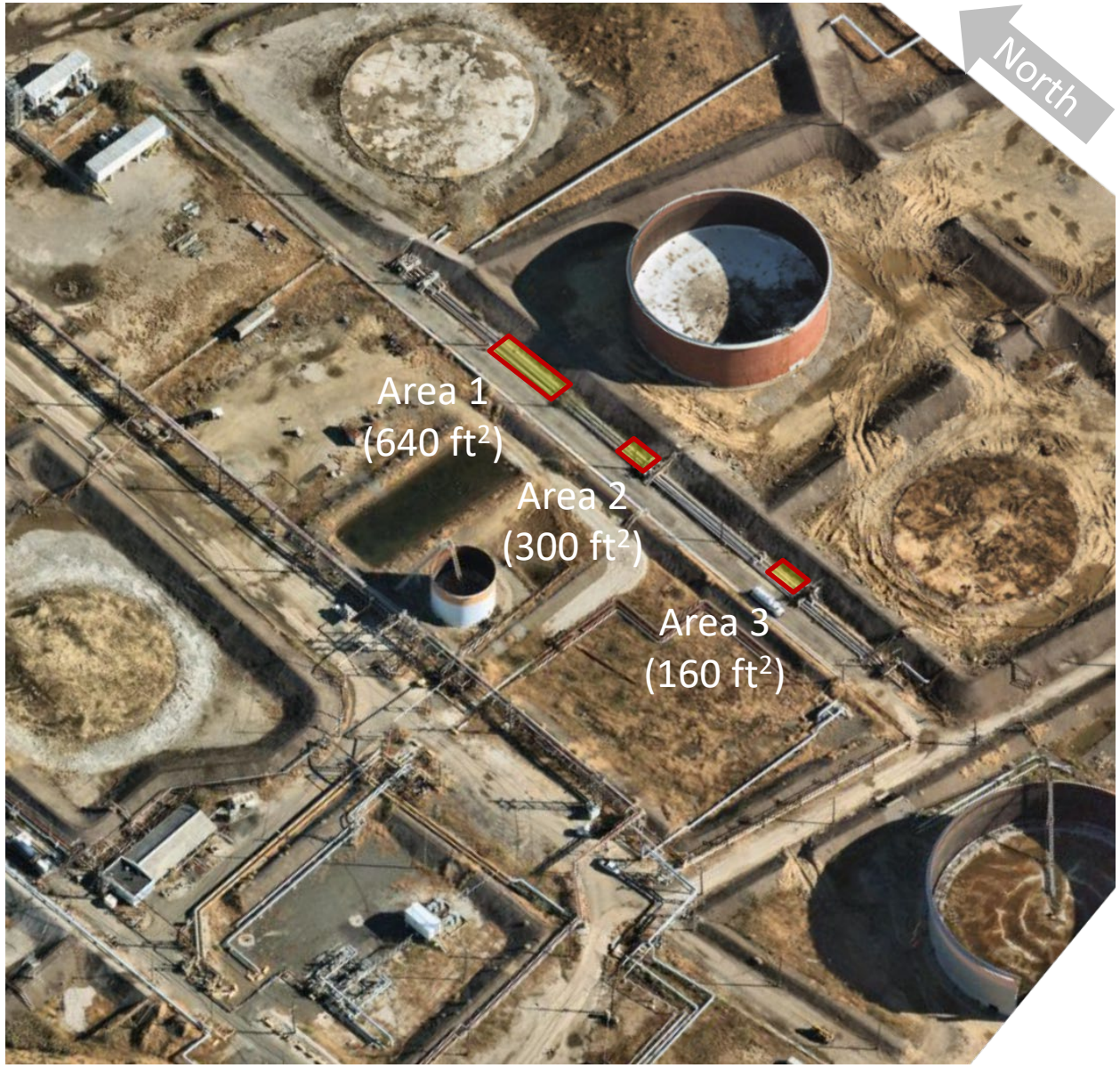
PB-881 Dike Roadway Release

Incident Summary

- Resulted in **three small** separate impacted **areas**
- Release of ~ 500 gallons total of a **water** and **oil** mixture across the three areas



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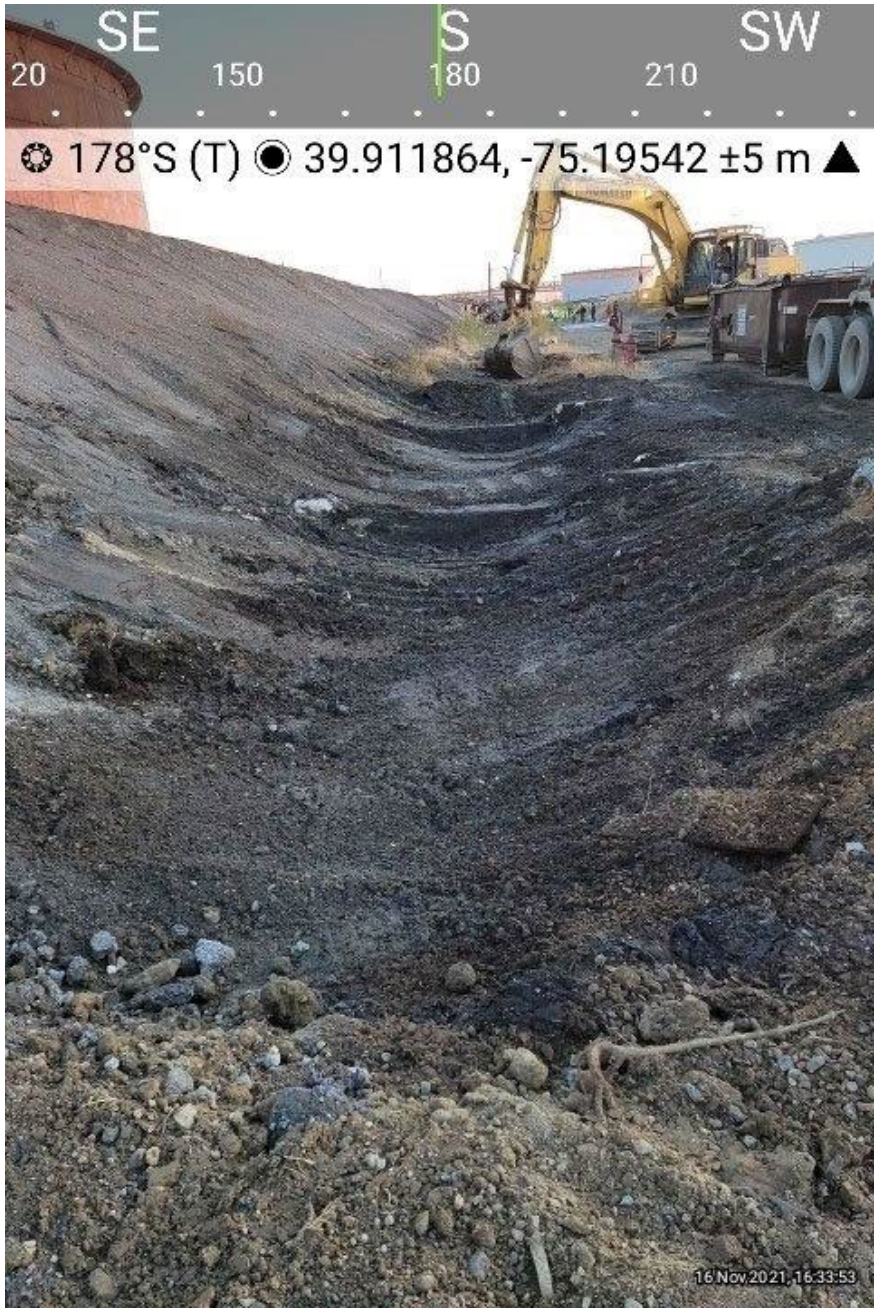
PB-881 Dike Roadway Release
Incident Summary

- Resulted in **three small** separate impacted **areas**
- Release of ~ 500 gallons total of a **water** and **oil** mixture across the three areas
- **Prompt** interim **response** included shallow soil excavations



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PB-881 Dike Roadway Release

Incident Summary

- Resulted in **three small** separate impacted **areas**
- Release of ~ 500 gallons total of a **water** and **oil** mixture across the three areas
- **Prompt** interim **response** included shallow soil excavations
- Approx. 100 tons (~ 60 yd^3) of **soil removed** and **transported off-site** to a disposal facility in New Jersey

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Pennsylvania's
Land Recycling Program ("Act 2")

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

https://www.dep.pa.gov/Business/Land/LandRecycling/Pages/default.aspx

- Cleanup program established in 1995
- Encourages **cleanup/reuse** of contaminated **commercial** & **industrial** sites
- Sets standards which are **protective** of human health and the environment
- PB-881 Dike Roadway release remediated to attain the **Statewide Health Standard** under Act 2
- One of three remediation standards which can be used to **demonstrate** that a release has been **adequately characterized** and **remediated** under Act 2
- Statewide Health Standard uses **generic risk-based cleanup levels** derived by PADEP ("Medium-Specific Concentrations"; MSCs)
- Used to demonstrate that chemical concentrations are at **acceptable** levels and considers:
  - (1) risk to human health from **direct contact** with chemicals in soil and
  - (2) the **protection of groundwater** for potable and nonpotable uses (i.e., **leaching** of chemicals in soil)

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PB-881 Dike Roadway Release
Site Setting & Applicable MSCs

Site Setting

- Facility is being **decommissioned** prior to **redevelopment**
- **Currently** zoned for **industrial** use
- **Future** land use will be **commercial** & **industrial**

Applicable MSCs

- Non-Residential Soil **Direct Contact** Exposure
- Non-Residential Used Aquifer **Soil-to-GW**

https://www.dep.pa.gov/Business/Land/LandRecycling/Standards-Guidance-Procedures/Pages/Statewide-Health-Standards.aspx

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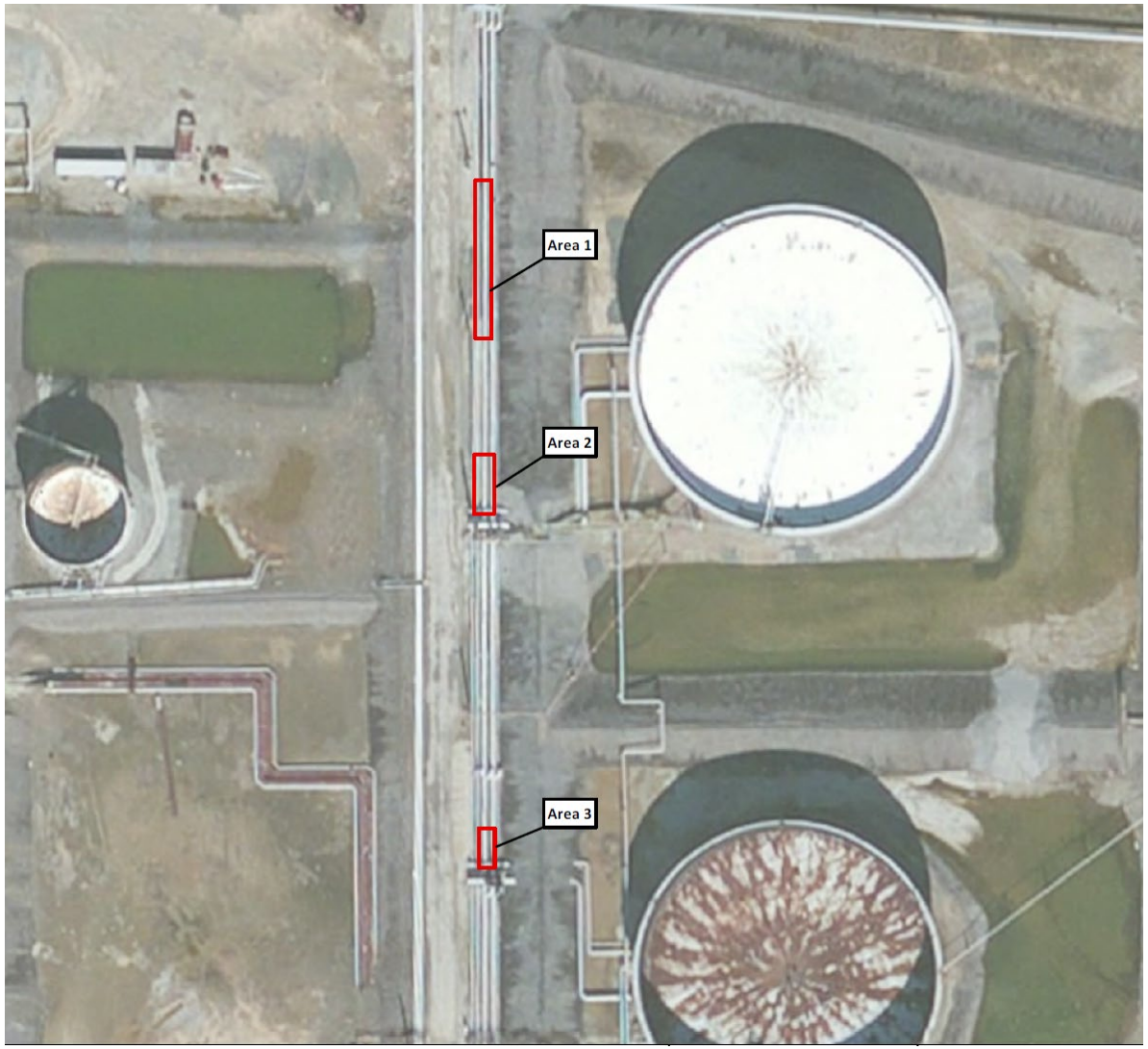
PB-881 Dike Roadway Release

Sampling and Analysis Following Removal

- **8** soil samples collected from **each** area following soil excavation
- Locations **randomly** selected within footprint of the excavations
- Random selection made using PADEP's *Systematic Random Sampling* tool
- Analyzed for chemicals in **crude oil** (PADEP 2014, ITRC 2018)
  - Volatile organic compounds (VOCs)
  - Semi-volatile organic compounds (SVOCs)
- Goal to remove soil contamination and **attain** the **Statewide Health Standard**



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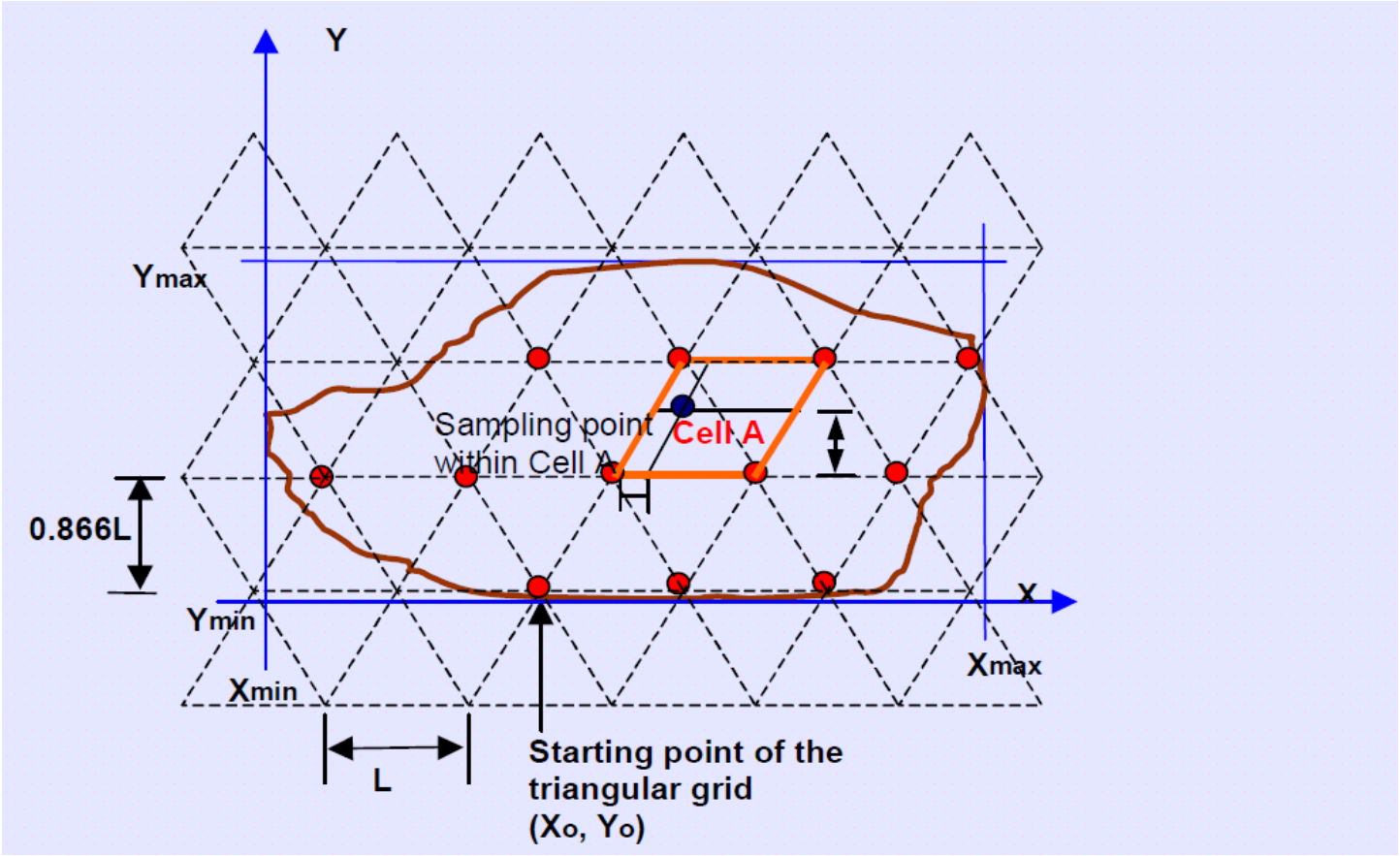
Pennsylvania DEP Guidance

Determining Sampling Locations - Systematic Random Sampling

- Divides area into individual **triangles**
- Triangle areas are then used to define **diamond-shaped** cells
- 1 sampling point is **randomly** generated within each diamond-shaped cell
- The **# of samples** (i.e., the # of cells) is based upon the **size** of the **excavation** area
- No less than **8 samples**



https://files.dep.state.pa.us/EnvironmentalCleanupBrownfields/LandRecyclingProgram/LandRecyclingProgramPortalFiles/GuidanceTechTools/Help%20document%20revised%206.2018.pdf

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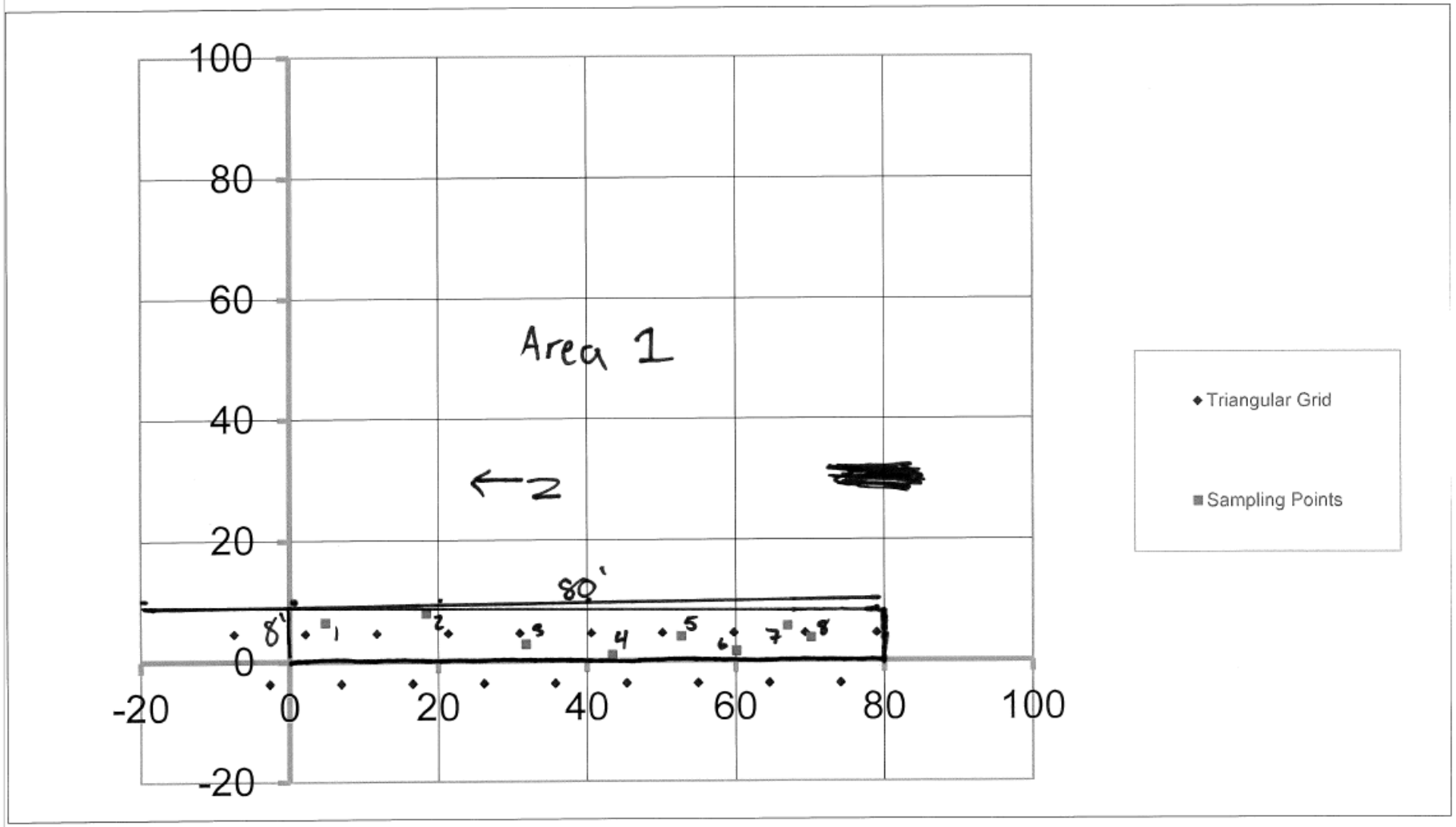
Determining Sampling Locations

PADEP's Systematic Random Sampling Workbook



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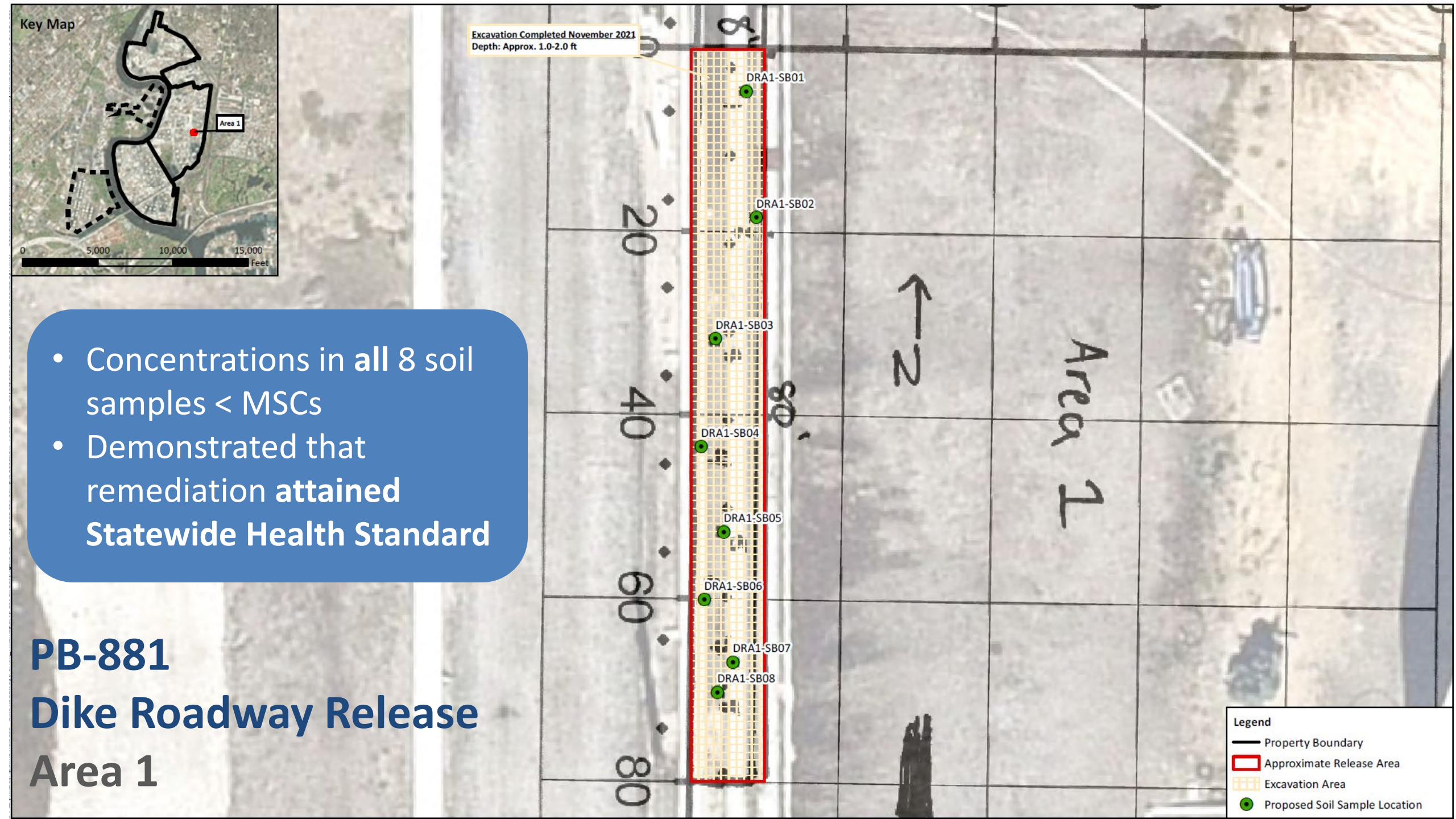
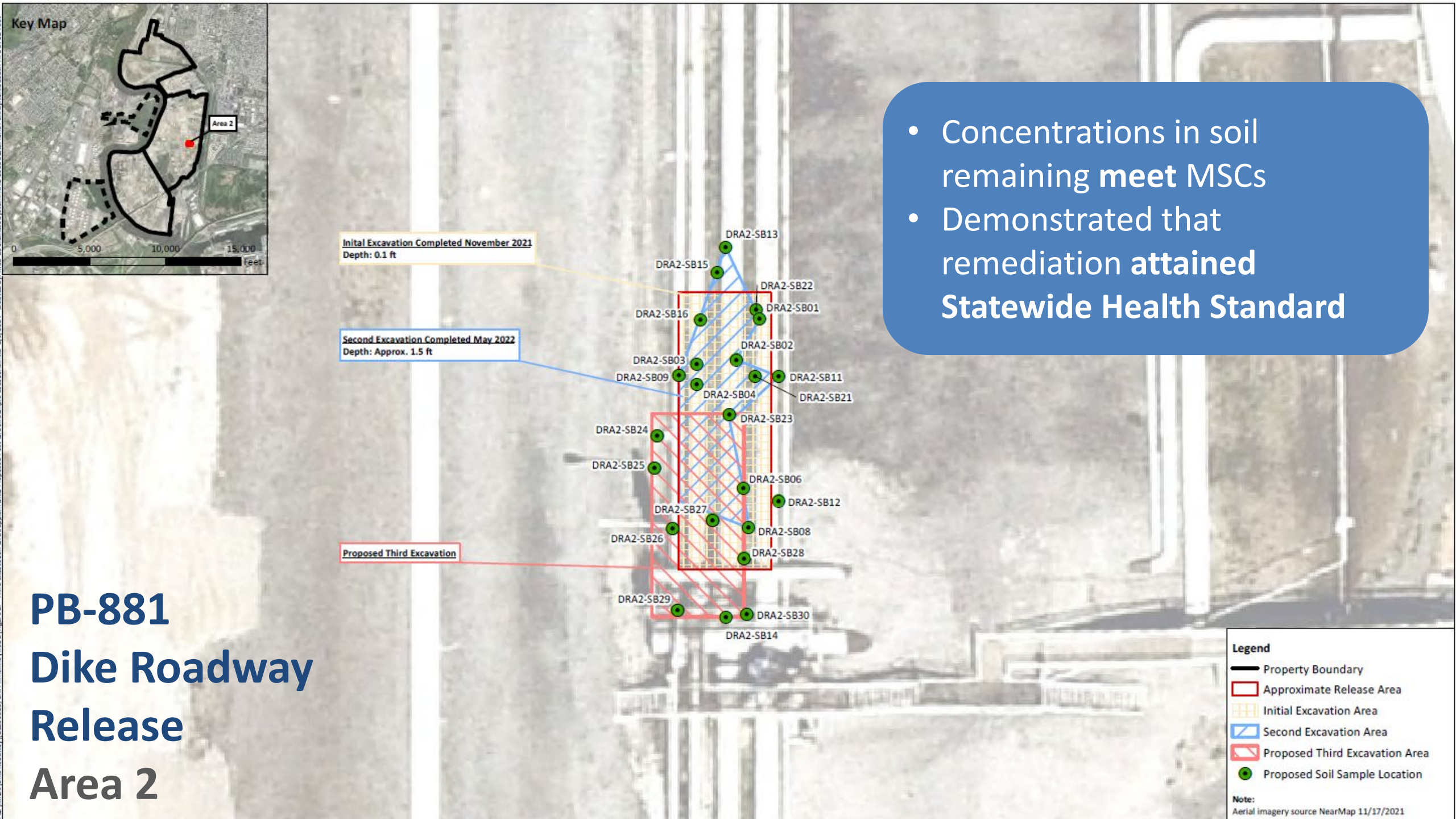


- Concentrations in **all** 8 soil samples < MSCs
- Demonstrated that remediation **attained Statewide Health Standard**

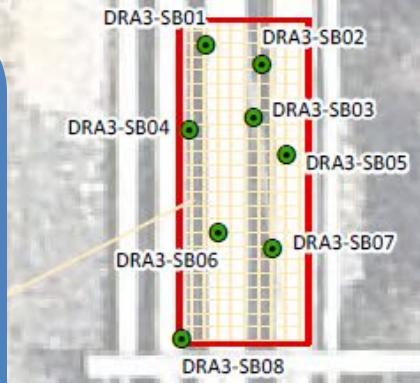
PB-881
Dike Roadway Release
Area 1



- Concentrations in soil remaining **meet** MSCs
- Demonstrated that remediation **attained Statewide Health Standard**

PB-881 Dike Roadway Release Area 2

- Concentrations in **all** 8 soil samples < MSCs
- Demonstrated that remediation **attained Statewide Health Standard**



PB-881
Dike Roadway Release
Area 3

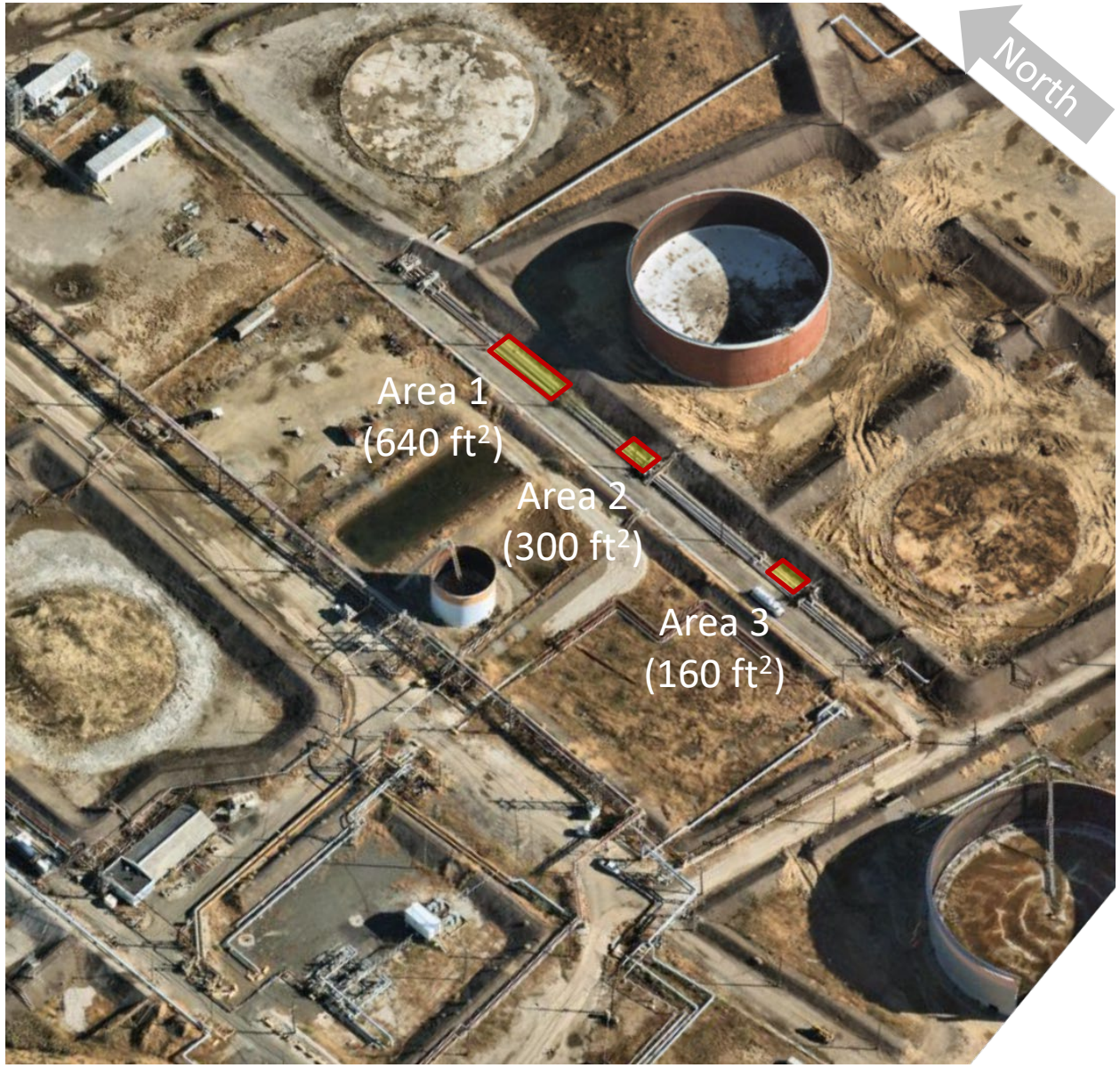
PB-881 Dike Roadway Release

Attainment

- **Remediation** of contamination from release to **Areas 1, 2, & 3** has attained the Statewide Health Standard

- **Volatile** Organic Chemicals
  - Benzene
  - Cumene
  - Ethyl benzene
  - 1,2,4- & 1,3,5-TMB
  - Toluene
  - Xylenes

- **Semivolatile** Organic Chemicals
  - Anthracene
  - B(a)P, B(b)P, B(b)F, B(ghi)P
  - Chrysene
  - Fluorene
  - Naphthalene
  - Phenanthrene
  - Pyrene



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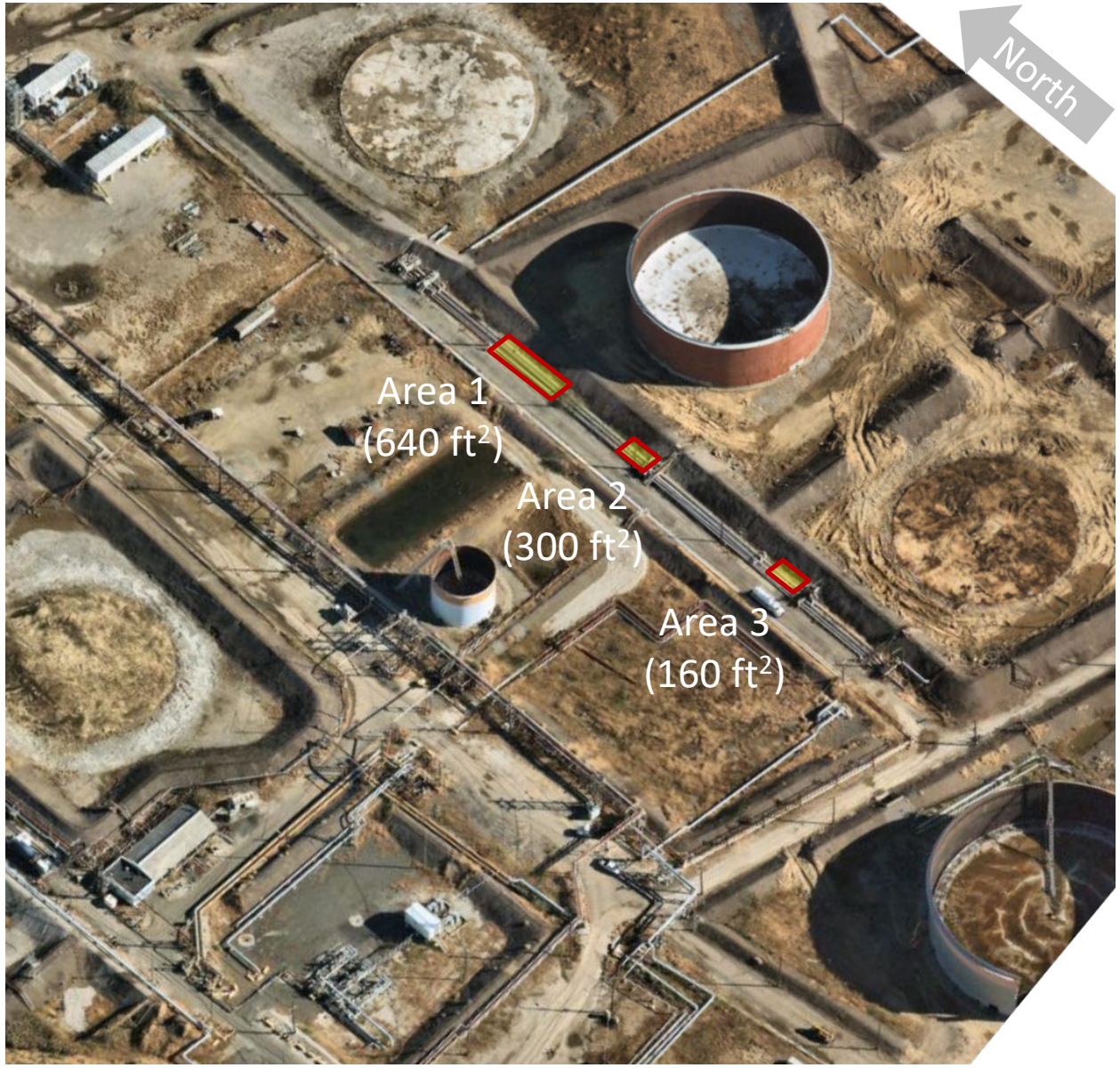
PB-881 Dike Roadway Release

Summary

- On November 16, 2021, a **release** occurred during the removal of out-of-use **pipelines** west of tank PB-881
- **Water** and **oil** from these pipelines were released to **three small areas** along the dike roadway
- Soil **removed** for **off-site** disposal
- Sampling **demonstrates** that remediation of these areas has resulted in conditions which **attain** the **Statewide Health Standard**



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THANK YOU

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Former Aboveground Storage Tank PB-881 Dike Roadway Release

Remedial Investigation and Final Report (Public Information Session)

Former Philadelphia Energy Solutions Refinery, Facility ID No. 51-33620
Philadelphia Energy Solutions Refining and Marketing LLC (PESRM)
3144 West Passyunk Avenue, Philadelphia, Pennsylvania

Presented by:
Kevin Long (Principal Consultant) & Rachel Weaver (Sr. Project Consultant)
Terraphase Engineering Inc.

February 12, 2024

Q & A Response: The Bellwether District Act 2 Public Meeting (PB 881 Dike Roadway Pipeline Release Final Report, February 12, 2024)

Below are questions received during The Bellwether District's Act 2 virtual public meeting (PB 881 Dike Roadway Pipeline Release Final Report). During the meeting The Bellewther District's environmental remediation team presented on the cleanup of a localized release that occurred on the property in November of 2021.

Questions are copied directly as asked with spelling errors corrected.

Q1: What concentrations were detected?

A: A full report on the PB 881 Dike Roadway Pipeline Release closure, including concentrations for all applicable constituents, is available at thebellwetherdistrict.com under the environmental tab.

Q2: You mentioned [waste materials] were hauled to a disposal site in New Jersey. Can you disclose the location of that disposal site?

A: The facility name and its location are documented in the report, which can be found at thebellwetherdistrict.com under the environmental tab.

Q3: Can you characterize how the spill came about? Did people not realize there was any fluid in the disused pipe or was it not drained before demolition?

A: The pipe associated with the release was out of use for a long time. Prior to demolition, it was drained and cleaned of petroleum product. In this case, fluids unknowingly remained in a low point of the pipe, which then released onto the ground during accidentally demolition activity.

Attendance List: The Bellwether District Act 2 Public Meeting (PB 881 Dike Roadway Pipeline Release Final Report, February 12, 2024)

Peter Winslow

Joseph Civitillo

Jessica Stearns

Joseph Cotter