pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

51-11557
Facility I.D.

Bellwether District Holdings, LLC Schuylkill River Tank Farm – Tank 022A aka SR-30
Facility Name

Philadelphia — Municipality
Philadelphia — County

4/14/26
Date Prepared

Sarah Stoneking
Name of Person Submitting Report
(Please Print)

Ramboll Americas Engineering Solutions, Inc.
Company Name
(If Applicable)

Principal
Title

Closure Method (Check all that apply):

- ☒ AST Removal
- ☐ AST Closure-In-Place
- ☐ AST Change-In-Service
- ☐ Partial AST System Closure

Site Assessment Results (Check all that apply):

- ☒ No Obvious Contamination - Sample Results Meet Standards/Levels
- ☐ No Obvious Contamination - Sample Results Do Not Meet Standards/Levels
- ☐ Obvious, Localized Contamination - Sample Results Meet Standards/Levels
  - ☐ Site Characterization Report in accordance with 25 Pa. Code § 310(b) (*Complete Section IV in addition to other required sections*)
- ☐ Obvious, Localized Contamination - Sample Results Do Not Meet Standards/Levels
- ☐ Obvious, Extensive Contamination

DATE RECEIVED: _____

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Owners who are permanently closing aboveground storage tank systems may use this form to demonstrate that a storage tank system closure was performed in accordance with technical guidance document 263-4200-001 "Closure Requirements for Aboveground Storage Tank Systems." PLEASE PRINT OR TYPE. COMPLETE ALL QUESTIONS.

SECTION I. Owner/Facility/Tank/Waste Management and Disposal Information

1. Facility ID Number 51-11557 Schuylkill River Tank Farm
2. Facility Name Bellwether District Holdings, LLC
3. Facility County Philadelphia
4. Facility Municipality Philadelphia
5. Facility Address 3144 West Passyunk Avenue
6. Facility Contact Person Anne R. Garr
7. Facility Telephone Number (773) 484-5445
8. Owner Name Bellwether District Holdings, LLC
9. Owner Mailing Address 3144 West Passyunk Avenue, Philadelphia, PA 19145
10. Description of Aboveground Storage Tank Systems (Complete for each tank system closed)

DATE OF TANK SYSTEM CLOSURE (Month/Day/Year)		3 - 27 - 2024		- -	- -
Description of Aboveground Storage Tank System (Complete for each tank system undergoing closure)					
DEP Tank ID Number		022A			
Total Capacity (Gallons)		5,527,200			
Substance(s) Stored Throughout Operating Life of Tank System (Check All That Apply)	**a. Petroleum**				
	Unleaded Gasoline	☐	☐	☐	☐
	Leaded Gasoline	☐	☐	☐	☐
	Aviation Gasoline	☐	☐	☐	☐
	Pure Ethanol	☐	☐	☐	☐
	Blended Ethanol %	☐	☐	☐	☐
	Kerosene	☐	☐	☐	☐
	Jet Fuel	☐	☐	☐	☐
	Diesel Fuel	☐	☐	☐	☐
	Biodiesel %	☐	☐	☐	☐
	Fuel Oil No. 1	☐	☐	☐	☐
	Fuel Oil No. 2	☒	☐	☐	☐
	Fuel Oil No. 4	☐	☐	☐	☐
	Fuel Oil No. 5	☐	☐	☐	☐
	Fuel Oil No. 6	☒	☐	☐	☐
	New Motor Oil	☐	☐	☐	☐
	Used Motor Oil	☐	☐	☐	☐
	Nonpetroleum Oil, Specify				
	Other, Specify				
NOTE: If Hazardous Substance Block is Checked, Attach Safety Data Sheets (SDS)	**b. Hazardous Substance**	☐	☐	☐	☐
	Name of Principal CERCLA Substance AND Chemical Abstract Service (CAS) No.				
	c. Unknown	☐	☐	☐	☐

CLOSURE METHOD(s):	DEP Tank ID Number:				
Tank	a. Removal	☒	☐	☐	☐
☐ N/A	b. Closure-in-Place	☐	☐	☐	☐
	c. Change-in-Service	☐	☐	☐	☐
Piping	a. Removal	☒	☐	☐	☐
☐ N/A	b. Closure-in-Place	☐	☐	☐	☐
	c. Change-in-Service	☐	☐	☐	☐
Dispenser	a. Removal	☐	☐	☐	☐
☒ N/A	b. Closure-in-Place	☐	☐	☐	☐
	c. Change-in-Service	☐	☐	☐	☐
Other	a. Removal	☐	☐	☐	☐
_____	b. Closure-in-Place	☐	☐	☐	☐
	c. Change-in-Service	☐	☐	☐	☐

Describe Closure Activities:

Tank 022A was removed from the site by NorthStar Contracting Group, Inc. (NorthStar) using an excavator mounted mechanical shear on April 13, 2023. At the time of the tank removal, the tank was observed to have a section cut out of the tank previously and the tank was empty. PADEP was on-site to oversee the tank demolition. No petroleum residue was observed inside the tank and the valves on the remaining aboveground product lines were turned to the off position. Piping was disconnected and temporary flange covers were placed over the disconnected product piping by NorthStar. Subsequent to this work, it was observed on June 29, 2023, that the flange covers had failed and residual product that had remained in an approximate one-foot section of piping between the valve and the flange cover had been released to the ground. This release was reported to PADEP on June 30, 2023 (incident number 59035), and was addressed by replacing the flange covers, excavating affected soil, and performing post-excavation soil sampling. These activities were summarized in Abbreviated 310B Site Characterization Report, Tank No. 022A, Schuylkill River Tank Farm, prepared by Ramboll and dated December 2023 (see Appendix A). The Abbreviated 310B SCR was approved by PADEP on February 20, 2024 (see Appendix A). Based on discussion with PADEP, tank closure sampling was performed separately from the above-referenced activities, as summarized below

A work plan for tank closure sampling was submitted to PADEP on October 16, 2023. Tank closure confirmatory sampling was conducted on December 12, 2023. Eleven subsurface soil samples and one groundwater sample were collected in general accordance with the approved work plan. The laboratory report is attached as Appendix B.

The remaining aboveground product lines east of Tank 022A were removed on March 27, 2024, NorthStar noted approximately 900 gallons of product was removed from the Tank 022A piping and transferred to Tank SR-90. Confirmatory sampling was performed beneath the former product lines on April 8, 2024. Six subsurface soil samples were collected in general accordance with the approved work plan dated March 11, 2024. The laboratory report is attached as Appendix B.

Yes **N/A**

11. Briefly describe the storage tank facility and the nature of the operations which were conducted at the facility (both historical and present) **including use of the storage tank systems:**

The Schuylkill River Tank Farm (SRTF) has a history of petroleum transportation, storage, and processing, beginning in the 1860s when Atlantic Petroleum Company established an oil distribution center in connection with a refinery situated on the east side of the Schuylkill River. In 1993, Sunoco entered into a Consent Order and Agreement with the PADEP for investigation of the SRTF and the larger refinery. Evergreen Resources Group, LLC is pursuing investigation and closure of the former Sunoco refinery under the Pennsylvania Act 2 Program and has divided the former refinery complex into 11 areas of interest (AOIs). The SRTF is designated as AOI 9. Portions of the SRTF were utilized as a product storage and transshipment tank farm handling finished distillate, liquid petroleum gas products, heating oils, and gasoline fuels. Tank 022A was previously used to store No. 2 heating oil and No. 6 heating oil. The SRTF is currently idle and Tank 022A has been removed.

☒ ☐ 12. A site location and sampling map of the site, drawn to scale, is attached. See page 14 of 14.

☐ ☒ 13. Attached original, color photographs of the closure process, including, but not limited to: the tank bottom, the condition of the foundation, any excavation required to close the tank system, and any water encountered during closure activities.

☒ ☐ 14. An online registration application was completed through storage tanks e-permitting, or an amended "Storage Tanks Registration/Permitting Application" Form was submitted to the DEP, Bureau of Environmental Cleanup and Brownfields, Division of Storage Tanks, P.O. Box 8762, Harrisburg, PA 17105-8762.

Date: 4 / 13 / 2023

☐ ☒ 15. If a release was confirmed, the appropriate regional office of DEP was notified by the owner or operator.

Date: / / Office: ____

Yes **N/A**

☐ ☒ 16. If tanks were cleaned on-site:

a. Briefly describe the disposition of usable product: At the time of the tank demolition, the remaining product had been previously removed by others and a hole cut into the side of the tank. No remaining petroleum or petroleum residue was observed in the tank at the time of demolition.

b. Briefly describe the disposal of unusable product, sludges, sediments, and wastewater generated during cleaning. Provide the name and permit number of the processing, treatment, storage, or disposal facility. (Attach documentation of proper disposal):

_____

_____

c. If tank contents were determined/deemed to be hazardous waste, provide:

(1) Generator ID Number: N/A

(2) Licensed Hazardous Waste Transporter Name and ID Number: N/A

☐ ☒ 17. If tanks were removed from the site for cleaning:

a. Provide the name and permit number of the processing, treatment, storage, or disposal facility performing the tank cleaning: _____

b. If tank contents were determined/deemed to be hazardous waste, provide:

(1) Generator ID Number: _____

(2) Licensed Hazardous Waste Transporter Name and ID Number: _____

_____

18. Briefly describe the disposition of tanks/piping (Attach documentation of proper disposal):

The remaining aboveground product lines east of Tank 022A were removed on March 27, 2024, NorthStar noted approximately 900 gallons of product was removed from the Tank 022A piping and transferred to Tank SR-90, also located in the Schuylkill River Tank Farm. The tank and

associated piping was recycled for scrap value. The tank and pipe scrap was not segregated for transportation to a scrap facility; therefore, a specifica quantity of piping or tank scrap was not provided by NorthStar.

☐ ☒ 19. If contaminated soil is excavated:

a. Briefly describe the disposition and amount (tons) of contaminated soil. Provide the name and permit number of the processing, treatment, storage, or disposal facility. (Attach documentation of proper disposal):

No contaminated soils were encountered.

b. If contaminated soil is determined/deemed to be hazardous waste, provide:

(1) Generator ID Number: _____

(2) Licensed Hazardous Waste Transporter Name and ID Number: _____

Yes **N/A**

☐ ☒ 20. Briefly describe the disposition of and amount _____ (tons) of uncontaminated soil and debris (attach analyses):

_____

☐ ☒ 21. If the tanks were "Closed-in-Place" provide information below:

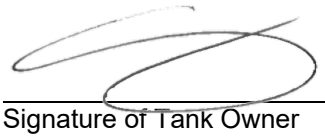
a. Briefly describe the tank cleaning process: _____

b. If subcontracted, name and address of company that performed the tank cleaning:

_____

c. How were tanks marked/labeled with permanent closure date: _____

I, Bellwether District Holdings, LLC, hereby certify, under penalty of law as provided in 18 Pa. C.S. § 4904
(Print Name)
(relating to unsworn falsification to authorities) that I am the owner of the above referenced storage tank system(s) and that the information provided by me in this closure report (Section I) is true, accurate and complete to the best of my knowledge and belief.



Anne R. Garr

Signature of Tank Owner

7 / 2 / 2026
Date

Bellwether District Holdings, LLC
Company Name

(If applicable)

in her capacity as Secretary to Owner

Title

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION II. Tank Handling Information

Facility ID Number 51 - 11557

DEP Tank ID Number(s) Tank 022A aka SR-30

Yes N/A

1. Briefly describe the excavation and initial on-site staging of uncontaminated/contaminated soil and debris:

   Soil excavation was not completed at the time of AST removal.

2. Briefly describe the method of piping system closure and the closure of the piping systems including the quantity and condition of the piping:

   Approximately 900 gallons of product was removed from the piping and transferred to Tank SR-90. The piping system locations requiring sampling for closure purposes were documented, and the piping was demolished and recycled for scrap value. No problems or issues concerning the condition of the piping systems were reported.

3. Briefly describe the condition of the tanks and any problems encountered during tank handling or tank removal activities:

   The tank was empty and no petroleum residue was observed. Although some rust was observed, the tank was observed to otherwise be in good condition with no apparent holes.

4. Briefly describe the method used to purge the tanks of and monitor for hazardous or explosive vapors:

   At the time of the tank demolition, the tank was empty and a hole had been previously cut in the side by others.

☐ ☒ 5. If tanks were cleaned on-site:

   a. Briefly describe the tank cleaning process: _____

   b. If subcontracted, name and address of company that performed the tank cleaning:

   _____

☐ ☒ 6. If tanks were “Closed-in-Place”, briefly describe how tanks were rendered inoperative, marked permanently closed with date, vented and secured to prevent unauthorized entry: _____

☐ ☒ 7. If contamination was suspected or observed, the “Notification of Contamination” form was submitted.

I, Brian Gerner, hereby certify, under penalty of law as provided in 18 Pa. C.S. § 4904
(Print Name)
(relating to unsworn falsification to authorities) that I am the certified remover who performed the tank handling activities associated with the closure of the above referenced storage tank(s) and that the information provided by me in this closure report (Section I) is true, accurate and complete to the best of my knowledge and belief.

Signature of Certified Remover

4 / 30 / 2026
Date

5341
Remover Certification Number

1631
Company Certification Number

AST Construction
Company Name

5 Canale Drive
Street

Egg Harbor Twp, NJ 08080
City/Town, State, Zip

609 277 7101
Phone

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION III. Site Assessment Information

Facility ID Number 51 - 11557

DEP Tank ID Number Tank 022A aka SR-30

(complete one sheet for EACH tank system and attach ALL laboratory sheets pertaining to that system)

A. Provide depth of *BEDROCK* and *WATER* IF encountered during excavation or soil boring (write "N/A": if NOT encountered).

Bedrock N/A feet below land surface Water 4.3 feet below land surface

B. Provide Length of *PIPING* IF piping was closed-in-place (write "N/A" if NOT closed-in-place).

Length of piping N/A feet

C. TANK SYSTEM REMOVED FROM THE GROUND/SITE

1). Was obvious contamination observed while excavating, sampling, or removing the tank system?

☒ NO Conduct confirmatory sampling and maintenance of closure records See end of this section for options on submission Do not complete item C.2. below.

☐ YES ----► Report release to DEP within 24 hours ------► Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):

----► Complete item C.2 below.

2). Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)?

☐ YES Remove or remediate contaminated soil Conduct confirmatory sampling ------► See end of this section for options on submission and maintenance of closure records.

☐ NO ------► Continue Interim Remedial Actions ------► See end of this section for options on submission and maintenance of closure records.

D. TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE

Was obvious contamination observed during sampling, boring, or assessing water depths?

☐ NO ----► Conduct confirmatory sampling ------► See end of this section for options on submission and maintenance of closure records.

☐ YES ----► Report release to DEP within 24 hours -----► Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):

Continue with corrective action ------► See end of this section for options on submission and maintenance of closure records.

E. If the answer to C.1. is “no”, the answer to C.2. is “yes” or the answer to D. is “no”, confirmatory samples are required. Use the sample/analysis information sheet on page 13 of 14 to provide the information on confirmatory sampling and complete the diagram on page 14 of 14.

F. CONFIRMATORY SAMPLING

Confirmatory sampling is a required element of site assessment unless specific conditions are met, and DEP approves exclusion or limitation of the site assessment and/or confirmatory sampling in advance:

Was confirmatory sampling completed?

☒ YES

☐ NO Explain why confirmatory sampling was not completed: _____

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION IV. Site Assessment Information

Facility ID Number_____-_____
DEP Tank ID Number(s) _____

If the box on page 1, indicating that this Closure Report is being submitted as a Site Characterization Report in accordance with 25 Pa. Code Section 245.310(b), was checked, please complete the survey below:

A. Standard Selection and Attainment

1.) Select the Statewide health standard in accordance with 25 Pa. Code 310(b).

☐ residential

☐ nonresidential

2.) Briefly describe the use of the subject property and justification for the above selected Statewide health standard: _____

3.) Include a concise statement that describes the release(s), including information such as the amount of regulated substance that was released, the extent of contamination, and interim remedial actions taken under 25 Pa. Code Section 306: _____

4.) Was impacted soil and/or other back fill material excavated, segregated, and stockpiled for disposal/treatment at a permitted facility?

☐ YES (proceed to 5.)

☐ NO (perform characterization in accordance with 25 Pa. Code Section 310(a))

5.) Did confirmatory/attainment samples demonstrate attainment of Statewide health standards in accordance with 25 Pa. Code Section 250.707(b)(1)?

☐ YES (proceed to 6.)

☐ NO (perform characterization in accordance with 25 Pa. Code Section 310(a))

6.) How were attainment samples collected?

☐ (petroleum) Biased in accordance with 25 Pa. Code Section 250.707 (b)(1)(iii)(B)

☐ (non-petroleum) Random in accordance with 25 Pa. Code Section 703

☐ Other (please describe in detail): _____

B. Vapor Intrusion Pathway Evaluation

The analytical results of confirmatory and/or attainment sampling should be evaluated in accordance with Section IV of the Land Recycling Program Technical Guidance Manual (261-0300-101).

1.) Do the soil analytical results screen out of horizontal and vertical proximity distances from inhabited structures and other preferential pathways (i.e. 100-foot horizontal proximity distance for non-petroleum compounds (including MTBE) and 30-foot horizontal/ 5-foot vertical proximity distance for petroleum)?

☐ YES (No further evaluation is required)

☐ NO (proceed to 2.)

2.) Compare the analytical data from the attainment and/or confirmatory samples to the Soil Statewide Health Standard Vapor Intrusion Screening Value Table. This should be presented concisely in tabular format. Do all analytes screen out of further vapor intrusion evaluation?

☐ YES (No further evaluation is required)

☐ NO (proceed to 3.)

3.) Further vapor intrusion evaluation should be completed in accordance with Section IV of the "Land Recycling Program Technical Guidance Manual" (261-0300-101)

C. <u>Evaluation of Ecological Receptors</u>

1.) Was impacted soil and/or other backfill material excavated and disposed of offsite?

☐ YES (proceed to 2.)

☐ NO (perform characterization in accordance with 25 Pa. Code Section 310(a))

2.) Did confirmatory/attainment samples demonstrate attainment of Statewide health standards in accordance with 25 Pa. Code Section 250.707(b)(1)(iii)?

☐ YES (proceed to 3.)

☐ NO (perform characterization in accordance with 25 Pa. Code Section 310(a))

3.) Was released product one of the following substances: jet fuel, gasoline, kerosene, number two fuel oil or diesel fuel?

☐ YES (no further ecological evaluation is required)

☐ NO (proceed to 4.)

4.) Is the area of contaminated soil less than two acres and/or the area of contaminated sediment less than 1,000 square feet?

☐ YES (no further ecological evaluation is required)

☐ NO (proceed to 5.)

5.) Does the site have features, such as buildings, parking lots or graveled paved areas, which would obviously eliminate the specific exposure pathways, such as soils exposure?

☐ YES (no further ecological evaluation is required)

☐ NO (perform additional ecological evaluation in accordance with 25 Pa. Code Section 245.310(b)(4))

Options for Submission and Maintenance of Closure Site Assessment Records

Records of the site assessment must be maintained for at least three years after completion of permanent closure or change-in-service in one of the following ways:

(a) By the owners and operators who took the tank system out of service;

(b) By the current owners and operators of the tank system site; or

(c) By mailing these records to the DEP regional office responsible for the county in which the tank is located if they cannot be maintained at the closed facility.

Where the results of the site assessment indicate that obvious, localized soil contamination was encountered and the analytical results of the confirmatory sampling show levels below the statewide standard/action levels, this closure report form (Sections I, II, III, and IV) or some other acceptable site characterization report must be received by the Department within 180 days of verbally reporting the release.

Where the results of the site assessment indicate that no obvious contamination or obvious, localized contamination was encountered, but the analytical results of the confirmatory sampling show levels above the statewide standard/action levels, or where there is obvious, extensive contamination, Section 245.310(a)(8) of the Corrective Action Process (CAP) regulations requires that details of removal from service be included in the site characterization report. A copy of the completed closure report form should be submitted as part of the site characterization report to satisfy the requirements of Section 245.310(a)(8) of the CAP regulations.

I, Sarah Stoneking, hereby certify, under penalty of law as provided in 18 Pa. C.S. § 4904
(Print Name)
(relating to unsworn falsification to authorities) that I am the person who performed the site assessment activities associated with the closure of the above referenced storage tank system(s) and that the information provided by me in this closure report is true, accurate and complete to the best of my knowledge and belief.

Sarah Stoneking
Signature of Person Performing Site Assessment

4 / 20 / 2026
Date

Principal
Title of Person Performing Site Assessment

Ramboll Americas Engineering Solutions, Inc.
Name of Company Performing Site Assessment

703 516 2407
Telephone Number of Person Performing Site Assessment

ABOVEGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Sample/Analysis Information Attachment
Facility ID Number

**Analytical Data Reports and Table are attached.*

Sample I.D. (See diagram)	Parameter	Analytical Method[1]		Media	Result (units)	Detection Limit (units)	Date Sample Taken	Date Sample Analyzed
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[1] Where EPA Method 5035 is used, indicate sample collection option in the right-hand box of this column using the following codes:
P - Samples placed in a soil sample vial with a preservative present.
E - Samples collected and stored in a soil collection device which is airtight and affords little to no headspace.
N - Samples placed in soil sample vial without a preservative present.

Site Location and Sampling Map - Use this page or suitable facsimile to provide a large-scale map of the site where storage tank systems were closed. Scales between 1" = 10 and 1" = 100 feet frequently work well. Include the following information as each applies to the site: facility name and I.D., county, township or borough, property boundaries or area of interest, buildings, roads and streets with names or route numbers, utilities, location and ID number of storage tank systems removed including piping and dispensers, soil stockpile locations, excavations or other locations of

product recovery, north arrow, approximate map scale and legend. Also, show depth and location of samples with sample ID numbers cross-referenced to the same ID numbers shown on page 13 of 14.

Facility Name and ID: -

County:

Township/Borough:

**Figure and Appendices are attached.*

TABLE 1: Summary of Detected Constituents in Soil
Tank 30 Closure, Schuylkill River Tank Farm, Philadelphia, Pennsylvania

Constituent	PADEP Statewide Health Standards (SHS) Medium-Specific Concentrations (MSCs) for Inorganic Regulated Substances in Soil		PESRM-T30-01	PESRM-T30-02	PESRM-T30-03
	Direct Contact	Soil to Groundwater			
	Nonresidential MSCs	Used Aquifer, Nonresidential TDS ≤ 2,500	1.1-1.6 ft bgs	5.0-5.5 ft bgs	5.0-5.5 ft bgs
	Subsurface Soil 2-15 ft bgs		12/12/2023	12/12/2023	12/12/2023
Volatile Organic Compounds (VOCs) (mg/kg)					
1,2,4-Trimethylbenzene	5,400	300	< 0.0016	< 0.00096	< 0.0010
1,3,5-Trimethylbenzene	5,400	93	< 0.0016	< 0.00096	< 0.0010
Benzene	330	0.13	< 0.0016	< 0.00096	< 0.0010
Ethylbenzene	1,000	46	< 0.0016	< 0.00096	< 0.0010
Isopropylbenzene	10,000	2,500	< 0.0016	< 0.00096	< 0.0010
Toluene	10,000	44	< 0.0016	< 0.00096	< 0.0010
Semi-Volatile Organic Compounds (SVOCs) (mg/kg)					
Benzo(a)anthracene	190,000	340	0.42	< 0.046	< 0.047
Benzo(a)pyrene	190,000	46	0.51	< 0.046	< 0.047
Benzo(b)fluoranthene	190,000	170	0.73	< 0.046	< 0.047
Benzo(g,h,i)perylene	190,000	180	0.36	< 0.046	< 0.047
Chrysene	190,000	230	0.43	< 0.046	< 0.047
Naphthalene	77	25	0.096	< 0.012	< 0.012
Phenanthrene	190,000	10,000	0.28	< 0.046	< 0.047
Pyrene	190,000	2,200	0.60	< 0.046	< 0.047

Notes:

Soil was analyzed for volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260 and semi-volatile organic compounds (SVOCs) by USEPA Method 8270. Samples for VOC analysis were collected using Terracores in conjunction with USEPA method 5035. Only detected constituents are shown; no exceedances were noted.

Detected concentrations of constituents were compared to the Pennsylvania Department of Environmental Protection (PADEP) Statewide Health Standards (SHS) Medium Specific Concentrations (MSCs) for Inorganic Regulated Substances in Soil. More specifically, Direct Contact values for Nonresidential MSCs for Surface Soil, Subsurface Soil, and Soil to Groundwater MSCs for Used Aquifer for Nonresidential Areas, total dissolved solids (TDS) of less than or equal to 2,500 milligrams per liter (mg/L).

The results after the slash is the result from the duplicate sample taken in the field.

mg/kg - milligrams per kilogram.

"<" - Less than the reporting limit.

ft bgs - feet below ground surface.

TABLE 1: Summary of Detected Constituents in Soil
Tank 30 Closure, Schuylkill River Tank Farm, Philadelphia, Pennsylvania

Constituent	PADEP Statewide Health Standards (SHS) Medium-Specific Concentrations (MSCs) for Inorganic Regulated Substances in Soil		PESRM-T30-04	PESRM-T30-05	PESRM-T30-06
	Direct Contact	Soil to Groundwater			
	Nonresidential MSCs	Used Aquifer, Nonresidential TDS ≤ 2,500	5.0-5.5 ft bgs	3.0-3.5 ft bgs	5.0-5.5 ft bgs
	Subsurface Soil 2-15 ft bgs		12/12/2023	12/12/2023	12/12/2023
Volatile Organic Compounds (VOCs) (mg/kg)					
1,2,4-Trimethylbenzene	5,400	300	< 0.085	< 0.0014	< 0.0011
1,3,5-Trimethylbenzene	5,400	93	< 0.085	< 0.0014	< 0.0011
Benzene	330	0.13	< 0.042	< 0.0014	< 0.0011
Ethylbenzene	1,000	46	0.88	< 0.0014	< 0.0011
Isopropylbenzene	10,000	2,500	< 0.085	< 0.0014	< 0.0011
Toluene	10,000	44	< 0.085	< 0.0014	< 0.0011
Semi-Volatile Organic Compounds (SVOCs) (mg/kg)					
Benzo(a)anthracene	190,000	340	< 0.043	0.21	< 0.046
Benzo(a)pyrene	190,000	46	< 0.043	0.33	< 0.046
Benzo(b)fluoranthene	190,000	170	< 0.043	0.43	< 0.046
Benzo(g,h,i)perylene	190,000	180	< 0.043	0.32	< 0.046
Chrysene	190,000	230	< 0.043	0.22	< 0.046
Naphthalene	77	25	0.046	0.077	< 0.012
Phenanthrene	190,000	10,000	< 0.043	< 0.15	< 0.046
Pyrene	190,000	2,200	< 0.043	0.31	< 0.046

Notes:
Soil was analyzed for volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260 and semi-volatile organic compounds (SVOCs) by USEPA Method 8270. Samples for VOC analysis were collected using Terracores in conjunction with USEPA method 5035. Only detected constituents are shown; no exceedances were noted.
Detected concentrations of constituents were compared to the Pennsylvania Department of Environmental Protection (PADEP) Statewide Health Standards (SHS) Medium Specific Concentrations (MSCs) for Inorganic Regulated Substances in Soil. More specifically, Direct Contact values for Nonresidential MSCs for Surface Soil, Subsurface Soil, and Soil to Groundwater MSCs for Used Aquifer for Nonresidential Areas, total dissolved solids (TDS) of less than or equal to 2,500 milligrams per liter (mg/L).
The results after the slash is the result from the duplicate sample taken in the field.
mg/kg - milligrams per kilogram.
"<" - Less than the reporting limit.
ft bgs - feet below ground surface.

TABLE 1: Summary of Detected Constituents in Soil
Tank 30 Closure, Schuylkill River Tank Farm, Philadelphia, Pennsylvania

Constituent	PADEP Statewide Health Standards (SHS) Medium-Specific Concentrations (MSCs) for Inorganic Regulated Substances in Soil		PESRM-T30-07	PESRM-T30-08	PESRM-T30-09
	Direct Contact	Soil to Groundwater			
	Nonresidential MSCs	Used Aquifer, Nonresidential TDS ≤ 2,500	3.7-4.2 ft bgs	3.0-3.5 ft bgs	5.0-5.5 ft bgs
	Subsurface Soil 2-15 ft bgs		12/12/2023	12/12/2023	12/12/2023
Volatile Organic Compounds (VOCs) (mg/kg)					
1,2,4-Trimethylbenzene	5,400	300	< 0.0011 / < 0.0078	< 0.0011	< 0.0011
1,3,5-Trimethylbenzene	5,400	93	< 0.0011 / < 0.0078	< 0.0011	< 0.0011
Benzene	330	0.13	< 0.0011 / < 0.0078	< 0.0011	< 0.0011
Ethylbenzene	1,000	46	< 0.0011 / < 0.0078	< 0.0011	< 0.0011
Isopropylbenzene	10,000	2,500	< 0.0011 / < 0.0078	< 0.0011	< 0.0011
Toluene	10,000	44	< 0.0011 / < 0.0078	< 0.0011	< 0.0011
Semi-Volatile Organic Compounds (SVOCs) (mg/kg)					
Benzo(a)anthracene	190,000	340	0.38 / < 0.045	< 0.046	< 0.044
Benzo(a)pyrene	190,000	46	0.36 / <0.045	< 0.046	< 0.044
Benzo(b)fluoranthene	190,000	170	0.43 / <0.045	< 0.046	0.045
Benzo(g,h,i)perylene	190,000	180	0.22 / <0.045	< 0.046	< 0.044
Chrysene	190,000	230	0.36 / <0.045	< 0.046	< 0.044
Naphthalene	77	25	< 0.011 / < 0.011	< 0.011	< 0.011
Phenanthrene	190,000	10,000	0.12 / <0.045	< 0.046	< 0.044
Pyrene	190,000	2,200	0.61 / <0.045	< 0.046	0.049

Notes:

Soil was analyzed for volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260 and semi-volatile organic compounds (SVOCs) by USEPA Method 8270. Samples for VOC analysis were collected using Terracores in conjunction with USEPA method 5035. Only detected constituents are shown; no exceedances were noted.

Detected concentrations of constituents were compared to the Pennsylvania Department of Environmental Protection (PADEP) Statewide Health Standards (SHS) Medium Specific Concentrations (MSCs) for Inorganic Regulated Substances in Soil. More specifically, Direct Contact values for Nonresidential MSCs for Surface Soil, Subsurface Soil, and Soil to Groundwater MSCs for Used Aquifer for Nonresidential Areas, total dissolved solids (TDS) of less than or equal to 2,500 milligrams per liter (mg/L).

The results after the slash is the result from the duplicate sample taken in the field.

mg/kg - milligrams per kilogram.

"<" - Less than the reporting limit.

ft bgs - feet below ground surface.

TABLE 1: Summary of Detected Constituents in Soil
Tank 30 Closure, Schuylkill River Tank Farm, Philadelphia, Pennsylvania

Constituent	PADEP Statewide Health Standards (SHS) Medium-Specific Concentrations (MSCs) for Inorganic Regulated Substances in Soil		PESRM-T30-10	PESRM-T30-11	PESRM-T30-12
	Direct Contact	Soil to Groundwater			
	Nonresidential MSCs	Used Aquifer, Nonresidential TDS ≤ 2,500	3.0-3.5 ft bgs	5.0-5.5 ft bgs	2.0-2.5 ft bgs
	Subsurface Soil 2-15 ft bgs		12/12/2023	12/12/2023	4/8/2024
Volatile Organic Compounds (VOCs) (mg/kg)					
1,2,4-Trimethylbenzene	5,400	300	< 0.0012	< 0.090	< 0.0013
1,3,5-Trimethylbenzene	5,400	93	< 0.0012	< 0.090	< 0.0013
Benzene	330	0.13	< 0.0012	0.045	< 0.0013
Ethylbenzene	1,000	46	< 0.0012	1.4	< 0.0013
Isopropylbenzene	10,000	2,500	< 0.0012	0.12	< 0.0013
Toluene	10,000	44	< 0.0012	< 0.090	< 0.0013
Semi-Volatile Organic Compounds (SVOCs) (mg/kg)					
Benzo(a)anthracene	190,000	340	0.19	< 0.043	0.30
Benzo(a)pyrene	190,000	46	0.27	< 0.043	0.32
Benzo(b)fluoranthene	190,000	170	0.37	< 0.043	0.50
Benzo(g,h,i)perylene	190,000	180	0.19	< 0.043	0.17
Chrysene	190,000	230	0.22	< 0.043	0.38
Naphthalene	77	25	0.078	0.037	0.073
Phenanthrene	190,000	10,000	0.056	< 0.043	0.27
Pyrene	190,000	2,200	0.18	0.049	0.53

Notes:
Soil was analyzed for volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260 and semi-volatile organic compounds (SVOCs) by USEPA Method 8270. Samples for VOC analysis were collected using Terracores in conjunction with USEPA method 5035. Only detected constituents are shown; no exceedances were noted.
Detected concentrations of constituents were compared to the Pennsylvania Department of Environmental Protection (PADEP) Statewide Health Standards (SHS) Medium Specific Concentrations (MSCs) for Inorganic Regulated Substances in Soil. More specifically, Direct Contact values for Nonresidential MSCs for Surface Soil, Subsurface Soil, and Soil to Groundwater MSCs for Used Aquifer for Nonresidential Areas, total dissolved solids (TDS) of less than or equal to 2,500 milligrams per liter (mg/L).
The results after the slash is the result from the duplicate sample taken in the field.
mg/kg - milligrams per kilogram.
"<" - Less than the reporting limit.
ft bgs - feet below ground surface.

TABLE 1: Summary of Detected Constituents in Soil
Tank 30 Closure, Schuylkill River Tank Farm, Philadelphia, Pennsylvania

Constituent	PADEP Statewide Health Standards (SHS) Medium-Specific Concentrations (MSCs) for Inorganic Regulated Substances in Soil		PESRM-T30-13	PESRM-T30-14	PESRM-T30-15
	Direct Contact	Soil to Groundwater			
	Nonresidential MSCs	Used Aquifer, Nonresidential TDS ≤ 2,500	2.0-2.5 ft bgs	2.0-2.5 ft bgs	2.0-2.5 ft bgs
	Subsurface Soil 2-15 ft bgs		4/8/2024	4/8/2024	4/8/2024
Volatile Organic Compounds (VOCs) (mg/kg)					
1,2,4-Trimethylbenzene	5,400	300	< 0.0012	< 0.00072	< 0.0011
1,3,5-Trimethylbenzene	5,400	93	< 0.0012	< 0.00072	< 0.0011
Benzene	330	0.13	< 0.0012	< 0.00072	< 0.0011
Ethylbenzene	1,000	46	< 0.0012	< 0.00072	< 0.0011
Isopropylbenzene	10,000	2,500	< 0.0012	< 0.00072	< 0.0011
Toluene	10,000	44	< 0.0012	< 0.00072	< 0.0011
Semi-Volatile Organic Compounds (SVOCs) (mg/kg)					
Benzo(a)anthracene	190,000	340	< 0.051	0.11	0.14
Benzo(a)pyrene	190,000	46	< 0.051	0.11	0.21
Benzo(b)fluoranthene	190,000	170	0.058	0.17	0.32
Benzo(g,h,i)perylene	190,000	180	< 0.051	0.087	0.20
Chrysene	190,000	230	< 0.051	0.12	0.19
Naphthalene	77	25	< 0.013	< 0.012	< 0.014
Phenanthrene	190,000	10,000	< 0.051	0.059	0.092
Pyrene	190,000	2,200	0.064	0.17	0.18

Notes:
Soil was analyzed for volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260 and semi-volatile organic compounds (SVOCs) by USEPA Method 8270. Samples for VOC analysis were collected using Terracores in conjunction with USEPA method 5035. Only detected constituents are shown; no exceedances were noted.
Detected concentrations of constituents were compared to the Pennsylvania Department of Environmental Protection (PADEP) Statewide Health Standards (SHS) Medium Specific Concentrations (MSCs) for Inorganic Regulated Substances in Soil. More specifically, Direct Contact values for Nonresidential MSCs for Surface Soil, Subsurface Soil, and Soil to Groundwater MSCs for Used Aquifer for Nonresidential Areas, total dissolved solids (TDS) of less than or equal to 2,500 milligrams per liter (mg/L).
The results after the slash is the result from the duplicate sample taken in the field.
mg/kg - milligrams per kilogram.
"<" - Less than the reporting limit.
ft bgs - feet below ground surface.

TABLE 1: Summary of Detected Constituents in Soil
Tank 30 Closure, Schuylkill River Tank Farm, Philadelphia, Pennsylvania

Constituent	PADEP Statewide Health Standards (SHS) Medium-Specific Concentrations (MSCs) for Inorganic Regulated Substances in Soil		PESRM-T30-16	PESRM-T30-17
	Direct Contact	Soil to Groundwater		
	Nonresidential MSCs	Used Aquifer, Nonresidential TDS ≤ 2,500	2.0-2.5 ft bgs	2.0-2.5 ft bgs
	Subsurface Soil 2-15 ft bgs		4/8/2024	4/8/2024
Volatile Organic Compounds (VOCs) (mg/kg)				
1,2,4-Trimethylbenzene	5,400	300	< 0.0012	0.17 / 0.050
1,3,5-Trimethylbenzene	5,400	93	< 0.0012	0.011 / 0.0039
Benzene	330	0.13	< 0.0012	0.0028 / 0.0023
Ethylbenzene	1,000	46	< 0.0012	0.0029 / 0.0015
Isopropylbenzene	10,000	2,500	< 0.0012	0.041 / 0.018
Toluene	10,000	44	< 0.0012	0.0029 / 0.0035
Semi-Volatile Organic Compounds (SVOCs) (mg/kg)				
Benzo(a)anthracene	190,000	340	0.096	< 0.051 / < 0.051
Benzo(a)pyrene	190,000	46	0.091	< 0.051 / < 0.051
Benzo(b)fluoranthene	190,000	170	0.14	0.073 / < 0.051
Benzo(g,h,i)perylene	190,000	180	0.071	< 0.051 / < 0.051
Chrysene	190,000	230	0.12	0.057 / < 0.051
Naphthalene	77	25	< 0.012	0.084 / 0.063
Phenanthrene	190,000	10,000	0.12	0.073 / < 0.051
Pyrene	190,000	2,200	0.21	0.070 / < 0.051

Notes:
Soil was analyzed for volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260 and semi-volatile organic compounds (SVOCs) by USEPA Method 8270. Samples for VOC analysis were collected using Terracores in conjunction with USEPA method 5035. Only detected constituents are shown; no exceedances were noted.
Detected concentrations of constituents were compared to the Pennsylvania Department of Environmental Protection (PADEP) Statewide Health Standards (SHS) Medium Specific Concentrations (MSCs) for Inorganic Regulated Substances in Soil. More specifically, Direct Contact values for Nonresidential MSCs for Surface Soil, Subsurface Soil, and Soil to Groundwater MSCs for Used Aquifer for Nonresidential Areas, total dissolved solids (TDS) of less than or equal to 2,500 milligrams per liter (mg/L).
The results after the slash is the result from the duplicate sample taken in the field.
mg/kg - milligrams per kilogram.
"<" - Less than the reporting limit.
ft bgs - feet below ground surface.

TABLE 2: Summary of Detected Constituents in Groundwater
Tank 30 Closure, Schuylkill River Tank Farm, Philadelphia, Pennsylvania

Constituent	PADEP Statewide Health Standards Medium-Specific (SHS) Concentrations (MSCs) for Regulated Substances in Groundwater Used Aquifer, Nonresidential TDS </= 2,500	PESRM-T30-GW-01
Volatile Organic Compounds (VOCs) (µg/L)		
Pyrene	130	2.3

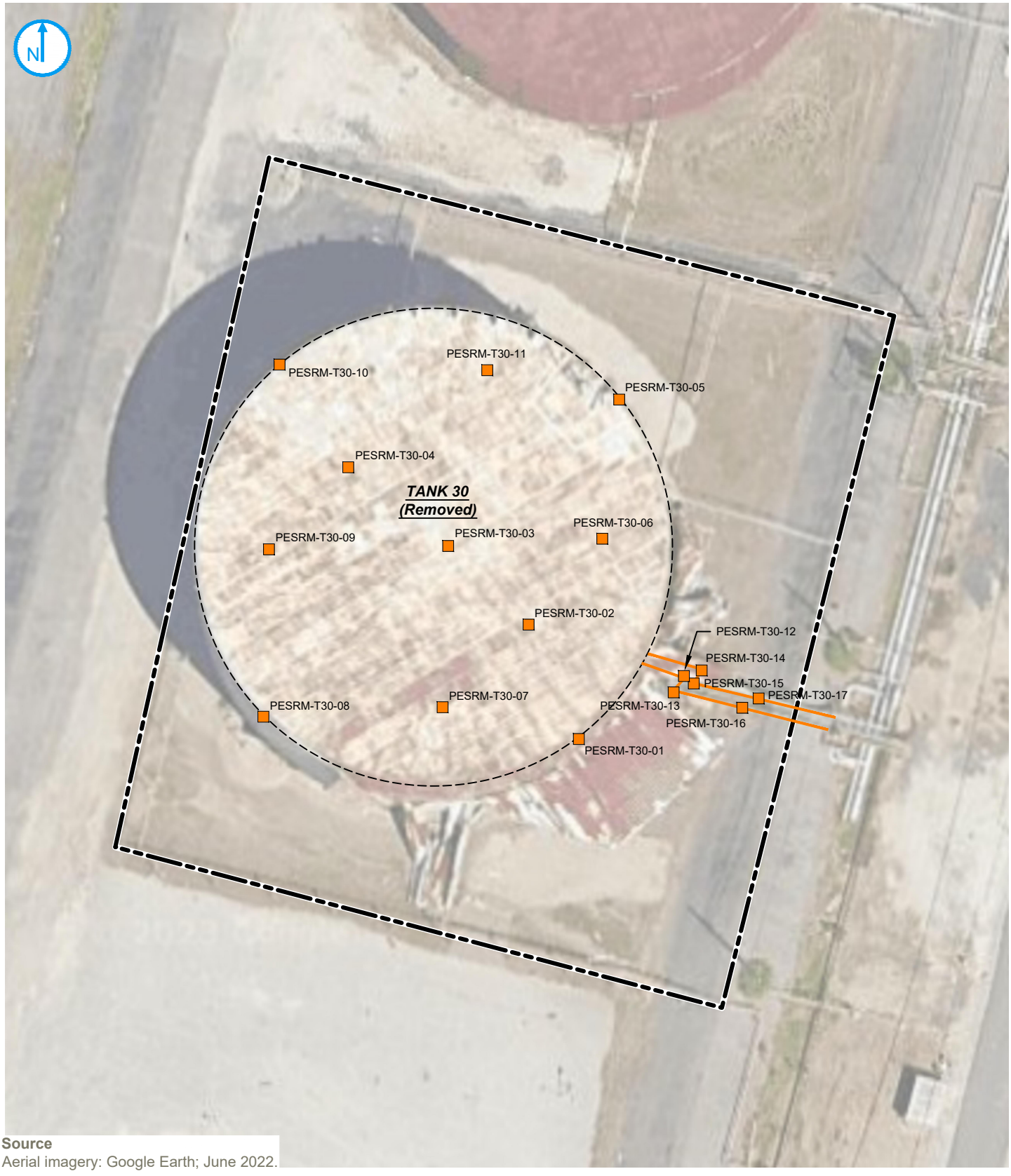
Notes:

Groundwater was analyzed for volatile organic compounds (VOCs) using United States Environmental Protection Agency (USEPA) Method 8260 and semi-volatile organic compounds (SVOCs) using USEPA Method 8270. Only detected constituents are shown.

Detected concentrations in groundwater were compared to the Pennsylvania Department of Environmental Protection (PADEP) Statewide Health Standards (SHS) Medium Specific Concentrations (MSCs) for Regulated Substances in Groundwater. More specifically, MSCs for Used Aquifer for Nonresidential Areas, total dissolved solids (TDS) of less than or equal to 2,500 milligrams per liter (mg/L).

"<" - Less than the reporting limit.

µg/L - micrograms per liter.



Source
Aerial imagery: Google Earth; June 2022.

SITE BOUNDARY (APPROXIMATE)
ABOVEGROUND PRODUCT LINE
INSTALLED SOIL BORING LOCATION

0 40 Feet

SAMPLE LOCATIONS

Bellwether District Holdings, LLC
Schuylkill River Tank Farm
3144 PASSYUNK AVENUE
PHILADELPHIA, PENNSYLVANIA

FIGURE 01

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY
RAMBOLL

Photographs taken during pipe removal.

APPENDIX A

Abbreviated 310B SCR and PADEP Approval

CORRECTIVE ACTION PROCESS REPORT/PLAN COVER SHEET

CHAPTER 245 - STORAGE TANK AND SPILL PREVENTION ACT

Storage Tank Facility ID #: 51-115577

Consultant Name: Ramboll US Consulting, Inc.

Consultant Mailing Address: 4245 North Fairfax Drive, Suite 700, Arlington, Virginia 22203

Consultant Email Address: Sstoneking@ramboll.com

Responsible Party Name: Philadelphia Energy Solutions Refining and Marketing LLC (PESRM)

Responsible Party Mailing Address: 111 S. Wacker Dr., Suite 3000, Chicago, IL 60606

Responsible Party Email Address: Anne Garr: agarr@hilcoglobal.com

Media of Concern: ☒ **Soil** ☐ **Groundwater**

Contaminant(s) (*e.g. unleaded gasoline*)**:** Fuel No. 6

(check all that apply to the enclosed submission)

☐ **Remedial Action Progress Report**

☐ **Risk Assessment Report** (***e.g. vapor intrusion, ecological, or human health risk calculations***)

☒ **Site Characterization Report – Section 245.310(b)**
- ☐ Residential ☒ Nonresidential

☐ **Site Characterization Report – Statewide Health or Background Standard**
- ☐ Residential ☐ Nonresidential

☐ **Site Characterization Report – Site Specific Standard**
- ☐ Residential ☐ Nonresidential

☐ **Remedial Action Plan – Statewide Health or Background Standard**
- ☐ Residential ☐ Nonresidential

☐ **Remedial Action Plan – Site Specific Standard**
- ☐ Residential ☐ Nonresidential

☐ **Remedial Action Completion Report – Statewide Health or Background Standard**
- ☐ Residential ☐ Nonresidential

☐ **Remedial Action Completion Report – Site Specific Standard**
- ☐ Residential ☐ Nonresidential

☐ **Post Remediation Care Report**

☐ **Environmental Covenant**
- ☐ Draft ☐ Final

☐ **Other:** _____

ABBREVIATED 310B SITE CHARACTERIZATION REPORT (SCR)

FACILITY I.D. NUMBER 51-115577
TANK NO. 022A, SCHUYKILL RIVER TANK FARM
3144 PASSYUNK AVE.
PHILADELPHIA, PA

Prepared on Behalf of:
Philadelphia Energy Solutions Refining and Marketing LLC (PESRM)

Prepared By:
Ramboll Americas Engineering Solutions, Inc. (RAES)

Date:
December 2023

Incident Number:
59035

Project Number:
1690028299_Conv

Version:
01

RAMBOLL

PROFESSIONAL GEOLOGIST STATEMENT

Pursuant to the requirements of the Pennsylvania Land Recycling and Environmental Remediation Standards Act (Pennsylvania Act 2 Program), adopted August 16, 1997, which state that:

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

I hearby 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 geology and hydrogeology presented in the attached report entitled:

> *Abbreviated 310B Site Characterization Report (SCR), Facility I.D. Number 51-115577, Tank No. 022A, Schuylkill River Tank Farm, 3144 Passyunk Ave., Philadelphia, PA, dated December 2023.*

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

William Kraft
PG-003902
Expires September 30, 2025

CONTENTS

TABLES

FIGURES

APPENDICES

1. INTRODUCTION

On behalf of Philadelphia Energy Solutions Refining and Marketing LLC (PESRM), Ramboll Americas Engineering Solutions (Ramboll) has prepared this Abbreviated 310B Site Characterization Report (SCR) for a reported release of heating oil product from two product lines associated with former aboveground storage tank (AST) Tank 022A (also known as GP SR-30 and P-43), at the Schuylkill River Tank Farm (SRTF or the "Property"), located at 3144 West Passyunk Avenue, Philadelphia, Pennsylvania (PA); Figure 1.1.[1] For the purposes of this report, "Site" refers to the parcel of land upon which Tank 022A was situated. This SCR has been prepared in general accordance with Title 25 of Pennsylvania Code (Pa. Code) §245.310(b).

The Site characterization accomplishes the objectives listed in §245.310(b), as outlined below.

(1) A concise statement that describes the release, including information such as the amount of regulated substance that was released, the extent of contamination and interim remedial actions taken under §245.306.

- A description of the release is presented in Section 2 of this report.
- Interim remedial actions are discussed in Section 3 of this report.

(2) Data demonstrating that the interim remedial actions have attained the Statewide Health Standard (SHS) for the Site in accordance with §250, Subchapter G (relating to demonstration of attainment).

- Attainment sample results are presented in Section 4 of this report.
- A discussion and demonstration of attainment is present in Section 5 of this report.

(3) The basis for selection of the residential or nonresidential SHS.

- Selection of standards is described in Section 5.

(4) The results of the evaluation of ecological receptors conducted in accordance with §250.311.

- An evaluation of ecological receptors is provided in Section 4.

(5) Additional information as identified in subsection (a) necessary to fully describe the release, the extent of contamination and the interim remedial actions taken to address the release.

- A description of the release is presented in Section 2 of this report.
- Interim remedial actions are discussed in Section 3 of this report.

[1] Ramboll notes that Tank 022A is located within the SRTF, which is physically located across the river from the listed address, which is associated with the Former Philadelphia Refinery.

2. SITE SETTING AND HISTORY

2.1 Site Location and Description of Release

The SRTF is located on the west side of the Schuylkill River (approximately 1.5 miles northwest of the Delaware River), and is approximately 4.5 miles southwest from downtown Philadelphia, Pennsylvania. Evergreen Resources Group, LLC[2] (Evergreen) is investigating the Former Philadelphia Refinery under the Pennsylvania Act 2 Program (ACT 2) and has divided the former refinery complex into 11 areas of interest (AOIs). The SRTF is designated as AOI 9 (see Figure 2.1). Tank 022A was located at the south end of the SRTF. Tank 022A had a capacity of approximately 5,527,200 gallons and was previously used to store No.2 heating oil and No. 6 heating oil.

Tank 022A was emptied of product and removed from the Site by NorthStar Contracting Group, Inc. (NorthStar) using an excavator mounted mechanical shear on April 13, 2023[3]. During the removal of Tank 022A, the valves on the two (2) aboveground product lines were turned to the off position and the tank was removed. The remaining aboveground product lines east of Tank 022A were not removed yet. Temporary flange covers were placed over the product piping by NorthStar within three feet of Tank 022A. On June 29, 2023, it was observed by Ramboll that the temporary flange covers had failed, and residual product that remained in an approximately one-foot section of piping between the valve and the temporary flange cover in each line had been released to the ground. Impacts appeared to be limited to surface and shallow subsurface soils over areas measuring approximately 4 square feet and 2 square feet, respectively beneath the two pipes. The Pennsylvania Department of Environmental Protection (PADEP) was verbally notified of the release on June 30, 2023. PADEP issued a letter to PESRM dated July 6, 2023, requiring actions to address the release including the conduct of initial response actions and performance of a site characterization in accordance with Section 245.309 of the Corrective Action Process (CAP) regulations under 25 Pennsylvania Code Chapter 245, Subchapter D. The Notification of Release form was submitted to PADEP on July 13, 2023.

2.2 SRTF History

The SRTF has an extensive history of petroleum transportation, storage, and processing. Petroleum-related activities began in portions of the SRTF in the 1860s when Atlantic Petroleum Company (Atlantic) established an oil distribution center in connection with a refinery situated on the east side of the Schuylkill River.

In 1993 Sunoco entered into a Consent Order and Agreement (CO&A) with the PADEP for investigation of the refinery; the CO&A was replaced with an amended agreement in 2003 which expanded the scope to include the SRTF as well as other areas.

The SRTF comprises approximately 211 acres. Portions of the SRTF were utilized as a product storage and transshipment tank farm handling finished distillate, liquid petroleum gas products (LPG), heating oils, and gasoline fuels. The SRTF is currently idle. Remedial investigation activities are being conducted at the SRTF by Evergreen under Act 2. The 2021 Second Remedial Investigation Report

[2] 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) n/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.

[3] PESRM plans to perform a tank closure assessment independent of this Abbreviated SCR.

(RIR) for the SRTF was approved by PADEP. PESRM acquired the Property in June 2020. Following PESRM's acquisition, tank farm operations continued under a designated third-party operator until approximately December 2021 at which point the tank farm was idled. Future site assessment and remediation activities will be conducted at the SRTF under Act 2 and Act 32 by both PESRM and Evergreen in accordance with the 2012 Buyer-Seller Agreement and the 2020 First Amendment to that Agreement.

2.3 Surrounding Area Use

The Site is located at the south end of the SRTF. A berm surrounds the site. The site is bounded to the east by a SRTF maintenance road and aboveground pipeline, to the south by a gravel surfaced parking pad and a SRTF maintenance road, to the north a bermed area that surrounded a former AST, and to the west by vacant land and an SRTF maintenance road. The SRTF is enclosed with a fence and is secured. The SRTF is bounded by another tank farm to the north, mixed commercial and industrial properties to the west, a narrow-wooded area, vehicle storage area, and the Schuylkill River to the east, and Mingo Creek to the south, beyond which are additional commercial and industrial properties.

3. INTERIM REMEDIAL ACTIONS

The following interim remedial actions were taken at Tank 022A as listed below.

- Temporary flange covers were removed and replaced with permanent flange covers on June 30, 2023 and July 5, 2023 by NorthStar.
- Excavation of visibly impacted soil was initiated on July 6, 2023. Surface material (i.e., gravel) was removed from beneath both flanges and placed into a 55-gallon drum. Subsequent to removal of the surface material, oil affected soil beneath each of the two pipes was hand excavated by NorthStar using a shovel and placed into a 55-gallon drum. Following excavation, interim soil samples were collected from beneath each of the two flanges to inform further excavation extent.
- Based on the results of the July 6 soil samples, additional soil excavation was performed by NorthStar on October 2, 2023. Additional soil was removed from within the footprint of the former excavation (i.e., beneath both flanges) using a shovel, and placed into two additional 55-gallon drums. The resulting excavation measured approximately 0.5 to 2.5 feet (ft) in depth, with the deepest excavation extending beneath the flanges, over an area of 2 ft by 9 ft. The approximate area of excavation is depicted on Figure 3.1.

All drummed material has been transported offsite for disposal at Republic Environmental Systems LLC of Hatfield, Pennsylvania by NorthStar (Appendix A).

4. ATTAINMENT SAMPLE RESULTS

To document adequate removal of material affected by the release in accordance with 25 Pa. Code Chapter 250.707(b)(1)(iii)(B)(VI), Ramboll collected two samples (T30A-021023, and T30B-021023) from the base of the excavation at depths of 1.0 to 1.5 ft and 2.0 to 2.5 ft below ground surface (bgs), respectively, using a trowel on October 2, 2023 (Figure 3.1); a duplicate soil sample was also collected. Soil samples were collected and placed into laboratory-provided sample containers, labeled, packaged on ice, and transported under chain-of-custody procedures to Eurofins Lancaster Laboratories Environmental Testing in Lancaster, Pennsylvania for the analysis of No. 2 heating oil and No. 6 heating oil constituents, including select volatile organic compounds (VOCs)[4] by United States Environmental Protection Agency (USEPA) method 8260, and select semi-volatile organic compounds (SVOCs) by USEPA method 8270, as outlined on *Table 2* of the *Site Assessment Sampling Requirements at Regulated Storage Tank System Closures Guidance Document* dated February 2022.

Results are summarized in Table 4.1 and complete laboratory analytical data reporting sheets are included as Appendix B. Concentrations of detected constituents were compared to the PADEP SHS Medium Specific Concentrations (MSCs) for nonresidential direct contact with surface soil, subsurface soil, and for soil to groundwater migration for nonresidential used aquifers with total dissolved solids (TDS) of less than or equal to 2,500 milligrams per liter (mg/L). Non-residential MSCs are appropriate for the Site as the current Site use is industrial, and Evergreen and PESRM have agreed that future Site use would be limited to non-residential use and that a land use restriction would be incorporated as part of the overall remedy for the SRTF. The SRTF is currently fenced and secured, and on-site work is conducted in accordance with a site health and safety plan. No constituents were detected at concentrations exceeding the MSCs.

4.1 Quality Assurance and Quality Control (QA/QC)

One duplicate soil sample was collected to document data reproducibility. During sampling activities, re-useable sampling equipment was decontaminated between sample locations using a non-phosphate detergent and tap water rinse. Following the completion of the sampling, an equipment rinse blank was collected for analysis of VOCs by USEPA method 8260 and SVOCs by USEPA method 8270. Additionally, Ramboll included trip blanks with each cooler sent to the lab for the analysis of VOCs by USEPA method 8260. Results, including laboratory quality assurance data, were reviewed to evaluate data quality. Reporting limits for all compounds were below the MSCs and no data quality concerns were identified.

4.2 Ecological Receptors

Ramboll reviewed ecological receptors including threatened species, endangered species, and species of concern that have been identified through a preliminary Pennsylvania Natural Diversity Inventory (PNDI) program search in conjunction with previously completed searches for the SRTF and general knowledge resulting from work at other nearby sites; see Appendix C. Species listed within 2,500 feet of the site include fish species (Atlantic sturgeon, shortnose sturgeon, and hickory shad) and one plant species (waterhemp ragweed). The nearest surface water body, the Mingo Creek, is located approximately 600 feet south of Tank 022A. The Site has been developed for industrial use for over

[4] Soil samples for VOCs were collected using TerraCores® in conjunction with USEPA method 5035.

100 years and the ground surface is gravel covered. As such, no impact to the listed aquatic species or plant species is anticipated in relation to the minor release of residual heating oil from Tank 022A.

5. DEMONSTRATION OF ATTAINMENT

Ramboll in conjunction with NorthStar performed interim remedial measures to address the observations outlined in the Notification of Release. Interim measures included the installation of permanent flange covers and the excavation of approximately 0.7 cubic yard of affected gravel and soil. Laboratory analytical results for two attainment soil samples (T30A-021023 and T30B-021023) and a duplicate sample indicate no constituents of concern exceeding applicable standards. Based on the results of the site characterization activities, no further site characterization is required.

6. REFERENCES

Langan. 2017. Remedial Investigation Report Addendum Area of Interest 9, Philadelphia Energy Solution Refining & Marketing, LLC, Philadelphia Refining Complex, Philadelphia, Pennsylvania. February 8.

Langan. 2015. Remedial Investigation Report Addendum Area of Interest 9, Philadelphia Energy Solution Refining & Marketing, LLC, Philadelphia Refining Complex, Philadelphia, Pennsylvania. February 8.

Owens, J.P., and Mindard, J.P. 1979. Upper Cenozoic Sediments of the Lower Delaware Valley and the Norther Delmarva Peninsula, New Jersey, Pennsylvania, Delaware, and Maryland: U.S. Geological Survey Professional Paper. 1067-D, 47 p.

Stantec Consulting Services, Inc. 2021. Sitewide Remedial Investigation Report Addendum, Former Philadelphia Refinery 3144 Passyunk Avenue, Philadelphia, Pennsylvania. May 20.

TABLES

TABLE 4.1: Summary of Detected Volatile Organic Compounds (VOCs) in Soil (2023)
Excavation Sampling
Tank 022A, Schuylkill River Tank Farm, Philadelphia, Pennsylvania

Constituent	PADEP Statewide Health Standards (SHSs) Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil			T30A-021023	T30B-021023	DUP-01-021023
	Direct Contact		Soil to Groundwater			
	Nonresidential MSCs		Used Aquifer, Nonresidential TDS </= 2,500	1.0-1.5 ft bgs	2.0-2.5 ft bgs	
	Surface Soil 0-2 ft bgs	Subsurface Soil 2-15 ft bgs		10/2/2023	10/2/2023	
Volatile Organic Compounds (VOCs) (mg/kg)						
1,2,4-Trimethylbenzene	4,700	5,400	300	0.0225	< 0.000232	< 0.000267
1,3,5-Trimethylbenzene	4,700	5,400	93	0.00827	< 0.000296	< 0.000341
Benzene	280	330	0.13	0.00325	< 0.000244	< 0.000280
Ethylbenzene	880	1,000	46	0.00156	< 0.000188	< 0.000216
Isopropylbenzene	10,000	10,000	2,500	0.00172	< 0.000269	< 0.000309
Naphthalene	66	77	25	0.0153	< 0.000387	< 0.000445
Toluene	10,000	10,000	44	0.00226	< 0.000221	< 0.000254

Notes:

Soil was analyzed for full list volatile organic compounds (VOCs) using United States Environmental Protection Agency (USEPA) Method 8260. Only detected constituents are shown.

Detected concentrations of VOCs in soil were compared to the Pennsylvania Department of Environmental Protection (PADEP) Statewide Health Standards (SHS) Medium Specific Concentrations (MSCs) for Organic Regulated Substances in Soil. More specifically, Direct Contact values for Nonresidential MSCs for Surface Soil and Subsurface Soil and Soil to Groundwater MSCs for Used Aquifer for Nonresidential Areas, total dissolved solids (TDS) of less than or equal to 2,500 milligrams per liter (mg/L).

mg/kg - milligrams per kilogram.

ft bgs - feet below ground surface.

"<" - Less than the method detection limit.

TABLE 4.1: Summary of Detected Semi-Volatile Organic Compounds (SVOCs) in Soil (2023)
Excavation Sampling
Tank 022A, Schuylkill River Tank Farm, Philadelphia, Pennsylvania

Constituent	PADEP Statewide Health Standards (SHSs) Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil			T30A-021023	T30B-021023	DUP-01-021023
	Direct Contact		Soil to Groundwater			
	Nonresidential MSCs		Used Aquifer, Nonresidential TDS </= 2,500	1.0-1.5 ft bgs	2.0-2.5 ft bgs	
	Surface Soil 0-2 ft bgs	Subsurface Soil 2-15 ft bgs		10/2/2023	10/2/2023	
Semi-Volatile Organic Compounds (SVOCs) (mg/kg)						
Anthracene	190,000	190,000	350	0.199 J	0.0493 J	0.0522 J
Benzo(a)anthracene	130	190,000	340	0.256	0.175	0.145
Benzo(a)pyrene	91	190,000	46	0.208	0.217	0.210
Benzo(b)fluoranthene	76	190,000	170	0.278	0.204	0.180
Benzo(g,h,i)perylene	190,000	190,000	180	0.116 J	0.143 J	0.166 J
Chrysene	760	190,000	230	0.323 J	0.436	0.372 J
Fluorene	130,000	190,000	3,800	0.312 J	0.0483 J	0.0393 J
Phenanthrene	190,000	190,000	10,000	1.070	0.110 J	0.0934 J
Pyrene	96,000	190,000	2,200	0.609	0.417	0.327 J

Notes:

Soil was analyzed for semi-volatile organic compounds (SVOCs) using United States Environmental Protection Agency (USEPA) Method 8270. Only detected constituents are shown.

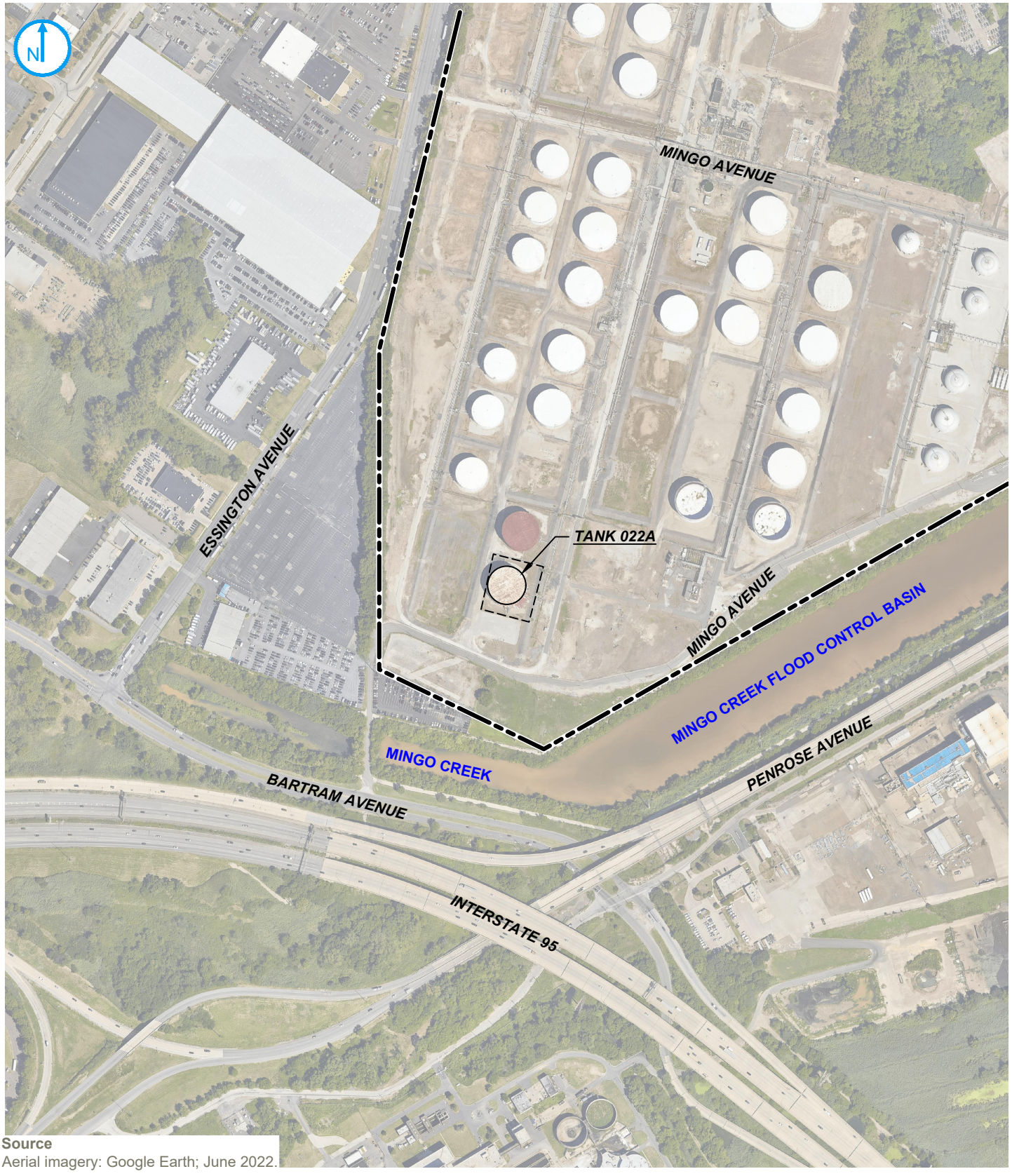
Detected concentrations of SVOCs in soil were compared to the Pennsylvania Department of Environmental Protection (PADEP) Statewide Health Standards (SHS) Medium Specific Concentrations (MSCs) for Organic Regulated Substances in Soil. More specifically, Direct Contact values for Nonresidential MSCs for Surface Soil and Subsurface Soil and Soil to Groundwater MSCs for Used Aquifer for Nonresidential Areas, total dissolved solids (TDS) of less than or equal to 2,500 milligrams per liter (mg/L).

mg/kg - milligrams per kilogram.

ft bgs - feet below ground surface.

J - Estimated value below the reporting limit.

FIGURES



Source
Aerial imagery: Google Earth; June 2022.

F:\Graemel\16900311149-001\SITE_OVERVIEW_TANK30.dwg

DESIGNER: GMILES

DATED: 6/9/2023

PROJECT: 16900311149-001

PROPERTY BOUNDARY (APPROXIMATE)

0 500 Feet

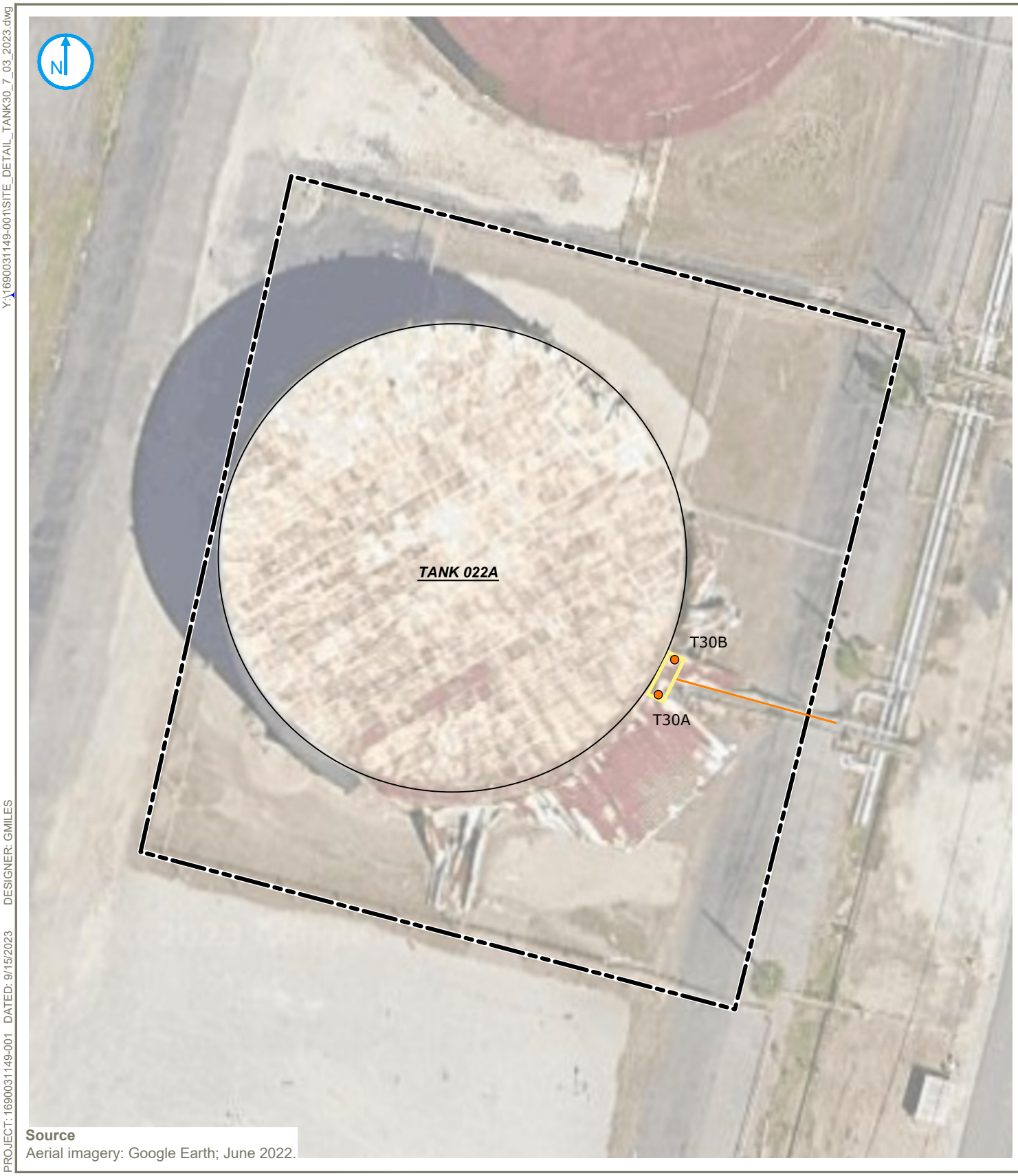
SITE LAYOUT

FIGURE 1.1

PHILADELPHIA REFINERY OPERATIONS
3144 PASSYUNIC AVENUE
PHILADELPHIA, PENNSYLVANIA

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL



Source
Aerial imagery: Google Earth; June 2022.

SITE BOUNDARY (APPROXIMATE)
ABOVEGROUND PRODUCT LINE
SOIL BORING LOCATION
AREA OF EXCAVATION

0 40 Feet

Post-Excavation Attainment Soil Sample Locations

FIGURE 3.1

SCHUYLKILL RIVER TANK FARM

3144 PASSYUNIC AVENUE
PHILADELPHIA, PENNSYLVANIA

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL

APPENDICES

APPENDIX A
WASTE DISPOSAL MANIFESTS

627865-23

11/2 5385098

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: PAD980555312
2. Page 1 of: 1
3. Emergency Response Phone: 609-338-3293
4. Manifest Tracking Number: 016609233 FLE

5. Generator's Name and Mailing Address
Philadelphia Energy Solutions Refining and Marketing LLC
3144 Passyunk Avenue
Philadelphia PA 19145
Generator's Phone: 440 228-1524

Generator's Site Address (if different than mailing address)
Philadelphia Energy Solutions Refining and Marketing LLC
70th Street and Essington Avenue
Philadelphia PA 19145

6. Transporter 1 Company Name: Active Environmental Techologies Inc
U.S. EPA ID Number: NJR986647105

7. Transporter 2 Company Name: REPUBLIC ENV SYS (TRANS GRP) LLC
U.S. EPA ID Number: PAD982661381

8. Designated Facility Name and Site Address
Republic Environmental Systems (PA) LLC
2869 Sandstone Dr
Hatfield PA 19440
Facility's Phone: 215 822-8995
U.S. EPA ID Number: PAD085690592

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3077, Hazardous waste, solid, n.o.s (lead) 9, PGIII	002	DM	01000	P	D008
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information: 1)(E) APPROVAL 2300019493-STAB07 ERG#171

SR-30 Soil

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Robert Amato — Agent for PESRM
Signature: [signature]
Month/Day/Year: 10 17 23

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: William Sweet — Signature: [signature] — Month/Day/Year: 10 17 23
Transporter 2 Printed/Typed Name: JESSICA PHUNG — Signature: [signature] — Month/Day/Year: 10 26 23

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H110 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: MAC VEKOUNA — Signature: [signature] — Month/Day/Year: 11 02 23

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

55/518-23 5339163 9/21

Form Approved. OMB No. 2050-0039

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number PAD980555312	2. Page 1 of 1	3. Emergency Response Phone 440-228-1524	4. Manifest Tracking Number 016609179 FLE

GENERATOR

5. Generator's Name and Mailing Address
Philadelphia Energy Solutions Refining and Marketing LLC
3144 Passyunk Avenue
Philadelphia PA 19145

Generator's Site Address (if different than mailing address)
Philadelphia Energy Solutions Refining and Marketing LLC
70th Street and Essington Avenue
Philadelphia PA 19145

Generator's Phone: 440 228-1524

6. Transporter 1 Company Name: Active Environmental Techologies Inc — U.S. EPA ID Number: NJR986647105

7. Transporter 2 Company Name: RepuBlic Env Sys (TransGroup) LLC — U.S. EPA ID Number: PAD982661381

8. Designated Facility Name and Site Address — U.S. EPA ID Number: PAD085690592
Republic Environmental Systems (PA) LLC
2869 Sandstone Dr
Hatfield PA 19440
Facility's Phone: 215 822-8995

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3077, Hazardous waste, solid, n.o.s (lead) 9, PGIII	001	DF 56 ~~DM~~	00500	P	D008
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information: 1)(E) APPROVAL 2300019493-STAB07 ERG#171

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Robert [illegible] Auth Agent for PES RM LLC — Signature — Month Day Year: 09 05 23

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:
Transporter signature (for exports only):

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Jullan Gonzalez — Signature — Month Day Year: 9 5 23
Transporter 2 Printed/Typed Name: Heidi Godshall — Signature — Month Day Year: 9 14 23

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H110			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: [illegible] — Signature — Month Day Year: 09 21 23

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

APPENDIX B
ANALYTICAL DATA REPORTING SHEETS FROM ATTAINMENT SAMPLES

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Taylor Carroll
Ramboll Americas Engineering Solutions
4245 Fairfax Dr
Suite 700
Arlington, Virginia 22203

Generated 10/9/2023 6:53:32 AM

JOB DESCRIPTION

Soil Sampling

JOB NUMBER

410-145266-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization

Generated
10/9/2023 6:53:32 AM

Authorized for release by
Marrissa Williams, Project Manager
Marrissa.Williams@et.eurofinsus.com
(717)556-7246

Compliance Statement

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

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

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

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

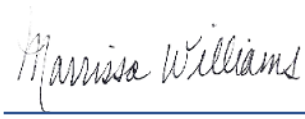


Table of Contents

Definitions/Glossary

Client: Ramboll Americas Engineering Solutions
Job ID: 410-145266-1
Project/Site: Soil Sampling

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Job ID: 410-145266-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-145266-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/3/2023 1:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

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

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

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

Detection Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 410-145266-1
Project/Site: Soil Sampling

Client Sample ID: T30A-021023
Lab Sample ID: 410-145266-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	22.5		1.01	0.249	ug/Kg	1	☼	8260D	Total/NA
1,3,5-Trimethylbenzene	8.27		1.01	0.318	ug/Kg	1	☼	8260D	Total/NA
Benzene	3.25		1.01	0.261	ug/Kg	1	☼	8260D	Total/NA
Ethylbenzene	1.56		1.01	0.202	ug/Kg	1	☼	8260D	Total/NA
Isopropylbenzene	1.72		1.01	0.289	ug/Kg	1	☼	8260D	Total/NA
Naphthalene	15.3		1.52	0.415	ug/Kg	1	☼	8260D	Total/NA
Toluene	2.26		1.01	0.237	ug/Kg	1	☼	8260D	Total/NA
Anthracene	199	J	354	10.8	ug/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	256		35.4	26.7	ug/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	208		35.4	9.46	ug/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	278		35.4	9.18	ug/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	116	J	354	10.5	ug/Kg	1	☼	8270E	Total/NA
Chrysene	323	J	354	14.9	ug/Kg	1	☼	8270E	Total/NA
Fluorene	312	J	354	10.4	ug/Kg	1	☼	8270E	Total/NA
Phenanthrene	1070		354	14.5	ug/Kg	1	☼	8270E	Total/NA
Pyrene	609		354	8.83	ug/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Ramboll Americas Engineering Solutions
Job ID: 410-145266-1
Project/Site: Soil Sampling

Client Sample ID: T30A-021023
Lab Sample ID: 410-145266-1
Date Collected: 10/02/23 10:10
Matrix: Solid
Date Received: 10/03/23 13:45
Percent Solids: 92.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS
Lab: Eurofins Edison

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	22.5		1.01	0.249	ug/Kg	☼	10/06/23 10:38	10/08/23 08:06	1
1,3,5-Trimethylbenzene	8.27		1.01	0.318	ug/Kg	☼	10/06/23 10:38	10/08/23 08:06	1
Benzene	3.25		1.01	0.261	ug/Kg	☼	10/06/23 10:38	10/08/23 08:06	1
Ethylbenzene	1.56		1.01	0.202	ug/Kg	☼	10/06/23 10:38	10/08/23 08:06	1
Isopropylbenzene	1.72		1.01	0.289	ug/Kg	☼	10/06/23 10:38	10/08/23 08:06	1
Methyl tert-butyl ether	<0.519		1.01	0.519	ug/Kg	☼	10/06/23 10:38	10/08/23 08:06	1
Naphthalene	15.3		1.52	0.415	ug/Kg	☼	10/06/23 10:38	10/08/23 08:06	1
Toluene	2.26		1.01	0.237	ug/Kg	☼	10/06/23 10:38	10/08/23 08:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*72 - 138*	*10/06/23 10:38*	*10/08/23 08:06*	*1*
4-Bromofluorobenzene	*102*		*63 - 139*	*10/06/23 10:38*	*10/08/23 08:06*	*1*
Dibromofluoromethane (Surr)	*111*		*54 - 150*	*10/06/23 10:38*	*10/08/23 08:06*	*1*
Toluene-d8 (Surr)	*112*		*71 - 126*	*10/06/23 10:38*	*10/08/23 08:06*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)
Lab: Eurofins Edison

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	199	J	354	10.8	ug/Kg	☼	10/04/23 10:59	10/05/23 00:05	1
Benzo[a]anthracene	256		35.4	26.7	ug/Kg	☼	10/04/23 10:59	10/05/23 00:05	1
Benzo[a]pyrene	208		35.4	9.46	ug/Kg	☼	10/04/23 10:59	10/05/23 00:05	1
Benzo[b]fluoranthene	278		35.4	9.18	ug/Kg	☼	10/04/23 10:59	10/05/23 00:05	1
Benzo[g,h,i]perylene	116	J	354	10.5	ug/Kg	☼	10/04/23 10:59	10/05/23 00:05	1
Chrysene	323	J	354	14.9	ug/Kg	☼	10/04/23 10:59	10/05/23 00:05	1
Fluorene	312	J	354	10.4	ug/Kg	☼	10/04/23 10:59	10/05/23 00:05	1
Phenanthrene	1070		354	14.5	ug/Kg	☼	10/04/23 10:59	10/05/23 00:05	1
Pyrene	609		354	8.83	ug/Kg	☼	10/04/23 10:59	10/05/23 00:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*61*		*24 - 137*	*10/04/23 10:59*	*10/05/23 00:05*	*1*
2-Fluorobiphenyl	*66*		*48 - 120*	*10/04/23 10:59*	*10/05/23 00:05*	*1*
2-Fluorophenol (Surr)	*60*		*31 - 120*	*10/04/23 10:59*	*10/05/23 00:05*	*1*
Nitrobenzene-d5 (Surr)	*57*		*38 - 120*	*10/04/23 10:59*	*10/05/23 00:05*	*1*
Phenol-d5 (Surr)	*65*		*39 - 120*	*10/04/23 10:59*	*10/05/23 00:05*	*1*
Terphenyl-d14 (Surr)	*65*		*25 - 126*	*10/04/23 10:59*	*10/05/23 00:05*	*1*

General Chemistry
Lab: Eurofins Edison

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	7.1		1.0	1.0	%			10/03/23 21:55	1
Percent Solids (EPA Moisture)	92.9		1.0	1.0	%			10/03/23 21:55	1

Surrogate Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: Soil Sampling

Job ID: 410-145266-1

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	(72-138)	(63-139)	(54-150)	(71-126)
410-145266-1	T30A-021023	121	102	111	112
LCS 460-936893/3	Lab Control Sample	89	82	89	95
LCSD 460-936893/4	Lab Control Sample Dup	93	86	94	97
MB 460-936893/7	Method Blank	94	90	95	96

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(24-137)	(48-120)	(31-120)	(38-120)	(39-120)	(25-126)
410-145266-1	T30A-021023	61	66	60	57	65	65
LCS 460-936131/2-A	Lab Control Sample	88	87	87	88	90	103
LCSD 460-936131/3-A	Lab Control Sample Dup	91	89	90	91	91	106
MB 460-936131/1-A	Method Blank	89	90	91	93	93	110

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

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

Lab Sample ID: MB 460-936893/7
Matrix: Solid
Analysis Batch: 936893

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.246		1.00	0.246	ug/Kg			10/08/23 07:13	1
1,3,5-Trimethylbenzene	<0.314		1.00	0.314	ug/Kg			10/08/23 07:13	1
Benzene	<0.258		1.00	0.258	ug/Kg			10/08/23 07:13	1
Ethylbenzene	<0.199		1.00	0.199	ug/Kg			10/08/23 07:13	1
Isopropylbenzene	<0.285		1.00	0.285	ug/Kg			10/08/23 07:13	1
Methyl tert-butyl ether	<0.512		1.00	0.512	ug/Kg			10/08/23 07:13	1
Naphthalene	<0.410		1.50	0.410	ug/Kg			10/08/23 07:13	1
Toluene	<0.234		1.00	0.234	ug/Kg			10/08/23 07:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*72 - 138*		*10/08/23 07:13*	*1*
4-Bromofluorobenzene	*90*		*63 - 139*		*10/08/23 07:13*	*1*
Dibromofluoromethane (Surr)	*95*		*54 - 150*		*10/08/23 07:13*	*1*
Toluene-d8 (Surr)	*96*		*71 - 126*		*10/08/23 07:13*	*1*

Lab Sample ID: LCS 460-936893/3
Matrix: Solid
Analysis Batch: 936893

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2,4-Trimethylbenzene			20.0	21.32		ug/Kg		107	71 - 120		
1,3,5-Trimethylbenzene			20.0	21.37		ug/Kg		107	70 - 120		
Benzene			20.0	19.27		ug/Kg		96	75 - 130		
Ethylbenzene			20.0	18.14		ug/Kg		91	80 - 120		
Isopropylbenzene			20.0	18.14		ug/Kg		91	80 - 120		
Methyl tert-butyl ether			20.0	17.33		ug/Kg		87	74 - 125		
Naphthalene			20.0	18.52		ug/Kg		93	42 - 150		
Toluene			20.0	18.64		ug/Kg		93	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*72 - 138*
4-Bromofluorobenzene	*82*		*63 - 139*
Dibromofluoromethane (Surr)	*89*		*54 - 150*
Toluene-d8 (Surr)	*95*		*71 - 126*

Lab Sample ID: LCSD 460-936893/4
Matrix: Solid
Analysis Batch: 936893

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
1,2,4-Trimethylbenzene			20.0	21.70		ug/Kg		108	71 - 120	2	30
1,3,5-Trimethylbenzene			20.0	21.68		ug/Kg		108	70 - 120	1	30
Benzene			20.0	18.84		ug/Kg		94	75 - 130	2	30
Ethylbenzene			20.0	18.57		ug/Kg		93	80 - 120	2	30
Isopropylbenzene			20.0	18.57		ug/Kg		93	80 - 120	2	30
Methyl tert-butyl ether			20.0	18.28		ug/Kg		91	74 - 125	5	30
Naphthalene			20.0	19.37		ug/Kg		97	42 - 150	5	30
Toluene			20.0	18.73		ug/Kg		94	80 - 120	0	30

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*93*		*72 - 138*
4-Bromofluorobenzene	*86*		*63 - 139*
Dibromofluoromethane (Surr)	*94*		*54 - 150*
Toluene-d8 (Surr)	*97*		*71 - 126*

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

Lab Sample ID: MB 460-936131/1-A
Matrix: Solid
Analysis Batch: 936212

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 936131

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<10.1		330	10.1	ug/Kg		10/04/23 10:59	10/04/23 19:13	1
Benzo[a]anthracene	<24.9		33.0	24.9	ug/Kg		10/04/23 10:59	10/04/23 19:13	1
Benzo[a]pyrene	<8.81		33.0	8.81	ug/Kg		10/04/23 10:59	10/04/23 19:13	1
Benzo[b]fluoranthene	<8.56		33.0	8.56	ug/Kg		10/04/23 10:59	10/04/23 19:13	1
Benzo[g,h,i]perylene	<9.76		330	9.76	ug/Kg		10/04/23 10:59	10/04/23 19:13	1
Chrysene	<13.9		330	13.9	ug/Kg		10/04/23 10:59	10/04/23 19:13	1
Fluorene	<9.68		330	9.68	ug/Kg		10/04/23 10:59	10/04/23 19:13	1
Phenanthrene	<13.5		330	13.5	ug/Kg		10/04/23 10:59	10/04/23 19:13	1
Pyrene	<8.23		330	8.23	ug/Kg		10/04/23 10:59	10/04/23 19:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	*89*		*24 - 137*	*10/04/23 10:59*	*10/04/23 19:13*	*1*
2-Fluorobiphenyl	*90*		*48 - 120*	*10/04/23 10:59*	*10/04/23 19:13*	*1*
2-Fluorophenol (Surr)	*91*		*31 - 120*	*10/04/23 10:59*	*10/04/23 19:13*	*1*
Nitrobenzene-d5 (Surr)	*93*		*38 - 120*	*10/04/23 10:59*	*10/04/23 19:13*	*1*
Phenol-d5 (Surr)	*93*		*39 - 120*	*10/04/23 10:59*	*10/04/23 19:13*	*1*
Terphenyl-d14 (Surr)	*110*		*25 - 126*	*10/04/23 10:59*	*10/04/23 19:13*	*1*

Lab Sample ID: LCS 460-936131/2-A
Matrix: Solid
Analysis Batch: 936212

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 936131

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Anthracene	3330	2811		ug/Kg		84	67 - 120
Benzo[a]anthracene	3330	2969		ug/Kg		89	69 - 120
Benzo[a]pyrene	3330	3211		ug/Kg		96	66 - 123
Benzo[b]fluoranthene	3330	3186		ug/Kg		96	70 - 125
Benzo[g,h,i]perylene	3330	2785		ug/Kg		84	66 - 120
Chrysene	3330	2941		ug/Kg		88	63 - 120
Fluorene	3330	2699		ug/Kg		81	70 - 120
Phenanthrene	3330	2856		ug/Kg		86	66 - 120
Pyrene	3330	3177		ug/Kg		95	67 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	*88*		*24 - 137*
2-Fluorobiphenyl	*87*		*48 - 120*
2-Fluorophenol (Surr)	*87*		*31 - 120*
Nitrobenzene-d5 (Surr)	*88*		*38 - 120*
Phenol-d5 (Surr)	*90*		*39 - 120*

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

Lab Sample ID: LCS 460-936131/2-A
Matrix: Solid
Analysis Batch: 936212

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 936131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*103*		*25 - 126*

Lab Sample ID: LCSD 460-936131/3-A
Matrix: Solid
Analysis Batch: 936212

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 936131

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Anthracene			3330	2918		ug/Kg		88	67 - 120	4	30
Benzo[a]anthracene			3330	3028		ug/Kg		91	69 - 120	2	30
Benzo[a]pyrene			3330	3319		ug/Kg		100	66 - 123	3	30
Benzo[b]fluoranthene			3330	3224		ug/Kg		97	70 - 125	1	30
Benzo[g,h,i]perylene			3330	2894		ug/Kg		87	66 - 120	4	30
Chrysene			3330	2999		ug/Kg		90	63 - 120	2	30
Fluorene			3330	2772		ug/Kg		83	70 - 120	3	30
Phenanthrene			3330	2956		ug/Kg		89	66 - 120	3	30
Pyrene			3330	3291		ug/Kg		99	67 - 121	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*91*		*24 - 137*
2-Fluorobiphenyl	*89*		*48 - 120*
2-Fluorophenol (Surr)	*90*		*31 - 120*
Nitrobenzene-d5 (Surr)	*91*		*38 - 120*
Phenol-d5 (Surr)	*91*		*39 - 120*
Terphenyl-d14 (Surr)	*106*		*25 - 126*

Method: Moisture - Percent Moisture

Lab Sample ID: 410-145266-1 DU
Matrix: Solid
Analysis Batch: 936024

Client Sample ID: T30A-021023
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	7.1			6.4		%				10	20
Percent Solids	92.9			93.6		%				0.7	20

QC Association Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: Soil Sampling

Job ID: 410-145266-1

GC/MS VOA

Prep Batch: 936645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-145266-1	T30A-021023	Total/NA	Solid	5035	

Analysis Batch: 936893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-145266-1	T30A-021023	Total/NA	Solid	8260D	936645
MB 460-936893/7	Method Blank	Total/NA	Solid	8260D	
LCS 460-936893/3	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-936893/4	Lab Control Sample Dup	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 936131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-145266-1	T30A-021023	Total/NA	Solid	3546	
MB 460-936131/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-936131/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-936131/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 936212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-145266-1	T30A-021023	Total/NA	Solid	8270E	936131
MB 460-936131/1-A	Method Blank	Total/NA	Solid	8270E	936131
LCS 460-936131/2-A	Lab Control Sample	Total/NA	Solid	8270E	936131
LCSD 460-936131/3-A	Lab Control Sample Dup	Total/NA	Solid	8270E	936131

General Chemistry

Analysis Batch: 936024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-145266-1	T30A-021023	Total/NA	Solid	Moisture	
410-145266-1 DU	T30A-021023	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Job ID: 410-145266-1
Project/Site: Soil Sampling

Client Sample ID: T30A-021023
Lab Sample ID: 410-145266-1
Date Collected: 10/02/23 10:10
Matrix: Solid
Date Received: 10/03/23 13:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	936024	CJC	EET EDI	10/03/23 21:55

Client Sample ID: T30A-021023
Lab Sample ID: 410-145266-1
Date Collected: 10/02/23 10:10
Matrix: Solid
Date Received: 10/03/23 13:45
Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			936645	SAS	EET EDI	10/06/23 10:38
Total/NA	Analysis	8260D		1	936893	VBP	EET EDI	10/08/23 08:06
Total/NA	Prep	3546			936131	FHW	EET EDI	10/04/23 10:59
Total/NA	Analysis	8270E		1	936212	MME	EET EDI	10/05/23 00:05

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 410-145266-1
Project/Site: Soil Sampling

Laboratory: Eurofins Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0818	01-30-24
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-01-24
Georgia	State	12028 (NJ)	06-30-24
Massachusetts	State	M-NJ312	06-30-24
New Jersey	NELAP	12028	06-30-24
New York	NELAP	11452	04-01-24
Pennsylvania	NELAP	68-00522	03-01-24
Rhode Island	State	LAO00376	12-30-23
USDA	US Federal Programs	P330-20-00244	11-03-23

Method Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 410-145266-1
Project/Site: Soil Sampling

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET EDI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET EDI
Moisture	Percent Moisture	EPA	EET EDI
3546	Microwave Extraction	SW846	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

Sample Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 410-145266-1
Project/Site: Soil Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-145266-1	T30A-021023	Solid	10/02/23 10:10	10/03/23 13:45

Eurofins Lancaster Laboratories Environme
2425 New Holland Pike
Lancaster PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins

Client Information	Sampler: T. Carroll	Lab PM: Williams Marrissa C	Carrier Tracking No(s):	COC No: 410-99026-28159 1
Client Contact: Mr McNeill Bauer	Phone: 914 374 0003	E-Mail: Marrissa.Williams@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Ramboll US Corporation	PWSID:			Job #: 410-145266
Address: 4245 Fairfax Dr Suite 700	Due Date Requested: 10/9 & 10/16			
City: Arlington	TAT Requested (days): 5 & 10 day			
State, Zip: VA, 22203	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: ~~MBAUER@ramboll.com~~ TCarroll@ramboll.com	WO #:			
Project Name: Soil Sampling	Project #: 41013830			
Site: ~~HRP Preston~~ SRTF Phili	SSOW#:			

Analysis Requested

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify), Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D TCL VOCs 4.3	8270E TCL 4.3 SVOCs	8260D TCL VOCs 4.3	Total Number of containers	Special Instructions/Note:
Preservation Code:							F	N	A		
T30A-021023	10/2/23	10:10	G	Solid	N	N	X	X			
RB-021023	10/2/23	11:50	G	~~W~~ Solid	N	N	X	X			
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							

410-145266 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I II III IV Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
T. Carroll	10/2/23 12:30	Ramboll		10/2/23 1230	
	10/2/23			10/2/23 1635	ESA
	10/2/23 1800		Blake	10/2/23 18:00	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

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10/9/2023

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 410-145266

Number of Coolers: 1 IR Gun # 10

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	3.8 °C	4.0 °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.*

EDS-WI-038, Rev 4.1
10/22/2019

Initials: _____ Date: 10/2/23

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 410-145266-1

Login Number: 145266
List Number: 2
Creator: Rivera, Kenneth

List Source: Eurofins Edison
List Creation: 10/03/23 05:46 PM

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	4°C, IR #10
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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Taylor Carroll
Ramboll Americas Engineering Solutions
4245 Fairfax Dr
Suite 700
Arlington, Virginia 22203

Generated 10/9/2023 7:18:16 AM

JOB DESCRIPTION

SRTF Philly

JOB NUMBER

410-145253-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization

Generated
10/9/2023 7:18:16 AM

Authorized for release by
Marrissa Williams, Project Manager
Marrissa.Williams@et.eurofinsus.com
(717)556-7246

Compliance Statement

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

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

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

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

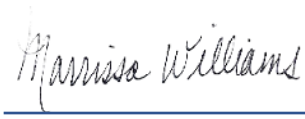


Table of Contents

Client: Ramboll Americas Engineering Solutions
Job ID: 410-145253-1
Project/Site: SRTF Philly

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Job ID: 410-145253-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-145253-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/3/2023 1:23 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

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

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

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

Detection Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 410-145253-1
Project/Site: SRTF Philly

Client Sample ID: T30B-021023 — Lab Sample ID: 410-145253-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	49.3	J	360	11.0	ug/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	175		36.0	27.2	ug/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	217		36.0	9.62	ug/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	204		36.0	9.34	ug/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	143	J	360	10.6	ug/Kg	1	☼	8270E	Total/NA
Chrysene	436		360	15.2	ug/Kg	1	☼	8270E	Total/NA
Fluorene	48.3	J	360	10.6	ug/Kg	1	☼	8270E	Total/NA
Phenanthrene	110	J	360	14.7	ug/Kg	1	☼	8270E	Total/NA
Pyrene	417		360	8.98	ug/Kg	1	☼	8270E	Total/NA

Client Sample ID: DUP-01-021023 — Lab Sample ID: 410-145253-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	52.2	J	381	11.6	ug/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	145		38.1	28.7	ug/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	210		38.1	10.2	ug/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	180		38.1	9.88	ug/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	166	J	381	11.3	ug/Kg	1	☼	8270E	Total/NA
Chrysene	372	J	381	16.0	ug/Kg	1	☼	8270E	Total/NA
Fluorene	39.3	J	381	11.2	ug/Kg	1	☼	8270E	Total/NA
Phenanthrene	93.4	J	381	15.6	ug/Kg	1	☼	8270E	Total/NA
Pyrene	327	J	381	9.49	ug/Kg	1	☼	8270E	Total/NA

Client Sample ID: TB-01-021023 — Lab Sample ID: 410-145253-4

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: T30B-021023
Lab Sample ID: 410-145253-1
Date Collected: 10/02/23 10:00
Matrix: Solid
Date Received: 10/03/23 13:23
Percent Solids: 91.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS
Lab: Eurofins Edison

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.232		0.944	0.232	ug/Kg	☼	10/06/23 10:39	10/08/23 08:31	1
1,3,5-Trimethylbenzene	<0.296		0.944	0.296	ug/Kg	☼	10/06/23 10:39	10/08/23 08:31	1
Benzene	<0.244		0.944	0.244	ug/Kg	☼	10/06/23 10:39	10/08/23 08:31	1
Ethylbenzene	<0.188		0.944	0.188	ug/Kg	☼	10/06/23 10:39	10/08/23 08:31	1
Isopropylbenzene	<0.269		0.944	0.269	ug/Kg	☼	10/06/23 10:39	10/08/23 08:31	1
Methyl tert-butyl ether	<0.483		0.944	0.483	ug/Kg	☼	10/06/23 10:39	10/08/23 08:31	1
Naphthalene	<0.387		1.42	0.387	ug/Kg	☼	10/06/23 10:39	10/08/23 08:31	1
Toluene	<0.221		0.944	0.221	ug/Kg	☼	10/06/23 10:39	10/08/23 08:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 138*	*10/06/23 10:39*	*10/08/23 08:31*	*1*
4-Bromofluorobenzene	*92*		*63 - 139*	*10/06/23 10:39*	*10/08/23 08:31*	*1*
Dibromofluoromethane (Surr)	*93*		*54 - 150*	*10/06/23 10:39*	*10/08/23 08:31*	*1*
Toluene-d8 (Surr)	*91*		*71 - 126*	*10/06/23 10:39*	*10/08/23 08:31*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)
Lab: Eurofins Edison

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**49.3**	**J**	360	11.0	ug/Kg	☼	10/04/23 10:59	10/05/23 00:27	1
Benzo[a]anthracene	**175**		36.0	27.2	ug/Kg	☼	10/04/23 10:59	10/05/23 00:27	1
Benzo[a]pyrene	**217**		36.0	9.62	ug/Kg	☼	10/04/23 10:59	10/05/23 00:27	1
Benzo[b]fluoranthene	**204**		36.0	9.34	ug/Kg	☼	10/04/23 10:59	10/05/23 00:27	1
Benzo[g,h,i]perylene	**143**	**J**	360	10.6	ug/Kg	☼	10/04/23 10:59	10/05/23 00:27	1
Chrysene	**436**		360	15.2	ug/Kg	☼	10/04/23 10:59	10/05/23 00:27	1
Fluorene	**48.3**	**J**	360	10.6	ug/Kg	☼	10/04/23 10:59	10/05/23 00:27	1
Phenanthrene	**110**	**J**	360	14.7	ug/Kg	☼	10/04/23 10:59	10/05/23 00:27	1
Pyrene	**417**		360	8.98	ug/Kg	☼	10/04/23 10:59	10/05/23 00:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*70*		*24 - 137*	*10/04/23 10:59*	*10/05/23 00:27*	*1*
2-Fluorobiphenyl	*73*		*48 - 120*	*10/04/23 10:59*	*10/05/23 00:27*	*1*
2-Fluorophenol (Surr)	*65*		*31 - 120*	*10/04/23 10:59*	*10/05/23 00:27*	*1*
Nitrobenzene-d5 (Surr)	*66*		*38 - 120*	*10/04/23 10:59*	*10/05/23 00:27*	*1*
Phenol-d5 (Surr)	*70*		*39 - 120*	*10/04/23 10:59*	*10/05/23 00:27*	*1*
Terphenyl-d14 (Surr)	*75*		*25 - 126*	*10/04/23 10:59*	*10/05/23 00:27*	*1*

General Chemistry
Lab: Eurofins Edison

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**8.7**		1.0	1.0	%			10/03/23 21:55	1
Percent Solids (EPA Moisture)	**91.3**		1.0	1.0	%			10/03/23 21:55	1

Client Sample ID: DUP-01-021023
Lab Sample ID: 410-145253-2
Date Collected: 10/02/23 00:00
Matrix: Solid
Date Received: 10/03/23 13:23
Percent Solids: 86.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS
Lab: Eurofins Edison

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.267		1.08	0.267	ug/Kg	☼	10/06/23 10:39	10/08/23 08:56	1

Client Sample ID: DUP-01-021023
Lab Sample ID: 410-145253-2

Date Collected: 10/02/23 00:00
Matrix: Solid
Date Received: 10/03/23 13:23
Percent Solids: 86.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)
Lab: Eurofins Edison

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	<0.341		1.08	0.341	ug/Kg	☼	10/06/23 10:39	10/08/23 08:56	1
Benzene	<0.280		1.08	0.280	ug/Kg	☼	10/06/23 10:39	10/08/23 08:56	1
Ethylbenzene	<0.216		1.08	0.216	ug/Kg	☼	10/06/23 10:39	10/08/23 08:56	1
Isopropylbenzene	<0.309		1.08	0.309	ug/Kg	☼	10/06/23 10:39	10/08/23 08:56	1
Methyl tert-butyl ether	<0.555		1.08	0.555	ug/Kg	☼	10/06/23 10:39	10/08/23 08:56	1
Naphthalene	<0.445		1.63	0.445	ug/Kg	☼	10/06/23 10:39	10/08/23 08:56	1
Toluene	<0.254		1.08	0.254	ug/Kg	☼	10/06/23 10:39	10/08/23 08:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 138*	*10/06/23 10:39*	*10/08/23 08:56*	*1*
4-Bromofluorobenzene	*91*		*63 - 139*	*10/06/23 10:39*	*10/08/23 08:56*	*1*
Dibromofluoromethane (Surr)	*95*		*54 - 150*	*10/06/23 10:39*	*10/08/23 08:56*	*1*
Toluene-d8 (Surr)	*92*		*71 - 126*	*10/06/23 10:39*	*10/08/23 08:56*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)
Lab: Eurofins Edison

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**52.2**	**J**	381	11.6	ug/Kg	☼	10/04/23 10:59	10/05/23 00:50	1
Benzo[a]anthracene	**145**		38.1	28.7	ug/Kg	☼	10/04/23 10:59	10/05/23 00:50	1
Benzo[a]pyrene	**210**		38.1	10.2	ug/Kg	☼	10/04/23 10:59	10/05/23 00:50	1
Benzo[b]fluoranthene	**180**		38.1	9.88	ug/Kg	☼	10/04/23 10:59	10/05/23 00:50	1
Benzo[g,h,i]perylene	**166**	**J**	381	11.3	ug/Kg	☼	10/04/23 10:59	10/05/23 00:50	1
Chrysene	**372**	**J**	381	16.0	ug/Kg	☼	10/04/23 10:59	10/05/23 00:50	1
Fluorene	**39.3**	**J**	381	11.2	ug/Kg	☼	10/04/23 10:59	10/05/23 00:50	1
Phenanthrene	**93.4**	**J**	381	15.6	ug/Kg	☼	10/04/23 10:59	10/05/23 00:50	1
Pyrene	**327**	**J**	381	9.49	ug/Kg	☼	10/04/23 10:59	10/05/23 00:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*72*		*24 - 137*	*10/04/23 10:59*	*10/05/23 00:50*	*1*
2-Fluorobiphenyl	*76*		*48 - 120*	*10/04/23 10:59*	*10/05/23 00:50*	*1*
2-Fluorophenol (Surr)	*63*		*31 - 120*	*10/04/23 10:59*	*10/05/23 00:50*	*1*
Nitrobenzene-d5 (Surr)	*63*		*38 - 120*	*10/04/23 10:59*	*10/05/23 00:50*	*1*
Phenol-d5 (Surr)	*67*		*39 - 120*	*10/04/23 10:59*	*10/05/23 00:50*	*1*
Terphenyl-d14 (Surr)	*73*		*25 - 126*	*10/04/23 10:59*	*10/05/23 00:50*	*1*

General Chemistry
Lab: Eurofins Edison

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**13.5**		1.0	1.0	%			10/03/23 21:55	1
Percent Solids (EPA Moisture)	**86.5**		1.0	1.0	%			10/03/23 21:55	1

Client Sample ID: TB-01-021023
Lab Sample ID: 410-145253-4

Date Collected: 10/02/23 00:00
Matrix: Water
Date Received: 10/03/23 13:23

Method: SW846 8260D - Volatile Organic Compounds by GC/MS
Lab: Eurofins Edison

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.203		1.00	0.203	ug/L			10/08/23 12:17	1
Toluene	<0.379		1.00	0.379	ug/L			10/08/23 12:17	1

Client: Ramboll Americas Engineering Solutions
Job ID: 410-145253-1
Project/Site: SRTF Philly

Client Sample ID: TB-01-021023
Lab Sample ID: 410-145253-4
Date Collected: 10/02/23 00:00
Matrix: Water
Date Received: 10/03/23 13:23

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)
Lab: Eurofins Edison

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.298		1.00	0.298	ug/L			10/08/23 12:17	1
Methyl tert-butyl ether	<0.216		1.00	0.216	ug/L			10/08/23 12:17	1
Naphthalene	<0.881		1.00	0.881	ug/L			10/08/23 12:17	1
1,2,4-Trimethylbenzene	<0.374		1.00	0.374	ug/L			10/08/23 12:17	1
1,3,5-Trimethylbenzene	<0.326		1.00	0.326	ug/L			10/08/23 12:17	1
Isopropylbenzene	<0.336		1.00	0.336	ug/L			10/08/23 12:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 128*		*10/08/23 12:17*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/08/23 12:17*	*1*
4-Bromofluorobenzene	*100*		*76 - 120*		*10/08/23 12:17*	*1*
Dibromofluoromethane (Surr)	*96*		*77 - 132*		*10/08/23 12:17*	*1*

Surrogate Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: SRTF Philly

Job ID: 410-145253-1

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	(72-138)	(63-139)	(54-150)	(71-126)
410-145253-1	T30B-021023	100	92	93	91
410-145253-2	DUP-01-021023	100	91	95	92
LCS 460-936893/3	Lab Control Sample	89	82	89	95
LCSD 460-936893/4	Lab Control Sample Dup	93	86	94	97
MB 460-936893/7	Method Blank	94	90	95	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: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(70-128)	(80-120)	(76-120)	(77-132)
410-145253-4	TB-01-021023	93	97	100	96
LCS 460-936909/3	Lab Control Sample	89	99	100	93
MB 460-936909/8	Method Blank	92	99	101	93

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(24-137)	(48-120)	(31-120)	(38-120)	(39-120)	(25-126)
410-145253-1	T30B-021023	70	73	65	66	70	75
410-145253-2	DUP-01-021023	72	76	63	63	67	73
LCS 460-936131/2-A	Lab Control Sample	88	87	87	88	90	103
LCSD 460-936131/3-A	Lab Control Sample Dup	91	89	90	91	91	106
MB 460-936131/1-A	Method Blank	89	90	91	93	93	110

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

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

Lab Sample ID: MB 460-936893/7
Matrix: Solid
Analysis Batch: 936893

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.258		1.00	0.258	ug/Kg			10/08/23 07:13	1
Ethylbenzene	<0.199		1.00	0.199	ug/Kg			10/08/23 07:13	1
1,2,4-Trimethylbenzene	<0.246		1.00	0.246	ug/Kg			10/08/23 07:13	1
1,3,5-Trimethylbenzene	<0.314		1.00	0.314	ug/Kg			10/08/23 07:13	1
Methyl tert-butyl ether	<0.512		1.00	0.512	ug/Kg			10/08/23 07:13	1
Isopropylbenzene	<0.285		1.00	0.285	ug/Kg			10/08/23 07:13	1
Naphthalene	<0.410		1.50	0.410	ug/Kg			10/08/23 07:13	1
Toluene	<0.234		1.00	0.234	ug/Kg			10/08/23 07:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*72 - 138*		*10/08/23 07:13*	*1*
4-Bromofluorobenzene	*90*		*63 - 139*		*10/08/23 07:13*	*1*
Dibromofluoromethane (Surr)	*95*		*54 - 150*		*10/08/23 07:13*	*1*
Toluene-d8 (Surr)	*96*		*71 - 126*		*10/08/23 07:13*	*1*

Lab Sample ID: LCS 460-936893/3
Matrix: Solid
Analysis Batch: 936893

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			20.0	19.27		ug/Kg		96	75 - 130		
Ethylbenzene			20.0	18.14		ug/Kg		91	80 - 120		
1,2,4-Trimethylbenzene			20.0	21.32		ug/Kg		107	71 - 120		
1,3,5-Trimethylbenzene			20.0	21.37		ug/Kg		107	70 - 120		
Methyl tert-butyl ether			20.0	17.33		ug/Kg		87	74 - 125		
Isopropylbenzene			20.0	18.14		ug/Kg		91	80 - 120		
Naphthalene			20.0	18.52		ug/Kg		93	42 - 150		
Toluene			20.0	18.64		ug/Kg		93	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*72 - 138*
4-Bromofluorobenzene	*82*		*63 - 139*
Dibromofluoromethane (Surr)	*89*		*54 - 150*
Toluene-d8 (Surr)	*95*		*71 - 126*

Lab Sample ID: LCSD 460-936893/4
Matrix: Solid
Analysis Batch: 936893

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			20.0	18.84		ug/Kg		94	75 - 130	2	30
Ethylbenzene			20.0	18.57		ug/Kg		93	80 - 120	2	30
1,2,4-Trimethylbenzene			20.0	21.70		ug/Kg		108	71 - 120	2	30
1,3,5-Trimethylbenzene			20.0	21.68		ug/Kg		108	70 - 120	1	30
Methyl tert-butyl ether			20.0	18.28		ug/Kg		91	74 - 125	5	30
Isopropylbenzene			20.0	18.57		ug/Kg		93	80 - 120	2	30
Naphthalene			20.0	19.37		ug/Kg		97	42 - 150	5	30
Toluene			20.0	18.73		ug/Kg		94	80 - 120	0	30

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		72 - 138
4-Bromofluorobenzene	86		63 - 139
Dibromofluoromethane (Surr)	94		54 - 150
Toluene-d8 (Surr)	97		71 - 126

Lab Sample ID: MB 460-936909/8
Matrix: Water
Analysis Batch: 936909

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.203		1.00	0.203	ug/L			10/08/23 10:37	1
Ethylbenzene	<0.298		1.00	0.298	ug/L			10/08/23 10:37	1
1,2,4-Trimethylbenzene	<0.374		1.00	0.374	ug/L			10/08/23 10:37	1
1,3,5-Trimethylbenzene	<0.326		1.00	0.326	ug/L			10/08/23 10:37	1
Methyl tert-butyl ether	<0.216		1.00	0.216	ug/L			10/08/23 10:37	1
Isopropylbenzene	<0.336		1.00	0.336	ug/L			10/08/23 10:37	1
Naphthalene	<0.881		1.00	0.881	ug/L			10/08/23 10:37	1
Toluene	<0.379		1.00	0.379	ug/L			10/08/23 10:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 128		10/08/23 10:37	1
4-Bromofluorobenzene	101		76 - 120		10/08/23 10:37	1
Dibromofluoromethane (Surr)	93		77 - 132		10/08/23 10:37	1
Toluene-d8 (Surr)	99		80 - 120		10/08/23 10:37	1

Lab Sample ID: LCS 460-936909/3
Matrix: Water
Analysis Batch: 936909

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	20.0	20.53		ug/L		103	71 - 126
Ethylbenzene	20.0	19.68		ug/L		98	78 - 120
1,2,4-Trimethylbenzene	20.0	20.34		ug/L		102	75 - 125
1,3,5-Trimethylbenzene	20.0	20.46		ug/L		102	75 - 125
Methyl tert-butyl ether	20.0	18.48		ug/L		92	72 - 131
Isopropylbenzene	20.0	20.34		ug/L		102	79 - 125
Naphthalene	20.0	21.18		ug/L		106	44 - 120
Toluene	20.0	19.93		ug/L		100	78 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		70 - 128
4-Bromofluorobenzene	100		76 - 120
Dibromofluoromethane (Surr)	93		77 - 132
Toluene-d8 (Surr)	99		80 - 120

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

Lab Sample ID: MB 460-936131/1-A
Matrix: Solid
Analysis Batch: 936212

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 936131

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<10.1		330	10.1	ug/Kg		10/04/23 10:59	10/04/23 19:13	1
Benzo[a]anthracene	<24.9		33.0	24.9	ug/Kg		10/04/23 10:59	10/04/23 19:13	1
Benzo[a]pyrene	<8.81		33.0	8.81	ug/Kg		10/04/23 10:59	10/04/23 19:13	1
Benzo[b]fluoranthene	<8.56		33.0	8.56	ug/Kg		10/04/23 10:59	10/04/23 19:13	1
Benzo[g,h,i]perylene	<9.76		330	9.76	ug/Kg		10/04/23 10:59	10/04/23 19:13	1
Chrysene	<13.9		330	13.9	ug/Kg		10/04/23 10:59	10/04/23 19:13	1
Fluorene	<9.68		330	9.68	ug/Kg		10/04/23 10:59	10/04/23 19:13	1
Phenanthrene	<13.5		330	13.5	ug/Kg		10/04/23 10:59	10/04/23 19:13	1
Pyrene	<8.23		330	8.23	ug/Kg		10/04/23 10:59	10/04/23 19:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*89*		*24 - 137*	*10/04/23 10:59*	*10/04/23 19:13*	*1*
2-Fluorobiphenyl	*90*		*48 - 120*	*10/04/23 10:59*	*10/04/23 19:13*	*1*
2-Fluorophenol (Surr)	*91*		*31 - 120*	*10/04/23 10:59*	*10/04/23 19:13*	*1*
Nitrobenzene-d5 (Surr)	*93*		*38 - 120*	*10/04/23 10:59*	*10/04/23 19:13*	*1*
Phenol-d5 (Surr)	*93*		*39 - 120*	*10/04/23 10:59*	*10/04/23 19:13*	*1*
Terphenyl-d14 (Surr)	*110*		*25 - 126*	*10/04/23 10:59*	*10/04/23 19:13*	*1*

Lab Sample ID: LCS 460-936131/2-A
Matrix: Solid
Analysis Batch: 936212

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 936131

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Anthracene	3330	2811		ug/Kg		84	67 - 120
Benzo[a]anthracene	3330	2969		ug/Kg		89	69 - 120
Benzo[a]pyrene	3330	3211		ug/Kg		96	66 - 123
Benzo[b]fluoranthene	3330	3186		ug/Kg		96	70 - 125
Benzo[g,h,i]perylene	3330	2785		ug/Kg		84	66 - 120
Chrysene	3330	2941		ug/Kg		88	63 - 120
Fluorene	3330	2699		ug/Kg		81	70 - 120
Phenanthrene	3330	2856		ug/Kg		86	66 - 120
Pyrene	3330	3177		ug/Kg		95	67 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*88*		*24 - 137*
2-Fluorobiphenyl	*87*		*48 - 120*
2-Fluorophenol (Surr)	*87*		*31 - 120*
Nitrobenzene-d5 (Surr)	*88*		*38 - 120*
Phenol-d5 (Surr)	*90*		*39 - 120*
Terphenyl-d14 (Surr)	*103*		*25 - 126*

Lab Sample ID: LCSD 460-936131/3-A
Matrix: Solid
Analysis Batch: 936212

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 936131

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Anthracene	3330	2918		ug/Kg		88	67 - 120	4	30
Benzo[a]anthracene	3330	3028		ug/Kg		91	69 - 120	2	30

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

Lab Sample ID: LCSD 460-936131/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 936212
Prep Batch: 936131

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[a]pyrene			3330	3319		ug/Kg		100	66 - 123	3	30
Benzo[b]fluoranthene			3330	3224		ug/Kg		97	70 - 125	1	30
Benzo[g,h,i]perylene			3330	2894		ug/Kg		87	66 - 120	4	30
Chrysene			3330	2999		ug/Kg		90	63 - 120	2	30
Fluorene			3330	2772		ug/Kg		83	70 - 120	3	30
Phenanthrene			3330	2956		ug/Kg		89	66 - 120	3	30
Pyrene			3330	3291		ug/Kg		99	67 - 121	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*91*		*24 - 137*
2-Fluorobiphenyl	*89*		*48 - 120*
2-Fluorophenol (Surr)	*90*		*31 - 120*
Nitrobenzene-d5 (Surr)	*91*		*38 - 120*
Phenol-d5 (Surr)	*91*		*39 - 120*
Terphenyl-d14 (Surr)	*106*		*25 - 126*

GC/MS VOA

Prep Batch: 936645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-145253-1	T30B-021023	Total/NA	Solid	5035	
410-145253-2	DUP-01-021023	Total/NA	Solid	5035	

Analysis Batch: 936893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-145253-1	T30B-021023	Total/NA	Solid	8260D	936645
410-145253-2	DUP-01-021023	Total/NA	Solid	8260D	936645
MB 460-936893/7	Method Blank	Total/NA	Solid	8260D	
LCS 460-936893/3	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-936893/4	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 936909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-145253-4	TB-01-021023	Total/NA	Water	8260D	
MB 460-936909/8	Method Blank	Total/NA	Water	8260D	
LCS 460-936909/3	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 936131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-145253-1	T30B-021023	Total/NA	Solid	3546	
410-145253-2	DUP-01-021023	Total/NA	Solid	3546	
MB 460-936131/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-936131/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-936131/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 936212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-145253-1	T30B-021023	Total/NA	Solid	8270E	936131
410-145253-2	DUP-01-021023	Total/NA	Solid	8270E	936131
MB 460-936131/1-A	Method Blank	Total/NA	Solid	8270E	936131
LCS 460-936131/2-A	Lab Control Sample	Total/NA	Solid	8270E	936131
LCSD 460-936131/3-A	Lab Control Sample Dup	Total/NA	Solid	8270E	936131

General Chemistry

Analysis Batch: 936024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-145253-1	T30B-021023	Total/NA	Solid	Moisture	
410-145253-2	DUP-01-021023	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Project/Site: SRTF Philly

Job ID: 410-145253-1

Client Sample ID: T30B-021023
Lab Sample ID: 410-145253-1
Date Collected: 10/02/23 10:00
Matrix: Solid
Date Received: 10/03/23 13:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	936024	CJC	EET EDI	10/03/23 21:55

Client Sample ID: T30B-021023
Lab Sample ID: 410-145253-1
Date Collected: 10/02/23 10:00
Matrix: Solid
Date Received: 10/03/23 13:23
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			936645	SAS	EET EDI	10/06/23 10:39
Total/NA	Analysis	8260D		1	936893	VBP	EET EDI	10/08/23 08:31
Total/NA	Prep	3546			936131	FHW	EET EDI	10/04/23 10:59
Total/NA	Analysis	8270E		1	936212	MME	EET EDI	10/05/23 00:27

Client Sample ID: DUP-01-021023
Lab Sample ID: 410-145253-2
Date Collected: 10/02/23 00:00
Matrix: Solid
Date Received: 10/03/23 13:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	936024	CJC	EET EDI	10/03/23 21:55

Client Sample ID: DUP-01-021023
Lab Sample ID: 410-145253-2
Date Collected: 10/02/23 00:00
Matrix: Solid
Date Received: 10/03/23 13:23
Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			936645	SAS	EET EDI	10/06/23 10:39
Total/NA	Analysis	8260D		1	936893	VBP	EET EDI	10/08/23 08:56
Total/NA	Prep	3546			936131	FHW	EET EDI	10/04/23 10:59
Total/NA	Analysis	8270E		1	936212	MME	EET EDI	10/05/23 00:50

Client Sample ID: TB-01-021023
Lab Sample ID: 410-145253-4
Date Collected: 10/02/23 00:00
Matrix: Water
Date Received: 10/03/23 13:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	936909	KLB	EET EDI	10/08/23 12:17

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 410-145253-1
Project/Site: SRTF Philly

Laboratory: Eurofins Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0818	01-30-24
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-01-24
Georgia	State	12028 (NJ)	06-30-24
Massachusetts	State	M-NJ312	06-30-24
New Jersey	NELAP	12028	06-30-24
New York	NELAP	11452	04-01-24
Pennsylvania	NELAP	68-00522	03-01-24
Rhode Island	State	LAO00376	12-30-23
USDA	US Federal Programs	P330-20-00244	11-03-23

Method Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: SRTF Philly

Job ID: 410-145253-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET EDI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET EDI
Moisture	Percent Moisture	EPA	EET EDI
3546	Microwave Extraction	SW846	EET EDI
5030C	Purge and Trap	SW846	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

Sample Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: SRTF Philly

Job ID: 410-145253-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-145253-1	T30B-021023	Solid	10/02/23 10:00	10/03/23 13:23
410-145253-2	DUP-01-021023	Solid	10/02/23 00:00	10/03/23 13:23
410-145253-4	TB-01-021023	Water	10/02/23 00:00	10/03/23 13:23

Eurofins Lancaster Laboratories Environme
2425 New Holland Pike
Lancaster PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins | Environment Tes

Client Information	Sampler: T.Carroll	Lab PM: Williams, Marrissa C	Carrier Tracking No(s):	COC No: 410-99026-28159.2
Client Contact: Mr McNeill Bauer	Phone: 914 574 0003	E-Mail: Marrissa.Williams@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Ramboll US Corporation	PWSID:			Job #: 410-145253
Address: 4245 Fairfax Dr Suite 700	Due Date Requested: 10/9			
City: Arlington	TAT Requested (days): 5day			
State, Zip: VA, 22203	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: TCarroll MBAUER@ramboll.com	WO #:			
Project Name: Soil Sampling	Project #: 41013830			
Site: SRTF Phili	SSOW#:			

Analysis Requested

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, pH 4-5, Trizma, other (specify)

410-145253 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D TCL VOCs 4.3	8270E TCL 4.3 SVOCs	8260D TCL VOCs 4.3	Total #	Special Instructions/Note
			Preservation Code:				F	N	A		
T30B-021023	10/2/23	16:00	G	Solid	N	N	X	X			
DUP-01-021023	10/2/23	—	G	Solid	N	N	X	X			
TB-01-021023	10/2/23	—	—	Solid	N	N	X	X	TCL		
				~~Solid~~							
				~~Water~~							
				~~Water~~							

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 mo
☐ Return To Client ☒ Disposal By Lab ☐ Archive For

5-Day RUSH

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
T.Carroll	10/2/23 12:36	Ramboll		10/2/23 1230	
	10/2/23			10/2/23 1GT	
	10/2/23 1800			10/2/23 18:00	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Im # 10 — 3.8 / 4.0

Ver: 06/08/2021

Page ____ of ____

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 410-145253

Number of Coolers: 1   IR Gun # 10

Cooler Temperatures

	Raw	Corrected		Raw	Corrected			
Cooler #1:	3.8 °C	4.0 °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 (<2)	Pest (-9)	EPH or QAM (<2)	Phenols	Sulfide			Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

pH adjusted samples are ... below

Sample No(s). adjusted: ____________

Preservative Name/Conc.: ____________   Volume of Preservative used (ml): ____________

Lot # of Preservative(s): ____________   Expiration Date: ____________

The appropriate P... adjusted.

* Samples for Metal analysis ... hours prior to analysis.

EDS-WI-038, Rev 4.1
10/22/2019

Initials: [signature]   Date: 10/2/23

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 410-145253-1

Login Number: 145253
List Number: 2
Creator: Rivera, Kenneth

List Source: Eurofins Edison
List Creation: 10/03/23 05:46 PM

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	4°C, IR #10
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	

APPENDIX C
PENNSYLVANIA NATURAL DIVERSITY INVENTORY SEARCH RESULTS

1. PROJECT INFORMATION

Project Name: **SRTF**
Date of Review: **11/20/2023 12:13:17 PM**
Project Category: **Hazardous Waste Clean-up, Site Remediation, and Reclamation, Other**
Project Area: **169.49 acres**
County(s): **Philadelphia**
Township/Municipality(s): **PHILADELPHIA**
ZIP Code:
Quadrangle Name(s): **PHILADELPHIA**
Watersheds HUC 8: **Schuylkill**
Watersheds HUC 12: **City of Philadelphia-Schuylkill River**
Decimal Degrees: **39.899354, -75.221637**
Degrees Minutes Seconds: **39° 53' 57.6744" N, 75° 13' 17.8917" W**

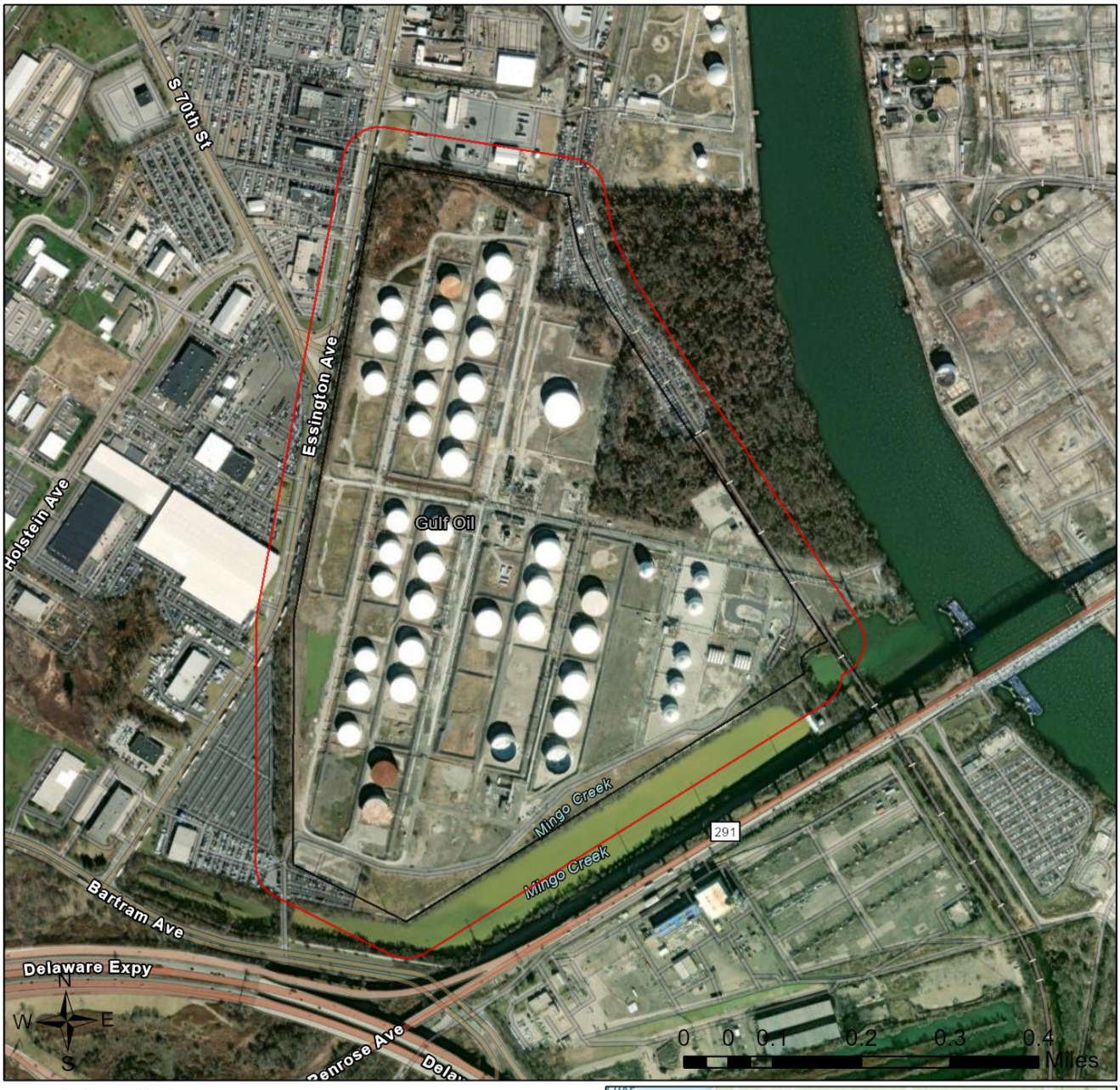
This is a draft receipt for information only. It has not been submitted to jurisdictional agencies for review.

2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	**Potential Impact**	**FURTHER REVIEW IS REQUIRED, See Agency Response**
PA Department of Conservation and Natural Resources	**Potential Impact**	**FURTHER REVIEW IS REQUIRED, See Agency Response**
PA Fish and Boat Commission	**Potential Impact**	**FURTHER REVIEW IS REQUIRED, See Agency Response**
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

SRTF



Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community

SRTF

Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jursidictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

PA Game Commission

RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

PGC Species: (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

Scientific Name	Common Name	Current Status
Cistothorus palustris	Marsh Wren	Special Concern Species*
Ixobrychus exilis	Least Bittern	Endangered

PA Department of Conservation and Natural Resources

RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

DCNR Species: (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below. After desktop review, if a botanical survey is required by DCNR, we recommend the DCNR Botanical Survey Protocols, available here: https://conservationexplorer.dcnr.pa.gov/content/survey-protocols)

Scientific Name	Common Name	Current Status	Proposed Status	Survey Window
Amaranthus cannabinus	Waterhemp Ragweed	Special Concern Species*	Special Concern Species*	Flowers July - September

PA Fish and Boat Commission

RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

PFBC Species: (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

Scientific Name	Common Name	Current Status
Sensitive Species**		Endangered

Scientific Name	Common Name	Current Status
Sensitive Species**		Endangered
Sensitive Species**		Threatened

U.S. Fish and Wildlife Service
RESPONSE:

No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq. is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.
** Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, upload* or email the following information to the agency(s) (see AGENCY CONTACT INFORMATION). Instructions for uploading project materials can be found here. This option provides the applicant with the convenience of sending project materials to a single location accessible to all three state agencies (but not USFWS).
*If information was requested by USFWS, applicants must email, or mail, project information to IR1_ESPenn@fws.gov to initiate a review. USFWS will not accept uploaded project materials.

Check-list of Minimum Materials to be submitted:
____Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.
____A map with the project boundary and/or a basic site plan(particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)
In addition to the materials listed above, USFWS REQUIRES the following
____**SIGNED** copy of a Final Project Environmental Review Receipt

The inclusion of the following information may expedite the review process.
____Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)
____Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams.

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP's permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at https://conservationexplorer.dcnr.pa.gov/content/resources.

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

February 20, 2024

Ms. Anne Garr, Esq.
Hilco Redevelopment Partners
111 S. Wacker Drive, Suite 3000
Chicago, IL 60606

Via email at: agarr@hilcoglobal.com

Re: 310(b) Site Characterization Report Approval
Storage Tank System Release June 29, 2023
Facility ID No. 51-11557
Incident No. 59035
Philadelphia Refinery Schuylkill River Tank Farm (Tank 022A)
3144 West Passyunk Avenue
City of Philadelphia

Dear Ms. Garr:

The Department of Environmental Protection (DEP) has reviewed the December 2023 document titled *Abbreviated 310B Site Characterization Report* for the release referenced above. This document was prepared by Ramboll US Consulting, Inc. and submitted as a Site Characterization Report (SCR) under 25 Pa. Code Section 245.310(b), which states that soil is the only media of concern and which contains data that the interim remedial actions have attained the nonresidential Statewide health standard for fuel oil nos. 2 and 6 in accordance with 25 Pa. Code Chapter 250 and the Land Recycling and Environmental Remediation Standards Act (Act 2).

In accordance with 25 Pa. Code Section 245.310(c)(1), DEP approves the SCR for the substances identified and remediated. Chapter 5, Section 501 of Act 2, provides the liability protection where attainment of Act 2 cleanup standards is demonstrated. The cleanup liability protection provided by this chapter applies to the current and future owner or any other person who participated in the remediation; a person who develops or occupies the property; successor or assign of any person to whom liability protection applies; and a public utility to the extent the public utility performs activities on the identified property(ies).

Any person aggrieved by this action may appeal the action to the Environmental Hearing Board (Board), pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. § 7514, and the Administrative Agency Law, 2 Pa.C.S. Chapter 5A. The Board's address is:

Environmental Hearing Board
Rachel Carson State Office Building, Second Floor
400 Market Street
P.O. Box 8457
Harrisburg, PA 17105-8457

TDD users may contact the Environmental Hearing Board through the Pennsylvania Relay Service, 800.654.5984.

Appeals must be filed with the Board within 30 days of receipt of notice of this action unless the appropriate statute provides a different time. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

A Notice of Appeal form and the Board's rules of practice and procedure may be obtained online at http://ehb.courtapps.com or by contacting the Secretary to the Board at 717.787.3483. The Notice of Appeal form and the Board's rules are also available in braille and on audiotape from the Secretary to the Board.

IMPORTANT LEGAL RIGHTS ARE AT STAKE. YOU SHOULD SHOW THIS DOCUMENT TO A LAWYER AT ONCE. IF YOU CANNOT AFFORD A LAWYER, YOU MAY QUALIFY FOR FREE PRO BONO REPRESENTATION. CALL THE SECRETARY TO THE BOARD AT 717.787.3483 FOR MORE INFORMATION. YOU DO NOT NEED A LAWYER TO FILE A NOTICE OF APPEAL WITH THE BOARD.

IF YOU WANT TO CHALLENGE THIS ACTION, YOUR APPEAL MUST BE FILED WITH AND RECEIVED BY THE BOARD WITHIN 30 DAYS OF RECEIPT OF NOTICE OF THIS ACTION.

Thank you for your actions in remediating this release. If you have any questions, please contact Chelsea Fazzino by email at cfazzino@pa.gov or by telephone at 484.250.5791.

Sincerely,

Ragesh R. Patel

Ragesh R. Patel
Regional Manager
Environmental Cleanup and Brownfields

cc: Philadelphia Department of Public Health
Philadelphia L&I
Ms. Julianna Connolly, HRP
Ms. Amy Piccone, HRP
Ms. Taylor Carroll, Ramboll
Mr. Richard Staron

APPENDIX B

Laboratory Reports

Hampton-Clarke
Analytical & Field Services

175 US Highway 46, STE D · Fairfield, NJ 07004-2327
2 Madison Road, Fairfield, NJ 07004-2327
800-426-9992 · 973-244-9770
FAX: 973-244-9787
WWW.HCVLAB.COM

Project: PESRM Tank 30 Closure

Client PO: Not Available

Report To: Ramboll Americas Engineering Solutions
751 Arbor Way
Suite 200
Blue Bell, PA 19422
Attn: Taylor Campbell

Received Date: 12/13/2023

Report Date: 1/16/2024

Deliverables: PADEP-R

Lab ID: AD41925

Lab Project No: 3121329

Sean Berls - Quality Assurance Officer OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

Table of Contents - 3121329

Sample Summary

Client: Ramboll Americas Engineering Solutions **HC Project #:** 3121329

Project: PESRM Tank 30 Closure

Lab#	SampleID	Matrix	Collection Date	Receipt Date
AD41925-001	PESRM-T30-01-SS01	Soil/Terracore	12/12/2023	12/13/2023
AD41925-002	PESRM-T30-02-SS01	Soil/Terracore	12/12/2023	12/13/2023
AD41925-003	PESRM-T30-03-SS01	Soil/Terracore	12/12/2023	12/13/2023
AD41925-004	PESRM-T30-04-SS01	Soil/Terracore	12/12/2023	12/13/2023
AD41925-005	PESRM-T30-05-SS01	Soil/Terracore	12/12/2023	12/13/2023
AD41925-006	PESRM-T30-06-SS01	Soil/Terracore	12/12/2023	12/13/2023
AD41925-007	PESRM-T30-07-SS01	Soil/Terracore	12/12/2023	12/13/2023
AD41925-008	PESRM-T30-08-SS01	Soil/Terracore	12/12/2023	12/13/2023
AD41925-009	PESRM-T30-09-SS01	Soil/Terracore	12/12/2023	12/13/2023
AD41925-010	PESRM-T30-10-SS01	Soil/Terracore	12/12/2023	12/13/2023
AD41925-011	PESRM-T30-11-SS01	Soil/Terracore	12/12/2023	12/13/2023
AD41925-012	PESRM-T30-DUP-01	Soil/Terracore	12/12/2023	12/13/2023
AD41925-013	PESRM-T30-GW-01	Aqueous	12/13/2023	12/13/2023
AD41925-014	PESRM-T30-EQUIP-01	Aqueous	12/12/2023	12/13/2023
AD41925-015	TB01-20231213	Aqueous	12/13/2023	12/13/2023

HC Case Narrative

Client: Ramboll Americas Engineering Solutions **HC Project:** 3121329
Project: PESRM Tank 30 Closure

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

The VO soil samples were not collected as encores. Any reported sample concentrations below 200 ug/kg may be biased low due to the samples not being collected according to 5035A low-level specifications.

The Method Blank Spike for batches 113983, 113993 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The MSD RPD, Matrix Spike for batch 113983 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The spiking compounds were diluted of the Matrix Spike and/or Matrix Spike Duplicate for batch 113997. Please refer to the applicable Form 3 for the recoveries.

Base Neutral/Acid Extractable Analysis:

The Method Blank Spike for batches 113532, 113542, 113572 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The Matrix Spike and/or Matrix Spike Duplicate for batches 113532, 113542 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 113572 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Wet Chemistry Analysis:

Data conforms to method requirements.

Sean Berls
Quality Assurance Officer

Or

Jean Revolus
Laboratory Director

1/16/24
Date

HC Executive Summary

Client: Ramboll Americas Engineering Solutions **HC Project #:** 3121329

Project: PESRM Tank 30 Closure

Lab#: AD41925-001 **Sample ID: PESRM-T30-01-SS01**

Analyte	Units	RL	Result	Analytical Method
Benzo[a]anthracene	mg/kg	0.16	0.42	EPA 8270E
Benzo[a]pyrene	mg/kg	0.16	0.51	EPA 8270E
Benzo[b]fluoranthene	mg/kg	0.16	0.73	EPA 8270E
Benzo[g,h,i]perylene	mg/kg	0.16	0.36	EPA 8270E
Chrysene	mg/kg	0.16	0.43	EPA 8270E
Naphthalene	mg/kg	0.040	0.096	EPA 8270E
Phenanthrene	mg/kg	0.16	0.28	EPA 8270E
Pyrene	mg/kg	0.16	0.60	EPA 8270E

Lab#: AD41925-004 **Sample ID: PESRM-T30-04-SS01**

Analyte	Units	RL	Result	Analytical Method
Ethylbenzene	mg/kg	0.085	0.88	EPA 8260D
Naphthalene	mg/kg	0.011	0.046	EPA 8270E

Lab#: AD41925-005 **Sample ID: PESRM-T30-05-SS01**

Analyte	Units	RL	Result	Analytical Method
Benzo[a]anthracene	mg/kg	0.15	0.21	EPA 8270E
Benzo[a]pyrene	mg/kg	0.15	0.33	EPA 8270E
Benzo[b]fluoranthene	mg/kg	0.15	0.43	EPA 8270E
Benzo[g,h,i]perylene	mg/kg	0.15	0.32	EPA 8270E
Chrysene	mg/kg	0.15	0.22	EPA 8270E
Naphthalene	mg/kg	0.038	0.077	EPA 8270E
Pyrene	mg/kg	0.15	0.31	EPA 8270E

Lab#: AD41925-007 **Sample ID: PESRM-T30-07-SS01**

Analyte	Units	RL	Result	Analytical Method
Benzo[a]anthracene	mg/kg	0.046	0.38	EPA 8270E
Benzo[a]pyrene	mg/kg	0.046	0.36	EPA 8270E
Benzo[b]fluoranthene	mg/kg	0.046	0.43	EPA 8270E
Benzo[g,h,i]perylene	mg/kg	0.046	0.22	EPA 8270E
Chrysene	mg/kg	0.046	0.36	EPA 8270E
Phenanthrene	mg/kg	0.046	0.12	EPA 8270E
Pyrene	mg/kg	0.046	0.61	EPA 8270E

Lab#: AD41925-009 **Sample ID: PESRM-T30-09-SS01**

Analyte	Units	RL	Result	Analytical Method
Benzo[b]fluoranthene	mg/kg	0.044	0.045	EPA 8270E
Pyrene	mg/kg	0.044	0.049	EPA 8270E

HC Executive Summary

Client: Ramboll Americas Engineering Solutions **HC Project #:** 3121329

Project: PESRM Tank 30 Closure

Lab#: AD41925-010 **Sample ID: PESRM-T30-10-SS01**

Analyte	Units	RL	Result	Analytical Method
Benzo[a]anthracene	mg/kg	0.046	0.19	EPA 8270E
Benzo[a]pyrene	mg/kg	0.046	0.27	EPA 8270E
Benzo[b]fluoranthene	mg/kg	0.046	0.37	EPA 8270E
Benzo[g,h,i]perylene	mg/kg	0.046	0.19	EPA 8270E
Chrysene	mg/kg	0.046	0.22	EPA 8270E
Naphthalene	mg/kg	0.011	0.078	EPA 8270E
Phenanthrene	mg/kg	0.046	0.056	EPA 8270E
Pyrene	mg/kg	0.046	0.18	EPA 8270E

Lab#: AD41925-011 **Sample ID: PESRM-T30-11-SS01**

Analyte	Units	RL	Result	Analytical Method
Ethylbenzene	mg/kg	0.090	1.4	EPA 8260D
Isopropylbenzene	mg/kg	0.090	0.12	EPA 8260D
Naphthalene	mg/kg	0.011	0.037	EPA 8270E
Pyrene	mg/kg	0.043	0.049	EPA 8270E

Lab#: AD41925-013 **Sample ID: PESRM-T30-GW-01**

Analyte	Units	RL	Result	Analytical Method
Pyrene	ug/l	2.2	2.3	EPA 8270E

HC Report of Analysis

Client: Ramboll Americas Engineering Solutions
HC Project #: 3121329
Project: PESRM Tank 30 Closure

Sample ID: PESRM-T30-01-SS01
Lab#: AD41925-001
Matrix: Soil/Terracore
Collection Date: 12/12/2023
Receipt Date: 12/13/2023

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		62

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
Anthracene	3	mg/kg	0.16	ND
Benzo[a]anthracene	**3**	**mg/kg**	**0.16**	**0.42**
Benzo[a]pyrene	**3**	**mg/kg**	**0.16**	**0.51**
Benzo[b]fluoranthene	**3**	**mg/kg**	**0.16**	**0.73**
Benzo[g,h,i]perylene	**3**	**mg/kg**	**0.16**	**0.36**
Chrysene	**3**	**mg/kg**	**0.16**	**0.43**
Fluorene	3	mg/kg	0.16	ND
Naphthalene	**3**	**mg/kg**	**0.040**	**0.096**
Phenanthrene	**3**	**mg/kg**	**0.16**	**0.28**
Pyrene	**3**	**mg/kg**	**0.16**	**0.60**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	0.962	mg/kg	0.0016	ND
1,3,5-Trimethylbenzene	0.962	mg/kg	0.0016	ND
Benzene	0.962	mg/kg	0.0016	ND
Ethylbenzene	0.962	mg/kg	0.0016	ND
Isopropylbenzene	0.962	mg/kg	0.0016	ND
Methyl-t-butyl ether	0.962	mg/kg	0.0016	ND
Toluene	0.962	mg/kg	0.0016	ND

Sample ID: PESRM-T30-02-SS01
Lab#: AD41925-002
Matrix: Soil/Terracore

Collection Date: 12/12/2023
Receipt Date: 12/13/2023

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		72

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
Anthracene	1	mg/kg	0.046	ND
Benzo[a]anthracene	1	mg/kg	0.046	ND
Benzo[a]pyrene	1	mg/kg	0.046	ND
Benzo[b]fluoranthene	1	mg/kg	0.046	ND
Benzo[g,h,i]perylene	1	mg/kg	0.046	ND
Chrysene	1	mg/kg	0.046	ND
Fluorene	1	mg/kg	0.046	ND
Naphthalene	1	mg/kg	0.012	ND
Phenanthrene	1	mg/kg	0.046	ND
Pyrene	1	mg/kg	0.046	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	0.691	mg/kg	0.00096	ND
1,3,5-Trimethylbenzene	0.691	mg/kg	0.00096	ND
Benzene	0.691	mg/kg	0.00096	ND
Ethylbenzene	0.691	mg/kg	0.00096	ND
Isopropylbenzene	0.691	mg/kg	0.00096	ND
Methyl-t-butyl ether	0.691	mg/kg	0.00096	ND
Toluene	0.691	mg/kg	0.00096	ND

Sample ID: PESRM-T30-03-SS01
Lab#: AD41925-003
Matrix: Soil/Terracore
Collection Date: 12/12/2023
Receipt Date: 12/13/2023

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		71

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
Anthracene	1	mg/kg	0.047	ND
Benzo[a]anthracene	1	mg/kg	0.047	ND
Benzo[a]pyrene	1	mg/kg	0.047	ND
Benzo[b]fluoranthene	1	mg/kg	0.047	ND
Benzo[g,h,i]perylene	1	mg/kg	0.047	ND
Chrysene	1	mg/kg	0.047	ND
Fluorene	1	mg/kg	0.047	ND
Naphthalene	1	mg/kg	0.012	ND
Phenanthrene	1	mg/kg	0.047	ND
Pyrene	1	mg/kg	0.047	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	0.739	mg/kg	0.0010	ND
1,3,5-Trimethylbenzene	0.739	mg/kg	0.0010	ND
Benzene	0.739	mg/kg	0.0010	ND
Ethylbenzene	0.739	mg/kg	0.0010	ND
Isopropylbenzene	0.739	mg/kg	0.0010	ND
Methyl-t-butyl ether	0.739	mg/kg	0.0010	ND
Toluene	0.739	mg/kg	0.0010	ND

Sample ID: PESRM-T30-04-SS01 **Collection Date:** 12/12/2023
Lab#: AD41925-004 **Receipt Date:** 12/13/2023
Matrix: Soil/Terracore

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**78**

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
Anthracene	1	mg/kg	0.043	ND
Benzo[a]anthracene	1	mg/kg	0.043	ND
Benzo[a]pyrene	1	mg/kg	0.043	ND
Benzo[b]fluoranthene	1	mg/kg	0.043	ND
Benzo[g,h,i]perylene	1	mg/kg	0.043	ND
Chrysene	1	mg/kg	0.043	ND
Fluorene	1	mg/kg	0.043	ND
Naphthalene	**1**	**mg/kg**	**0.011**	**0.046**
Phenanthrene	1	mg/kg	0.043	ND
Pyrene	1	mg/kg	0.043	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	66.1	mg/kg	0.085	ND
1,3,5-Trimethylbenzene	66.1	mg/kg	0.085	ND
Benzene	66.1	mg/kg	0.042	ND
Ethylbenzene	**66.1**	**mg/kg**	**0.085**	**0.88**
Isopropylbenzene	66.1	mg/kg	0.085	ND
Methyl-t-butyl ether	66.1	mg/kg	0.074	ND
Toluene	66.1	mg/kg	0.085	ND

Sample ID: PESRM-T30-05-SS01
Lab#: AD41925-005
Matrix: Soil/Terracore

Collection Date: 12/12/2023
Receipt Date: 12/13/2023

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**65**

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
Anthracene	3	mg/kg	0.15	ND
Benzo[a]anthracene	**3**	**mg/kg**	**0.15**	**0.21**
Benzo[a]pyrene	**3**	**mg/kg**	**0.15**	**0.33**
Benzo[b]fluoranthene	**3**	**mg/kg**	**0.15**	**0.43**
Benzo[g,h,i]perylene	**3**	**mg/kg**	**0.15**	**0.32**
Chrysene	**3**	**mg/kg**	**0.15**	**0.22**
Fluorene	3	mg/kg	0.15	ND
Naphthalene	**3**	**mg/kg**	**0.038**	**0.077**
Phenanthrene	3	mg/kg	0.15	ND
Pyrene	**3**	**mg/kg**	**0.15**	**0.31**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	0.899	mg/kg	0.0014	ND
1,3,5-Trimethylbenzene	0.899	mg/kg	0.0014	ND
Benzene	0.899	mg/kg	0.0014	ND
Ethylbenzene	0.899	mg/kg	0.0014	ND
Isopropylbenzene	0.899	mg/kg	0.0014	ND
Methyl-t-butyl ether	0.899	mg/kg	0.0014	ND
Toluene	0.899	mg/kg	0.0014	ND

Sample ID: PESRM-T30-06-SS01
Lab#: AD41925-006
Matrix: Soil/Terracore

Collection Date: 12/12/2023
Receipt Date: 12/13/2023

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		72

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
Anthracene	1	mg/kg	0.046	ND
Benzo[a]anthracene	1	mg/kg	0.046	ND
Benzo[a]pyrene	1	mg/kg	0.046	ND
Benzo[b]fluoranthene	1	mg/kg	0.046	ND
Benzo[g,h,i]perylene	1	mg/kg	0.046	ND
Chrysene	1	mg/kg	0.046	ND
Fluorene	1	mg/kg	0.046	ND
Naphthalene	1	mg/kg	0.012	ND
Phenanthrene	1	mg/kg	0.046	ND
Pyrene	1	mg/kg	0.046	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	0.78	mg/kg	0.0011	ND
1,3,5-Trimethylbenzene	0.78	mg/kg	0.0011	ND
Benzene	0.78	mg/kg	0.0011	ND
Ethylbenzene	0.78	mg/kg	0.0011	ND
Isopropylbenzene	0.78	mg/kg	0.0011	ND
Methyl-t-butyl ether	0.78	mg/kg	0.0011	ND
Toluene	0.78	mg/kg	0.0011	ND

Sample ID: PESRM-T30-07-SS01
Lab#: AD41925-007
Matrix: Soil/Terracore

Collection Date: 12/12/2023
Receipt Date: 12/13/2023

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		73

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
Anthracene	1	mg/kg	0.046	ND
Benzo[a]anthracene	1	mg/kg	0.046	0.38
Benzo[a]pyrene	1	mg/kg	0.046	0.36
Benzo[b]fluoranthene	1	mg/kg	0.046	0.43
Benzo[g,h,i]perylene	1	mg/kg	0.046	0.22
Chrysene	1	mg/kg	0.046	0.36
Fluorene	1	mg/kg	0.046	ND
Naphthalene	1	mg/kg	0.011	ND
Phenanthrene	1	mg/kg	0.046	0.12
Pyrene	1	mg/kg	0.046	0.61

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	0.784	mg/kg	0.0011	ND
1,3,5-Trimethylbenzene	0.784	mg/kg	0.0011	ND
Benzene	0.784	mg/kg	0.0011	ND
Ethylbenzene	0.784	mg/kg	0.0011	ND
Isopropylbenzene	0.784	mg/kg	0.0011	ND
Methyl-t-butyl ether	0.784	mg/kg	0.0011	ND
Toluene	0.784	mg/kg	0.0011	ND

Sample ID: PESRM-T30-08-SS01
Lab#: AD41925-008
Matrix: Soil/Terracore
Collection Date: 12/12/2023
Receipt Date: 12/13/2023

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		73

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
Anthracene	1	mg/kg	0.046	ND
Benzo[a]anthracene	1	mg/kg	0.046	ND
Benzo[a]pyrene	1	mg/kg	0.046	ND
Benzo[b]fluoranthene	1	mg/kg	0.046	ND
Benzo[g,h,i]perylene	1	mg/kg	0.046	ND
Chrysene	1	mg/kg	0.046	ND
Fluorene	1	mg/kg	0.046	ND
Naphthalene	1	mg/kg	0.011	ND
Phenanthrene	1	mg/kg	0.046	ND
Pyrene	1	mg/kg	0.046	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	0.806	mg/kg	0.0011	ND
1,3,5-Trimethylbenzene	0.806	mg/kg	0.0011	ND
Benzene	0.806	mg/kg	0.0011	ND
Ethylbenzene	0.806	mg/kg	0.0011	ND
Isopropylbenzene	0.806	mg/kg	0.0011	ND
Methyl-t-butyl ether	0.806	mg/kg	0.0011	ND
Toluene	0.806	mg/kg	0.0011	ND

Sample ID: PESRM-T30-09-SS01 **Collection Date:** 12/12/2023
Lab#: AD41925-009 **Receipt Date:** 12/13/2023
Matrix: Soil/Terracore

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**76**

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
Anthracene	1	mg/kg	0.044	ND
Benzo[a]anthracene	1	mg/kg	0.044	ND
Benzo[a]pyrene	1	mg/kg	0.044	ND
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.044**	**0.045**
Benzo[g,h,i]perylene	1	mg/kg	0.044	ND
Chrysene	1	mg/kg	0.044	ND
Fluorene	1	mg/kg	0.044	ND
Naphthalene	1	mg/kg	0.011	ND
Phenanthrene	1	mg/kg	0.044	ND
Pyrene	**1**	**mg/kg**	**0.044**	**0.049**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	0.833	mg/kg	0.0011	ND
1,3,5-Trimethylbenzene	0.833	mg/kg	0.0011	ND
Benzene	0.833	mg/kg	0.0011	ND
Ethylbenzene	0.833	mg/kg	0.0011	ND
Isopropylbenzene	0.833	mg/kg	0.0011	ND
Methyl-t-butyl ether	0.833	mg/kg	0.0011	ND
Toluene	0.833	mg/kg	0.0011	ND

Sample ID: PESRM-T30-10-SS01 **Collection Date:** 12/12/2023
Lab#: AD41925-010 **Receipt Date:** 12/13/2023
Matrix: Soil/Terracore

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		73

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
Anthracene	1	mg/kg	0.046	ND
Benzo[a]anthracene	**1**	**mg/kg**	**0.046**	**0.19**
Benzo[a]pyrene	**1**	**mg/kg**	**0.046**	**0.27**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.046**	**0.37**
Benzo[g,h,i]perylene	**1**	**mg/kg**	**0.046**	**0.19**
Chrysene	**1**	**mg/kg**	**0.046**	**0.22**
Fluorene	1	mg/kg	0.046	ND
Naphthalene	**1**	**mg/kg**	**0.011**	**0.078**
Phenanthrene	**1**	**mg/kg**	**0.046**	**0.056**
Pyrene	**1**	**mg/kg**	**0.046**	**0.18**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	0.877	mg/kg	0.0012	ND
1,3,5-Trimethylbenzene	0.877	mg/kg	0.0012	ND
Benzene	0.877	mg/kg	0.0012	ND
Ethylbenzene	0.877	mg/kg	0.0012	ND
Isopropylbenzene	0.877	mg/kg	0.0012	ND
Methyl-t-butyl ether	0.877	mg/kg	0.0012	ND
Toluene	0.877	mg/kg	0.0012	ND

Sample ID: PESRM-T30-11-SS01
Lab#: AD41925-011
Matrix: Soil/Terracore
Collection Date: 12/12/2023
Receipt Date: 12/13/2023

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**77**

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
Anthracene	1	mg/kg	0.043	ND
Benzo[a]anthracene	1	mg/kg	0.043	ND
Benzo[a]pyrene	1	mg/kg	0.043	ND
Benzo[b]fluoranthene	1	mg/kg	0.043	ND
Benzo[g,h,i]perylene	1	mg/kg	0.043	ND
Chrysene	1	mg/kg	0.043	ND
Fluorene	1	mg/kg	0.043	ND
Naphthalene	**1**	**mg/kg**	**0.011**	**0.037**
Phenanthrene	1	mg/kg	0.043	ND
Pyrene	**1**	**mg/kg**	**0.043**	**0.049**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	69.1	mg/kg	0.090	ND
1,3,5-Trimethylbenzene	69.1	mg/kg	0.090	ND
Benzene	69.1	mg/kg	0.045	ND
Ethylbenzene	**69.1**	**mg/kg**	**0.090**	**1.4**
Isopropylbenzene	**69.1**	**mg/kg**	**0.090**	**0.12**
Methyl-t-butyl ether	69.1	mg/kg	0.078	ND
Toluene	69.1	mg/kg	0.090	ND

Sample ID: PESRM-T30-DUP-01 **Collection Date:** 12/12/2023
Lab#: AD41925-012 **Receipt Date:** 12/13/2023
Matrix: Soil/Terracore

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		74

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
Anthracene	1	mg/kg	0.045	ND
Benzo[a]anthracene	1	mg/kg	0.045	ND
Benzo[a]pyrene	1	mg/kg	0.045	ND
Benzo[b]fluoranthene	1	mg/kg	0.045	ND
Benzo[g,h,i]perylene	1	mg/kg	0.045	ND
Chrysene	1	mg/kg	0.045	ND
Fluorene	1	mg/kg	0.045	ND
Naphthalene	1	mg/kg	0.011	ND
Phenanthrene	1	mg/kg	0.045	ND
Pyrene	1	mg/kg	0.045	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	0.577	mg/kg	0.00078	ND
1,3,5-Trimethylbenzene	0.577	mg/kg	0.00078	ND
Benzene	0.577	mg/kg	0.00078	ND
Ethylbenzene	0.577	mg/kg	0.00078	ND
Isopropylbenzene	0.577	mg/kg	0.00078	ND
Methyl-t-butyl ether	0.577	mg/kg	0.00078	ND
Toluene	0.577	mg/kg	0.00078	ND

Sample ID: PESRM-T30-GW-01
Lab#: AD41925-013
Matrix: Aqueous
Collection Date: 12/13/2023
Receipt Date: 12/13/2023

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
Anthracene	1	ug/l	2.2	ND
Benzo[a]anthracene	1	ug/l	2.2	ND
Benzo[a]pyrene	1	ug/l	2.2	ND
Benzo[b]fluoranthene	1	ug/l	2.2	ND
Benzo[g,h,i]perylene	1	ug/l	2.2	ND
Chrysene	1	ug/l	2.2	ND
Fluorene	1	ug/l	2.2	ND
Naphthalene	1	ug/l	0.56	ND
Phenanthrene	1	ug/l	2.2	ND
Pyrene	**1**	**ug/l**	**2.2**	**2.3**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	ND
1,3,5-Trimethylbenzene	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
Toluene	1	ug/l	1.0	ND

Sample ID: PESRM-T30-EQUIP-01
Lab#: AD41925-014
Matrix: Aqueous
Collection Date: 12/12/2023
Receipt Date: 12/13/2023

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
Anthracene	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Phenanthrene	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	ND
1,3,5-Trimethylbenzene	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
Toluene	1	ug/l	1.0	ND

Sample ID: TB01-20231213
Lab#: AD41925-015
Matrix: Aqueous

Collection Date: 12/13/2023
Receipt Date: 12/13/2023

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	ND
1,3,5-Trimethylbenzene	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
Toluene	1	ug/l	1.0	ND

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

DUP = Duplicate

LCS = Laboratory Control Spike

MBS = Method Blank Spike

MDL = Method Detection Limit

MR = Matrix Replicate

MS = Matrix Spike

MSD = Matrix Spike Duplicate

NA = Not Applicable

ND = Not Detected

PS = Post Digestion Spike

RL* = Reporting Limit

RT = Retention Time

SD = Serial Dilution

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

A- Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

R- Retention Time is out.

Y- Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

Laboratory Chronicle

Client: Ramboll Americas Engineering Solutions **HC Project #:** 3121329

Project: PESRM Tank 30 Closure

Lab#: AD41925-001 **Sample ID: PESRM-T30-01-SS01**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	12/15/23 00:00	kwilson
Semivolatile Organics (no search) 8270	3510C/3550C	12/22/23 12:50	MJ	EPA 8270E	12/22/23 17:46	AH/JB/KT
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	12/14/23 20:05	MN

Lab#: AD41925-002 **Sample ID: PESRM-T30-02-SS01**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	12/15/23 00:00	kwilson
Semivolatile Organics (no search) 8270	3510C/3550C	12/22/23 12:50	MJ	EPA 8270E	12/22/23 18:10	AH/JB/KT
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	12/14/23 17:10	MN

Lab#: AD41925-003 **Sample ID: PESRM-T30-03-SS01**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	12/15/23 00:00	kwilson
Semivolatile Organics (no search) 8270	3510C/3550C	12/22/23 12:50	MJ	EPA 8270E	12/22/23 20:09	AH/JB/KT
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	12/14/23 17:32	MN

Lab#: AD41925-004 **Sample ID: PESRM-T30-04-SS01**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	12/15/23 00:00	kwilson
Semivolatile Organics (no search) 8270	3510C/3550C	12/22/23 12:50	MJ	EPA 8270E	12/22/23 20:33	AH/JB/KT
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	12/15/23 14:06	MD

Lab#: AD41925-005 **Sample ID: PESRM-T30-05-SS01**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	12/15/23 00:00	kwilson
Semivolatile Organics (no search) 8270	3510C/3550C	12/22/23 12:50	MJ	EPA 8270E	12/22/23 19:45	AH/JB/KT
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	12/14/23 17:54	MN

Laboratory Chronicle

Client: Ramboll Americas Engineering Solutions **HC Project #:** 3121329

Project: PESRM Tank 30 Closure

Lab#: AD41925-006 **Sample ID: PESRM-T30-06-SS01**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	12/15/23 00:00	kwilson
Semivolatile Organics (no search) 8270	3510C/3550C	12/22/23 12:50	MJ	EPA 8270E	12/22/23 20:57	AH/JB/KT
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	12/14/23 18:16	MN

Lab#: AD41925-007 **Sample ID: PESRM-T30-07-SS01**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	12/15/23 00:00	kwilson
Semivolatile Organics (no search) 8270	3510C/3550C	12/22/23 12:50	MJ	EPA 8270E	12/22/23 21:21	AH/JB/KT
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	12/14/23 18:38	MN

Lab#: AD41925-008 **Sample ID: PESRM-T30-08-SS01**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	12/15/23 00:00	kwilson
Semivolatile Organics (no search) 8270	3510C/3550C	12/22/23 12:50	MJ	EPA 8270E	12/22/23 21:44	AH/JB/KT
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	12/14/23 18:59	MN

Lab#: AD41925-009 **Sample ID: PESRM-T30-09-SS01**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	12/15/23 00:00	kwilson
Semivolatile Organics (no search) 8270	3510C/3550C	12/22/23 12:50	MJ	EPA 8270E	12/22/23 22:08	AH/JB/KT
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	12/14/23 19:21	MN

Lab#: AD41925-010 **Sample ID: PESRM-T30-10-SS01**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	12/15/23 00:00	kwilson
Semivolatile Organics (no search) 8270	3510C/3550C	12/22/23 12:50	MJ	EPA 8270E	12/22/23 22:32	AH/JB/KT
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	12/14/23 20:27	MN

Laboratory Chronicle

Client: Ramboll Americas Engineering Solutions **HC Project #:** 3121329

Project: PESRM Tank 30 Closure

Lab#: AD41925-011 **Sample ID: PESRM-T30-11-SS01**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	12/15/23 00:00	kwilson
Semivolatile Organics (no search) 8270	3510C/3550C	12/22/23 12:50	MJ	EPA 8270E	12/22/23 22:56	AH/JB/KT
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	12/15/23 14:26	MD

Lab#: AD41925-012 **Sample ID: PESRM-T30-DUP-01**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	12/15/23 00:00	kwilson
Semivolatile Organics (no search) 8270	3510C/3550C	12/22/23 12:50	MJ	EPA 8270E	12/22/23 23:20	AH/JB/KT
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	12/14/23 19:43	MN

Lab#: AD41925-013 **Sample ID: PESRM-T30-GW-01**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Semivolatile Organics (no search) 8270	3510C/3550C	12/19/23 11:26	LV	EPA 8270E	12/19/23 20:42	AH/JB/KT
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	12/16/23 19:10	WP

Lab#: AD41925-014 **Sample ID: PESRM-T30-EQUIP-01**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Semivolatile Organics (no search) 8270	3510C/3550C	12/18/23 12:17	LV	EPA 8270E	12/19/23 11:47	AH/JB
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	12/16/23 00:40	WP

Lab#: AD41925-015 **Sample ID: TB01-20231213**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	12/16/23 00:19	WP

Chain of Custody

3121329 0025

Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 US Highway 46 and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458

Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

HC Hampton-Clarke WBE/DBE/SBE 800-426-9992

CHAIN OF CUSTODY RECORD

A Women-Owned, Disadvantaged, Small Business Enterprise

Project# (Lab Use Only) 3121329

Page 1 of 2

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

Customer Information

1a) Customer: Rambol Americas Engineering Solutions, Inc
Address: 4245 North Fairfax Drive, Arlington, VA 22203, Suite 700
1b) Email/Cell/Fax/Ph: tcarroll@ramboll.com
1c) Send Invoice to: tcarroll@ramboll.com
1d) Send Report to: tcarroll@ramboll.com

Project Information

2a) Project: PESRM HRP Tank 30 Closure
2b) Project Mgr: Taylor Carroll
2c) Project Location (City/State): Philadelphia, PA
2d) Quote/PO # (If Applicable):

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%) *	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%) *	Reduced:	EnviroData
3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
(8 Business Days (Stand.)) — circled	NY ASP CatA	[ ] Region 2 or 5
Other: ______		Other: ______

* Expedited TAT Not Always Available. Please Check with Lab.

FOR LAB USE ONLY ↓ Batch # AD41925

===> Check If Contingent ===>

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis *(specify methods & parameter lists)*

<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Composite (C)	Grab (G)	%Solids for Tot. VOs	BNA - soil [illegible]	VO - Terracore	None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
001	PESRM-T30-01-SS01	S	12/12/23	1430		X	X	X	X	2	3							
002	PESRM-T30-02-SS01	S	12/12/23	1130		X	X	X	X	2	3							
003	PESRM-T30-03-SS01	S	12/12/23	1200		X	X	X	X	2	3							
004	PESRM-T30-04-SS01	S	12/12/23	1230		X	X	X	X	2	3							
005	PESRM-T30-05-SS01	S	12/12/23	1030		X	X	X	X	2	3							
006	PESRM-T30-06-SS01	S	12/12/23	1100		X	X	X	X	2	3							
007	PESRM-T30-07-SS01	S	12/12/23	1400		X	X	X	X	2	3							
008	PESRM-T30-08-SS01	S	12/12/23	1330		X	X	X	X	2	3							
009	PESRM-T30-09-SS01	S	12/12/23	1310		X	X	X	X	2	3							
010	PESRM-T30-10-SS01	S	12/12/23	1300		X	X	X	X	2	3							

10) Relinquished by:	Accepted by:	Date	Time
[signature]	[signature]	12/13/23	1357
[signature]	[signature]	12/13/23	14:00
[signature]	[signature]	12/13/23	16:50

11) Sampler (print name): Cynthia Ting Date: 12/13/23

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 2.5

Additional Notes

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

3121329 0026

Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 US Highway 46 and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
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A Women-Owned, Disadvantaged, Small Business Enterprise

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 3121329

Page 2 of 2

3) Reporting Requirements (Please Circle)

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3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
8 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other:		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: Ramboll Americas Engineering Solutions, Inc
Address: 4245 North Fairfax Drive, Arlington, VA 22203, Suite 700
1b) Email/Cell/Fax/Ph: tcarroll@ramboll.com
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Project Information

2a) Project: PESRM HRP Tank 30 Closure
2b) Project Mgr: Taylor Carroll
2c) Project Location (City/State): Philadelphia, PA
2d) Quote/PO # (If Applicable):

FOR LAB USE ONLY ↓

Batch # AD41925

===> Check If Contingent ===>

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	% Solids for Tot VOCs	BNA - Soil/short list SVOCs	VOC - Terracore/4oz	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
011	PESRM-T30-11-SS01	S	12/12/23	1015		X	X	X	X	2	3							
012	PESRM-T30-DUP-01	S	12/12/23	1410		X	X	X	X	2	3							
013	PESRM-T30-GW-01	GW	12/13/23	0900				X	X	2	3							
014	PESRM-T30-EQUI-01	AQ	12/12/23	1500				X	X	2	3							
015	TB01-20231213	AQ	12/13/23	-					X		3							

10) Relinquished by:	Accepted by:	Date	Time
		12/13/23	1557
		12/13/23	14:00
		12/13/23	16:50

11) Sampler (print name): Cynthia Ting Date: 12/13/23

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 2.5

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

CONDITION UPON RECEIPT

Batch Number AD41925 Entered By: Ricardo
Date Entered 12/14/2023 11:03:00 A

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	No	Are the COC seals intact?
4	T-461	<--- Thermometer ID. Please specify the Temperature inside the container (in degC). 2.5
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	Yes	Do the contents match the COC? If no, specify
10	No	Is there enough sample sent for the analyses listed on the COC? If no, specify: ONLY ONE LITER AMBER RECEIVED FOR BN SAMPLE PESRM-T30-GW-01. LIMITED VOLUME.
11	No	Are samples preserved correctly?
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	NA	Other comments ...Specify (TB date, sample matrix, any missing info, etc.)
14	NA	Corrective actions (Specify item number and corrective action taken).
15	NA	Were any samples for ortho-phosphate or dissolved ferrous iron field filtered?

PRESERVATION DOCUMENT

Batch Number AD41925 Entered By: Ricardo

Date Entered 12/14/2023 11:10:00 A

Lab#:	Container Size	Container/Vial Check	Parameter	Preservative	Preservative Lot#	PH	pH Lot#
AD41925-001	NA	NA	NA	NA	NA	NA	NA
AD41925-002	NA	NA	NA	NA	NA	NA	NA
AD41925-003	NA	NA	NA	NA	NA	NA	NA
AD41925-004	NA	NA	NA	NA	NA	NA	NA
AD41925-005	NA	NA	NA	NA	NA	NA	NA
AD41925-006	NA	NA	NA	NA	NA	NA	NA
AD41925-007	NA	NA	NA	NA	NA	NA	NA
AD41925-008	NA	NA	NA	NA	NA	NA	NA
AD41925-009	NA	NA	NA	NA	NA	NA	NA
AD41925-010	NA	NA	NA	NA	NA	NA	NA
AD41925-011	NA	NA	NA	NA	NA	NA	NA
AD41925-012	NA	NA	NA	NA	NA	NA	NA
AD41925-013	40ML	G	VO	HCL	23E1262007	3.5	HC208072
AD41925-014	40ML	G	VO	HCL	23E1262007	1.0	HC208072
AD41925-015	40ML	G	VO	HCL	23E1262007	1.0	HC208072

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD41925-001	12/13/23 16:50	RICAR	0	M	Received
AD41925-001	12/13/23 17:26	RICAR	0	M	Login
AD41925-001	12/13/23 18:17	R31	1	A	NONE
AD41925-001	12/14/23 09:34	MD	1	M	VOA
AD41925-001	12/14/23 10:09	R31	1	A	NONE
AD41925-001	12/13/23 18:17	F19	2	A	none
AD41925-001	12/14/23 14:03	MN	2	A	VOA
AD41925-001	12/14/23 15:34	MN	2	A	VOA
AD41925-001	12/13/23 18:17	F19	3	A	none
AD41925-001	12/14/23 11:55	R12	4	A	NONE
AD41925-001	12/14/23 11:55	R12	5	A	NONE
AD41925-001	12/14/23 23:05	R12	5	A	NONE
AD41925-001	12/14/23 23:05	PA	5	A	mx
AD41925-001	12/15/23 08:42	KW	5	A	SOLIDS
AD41925-001	12/22/23 13:07	MJ	5	A	BNA
AD41925-001	12/22/23 17:09	R12	5	A	NONE
AD41925-002	12/13/23 16:50	RICAR	0	M	Received
AD41925-002	12/13/23 17:26	RICAR	0	M	Login
AD41925-002	12/13/23 18:17	R31	1	A	NONE
AD41925-002	12/14/23 09:34	MD	1	M	VOA
AD41925-002	12/14/23 10:09	R31	1	A	NONE
AD41925-002	12/13/23 18:17	F19	2	A	none
AD41925-002	12/14/23 14:03	MN	2	A	VOA
AD41925-002	12/13/23 18:17	F19	3	A	none
AD41925-002	12/14/23 11:55	R12	4	A	NONE
AD41925-002	12/14/23 11:55	R12	5	A	NONE
AD41925-002	12/14/23 23:05	PA	5	A	mx
AD41925-002	12/14/23 23:05	R12	5	A	NONE
AD41925-002	12/15/23 08:42	KW	5	A	SOLIDS
AD41925-002	12/22/23 13:07	MJ	5	A	BNA
AD41925-002	12/22/23 17:09	R12	5	A	NONE
AD41925-003	12/13/23 16:50	RICAR	0	M	Received
AD41925-003	12/13/23 17:26	RICAR	0	M	Login
AD41925-003	12/13/23 18:17	R31	1	A	NONE
AD41925-003	12/14/23 09:34	MD	1	M	VOA
AD41925-003	12/14/23 10:09	R31	1	A	NONE
AD41925-003	12/13/23 18:17	F19	2	A	none
AD41925-003	12/14/23 14:03	MN	2	A	VOA
AD41925-003	12/13/23 18:17	F19	3	A	none
AD41925-003	12/14/23 11:55	R12	4	A	NONE
AD41925-003	12/14/23 11:55	R12	5	A	NONE
AD41925-003	12/14/23 23:05	R12	5	A	NONE
AD41925-003	12/14/23 23:05	PA	5	A	mx
AD41925-003	12/15/23 08:42	KW	5	A	SOLIDS
AD41925-003	12/22/23 13:07	MJ	5	A	BNA
AD41925-003	12/22/23 17:09	R12	5	A	NONE
AD41925-004	12/13/23 16:50	RICAR	0	M	Received
AD41925-004	12/13/23 17:26	RICAR	0	M	Login
AD41925-004	12/13/23 18:17	R31	1	A	NONE
AD41925-004	12/14/23 09:34	MD	1	M	VOA
AD41925-004	12/14/23 10:09	R31	1	A	NONE
AD41925-004	12/15/23 12:40	SG	1	M	VOA
AD41925-004	12/15/23 12:41	R31	1	A	NONE
AD41925-004	12/13/23 18:17	F19	2	A	none
AD41925-004	12/13/23 18:17	F19	3	A	none
AD41925-004	12/14/23 11:55	R12	4	A	NONE
AD41925-004	12/14/23 11:55	R12	5	A	NONE
AD41925-004	12/14/23 23:05	R12	5	A	NONE
AD41925-004	12/14/23 23:05	PA	5	A	mx
AD41925-004	12/15/23 08:42	KW	5	A	SOLIDS
AD41925-004	12/22/23 13:07	MJ	5	A	BNA
AD41925-004	12/22/23 17:09	R12	5	A	NONE
AD41925-005	12/13/23 16:50	RICAR	0	M	Received
AD41925-005	12/13/23 17:26	RICAR	0	M	Login
AD41925-005	12/13/23 18:17	R31	1	A	NONE
AD41925-005	12/14/23 09:34	MD	1	M	VOA
AD41925-005	12/14/23 10:09	R31	1	A	NONE
AD41925-005	12/13/23 18:17	F19	2	A	none
AD41925-005	12/14/23 14:03	MN	2	A	VOA
AD41925-005	12/13/23 18:17	F19	3	A	none
AD41925-005	12/14/23 11:55	R12	4	A	NONE
AD41925-005	12/14/23 11:55	R12	5	A	NONE
AD41925-005	12/14/23 23:05	PA	5	A	mx
AD41925-005	12/14/23 23:05	R12	5	A	NONE
AD41925-005	12/15/23 08:42	KW	5	A	SOLIDS
AD41925-005	12/22/23 13:07	MJ	5	A	BNA
AD41925-005	12/22/23 17:09	R12	5	A	NONE
AD41925-006	12/13/23 16:50	RICAR	0	M	Received
AD41925-006	12/13/23 17:26	RICAR	0	M	Login
AD41925-006	12/13/23 18:17	R31	1	A	NONE
AD41925-006	12/14/23 09:34	MD	1	M	VOA
AD41925-006	12/14/23 10:09	R31	1	A	NONE
AD41925-006	12/13/23 18:17	F19	2	A	none
AD41925-006	12/14/23 14:03	MN	2	A	VOA
AD41925-006	12/13/23 18:17	F19	3	A	none
AD41925-006	12/14/23 11:55	R12	4	A	NONE
AD41925-006	12/14/23 11:55	R12	5	A	NONE
AD41925-006	12/14/23 23:05	PA	5	A	mx
AD41925-006	12/14/23 23:05	R12	5	A	NONE
AD41925-006	12/15/23 08:42	KW	5	A	SOLIDS
AD41925-006	12/22/23 13:07	MJ	5	A	BNA
AD41925-006	12/22/23 17:09	R12	5	A	NONE
AD41925-007	12/13/23 16:50	RICAR	0	M	Received
AD41925-007	12/13/23 17:26	RICAR	0	M	Login
AD41925-007	12/13/23 18:17	R31	1	A	NONE
AD41925-007	12/14/23 09:34	MD	1	M	VOA
AD41925-007	12/14/23 10:09	R31	1	A	NONE
AD41925-007	12/13/23 18:17	F19	2	A	none
AD41925-007	12/14/23 14:03	MN	2	A	VOA
AD41925-007	12/13/23 18:17	F19	3	A	none
AD41925-007	12/14/23 11:55	R12	4	A	NONE
AD41925-007	12/14/23 11:55	R12	5	A	NONE
AD41925-007	12/14/23 23:05	PA	5	A	mx
AD41925-007	12/14/23 23:05	R12	5	A	NONE
AD41925-007	12/15/23 08:42	KW	5	A	SOLIDS
AD41925-007	12/22/23 13:07	MJ	5	A	BNA
AD41925-007	12/22/23 17:09	R12	5	A	NONE
AD41925-008	12/13/23 16:50	RICAR	0	M	Received
AD41925-008	12/13/23 17:26	RICAR	0	M	Login
AD41925-008	12/13/23 18:17	R31	1	A	NONE
AD41925-008	12/14/23 09:34	MD	1	M	VOA
AD41925-008	12/14/23 10:09	R31	1	A	NONE
AD41925-008	12/13/23 18:17	F19	2	A	none
AD41925-008	12/14/23 14:04	MN	2	A	VOA
AD41925-008	12/13/23 18:17	F19	3	A	none
AD41925-008	12/14/23 11:55	R12	4	A	NONE
AD41925-008	12/14/23 11:55	R12	5	A	NONE
AD41925-008	12/14/23 23:05	R12	5	A	NONE
AD41925-008	12/14/23 23:05	PA	5	A	mx
AD41925-008	12/15/23 08:42	KW	5	A	SOLIDS
AD41925-008	12/22/23 13:07	MJ	5	A	BNA
AD41925-008	12/22/23 17:09	R12	5	A	NONE
AD41925-009	12/13/23 16:50	RICAR	0	M	Received
AD41925-009	12/13/23 17:26	RICAR	0	M	Login
AD41925-009	12/13/23 18:17	R31	1	A	NONE
AD41925-009	12/14/23 09:34	MD	1	M	VOA
AD41925-009	12/14/23 10:09	R31	1	A	NONE
AD41925-009	12/13/23 18:17	F19	2	A	none
AD41925-009	12/14/23 15:34	MN	2	A	VOA
AD41925-009	12/13/23 18:17	F19	3	A	none
AD41925-009	12/14/23 11:55	R12	4	A	NONE
AD41925-009	12/14/23 11:55	R12	5	A	NONE
AD41925-009	12/14/23 23:05	PA	5	A	mx
AD41925-009	12/14/23 23:05	R12	5	A	NONE
AD41925-009	12/15/23 08:42	KW	5	A	SOLIDS
AD41925-009	12/22/23 13:07	MJ	5	A	BNA
AD41925-009	12/22/23 17:09	R12	5	A	NONE
AD41925-010	12/13/23 16:50	RICAR	0	M	Received
AD41925-010	12/13/23 17:26	RICAR	0	M	Login
AD41925-010	12/13/23 18:17	R31	1	A	NONE
AD41925-010	12/14/23 09:34	MD	1	M	VOA
AD41925-010	12/14/23 10:09	R31	1	A	NONE
AD41925-010	12/15/23 12:40	SG	1	M	VOA
AD41925-010	12/15/23 12:41	R31	1	A	NONE
AD41925-010	12/13/23 18:17	F19	2	A	none
AD41925-010	12/14/23 15:34	MN	2	A	VOA
AD41925-010	12/13/23 18:17	F19	3	A	none
AD41925-010	12/14/23 11:55	R12	4	A	NONE
AD41925-010	12/14/23 11:55	R12	5	A	NONE
AD41925-010	12/14/23 23:05	PA	5	A	mx

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD41925-010	12/14/23 23:05	R12	5	A	NONE
AD41925-010	12/15/23 08:42	KW	5	A	SOLIDS
AD41925-010	12/22/23 13:07	MJ	5	A	BNA
AD41925-010	12/22/23 17:09	R12	5	A	NONE
AD41925-011	12/13/23 16:50	RICAR	0	M	Received
AD41925-011	12/13/23 17:26	RICAR	0	M	Login
AD41925-011	12/13/23 18:17	R31	1	A	NONE
AD41925-011	12/14/23 09:34	MD	1	M	VOA
AD41925-011	12/14/23 10:09	R31	1	A	NONE
AD41925-011	12/15/23 12:40	SG	1	M	VOA
AD41925-011	12/15/23 12:41	R31	1	A	NONE
AD41925-011	12/13/23 18:17	F19	2	A	none
AD41925-011	12/13/23 18:17	F19	3	A	none
AD41925-011	12/14/23 11:55	R12	4	A	NONE
AD41925-011	12/14/23 11:55	R12	5	A	NONE
AD41925-011	12/14/23 23:05	PA	5	A	mx
AD41925-011	12/14/23 23:05	R12	5	A	NONE
AD41925-011	12/15/23 08:42	KW	5	A	SOLIDS
AD41925-011	12/22/23 13:07	MJ	5	A	BNA
AD41925-011	12/22/23 17:09	R12	5	A	NONE
AD41925-012	12/13/23 16:50	RICAR	0	M	Received
AD41925-012	12/13/23 17:26	RICAR	0	M	Login
AD41925-012	12/13/23 18:17	R31	1	A	NONE
AD41925-012	12/14/23 09:34	MD	1	M	VOA
AD41925-012	12/14/23 10:09	R31	1	A	NONE
AD41925-012	12/13/23 18:17	F19	2	A	none
AD41925-012	12/14/23 15:34	MN	2	A	VOA
AD41925-012	12/13/23 18:17	F19	3	A	none
AD41925-012	12/14/23 11:55	R12	4	A	NONE
AD41925-012	12/14/23 11:55	R12	5	A	NONE
AD41925-012	12/14/23 23:05	PA	5	A	mx
AD41925-012	12/14/23 23:05	R12	5	A	NONE
AD41925-012	12/15/23 08:42	KW	5	A	SOLIDS
AD41925-012	12/22/23 13:07	MJ	5	A	BNA
AD41925-012	12/22/23 17:09	R12	5	A	NONE
AD41925-013	12/13/23 16:50	RICAR	0	M	Received
AD41925-013	12/13/23 17:26	RICAR	0	M	Login
AD41925-013	12/15/23 14:45	R31/P	1	A	NONE
AD41925-013	12/15/23 14:34	R31	2	A	NONE
AD41925-013	12/15/23 22:09	WP	2	A	VOA
AD41925-013	12/15/23 14:34	R31	3	A	NONE
AD41925-013	12/14/23 11:55	R12	4	A	NONE
AD41925-013	12/19/23 11:26	L;V	4	A	BN/BNA
AD41925-014	12/13/23 16:50	RICAR	0	M	Received
AD41925-014	12/13/23 17:26	RICAR	0	M	Login
AD41925-014	12/15/23 14:45	R31/P	1	A	NONE
AD41925-014	12/15/23 14:34	R31	2	A	NONE
AD41925-014	12/15/23 19:04	WP	2	A	VOA
AD41925-014	12/15/23 14:34	R31	3	A	NONE
AD41925-014	12/14/23 11:55	R12	4	A	NONE
AD41925-014	12/14/23 11:55	R12	5	A	NONE
AD41925-014	12/18/23 12:37	LV	5	A	BN/BNA
AD41925-015	12/13/23 16:50	RICAR	0	M	Received
AD41925-015	12/13/23 17:26	RICAR	0	M	Login
AD41925-015	12/15/23 14:45	R31/P	1	A	NONE
AD41925-015	12/15/23 14:34	R31	2	A	NONE
AD41925-015	12/15/23 19:04	WP	2	A	VOA
AD41925-015	12/15/23 14:34	R31	3	A	NONE

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

Volatile Data

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD41925-001
Client Id: PESRM-T30-01-SS01
Data File: 6M177179.D
Analysis Date: 12/14/23 20:05
Date Rec/Extracted: 12/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5.2g
Final Vol: NA
Dilution: 0.962
Solids: 62

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	0.0016	U	100-41-4	Ethylbenzene	0.0016	U
108-67-8	1,3,5-Trimethylbenzene	0.0016	U	98-82-8	Isopropylbenzene	0.0016	U
71-43-2	Benzene	0.0016	U	1634-04-4	Methyl-t-butyl ether	0.0016	U

Worksheet #: 720292

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

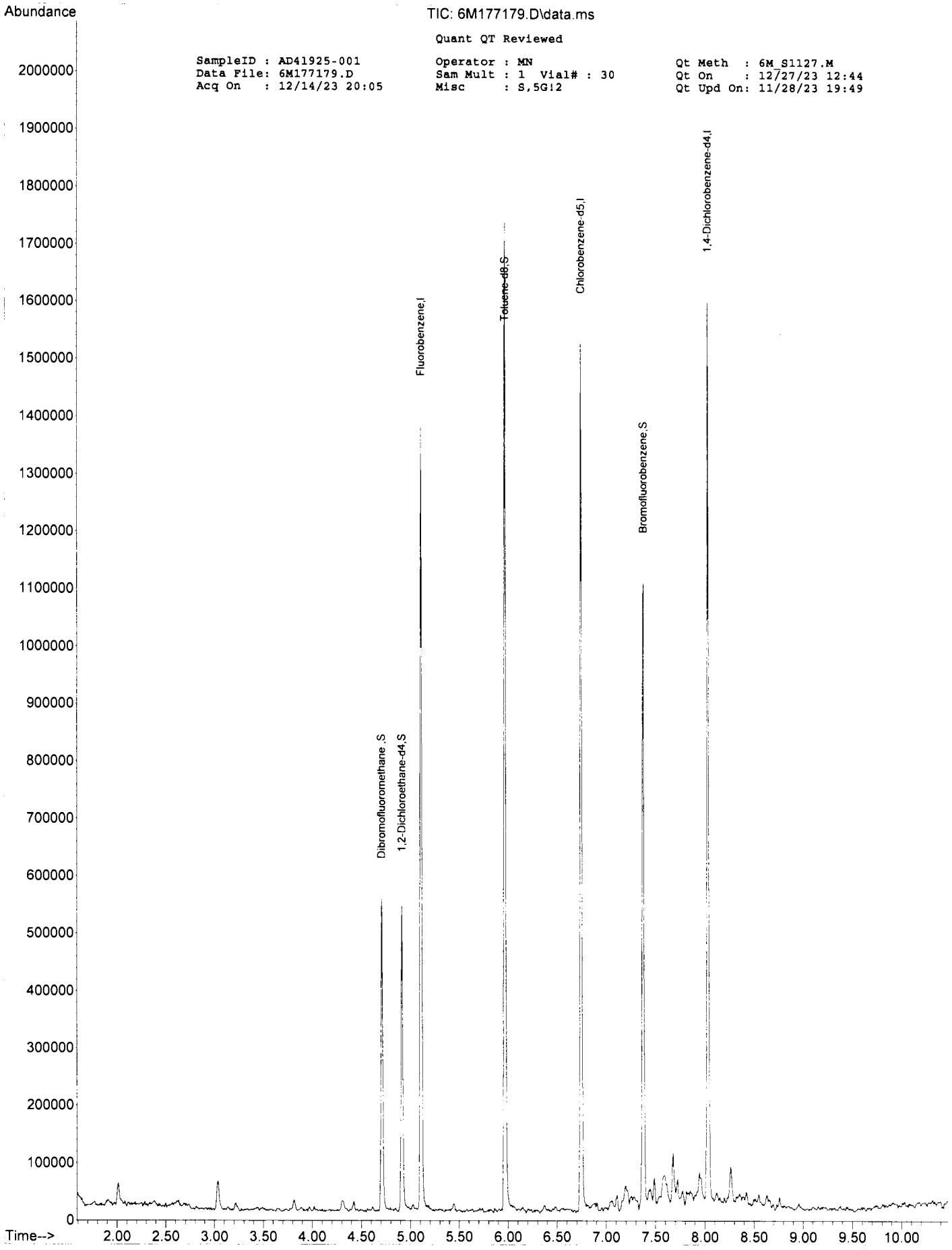
SampleID : AD41925-001 Operator : MN Qt Meth : 6M_S1127.M
Data File: 6M177179.D Sam Mult : 1 Vial# : 30 Qt On : 12/27/23 12:44
Acq On : 12/14/23 20:05 Misc : S,5G!2 Qt Upd On: 11/28/23 19:49

Data Path : G:\GcMsData\2023\GCMS_6\Data\12-14-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.111	96	777017	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.745	117	593451	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.031	152	294479	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.709	111	190504	31.82	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.07%			
39) 1,2-Dichloroethane-d4	4.916	67	119019	31.89	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.30%			
66) Toluene-d8	5.971	98	794362	28.95	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.50%			
76) Bromofluorobenzene	7.379	174	228584	31.61	ug/l	0.00
Spiked Amount 30.000			Recovery = 105.37%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M177179.D\data.ms
Quant QT Reviewed
SampleID : AD41925-001
Data File: 6M177179.D
Acq On : 12/14/23 20:05
Operator : MN
Sam Mult : 1 Vial# : 30
Misc : S,5G12
Qt Meth : 6M_S1127.M
Qt On : 12/27/23 12:44
Qt Upd On: 11/28/23 19:49
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD41925-002
Client Id: PESRM-T30-02-SS01
Data File: 6M177171.D
Analysis Date: 12/14/23 17:10
Date Rec/Extracted: 12/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 7.24g
Final Vol: NA
Dilution: 0.691
Solids: 72

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	0.00096	U	100-41-4	Ethylbenzene	0.00096	U
108-67-8	1,3,5-Trimethylbenzene	0.00096	U	98-82-8	Isopropylbenzene	0.00096	U
71-43-2	Benzene	0.00096	U	1634-04-4	Methyl-t-butyl ether	0.00096	U

Worksheet #: 720292

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

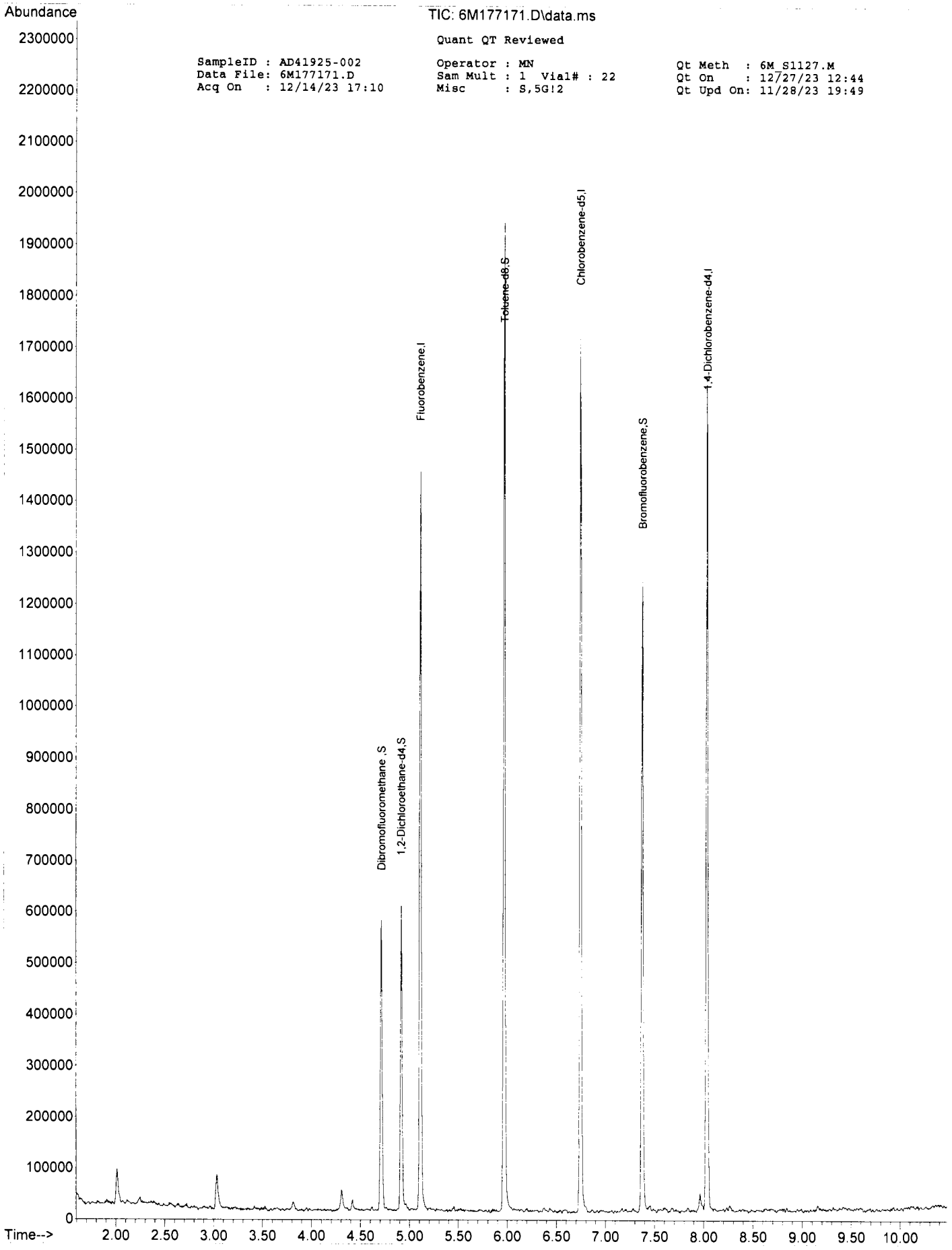
Quantitation Report (QT Reviewed)

SampleID : AD41925-002 Operator : MN Qt Meth : 6M_S1127.M
Data File: 6M177171.D Sam Mult : 1 Vial# : 22 Qt On : 12/27/23 12:44
Acq On : 12/14/23 17:10 Misc : S,5G!2 Qt Upd On: 11/28/23 19:49

Data Path : G:\GcMsData\2023\GCMS_6\Data\12-14-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.111	96	840847	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.745	117	654665	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.037	152	329625	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.715	111	208099	32.12	ug/l	0.00
Spiked Amount 30.000			Recovery = 107.07%			
39) 1,2-Dichloroethane-d4	4.916	67	131825	32.64	ug/l	0.00
Spiked Amount 30.000			Recovery = 108.80%			
66) Toluene-d8	5.971	98	871354	28.79	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.97%			
76) Bromofluorobenzene	7.379	174	252534	31.20	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M177171.D\data.ms
Quant QT Reviewed
SampleID : AD41925-002
Data File: 6M177171.D
Acq On : 12/14/23 17:10
Operator : MN
Sam Mult : 1 Vial# : 22
Misc : S,5G!2
Qt Meth : 6M_S1127.M
Qt On : 12/27/23 12:44
Qt Upd On: 11/28/23 19:49
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD41925-003
Client Id: PESRM-T30-03-SS01
Data File: 6M177172.D
Analysis Date: 12/14/23 17:32
Date Rec/Extracted: 12/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 6.77g
Final Vol: NA
Dilution: 0.739
Solids: 71

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	0.0010	U	100-41-4	Ethylbenzene	0.0010	U
108-67-8	1,3,5-Trimethylbenzene	0.0010	U	98-82-8	Isopropylbenzene	0.0010	U
71-43-2	Benzene	0.0010	U	1634-04-4	Methyl-t-butyl ether	0.0010	U

Worksheet #: 720292

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

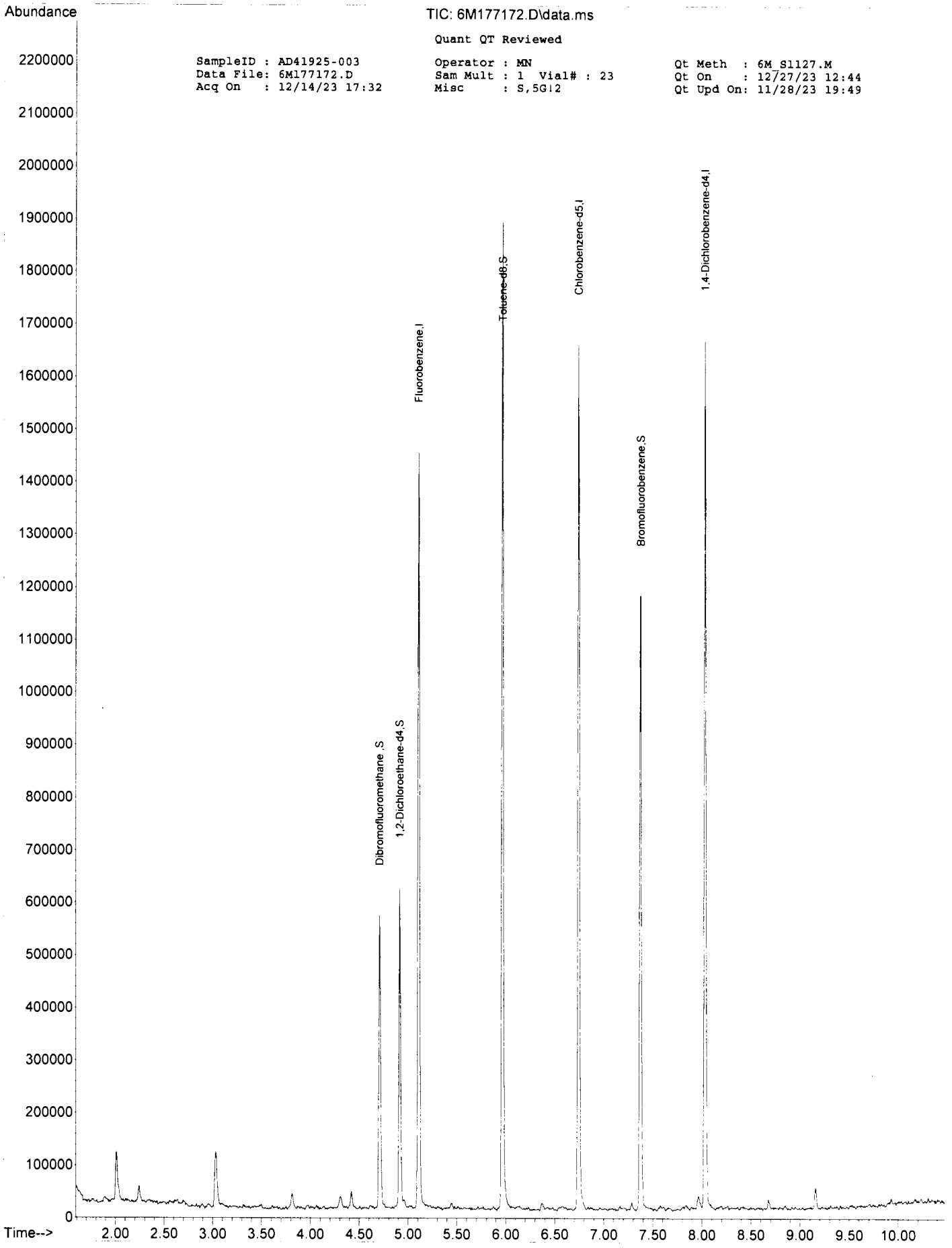
Quantitation Report (QT Reviewed)

SampleID : AD41925-003 Operator : MN Qt Meth : 6M_S1127.M
Data File: 6M177172.D Sam Mult : 1 Vial# : 23 Qt On : 12/27/23 12:44
Acq On : 12/14/23 17:32 Misc : S,5G!2 Qt Upd On: 11/28/23 19:49

Data Path : G:\GcMsData\2023\GCMS_6\Data\12-14-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.111	96	824907	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.745	117	662306	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.031	152	323801	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.709	111	205001	32.25	ug/l	0.00
Spiked Amount 30.000			Recovery = 107.50%			
39) 1,2-Dichloroethane-d4	4.916	67	132904	33.54	ug/l	0.00
Spiked Amount 30.000			Recovery = 111.80%			
66) Toluene-d8	5.971	98	867942	28.34	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.47%			
76) Bromofluorobenzene	7.379	174	246930	31.06	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.53%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M177172.D\data.ms
Quant QT Reviewed
SampleID : AD41925-003
Data File: 6M177172.D
Acq On : 12/14/23 17:32
Operator : MN
Sam Mult : 1 Vial# : 23
Misc : S,5G12
Qt Meth : 6M_S1127.M
Qt On : 12/27/23 12:44
Qt Upd On: 11/28/23 19:49
Dibromofluoromethane .S
1,2-Dichloroethane-d4.S
Fluorobenzene.I
Toluene-d8.S
Chlorobenzene-d5.I
Bromofluorobenzene.S
1,4-Dichlorobenzene-d4.I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD41925-004
Client Id: PESRM-T30-04-SS01
Data File: 11M118365.D
Analysis Date: 12/15/23 14:06
Date Rec/Extracted: 12/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Methanol
Extraction Ratio: 7.56g:10ml
Final Vol: NA
Dilution: 66.1
Solids: 78

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	0.085	U	**100-41-4**	**Ethylbenzene**	**0.085**	**0.88**
108-67-8	1,3,5-Trimethylbenzene	0.085	U	98-82-8	Isopropylbenzene	0.085	U
71-43-2	Benzene	0.042	U	1634-04-4	Methyl-t-butyl ether	0.074	U

Worksheet #: 720292

Total Target Concentration 0.88

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

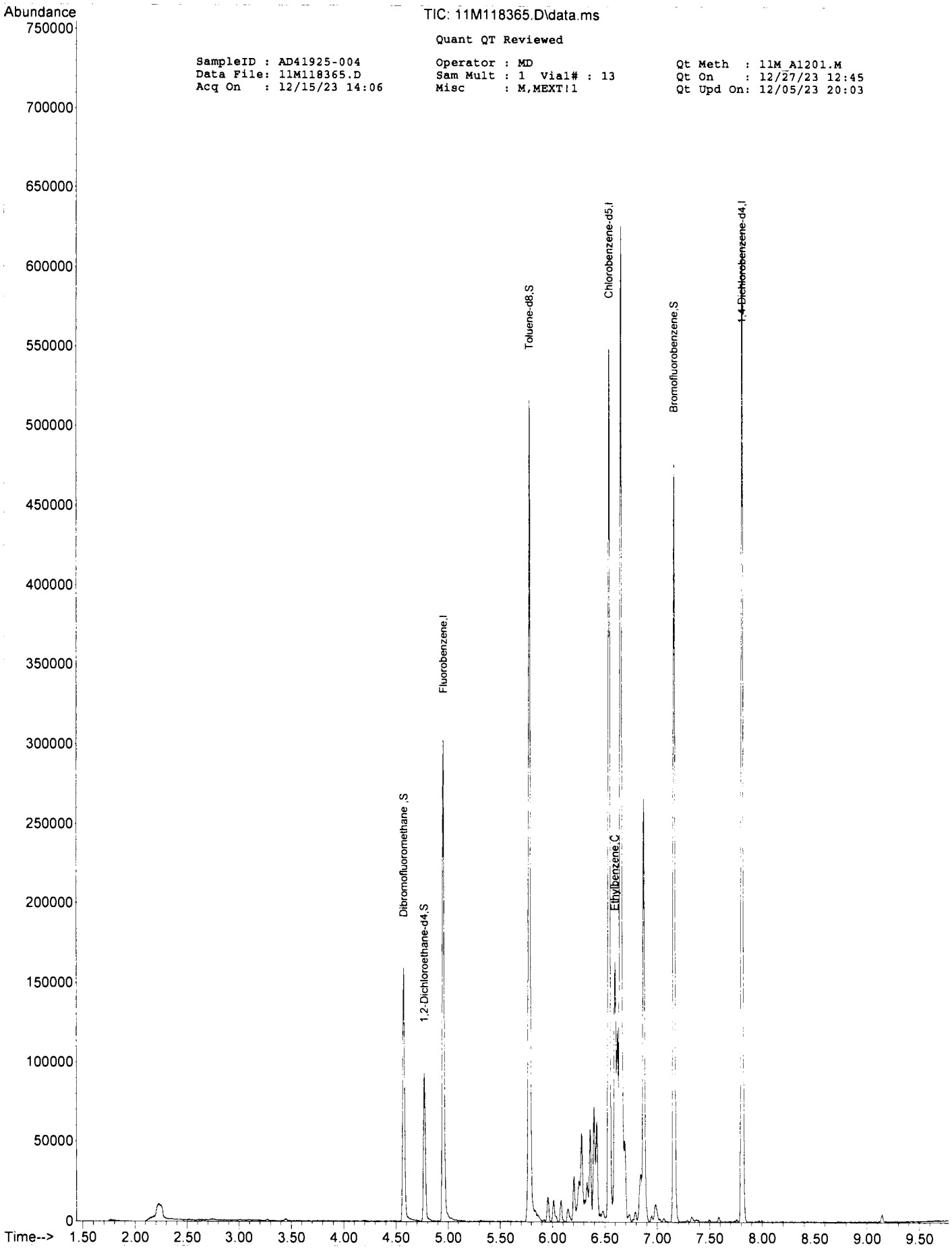
Quantitation Report (QT Reviewed)

SampleID : AD41925-004 Operator : MD Qt Meth : 11M_A1201.M
Data File: 11M118365.D Sam Mult : 1 Vial# : 13 Qt On : 12/27/23 12:45
Acq On : 12/15/23 14:06 Misc : M,MEXT!1 Qt Upd On: 12/05/23 20:03

Data Path : G:\GcMsData\2023\GCMS_11\Data\12-15-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.955	96	213105	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.540	117	276303	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.810	152	146278	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.575	111	66852	28.90	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.33%			
39) 1,2-Dichloroethane-d4	4.771	67	22008	29.41	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.03%			
66) Toluene-d8	5.781	98	253517	26.40	ug/l	0.00
Spiked Amount 30.000			Recovery = 88.00%			
76) Bromofluorobenzene	7.160	174	118885	28.04	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.47%			
Target Compounds						Qvalue
74) Ethylbenzene	6.598	106	18808	10.4303	ug/l	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 11M118365.D\data.ms
Quant QT Reviewed
SampleID : AD41925-004
Data File: 11M118365.D
Acq On : 12/15/23 14:06
Operator : MD
Sam Mult : 1 Vial# : 13
Misc : M,MEXT!1
Qt Meth : 11M_A1201.M
Qt On : 12/27/23 12:45
Qt Upd On: 12/05/23 20:03
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Ethylbenzene,C
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD41925-005
Client Id: PESRM-T30-05-SS01
Data File: 6M177173.D
Analysis Date: 12/14/23 17:54
Date Rec/Extracted: 12/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5.56g
Final Vol: NA
Dilution: 0.899
Solids: 65

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	0.0014	U	100-41-4	Ethylbenzene	0.0014	U
108-67-8	1,3,5-Trimethylbenzene	0.0014	U	98-82-8	Isopropylbenzene	0.0014	U
71-43-2	Benzene	0.0014	U	1634-04-4	Methyl-t-butyl ether	0.0014	U

Worksheet #: 720292

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

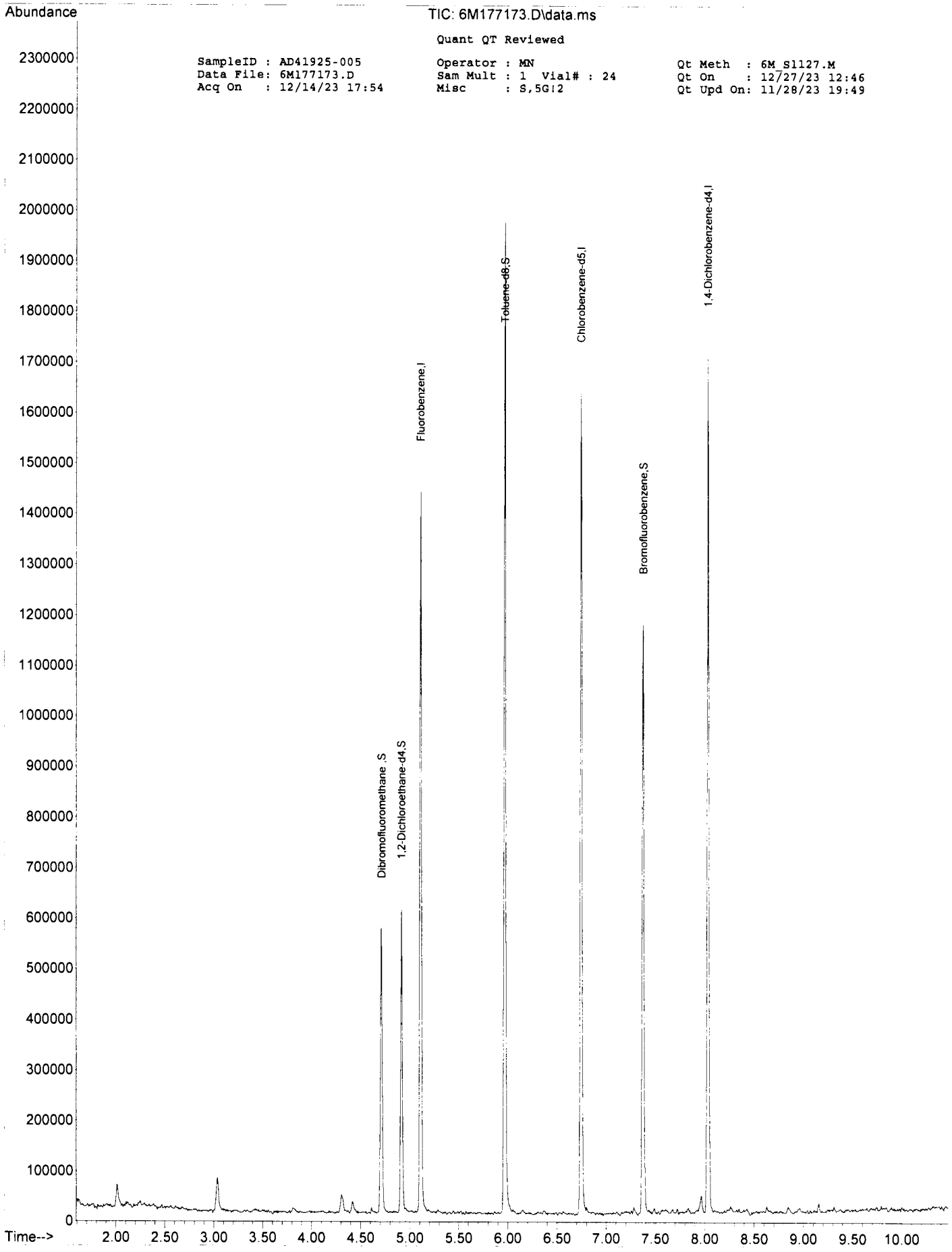
Quantitation Report (QT Reviewed)

SampleID : AD41925-005 Operator : MN Qt Meth : 6M_S1127.M
Data File: 6M177173.D Sam Mult : 1 Vial# : 24 Qt On : 12/27/23 12:46
Acq On : 12/14/23 17:54 Misc : S,5G!2 Qt Upd On: 11/28/23 19:49

Data Path : G:\GcMsData\2023\GCMS_6\Data\12-14-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.111	96	832139	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.745	117	658490	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.031	152	321078	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.715	111	207711	32.39	ug/l	0.00
Spiked Amount 30.000			Recovery = 107.97%			
39) 1,2-Dichloroethane-d4	4.916	67	130195	32.57	ug/l	0.00
Spiked Amount 30.000			Recovery = 108.57%			
66) Toluene-d8	5.970	98	865786	28.44	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.80%			
76) Bromofluorobenzene	7.379	174	242358	30.74	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.47%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M177173.D\data.ms
Quant QT Reviewed
SampleID : AD41925-005
Data File: 6M177173.D
Acq On : 12/14/23 17:54
Operator : MN
Sam Mult : 1 Vial# : 24
Misc : S,5G!2
Qt Meth : 6M_S1127.M
Qt On : 12/27/23 12:46
Qt Upd On: 11/28/23 19:49
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD41925-006
Client Id: PESRM-T30-06-SS01
Data File: 6M177174.D
Analysis Date: 12/14/23 18:16
Date Rec/Extracted: 12/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 6.41g
Final Vol: NA
Dilution: 0.780
Solids: 72

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	0.0011	U	100-41-4	Ethylbenzene	0.0011	U
108-67-8	1,3,5-Trimethylbenzene	0.0011	U	98-82-8	Isopropylbenzene	0.0011	U
71-43-2	Benzene	0.0011	U	1634-04-4	Methyl-t-butyl ether	0.0011	U

Worksheet #: 720292

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

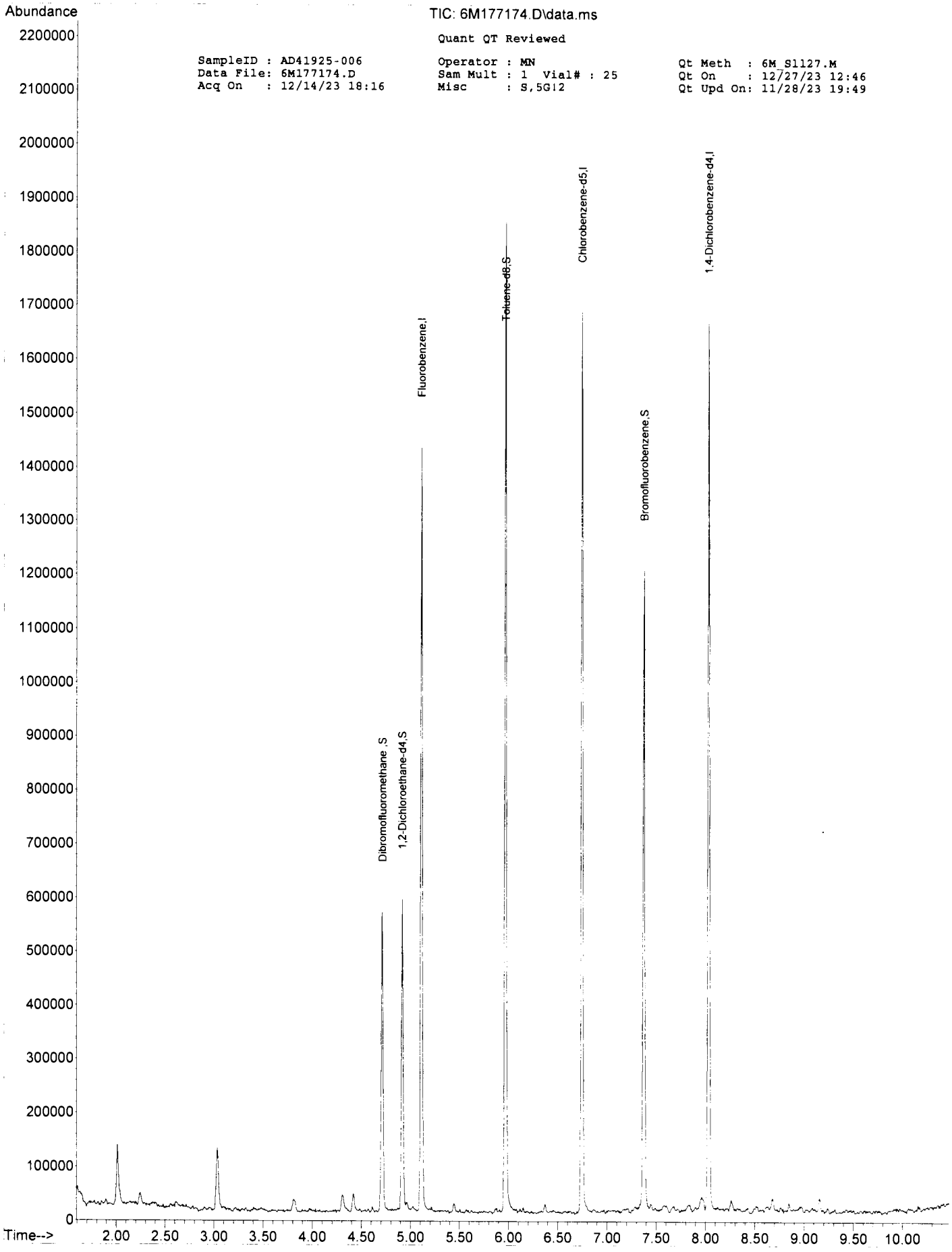
Quantitation Report (QT Reviewed)

SampleID : AD41925-006 Operator : MN Qt Meth : 6M_S1127.M
Data File: 6M177174.D Sam Mult : 1 Vial# : 25 Qt On : 12/27/23 12:46
Acq On : 12/14/23 18:16 Misc : S,5G!2 Qt Upd On: 11/28/23 19:49

Data Path : G:\GcMsData\2023\GCMS_6\Data\12-14-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.111	96	810696	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.745	117	655885	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.031	152	327375	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.715	111	201526	32.26	ug/l	0.00
Spiked Amount 30.000			Recovery =	107.53%		
39) 1,2-Dichloroethane-d4	4.916	67	131445	33.76	ug/l	0.00
Spiked Amount 30.000			Recovery =	112.53%		
66) Toluene-d8	5.971	98	845071	27.87	ug/l	0.00
Spiked Amount 30.000			Recovery =	92.90%		
76) Bromofluorobenzene	7.379	174	237220	29.51	ug/l	0.00
Spiked Amount 30.000			Recovery =	98.37%		
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M177174.D\data.ms
Quant QT Reviewed
SampleID : AD41925-006
Data File: 6M177174.D
Acq On : 12/14/23 18:16
Operator : MN
Sam Mult : 1 Vial# : 25
Misc : S,5G12
Qt Meth : 6M_S1127.M
Qt On : 12/27/23 12:46
Qt Upd On: 11/28/23 19:49
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD41925-007
Client Id: PESRM-T30-07-SS01
Data File: 6M177175.D
Analysis Date: 12/14/23 18:38
Date Rec/Extracted: 12/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 6.38g
Final Vol: NA
Dilution: 0.784
Solids: 73

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	0.0011	U	100-41-4	Ethylbenzene	0.0011	U
108-67-8	1,3,5-Trimethylbenzene	0.0011	U	98-82-8	Isopropylbenzene	0.0011	U
71-43-2	Benzene	0.0011	U	1634-04-4	Methyl-t-butyl ether	0.0011	U

Worksheet #: 720292

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

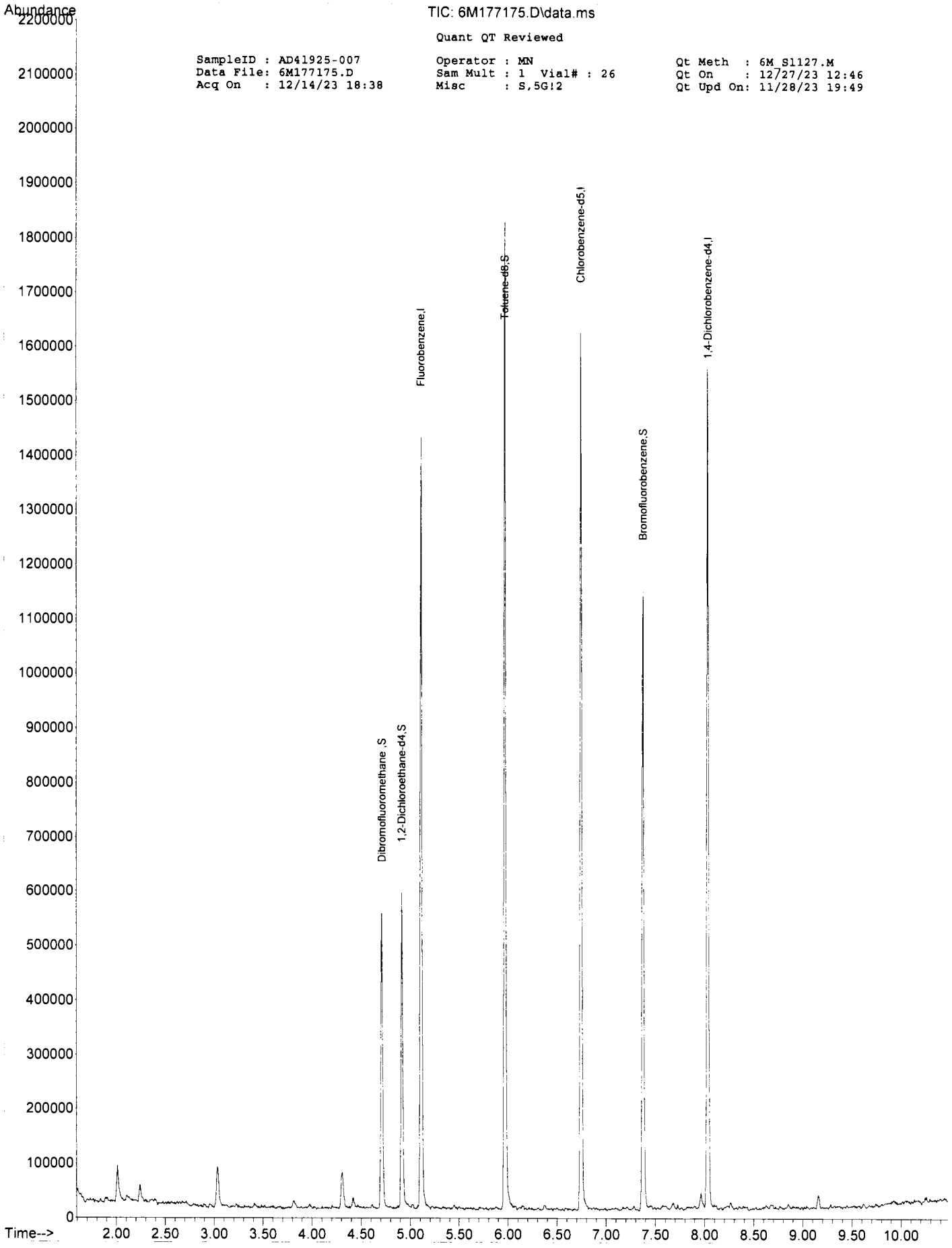
Quantitation Report (QT Reviewed)

SampleID : AD41925-007 Operator : MN Qt Meth : 6M_S1127.M
Data File: 6M177175.D Sam Mult : 1 Vial# : 26 Qt On : 12/27/23 12:46
Acq On : 12/14/23 18:38 Misc : S,5G!2 Qt Upd On: 11/28/23 19:49

Data Path : G:\GcMsData\2023\GCMS_6\Data\12-14-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.111	96	808828	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.744	117	649511	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.037	152	308687	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.714	111	200992	32.25	ug/l	0.00
Spiked Amount 30.000			Recovery = 107.50%			
39) 1,2-Dichloroethane-d4	4.915	67	126880	32.66	ug/l	0.00
Spiked Amount 30.000			Recovery = 108.87%			
66) Toluene-d8	5.970	98	825321	27.48	ug/l	0.00
Spiked Amount 30.000			Recovery = 91.60%			
76) Bromofluorobenzene	7.378	174	238621	31.48	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.93%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M177175.D\data.ms
Quant QT Reviewed
SampleID : AD41925-007
Data File: 6M177175.D
Acq On : 12/14/23 18:38
Operator : MN
Sam Mult : 1 Vial# : 26
Misc : S,5G!2
Qt Meth : 6M_S1127.M
Qt On : 12/27/23 12:46
Qt Upd On: 11/28/23 19:49
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD41925-008
Client Id: PESRM-T30-08-SS01
Data File: 6M177176.D
Analysis Date: 12/14/23 18:59
Date Rec/Extracted: 12/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 6.2g
Final Vol: NA
Dilution: 0.806
Solids: 73

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	0.0011	U	100-41-4	Ethylbenzene	0.0011	U
108-67-8	1,3,5-Trimethylbenzene	0.0011	U	98-82-8	Isopropylbenzene	0.0011	U
71-43-2	Benzene	0.0011	U	1634-04-4	Methyl-t-butyl ether	0.0011	U

Worksheet #: 720292

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

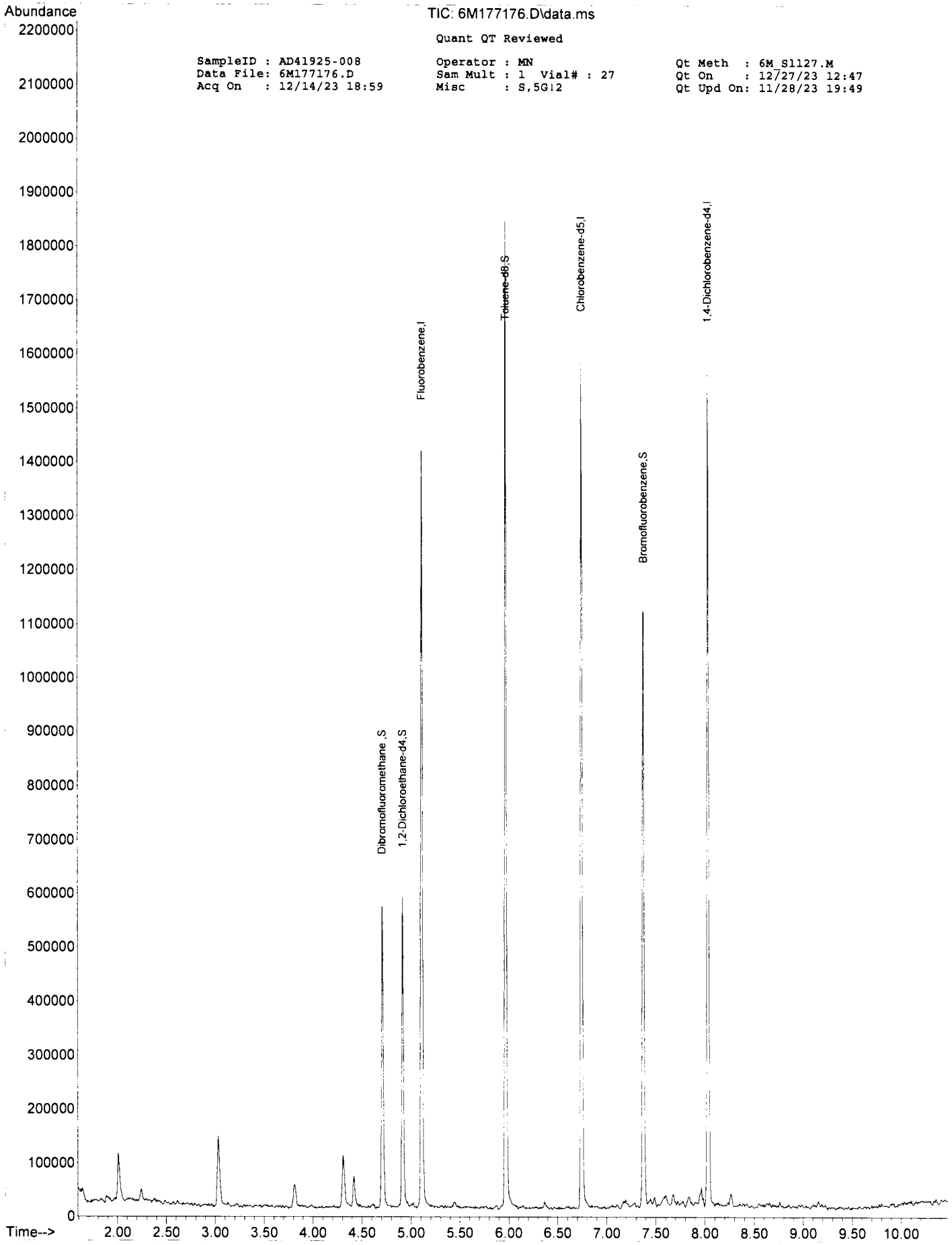
Quantitation Report (QT Reviewed)

SampleID : AD41925-008 Operator : MN Qt Meth : 6M_S1127.M
Data File: 6M177176.D Sam Mult : 1 Vial# : 27 Qt On : 12/27/23 12:47
Acq On : 12/14/23 18:59 Misc : S,5G!2 Qt Upd On: 11/28/23 19:49

Data Path : G:\GcMsData\2023\GCMS_6\Data\12-14-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.111	96	807091	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.745	117	628986	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.031	152	309864	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.709	111	196573	31.61	ug/l	0.00
Spiked Amount 30.000			Recovery = 105.37%			
39) 1,2-Dichloroethane-d4	4.916	67	126519	32.64	ug/l	0.00
Spiked Amount 30.000			Recovery = 108.80%			
66) Toluene-d8	5.971	98	844387	29.03	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.77%			
76) Bromofluorobenzene	7.379	174	227434	29.89	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.63%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M177176.D\data.ms
Quant QT Reviewed
SampleID : AD41925-008
Data File: 6M177176.D
Acq On : 12/14/23 18:59
Operator : MN
Sam Mult : 1 Vial# : 27
Misc : S,5G12
Qt Meth : 6M_S1127.M
Qt On : 12/27/23 12:47
Qt Upd On: 11/28/23 19:49
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD41925-009
Client Id: PESRM-T30-09-SS01
Data File: 6M177177.D
Analysis Date: 12/14/23 19:21
Date Rec/Extracted: 12/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 6g
Final Vol: NA
Dilution: 0.833
Solids: 76

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	0.0011	U	100-41-4	Ethylbenzene	0.0011	U
108-67-8	1,3,5-Trimethylbenzene	0.0011	U	98-82-8	Isopropylbenzene	0.0011	U
71-43-2	Benzene	0.0011	U	1634-04-4	Methyl-t-butyl ether	0.0011	U

Worksheet #: 720292

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

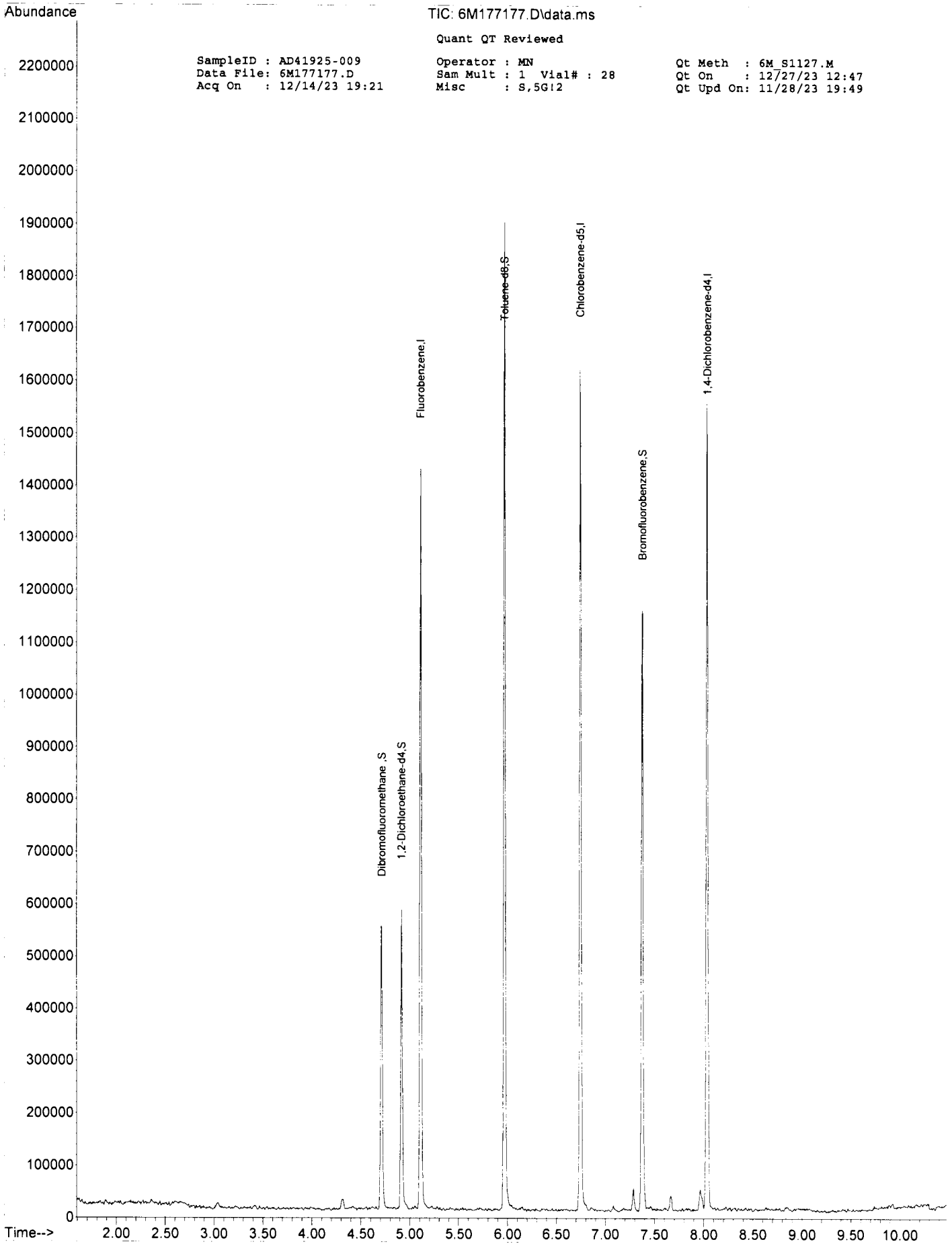
Quantitation Report (QT Reviewed)

SampleID : AD41925-009 Operator : MN Qt Meth : 6M_S1127.M
Data File: 6M177177.D Sam Mult : 1 Vial# : 28 Qt On : 12/27/23 12:47
Acq On : 12/14/23 19:21 Misc : S,5G!2 Qt Upd On: 11/28/23 19:49

Data Path : G:\GcMsData\2023\GCMS_6\Data\12-14-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.111	96	809760	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.745	117	637010	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.037	152	310261	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.715	111	198942	31.88	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.27%			
39) 1,2-Dichloroethane-d4	4.916	67	124863	32.10	ug/l	0.00
Spiked Amount 30.000			Recovery = 107.00%			
66) Toluene-d8	5.971	98	842847	28.62	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.40%			
76) Bromofluorobenzene	7.379	174	236232	31.01	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.37%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M177177.D\data.ms
Quant QT Reviewed
SampleID : AD41925-009
Data File: 6M177177.D
Acq On : 12/14/23 19:21
Operator : MN
Sam Mult : 1 Vial# : 28
Misc : S,5G!2
Qt Meth : 6M_S1127.M
Qt On : 12/27/23 12:47
Qt Upd On: 11/28/23 19:49
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD41925-010
Client Id: PESRM-T30-10-SS01
Data File: 6M177180.D
Analysis Date: 12/14/23 20:27
Date Rec/Extracted: 12/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5.7g
Final Vol: NA
Dilution: 0.877
Solids: 73

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	0.0012	U	100-41-4	Ethylbenzene	0.0012	U
108-67-8	1,3,5-Trimethylbenzene	0.0012	U	98-82-8	Isopropylbenzene	0.0012	U
71-43-2	Benzene	0.0012	U	1634-04-4	Methyl-t-butyl ether	0.0012	U

Worksheet #: 720292

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

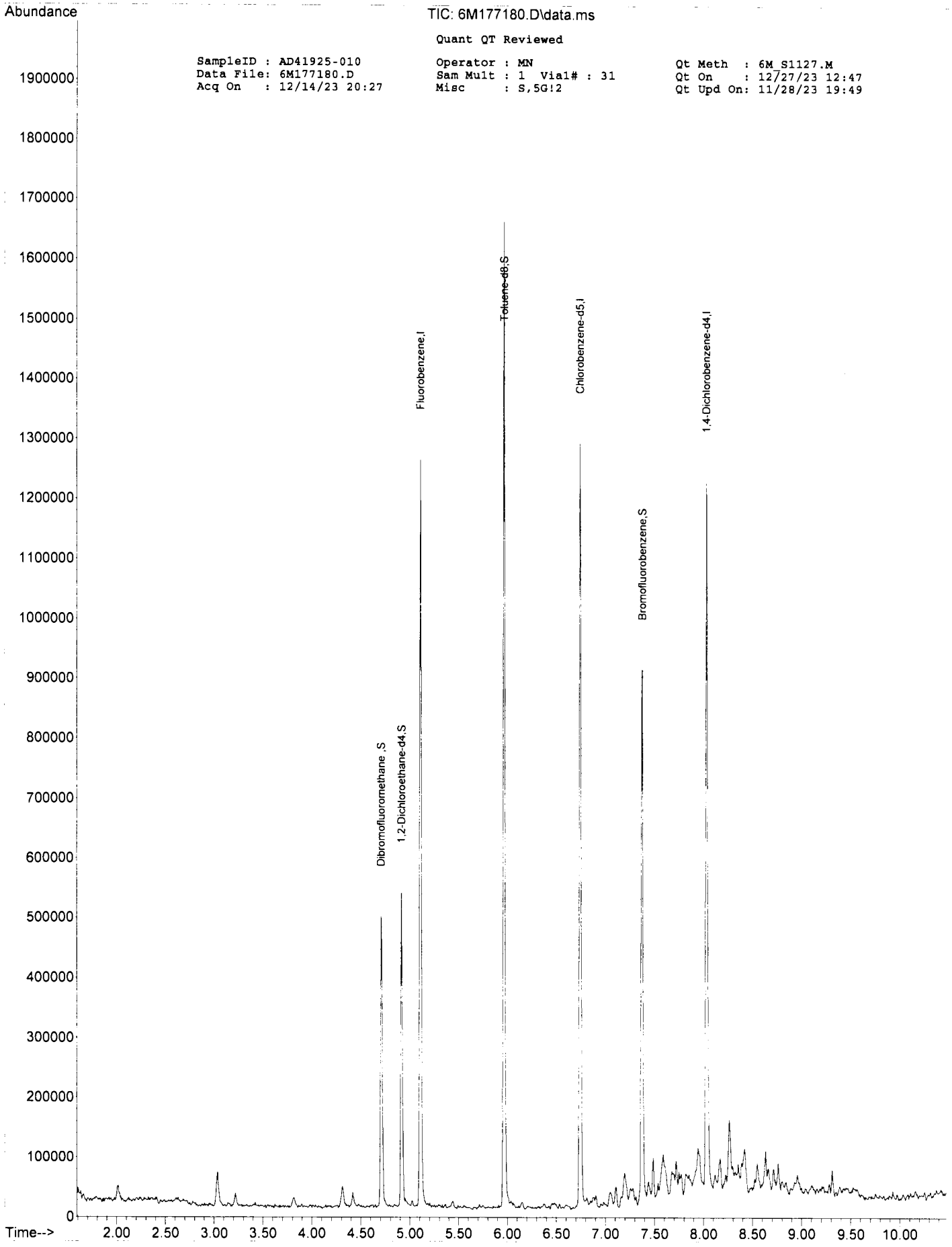
Quantitation Report (QT Reviewed)

SampleID : AD41925-010 Operator : MN Qt Meth : 6M_S1127.M
Data File: 6M177180.D Sam Mult : 1 Vial# : 31 Qt On : 12/27/23 12:47
Acq On : 12/14/23 20:27 Misc : S,5G!2 Qt Upd On: 11/28/23 19:49

Data Path : G:\GcMsData\2023\GCMS_6\Data\12-14-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.111	96	709268	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.745	117	516356	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.031	152	233198	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.709	111	178914	32.74	ug/l	0.00
Spiked Amount 30.000			Recovery = 109.13%			
39) 1,2-Dichloroethane-d4	4.916	67	115730	33.97	ug/l	0.00
Spiked Amount 30.000			Recovery = 113.23%			
66) Toluene-d8	5.971	98	735216	30.79	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.63%			
76) Bromofluorobenzene	7.379	174	185906	32.47	ug/l	0.00
Spiked Amount 30.000			Recovery = 108.23%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M177180.D\data.ms
Quant QT Reviewed
SampleID : AD41925-010
Data File: 6M177180.D
Acq On : 12/14/23 20:27
Operator : MN
Sam Mult : 1 Vial# : 31
Misc : S,5G!2
Qt Meth : 6M_S1127.M
Qt On : 12/27/23 12:47
Qt Upd On: 11/28/23 19:49
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD41925-011
Client Id: PESRM-T30-11-SS01
Data File: 11M118366.D
Analysis Date: 12/15/23 14:26
Date Rec/Extracted: 12/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Methanol
Extraction Ratio: 7.24g:10ml
Final Vol: NA
Dilution: 69.1
Solids: 77

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	0.090	U	**100-41-4**	**Ethylbenzene**	**0.090**	**1.4**
108-67-8	1,3,5-Trimethylbenzene	0.090	U	**98-82-8**	**Isopropylbenzene**	**0.090**	**0.12**
71-43-2	Benzene	0.045	U	1634-04-4	Methyl-t-butyl ether	0.078	U

Worksheet #: 720292 *Total Target Concentration* 1.5 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

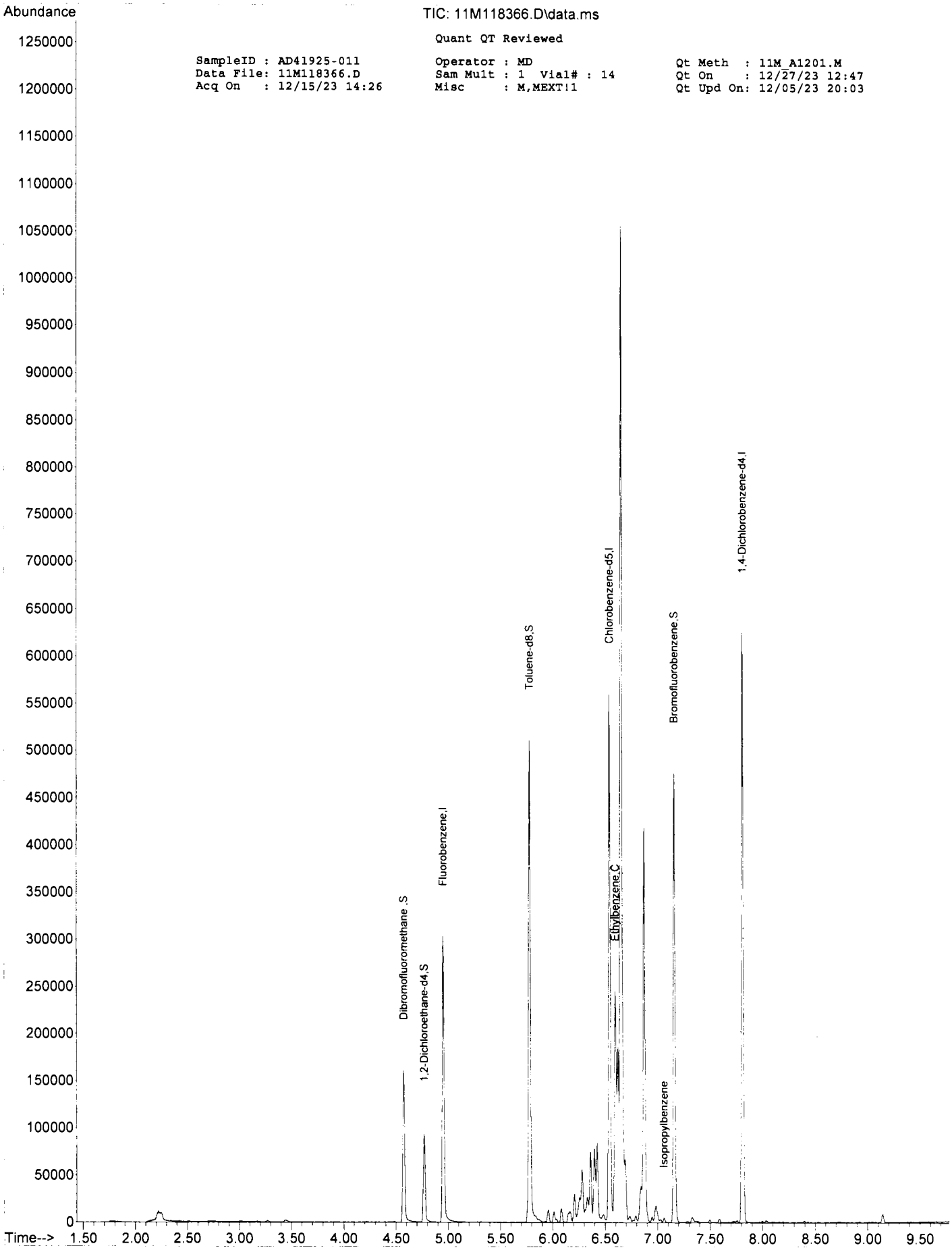
Quantitation Report (QT Reviewed)

SampleID : AD41925-011 Operator : MD Qt Meth : 11M_A1201.M
Data File: 11M118366.D Sam Mult : 1 Vial# : 14 Qt On : 12/27/23 12:47
Acq On : 12/15/23 14:26 Misc : M,MEXT!1 Qt Upd On: 12/05/23 20:03

Data Path : G:\GcMsData\2023\GCMS_11\Data\12-15-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.951	96	214784	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.543	117	273921	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.810	152	147986	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.575	111	67568	28.99	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.63%			
39) 1,2-Dichloroethane-d4	4.771	67	21343	28.30	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.33%			
66) Toluene-d8	5.781	98	257913	27.09	ug/l	0.00
Spiked Amount 30.000			Recovery = 90.30%			
76) Bromofluorobenzene	7.160	174	118052	27.52	ug/l	0.00
Spiked Amount 30.000			Recovery = 91.73%			
Target Compounds						Qvalue
74) Ethylbenzene	6.598	106	33512	16.0514	ug/l	78
84) Isopropylbenzene	7.061	105	2743	1.3060	ug/l	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 11M118366.D\data.ms
Quant QT Reviewed
SampleID : AD41925-011
Data File: 11M118366.D
Acq On : 12/15/23 14:26
Operator : MD
Sam Mult : 1 Vial# : 14
Misc : M,MEXT!1
Qt Meth : 11M_A1201.M
Qt On : 12/27/23 12:47
Qt Upd On: 12/05/23 20:03
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Ethylbenzene,C
Isopropylbenzene
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD41925-012
Client Id: PESRM-T30-DUP-01
Data File: 6M177178.D
Analysis Date: 12/14/23 19:43
Date Rec/Extracted: 12/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 8.66g
Final Vol: NA
Dilution: 0.577
Solids: 74

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	0.00078	U	100-41-4	Ethylbenzene	0.00078	U
108-67-8	1,3,5-Trimethylbenzene	0.00078	U	98-82-8	Isopropylbenzene	0.00078	U
71-43-2	Benzene	0.00078	U	1634-04-4	Methyl-t-butyl ether	0.00078	U

Worksheet #: 720292

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

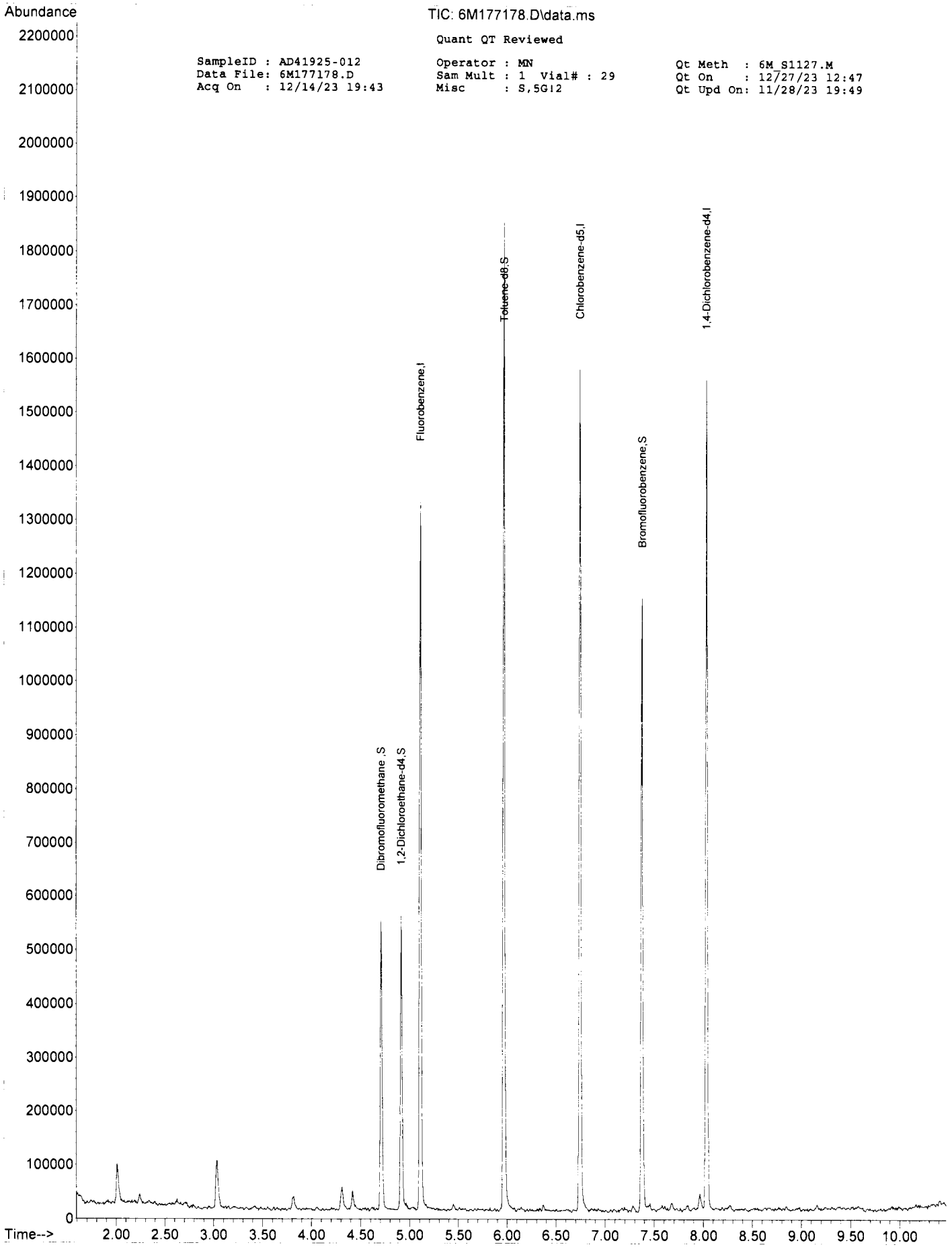
Quantitation Report (QT Reviewed)

SampleID : AD41925-012 Operator : MN Qt Meth : 6M_S1127.M
Data File: 6M177178.D Sam Mult : 1 Vial# : 29 Qt On : 12/27/23 12:47
Acq On : 12/14/23 19:43 Misc : S,5G!2 Qt Upd On: 11/28/23 19:49

Data Path : G:\GcMsData\2023\GCMS_6\Data\12-14-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.111	96	798873	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.745	117	625284	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.031	152	302666	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.708	111	198216	32.20	ug/l	0.00
Spiked Amount 30.000			Recovery = 107.33%			
39) 1,2-Dichloroethane-d4	4.916	67	122778	32.00	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.67%			
66) Toluene-d8	5.970	98	829658	28.70	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.67%			
76) Bromofluorobenzene	7.379	174	230359	31.00	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.33%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M177178.D\data.ms
Quant QT Reviewed
SampleID : AD41925-012
Data File: 6M177178.D
Acq On : 12/14/23 19:43
Operator : MN
Sam Mult : 1 Vial# : 29
Misc : S,5G12
Qt Meth : 6M_S1127.M
Qt On : 12/27/23 12:47
Qt Upd On: 11/28/23 19:49
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD41925-013
Client Id: PESRM-T30-GW-01
Data File: 2M193996.D
Analysis Date: 12/16/23 19:10
Date Rec/Extracted: 12/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	98-82-8	Isopropylbenzene	1.0	U
71-43-2	Benzene	0.50	U	1634-04-4	Methyl-t-butyl ether	0.87	U

Worksheet #: 720292

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

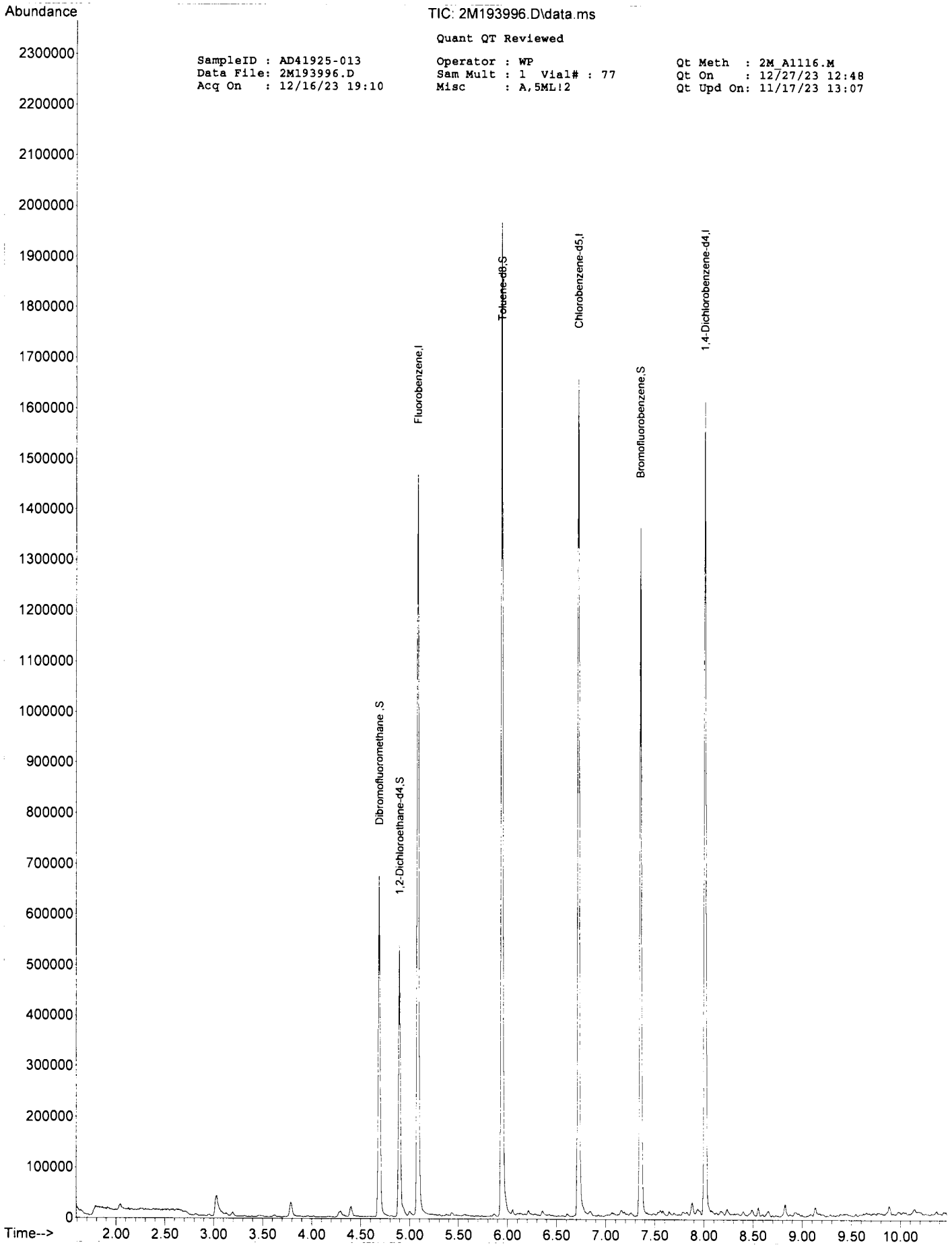
Quantitation Report (QT Reviewed)

SampleID : AD41925-013 Operator : WP Qt Meth : 2M_A1116.M
Data File: 2M193996.D Sam Mult : 1 Vial# : 77 Qt On : 12/27/23 12:48
Acq On : 12/16/23 19:10 Misc : A,5ML!2 Qt Upd On: 11/17/23 13:07

Data Path : G:\GcMsData\2023\GCMS_2\Data\12-16-23\
Qt Path : G:\GcMsData\2023\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.086	96	940246	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.726	117	753374	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.013	152	351538	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.690	111	270538	28.16	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.87%			
39) 1,2-Dichloroethane-d4	4.897	67	129984	29.55	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.50%			
66) Toluene-d8	5.946	98	958018	32.65	ug/l	0.00
Spiked Amount 30.000			Recovery = 108.83%			
76) Bromofluorobenzene	7.354	174	333017	32.43	ug/l	0.00
Spiked Amount 30.000			Recovery = 108.10%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M193996.D\data.ms
Quant QT Reviewed
SampleID : AD41925-013
Data File: 2M193996.D
Acq On : 12/16/23 19:10
Operator : WP
Sam Mult : 1 Vial# : 77
Misc : A,5ML!2
Qt Meth : 2M_A1116.M
Qt On : 12/27/23 12:48
Qt Upd On: 11/17/23 13:07
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD41925-014
Client Id: PESRM-T30-EQUIP-01
Data File: 1M181789.D
Analysis Date: 12/16/23 00:40
Date Rec/Extracted: 12/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	98-82-8	Isopropylbenzene	1.0	U
71-43-2	Benzene	0.50	U	1634-04-4	Methyl-t-butyl ether	0.87	U

Worksheet #: 720292

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

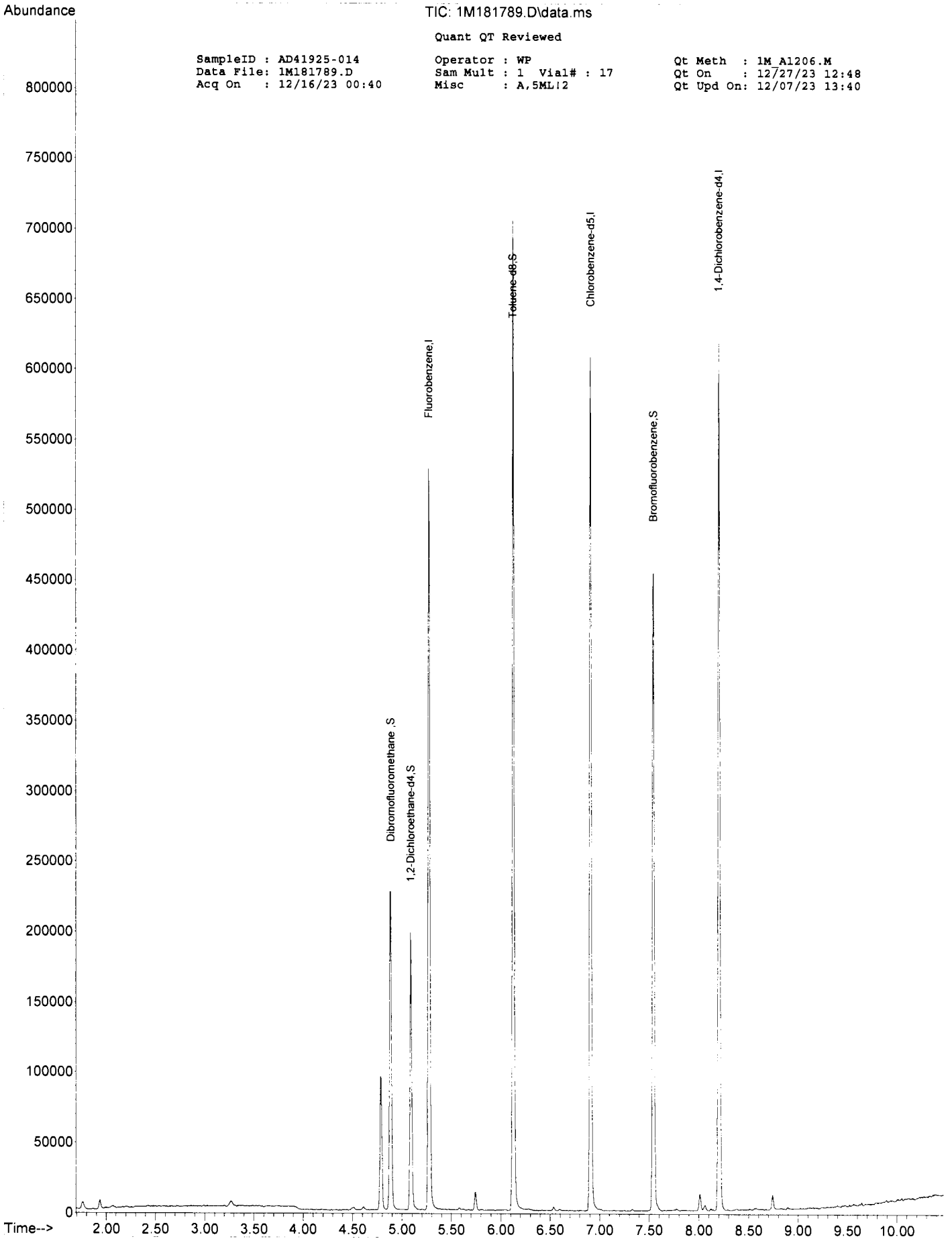
Quantitation Report (QT Reviewed)

SampleID : AD41925-014 Operator : WP Qt Meth : 1M_A1206.M
Data File: 1M181789.D Sam Mult : 1 Vial# : 17 Qt On : 12/27/23 12:48
Acq On : 12/16/23 00:40 Misc : A,5ML!2 Qt Upd On: 12/07/23 13:40

Data Path : G:\GcMsData\2023\GCMS_1\Data\12-15-23\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.272	96	331783	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.912	117	262523	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.204	152	131001	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.888	111	95356	32.24	ug/l	0.00
Spiked Amount 30.000			Recovery = 107.47%			
39) 1,2-Dichloroethane-d4	5.089	67	46808	31.88	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.27%			
66) Toluene-d8	6.125	98	330537	29.01	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.70%			
76) Bromofluorobenzene	7.546	174	107948	32.99	ug/l	0.00
Spiked Amount 30.000			Recovery = 109.97%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 1M181789.D\data.ms
Quant QT Reviewed
SampleID : AD41925-014
Data File: 1M181789.D
Acq On : 12/16/23 00:40
Operator : WP
Sam Mult : 1 Vial# : 17
Misc : A,5ML!2
Qt Meth : 1M_A1206.M
Qt On : 12/27/23 12:48
Qt Upd On: 12/07/23 13:40
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD41925-015
Client Id: TB01-20231213
Data File: 1M181788.D
Analysis Date: 12/16/23 00:19
Date Rec/Extracted: 12/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	98-82-8	Isopropylbenzene	1.0	U
71-43-2	Benzene	0.50	U	1634-04-4	Methyl-t-butyl ether	0.87	U

Worksheet #: 720292

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

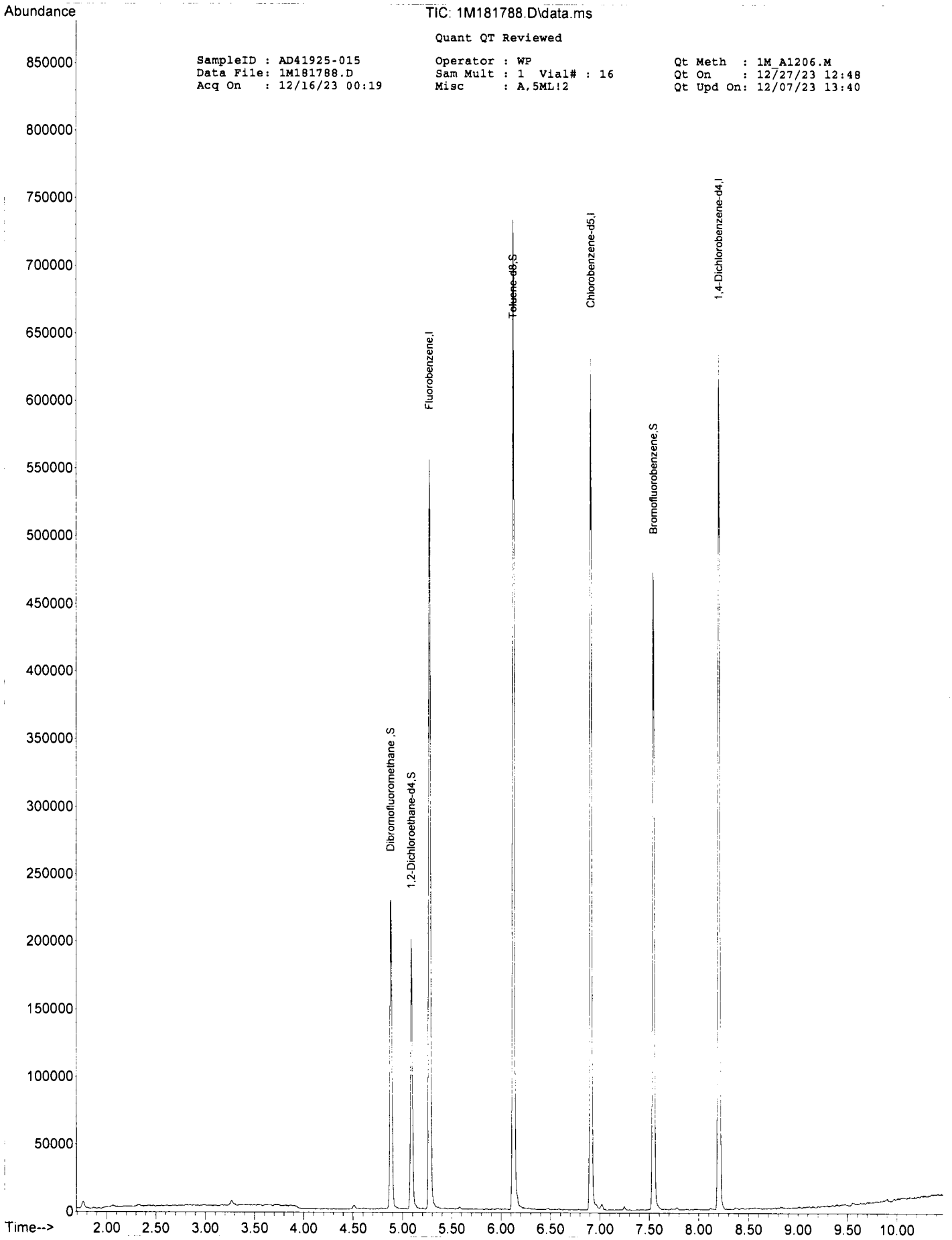
Quantitation Report (QT Reviewed)

SampleID : AD41925-015 Operator : WP Qt Meth : 1M_A1206.M
Data File: 1M181788.D Sam Mult : 1 Vial# : 16 Qt On : 12/27/23 12:48
Acq On : 12/16/23 00:19 Misc : A,5ML!2 Qt Upd On: 12/07/23 13:40

Data Path : G:\GcMsData\2023\GCMS_1\Data\12-15-23\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.272	96	350836	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.912	117	266449	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.204	152	134542	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.882	111	96705	30.92	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.07%			
39) 1,2-Dichloroethane-d4	5.089	67	47786	30.78	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.60%			
66) Toluene-d8	6.125	98	351546	30.40	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.33%			
76) Bromofluorobenzene	7.546	174	112184	33.38	ug/l	0.00
Spiked Amount 30.000			Recovery = 111.27%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 1M181788.D\data.ms
Quant QT Reviewed
SampleID : AD41925-015
Data File: 1M181788.D
Acq On : 12/16/23 00:19
Operator : WP
Sam Mult : 1 Vial# : 16
Misc : A,5ML!2
Qt Meth : 1M_A1206.M
Qt On : 12/27/23 12:48
Qt Upd On: 12/07/23 13:40
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 11M118361.D
Analysis Date: 12/15/23 12:45
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Methanol
Extraction Ratio: 5g:10ml
Final Vol: NA
Dilution: 100
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	0.10	U	100-41-4	Ethylbenzene	0.10	U
108-67-8	1,3,5-Trimethylbenzene	0.10	U	98-82-8	Isopropylbenzene	0.10	U
71-43-2	Benzene	0.050	U	1634-04-4	Methyl-t-butyl ether	0.087	U

Worksheet #: 720292

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

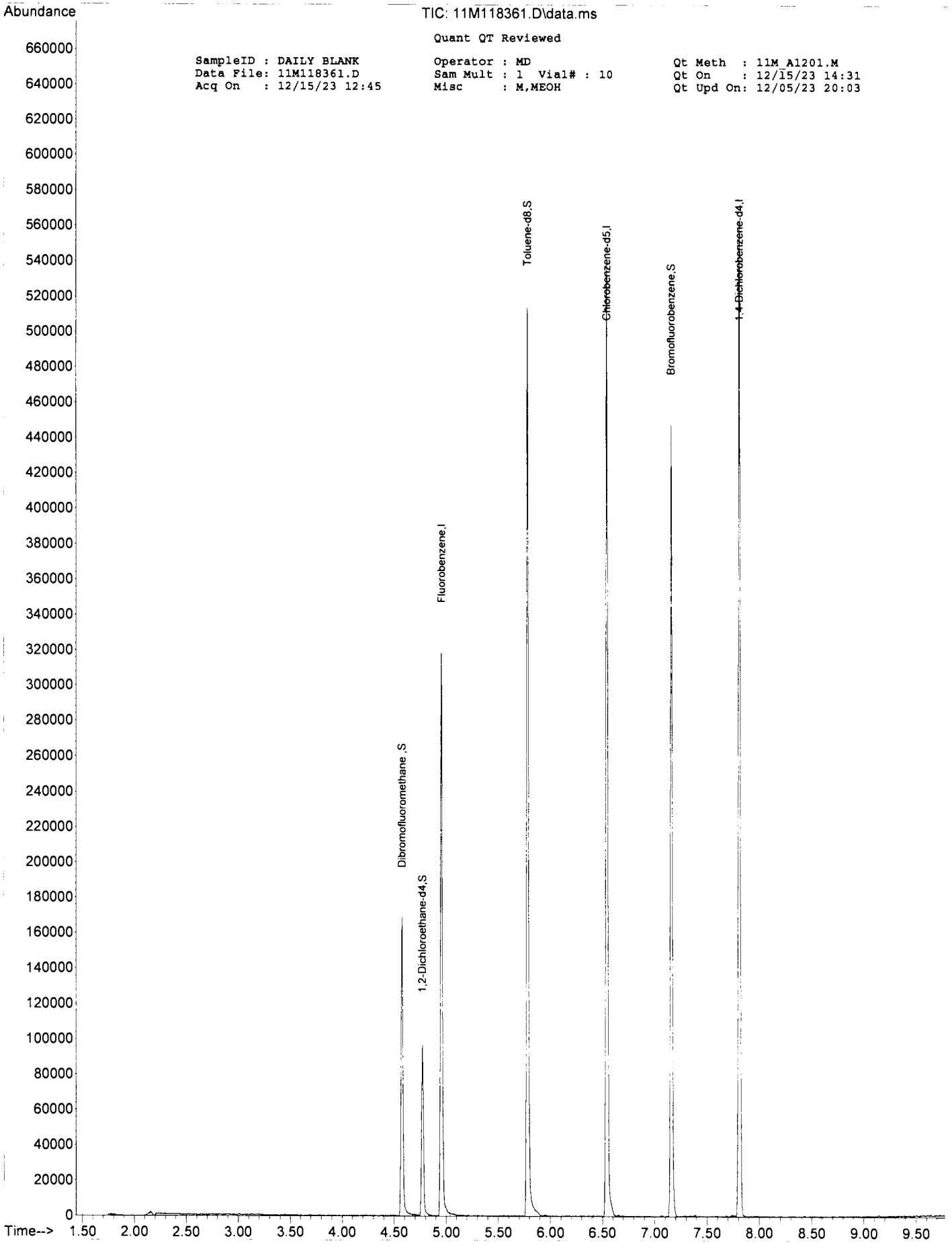
Quantitation Report (QT Reviewed)

SampleID : DAILY BLANK Operator : MD Qt Meth : 11M_A1201.M
Data File: 11M118361.D Sam Mult : 1 Vial# : 10 Qt On : 12/15/23 14:31
Acq On : 12/15/23 12:45 Misc : M,MEOH Qt Upd On: 12/05/23 20:03

Data Path : G:\GcMsData\2023\GCMS_11\Data\12-15-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.955	96	219234	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.543	117	265747	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.810	152	133560	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.575	111	70238	29.52	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.40%			
39) 1,2-Dichloroethane-d4	4.771	67	22677	29.46	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.20%			
66) Toluene-d8	5.784	98	256610	27.78	ug/l	0.00
Spiked Amount 30.000			Recovery = 92.60%			
76) Bromofluorobenzene	7.160	174	112487	29.06	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.87%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 11M118361.D\data.ms
Quant QT Reviewed
SampleID : DAILY BLANK
Data File: 11M118361.D
Acq On : 12/15/23 12:45
Operator : MD
Sam Mult : 1 Vial# : 10
Misc : M,MEOH
Qt Meth : 11M_A1201.M
Qt On : 12/15/23 14:31
Qt Upd On: 12/05/23 20:03
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 1M181776.D
Analysis Date: 12/15/23 20:02
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	98-82-8	Isopropylbenzene	1.0	U
71-43-2	Benzene	0.50	U	1634-04-4	Methyl-t-butyl ether	0.87	U

Worksheet #: 720292

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

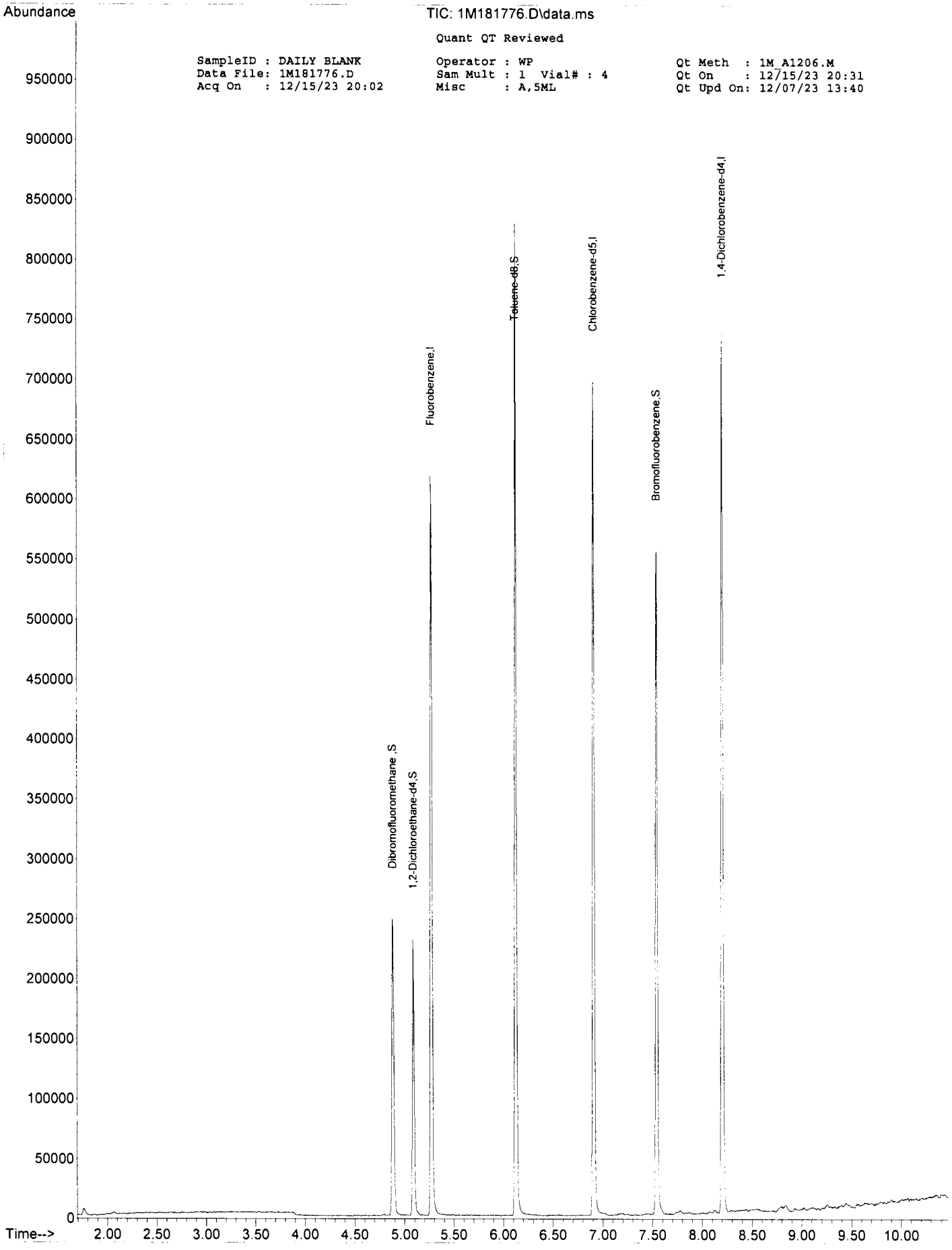
Quantitation Report (QT Reviewed)

SampleID : DAILY BLANK Operator : WP Qt Meth : 1M_A1206.M
Data File: 1M181776.D Sam Mult : 1 Vial# : 4 Qt On : 12/15/23 20:31
Acq On : 12/15/23 20:02 Misc : A,5ML Qt Upd On: 12/07/23 13:40

Data Path : G:\GcMsData\2023\GCMS_1\Data\12-15-23\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.272	96	386801	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.912	117	305463	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.204	152	161602	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.882	111	105461	30.59	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.97%			
39) 1,2-Dichloroethane-d4	5.089	67	55116	32.20	ug/l	0.00
Spiked Amount 30.000			Recovery = 107.33%			
66) Toluene-d8	6.125	98	386683	29.17	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.23%			
76) Bromofluorobenzene	7.546	174	131068	32.47	ug/l	0.00
Spiked Amount 30.000			Recovery = 108.23%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 1M181776.D\data.ms
Quant QT Reviewed
SampleID : DAILY BLANK
Data File: 1M181776.D
Acq On : 12/15/23 20:02
Operator : WP
Sam Mult : 1 Vial# : 4
Misc : A,5ML
Qt Meth : 1M_A1206.M
Qt On : 12/15/23 20:31
Qt Upd On: 12/07/23 13:40
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 2M193970.D
Analysis Date: 12/16/23 10:31
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	98-82-8	Isopropylbenzene	1.0	U
71-43-2	Benzene	0.50	U	1634-04-4	Methyl-t-butyl ether	0.87	U

Worksheet #: 720292

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

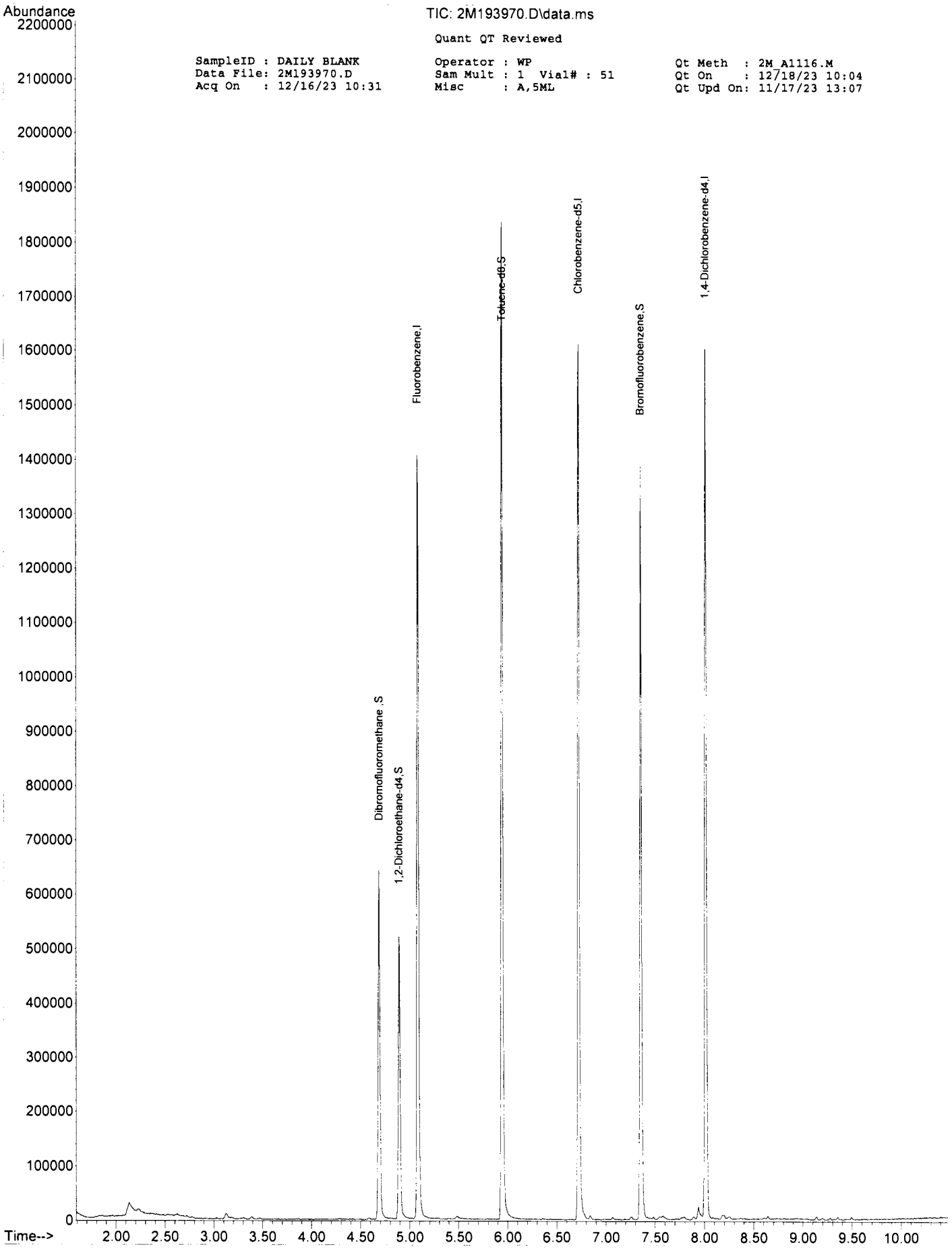
Quantitation Report (QT Reviewed)

SampleID : DAILY BLANK Operator : WP Qt Meth : 2M_A1116.M
Data File: 2M193970.D Sam Mult : 1 Vial# : 51 Qt On : 12/18/23 10:04
Acq On : 12/16/23 10:31 Misc : A,5ML Qt Upd On: 11/17/23 13:07

Data Path : G:\GcMsData\2023\GCMS_2\Data\12-16-23\
Qt Path : G:\GcMsData\2023\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.080	96	909632	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.727	117	740631	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.013	152	354589	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.690	111	257691	27.73	ug/l	0.00
Spiked Amount 30.000			Recovery = 92.43%			
39) 1,2-Dichloroethane-d4	4.891	67	128973	30.31	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.03%			
66) Toluene-d8	5.946	98	929630	32.23	ug/l	0.00
Spiked Amount 30.000			Recovery = 107.43%			
76) Bromofluorobenzene	7.354	174	318405	30.74	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.47%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M193970.D\data.ms
Quant QT Reviewed
SampleID : DAILY BLANK
Data File: 2M193970.D
Acq On : 12/16/23 10:31
Operator : WP
Sam Mult : 1 Vial# : 51
Misc : A,5ML
Qt Meth : 2M_A1116.M
Qt On : 12/18/23 10:04
Qt Upd On: 11/17/23 13:07
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 6M177157.D
Analysis Date: 12/14/23 12:04
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5g
Final Vol: NA
Dilution: 1.00
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	0.0010	U	100-41-4	Ethylbenzene	0.0010	U
108-67-8	1,3,5-Trimethylbenzene	0.0010	U	98-82-8	Isopropylbenzene	0.0010	U
71-43-2	Benzene	0.0010	U	1634-04-4	Methyl-t-butyl ether	0.0010	U

Worksheet #: 720292

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

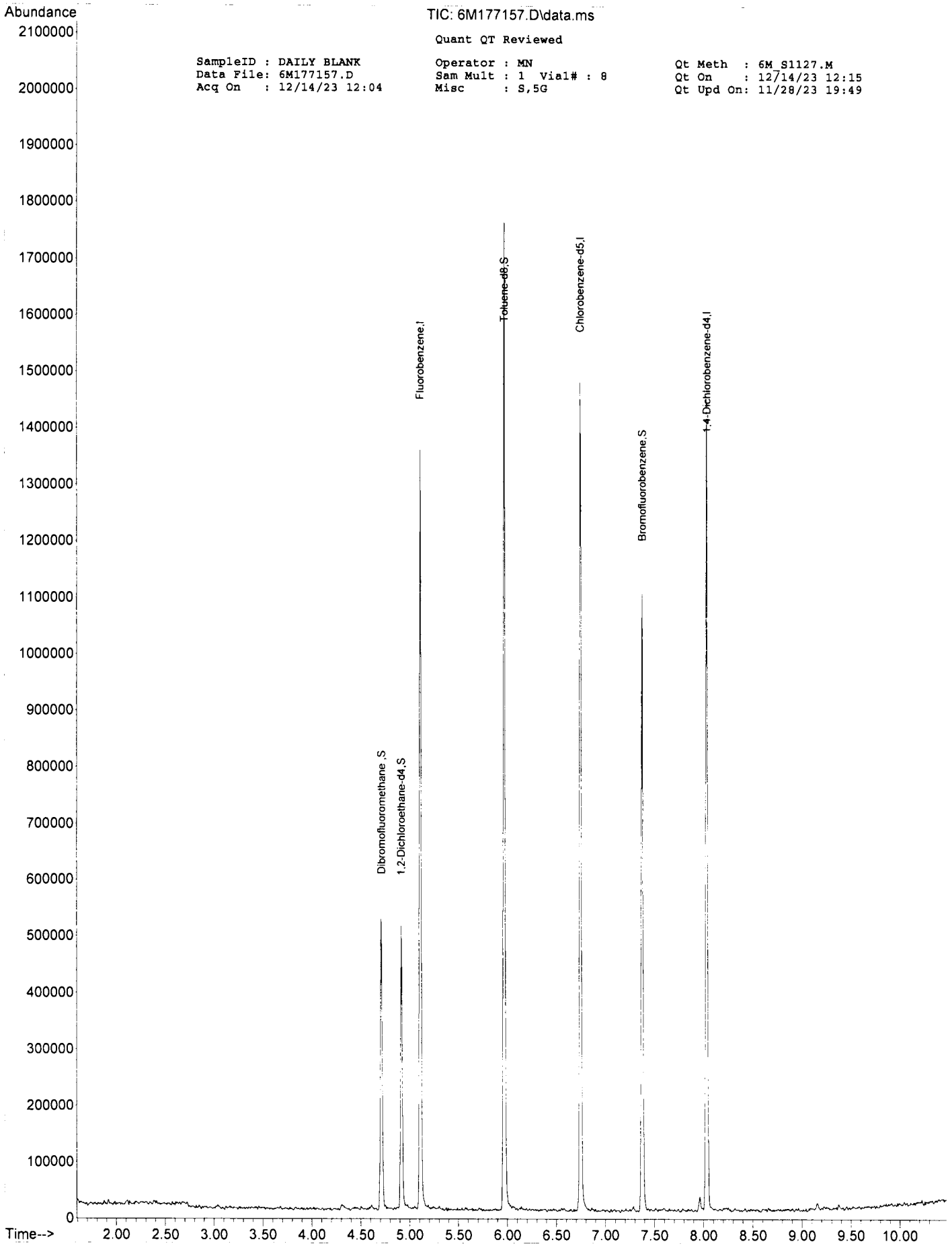
Quantitation Report (QT Reviewed)

SampleID : DAILY BLANK Operator : MN Qt Meth : 6M_S1127.M
Data File: 6M177157.D Sam Mult : 1 Vial# : 8 Qt On : 12/14/23 12:15
Acq On : 12/14/23 12:04 Misc : S,5G Qt Upd On: 11/28/23 19:49

Data Path : G:\GcMsData\2023\GCMS_6\Data\12-14-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.111	96	766023	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.745	117	593611	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.037	152	287441	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.715	111	188679	31.96	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.53%			
39) 1,2-Dichloroethane-d4	4.916	67	115616	31.42	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.73%			
66) Toluene-d8	5.971	98	793566	28.91	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.37%			
76) Bromofluorobenzene	7.379	174	219957	31.17	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.90%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M177157.D\data.ms
Quant QT Reviewed
SampleID : DAILY BLANK
Data File: 6M177157.D
Acq On : 12/14/23 12:04
Operator : MN
Sam Mult : 1 Vial# : 8
Misc : S,5G
Qt Meth : 6M_S1127.M
Qt On : 12/14/23 12:15
Qt Upd On: 11/28/23 19:49
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

FORM2

Surrogate Recovery

Method: EPA 8260D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
1M118361.D	DAILY BLANK	M	12/15/23 12:45	1		98	98	93	97		
1M181776.D	DAILY BLANK	A	12/15/23 20:02	1		102	107	97	108		
2M193970.D	DAILY BLANK	A	12/16/23 10:31	1		92	101	107	102		
6M177157.D	DAILY BLANK	S	12/14/23 12:04	1		107	105	96	104		
6M177179.D	AD41925-001	S	12/14/23 20:05	1		106	106	96	105		
6M177171.D	AD41925-002	S	12/14/23 17:10	1		107	109	96	104		
6M177172.D	AD41925-003	S	12/14/23 17:32	1		108	112	94	104		
1M118365.D	AD41925-004	M	12/15/23 14:06	1		96	98	88	93		
6M177173.D	AD41925-005	S	12/14/23 17:54	1		108	109	95	102		
6M177174.D	AD41925-006	S	12/14/23 18:16	1		108	113	93	98		
6M177175.D	AD41925-007	S	12/14/23 18:38	1		107	109	92	105		
6M177176.D	AD41925-008	S	12/14/23 18:59	1		105	109	97	100		
6M177177.D	AD41925-009	S	12/14/23 19:21	1		106	107	95	103		
6M177180.D	AD41925-010	S	12/14/23 20:27	1		109	113	103	108		
1M118366.D	AD41925-011	M	12/15/23 14:26	1		97	94	90	92		
6M177178.D	AD41925-012	S	12/14/23 19:43	1		107	107	96	103		
2M193996.D	AD41925-013	A	12/16/23 19:10	1		94	99	109	108		
1M181789.D	AD41925-014	A	12/16/23 00:40	1		107	106	97	110		
1M181788.D	AD41925-015	A	12/16/23 00:19	1		103	103	101	111		
1M118367.D	AD41925-010(MS)	M	12/15/23 14:45	1		100	95	90	92		
1M118369.D	MBS113993	M	12/15/23 15:25	1		97	98	93	96		
1M118370.D	AD41925-010(MSD)	M	12/15/23 15:45	1		99	96	92	92		
1M118373.D	AD41925-010	M	12/15/23 16:45	1		96	96	89	92		
1M181777.D	AD41932-003	A	12/15/23 20:23	1		102	106	97	110		
1M181781.D	MBS114002	A	12/15/23 21:49	1		103	102	101	110		
1M181783.D	AD41932-003(MS)	A	12/15/23 22:32	1		103	100	100	112		
1M181784.D	AD41932-003(MSD)	A	12/15/23 22:53	1		103	104	98	110		
2M193976.D	MBS113997	A	12/16/23 12:31	1		93	99	110	103		
2M193978.D	AD41813-006(50X)(T:M	A	12/16/23 13:11	1		93	100	109	105		
2M193979.D	AD41813-006(50X)(T:M	A	12/16/23 13:31	1		93	98	107	86		
2M193981.D	AD41813-006(50X)(T)	A	12/16/23 14:11	1		94	101	109	100		
6M177162.D	AD41861-005(MS)	S	12/14/23 13:53	1		110	111	95	104		
6M177163.D	AD41861-005(MSD)	S	12/14/23 14:15	1		103	105	95	100		
6M177164.D	MBS113983	S	12/14/23 14:37	1		105	101	96	102		
6M177166.D	AD41861-005	S	12/14/23 15:21	1		106	100	96	103		

Flags: SD=Surrogate diluted out

*=Surrogate out

Method: EPA 8260D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	48-156
S2=1,2-Dichloroethane-d4	30	56-154
S3=Toluene-d8	30	48-145
S4=Bromofluorobenzene	30	46-151

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	82-120
S2=1,2-Dichloroethane-d4	30	81-123
S3=Toluene-d8	30	75-121
S4=Bromofluorobenzene	30	77-125

Form3
Recovery Data Laboratory Limits
QC Batch: MBS113983

Data File	Sample ID:	Analysis Date
Spike or Dup: 6M177164.D	MBS113983	12/14/2023 2:37:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	51.2202	0	50	102	10	168
Dichlorodifluoromethane	1	50.3608	0	50	101	10	150
Chloromethane	1	44.4326	0	50	89	12	150
Bromomethane	1	42.3826	0	50	85	23	136
Vinyl Chloride	1	47.4659	0	50	95	21	153
Chloroethane	1	43.8872	0	50	88	33	147
Trichlorofluoromethane	1	48.0264	0	50	96	29	156
Ethyl ether	1	44.9623	0	50	90	10	141
Furan	1	49.5661	0	50	99	22	152
1,1,2-Trichloro-1,2,2-trifluoroethane	1	53.0654	0	50	106	32	149
Methylene Chloride	1	48.8076	0	50	98	35	147
Acrolein	1	227.0344	0	200	114	10	149
Acrylonitrile	1	40.7213	0	50	81	20	130
Iodomethane	1	50.0458	0	50	100	10	152
Acetone	1	212.6097	0	200	106	22	222
Carbon Disulfide	1	44.5987	0	50	89	18	135
t-Butyl Alcohol	1	237.9399	0	200	119	38	178
n-Hexane	1	52.6301	0	50	105	11	154
Di-isopropyl-ether	1	49.4984	0	50	99	38	150
1,1-Dichloroethene	1	50.1141	0	50	100	31	165
Methyl Acetate	1	50.3999	0	50	101	10	237
Methyl-t-butyl ether	**1**	**45.1861**	**0**	**50**	**90**	**40**	**151**
1,1-Dichloroethane	1	50.116	0	50	100	41	149
trans-1,2-Dichloroethene	1	49.5064	0	50	99	33	150
Ethyl-t-butyl ether	1	45.7893	0	50	92	22	184
cis-1,2-Dichloroethene	1	46.3302	0	50	93	33	146
Bromochloromethane	1	44.1991	0	50	88	38	143
2,2-Dichloropropane	1	50.1714	0	50	100	38	161
Ethyl acetate	1	42.3337	0	50	85	10	130
1,4-Dioxane	1	2031.602	0	2500	81	35	151
1,1-Dichloropropene	1	49.0937	0	50	98	34	149
Chloroform	1	45.7268	0	50	91	41	145
Cyclohexane	1	49.0297	0	50	98	25	148
1,2-Dichloroethane	1	42.3274	0	50	85	37	143
2-Butanone	1	41.1059	0	50	82	21	163
1,1,1-Trichloroethane	1	52.443	0	50	105	38	149
Carbon Tetrachloride	1	48.5528	0	50	97	33	150
Vinyl Acetate	1	48.2232	0	50	96	10	112
Bromodichloromethane	1	45.2745	0	50	91	36	146
Methylcyclohexane	1	48.2829	0	50	97	15	147
Dibromomethane	1	44.3136	0	50	89	32	144
1,2-Dichloropropane	1	46.2218	0	50	92	40	144
Trichloroethene	1	47.306	0	50	95	24	161
Benzene	**1**	**46.4443**	**0**	**50**	**93**	**38**	**146**
tert-Amyl methyl ether	1	45.9519	0	50	92	10	240
Iso-propylacetate	1	40.005	0	50	80	10	139
Methyl methacrylate	1	41.2775	0	50	83	10	224
Dibromochloromethane	1	44.4055	0	50	89	32	140
2-Chloroethylvinylether	1	55.1479	0	50	110	10	266
cis-1,3-Dichloropropene	1	43.6057	0	50	87	27	139
trans-1,3-Dichloropropene	1	45.6129	0	50	91	22	141
Ethyl methacrylate	1	40.4776	0	50	81	16	151
1,1,2-Trichloroethane	1	40.7891	0	50	82	32	138
1,2-Dibromoethane	1	38.4759	0	50	77	30	135
1,3-Dichloropropane	1	42.5739	0	50	85	36	136
4-Methyl-2-Pentanone	1	43.3527	0	50	87	23	137
2-Hexanone	1	41.0056	0	50	82	10	149
Tetrachloroethene	1	44.8679	0	50	90	24	140
Toluene	**1**	**44.2724**	**0**	**50**	**89**	**31**	**139**
1,1,1,2-Tetrachloroethane	1	41.3384	0	50	83	31	134
Chlorobenzene	1	43.8767	0	50	88	24	134

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS113983

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	41.4586	0	50	83	10	140
n-Amyl acetate	1	41.5869	0	50	83	10	138
Bromoform	1	39.6788	0	50	79	21	137
Ethylbenzene	**1**	**43.0312**	**0**	**50**	**86**	**29**	**137**
1,1,2,2-Tetrachloroethane	1	37.6589	0	50	75	18	136
Styrene	1	44.7354	0	50	89	14	141
m&p-Xylenes	1	87.1562	0	100	87	18	152
o-Xylene	1	43.2995	0	50	87	21	146
trans-1,4-Dichloro-2-butene	1	39.621	0	50	79	11	139
1,3-Dichlorobenzene	1	43.9573	0	50	88	10	134
1,4-Dichlorobenzene	1	42.3669	0	50	85	10	132
1,2-Dichlorobenzene	1	42.4619	0	50	85	10	129
Isopropylbenzene	**1**	**44.6744**	**0**	**50**	**89**	**14**	**150**
Cyclohexanone	1	192.388	0	250	77	10	344
Camphene	1	45.3816	0	50	91	10	137
1,2,3-Trichloropropane	1	39.634	0	50	79	20	133
2-Chlorotoluene	1	47.7071	0	50	95	13	140
p-Ethyltoluene	1	44.615	0	50	89	10	138
4-Chlorotoluene	1	44.905	0	50	90	10	138
n-Propylbenzene	1	46.4513	0	50	93	10	145
Bromobenzene	1	41.8225	0	50	84	14	132
1,3,5-Trimethylbenzene	**1**	**43.4848**	**0**	**50**	**87**	**12**	**146**
Butyl methacrylate	1	42.162	0	50	84	10	154
t-Butylbenzene	1	44.6316	0	50	89	10	142
1,2,4-Trimethylbenzene	**1**	**44.8934**	**0**	**50**	**90**	**10**	**147**
sec-Butylbenzene	1	45.7608	0	50	92	10	146
4-Isopropyltoluene	1	42.7405	0	50	85	10	128
n-Butylbenzene	1	45.4433	0	50	91	10	146
p-Diethylbenzene	1	42.7471	0	50	85	10	142
1,2,4,5-Tetramethylbenzene	1	41.9076	0	50	84	10	130
1,2-Dibromo-3-Chloropropane	1	38.4086	0	50	77	16	126
Camphor	1	414.7337	0	200	207*	20	150
Hexachlorobutadiene	1	42.1367	0	50	84	10	123
1,2,4-Trichlorobenzene	1	41.3914	0	50	83	10	128
1,2,3-Trichlorobenzene	1	44.266	0	50	89	10	123
Naphthalene	1	40.9758	0	50	82	10	140

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS113983

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M177162.D	AD41861-005(MS)	12/14/2023 1:53:00 PM
Non Spike(If applicable):	6M177166.D	AD41861-005	12/14/2023 3:21:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	34.0166	0	50	68	10	168
Dichlorodifluoromethane	1	24.319	0	50	49	10	150
Chloromethane	1	22.0856	0	50	44	12	150
Bromomethane	1	29.4005	0	50	59	23	136
Vinyl Chloride	1	25.847	0	50	52	21	153
Chloroethane	1	28.293	0	50	57	33	147
Trichlorofluoromethane	1	40.2123	0	50	80	29	156
Ethyl ether	1	26.7962	0	50	54	10	141
Furan	1	31.7584	0	50	64	22	152
1,1,2-Trichloro-1,2,2-trifluoroethane	1	32.0448	0	50	64	32	149
Methylene Chloride	1	32.0413	0	50	64	35	147
Acrolein	1	34.9159	0	200	17	10	149
Acrylonitrile	1	24.9636	0	50	50	20	130
Iodomethane	1	26.9781	0	50	54	10	152
Acetone	1	180.587	0	200	90	22	222
Carbon Disulfide	1	25.0348	0	50	50	18	135
t-Butyl Alcohol	1	178.0106	0	200	89	38	178
n-Hexane	1	22.4413	0	50	45	11	154
Di-isopropyl-ether	1	31.6216	0	50	63	38	150
1,1-Dichloroethene	1	30.5472	0	50	61	31	165
Methyl Acetate	1	55.5455	0	50	111	10	237
Methyl-t-butyl ether	**1**	**33.0177**	**0**	**50**	**66**	**40**	**151**
1,1-Dichloroethane	1	36.541	0	50	73	41	149
trans-1,2-Dichloroethene	1	29.9984	0	50	60	33	150
Ethyl-t-butyl ether	1	29.9964	0	50	60	22	184
cis-1,2-Dichloroethene	1	28.3704	0	50	57	33	146
Bromochloromethane	1	30.546	0	50	61	38	143
2,2-Dichloropropane	1	35.6242	0	50	71	38	161
Ethyl acetate	1	8.4522	0	50	17	10	130
1,4-Dioxane	1	1678.826	0	2500	67	35	151
1,1-Dichloropropene	1	32.0189	0	50	64	34	149
Chloroform	1	32.1184	0	50	64	41	145
Cyclohexane	1	27.229	0	50	54	25	148
1,2-Dichloroethane	1	31.6603	0	50	63	37	143
2-Butanone	1	30.7192	0	50	61	21	163
1,1,1-Trichloroethane	1	38.6614	0	50	77	38	149
Carbon Tetrachloride	1	33.5509	0	50	67	33	150
Vinyl Acetate	1	14.6237	0	50	29	10	112
Bromodichloromethane	1	32.7433	0	50	65	36	146
Methylcyclohexane	1	22.8982	0	50	46	15	147
Dibromomethane	1	32.7261	0	50	65	32	142
1,2-Dichloropropane	1	29.7283	0	50	59	40	144
Trichloroethene	1	32.4991	0	50	65	24	161
Benzene	**1**	**30.95**	**0**	**50**	**62**	**38**	**146**
tert-Amyl methyl ether	1	33.7405	0	50	67	10	240
Iso-propylacetate	1	13.0868	0	50	26	10	139
Methyl methacrylate	1	41.3601	0	50	83	10	224
Dibromochloromethane	1	27.1692	0	50	54	32	140
2-Chloroethylvinylether	1	38.6186	0	50	77	10	266
cis-1,3-Dichloropropene	1	27.122	0	50	54	27	139
trans-1,3-Dichloropropene	1	27.0851	0	50	54	22	141
Ethyl methacrylate	1	12.1745	0	50	24	16	151
1,1,2-Trichloroethane	1	27.8653	0	50	56	32	138
1,2-Dibromoethane	1	26.3363	0	50	53	30	135
1,3-Dichloropropane	1	27.6356	0	50	55	36	136
4-Methyl-2-Pentanone	1	27.6187	0	50	55	23	137
2-Hexanone	1	26.5639	0	50	53	10	149
Tetrachloroethene	1	24.8425	0	50	50	24	140
Toluene	**1**	**26.399**	**0**	**50**	**53**	**31**	**139**
1,1,1,2-Tetrachloroethane	1	26.953	0	50	54	31	134
Chlorobenzene	1	25.6105	0	50	51	24	134

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS113983

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	4.9693	0	50	9.9*	10	140
n-Amyl acetate	1	2.9659	0	50	5.9*	10	138
Bromoform	1	26.3274	0	50	53	21	137
Ethylbenzene	**1**	**24.0699**	**0**	**50**	**48**	**29**	**137**
1,1,2,2-Tetrachloroethane	1	23.7816	0	50	48	18	136
Styrene	1	23.5845	0	50	47	14	141
m&p-Xylenes	1	46.413	0	100	46	18	152
o-Xylene	1	22.8063	0	50	46	21	146
trans-1,4-Dichloro-2-butene	1	21.8699	0	50	44	11	139
1,3-Dichlorobenzene	1	20.3837	0	50	41	10	134
1,4-Dichlorobenzene	1	19.164	0	50	38	10	132
1,2-Dichlorobenzene	1	19.9897	0	50	40	10	129
Isopropylbenzene	**1**	**23.3553**	**0**	**50**	**47**	**14**	**150**
Cyclohexanone	1	356.3219	0	250	143	10	344
Camphene	1	17.1541	0	50	34	10	137
1,2,3-Trichloropropane	1	24.2019	0	50	48	20	133
2-Chlorotoluene	1	23.8027	0	50	48	13	140
p-Ethyltoluene	1	20.4424	0	50	41	10	138
4-Chlorotoluene	1	21.143	0	50	42	10	138
n-Propylbenzene	1	22.5896	0	50	45	10	145
Bromobenzene	1	22.7483	0	50	45	14	132
1,3,5-Trimethylbenzene	**1**	**21.7326**	**0**	**50**	**43**	**12**	**146**
Butyl methacrylate	1	11.2507	0	50	23	10	154
t-Butylbenzene	1	21.1904	0	50	42	10	142
1,2,4-Trimethylbenzene	**1**	**21.3586**	**0**	**50**	**43**	**10**	**147**
sec-Butylbenzene	1	19.6601	0	50	39	10	146
4-Isopropyltoluene	1	16.7102	0	50	33	10	128
n-Butylbenzene	1	16.5991	0	50	33	10	146
p-Diethylbenzene	1	18.3164	0	50	37	10	142
1,2,4,5-Tetramethylbenzene	1	20.7136	0	50	41	10	130
1,2-Dibromo-3-Chloropropane	1	22.9484	0	50	46	16	126
~~Camphor~~	1	~~319.2918~~	~~0~~				
Hexachlorobutadiene	1	13.4024	0	50	27	10	123
1,2,4-Trichlorobenzene	1	13.7022	0	50	27	10	128
1,2,3-Trichlorobenzene	1	16.2897	0	50	33	10	123
Naphthalene	1	17.8243	0	50	36	10	140

mf 3/11/02

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS113983

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M177163.D	AD41861-005(MSD)	12/14/2023 2:15:00 PM
Non Spike(If applicable):	6M177166.D	AD41861-005	12/14/2023 3:21:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	53.4209	0	50	107	10	168
Dichlorodifluoromethane	1	44.4464	0	50	89	10	150
Chloromethane	1	44.6331	0	50	89	12	150
Bromomethane	1	57.5225	0	50	115	23	136
Vinyl Chloride	1	54.5381	0	50	109	21	153
Chloroethane	1	60.7203	0	50	121	33	147
Trichlorofluoromethane	1	54.7382	0	50	109	29	156
Ethyl ether	1	46.0993	0	50	92	10	141
Furan	1	53.453	0	50	107	22	152
1,1,2-Trichloro-1,2,2-trifluoroethane	1	56.5639	0	50	113	32	149
Methylene Chloride	1	51.9894	0	50	104	35	147
Acrolein	1	80.4878	0	200	40	10	149
Acrylonitrile	1	37.2702	0	50	75	20	130
Iodomethane	1	47.2401	0	50	94	10	152
Acetone	1	264.453	0	200	132	22	222
Carbon Disulfide	1	44.7667	0	50	90	18	135
t-Butyl Alcohol	1	236.2264	0	200	118	38	178
n-Hexane	1	44.7335	0	50	89	11	154
Di-isopropyl-ether	1	48.4673	0	50	97	38	150
1,1-Dichloroethene	1	53.1131	0	50	106	31	165
Methyl Acetate	1	92.9725	0	50	186	10	237
Methyl-t-butyl ether	**1**	**46.5822**	**0**	**50**	**93**	**40**	**151**
1,1-Dichloroethane	1	52.3843	0	50	105	41	149
trans-1,2-Dichloroethene	1	51.0718	0	50	102	33	150
Ethyl-t-butyl ether	1	44.9872	0	50	90	22	184
cis-1,2-Dichloroethene	1	43.9826	0	50	88	33	146
Bromochloromethane	1	44.7845	0	50	90	38	143
2,2-Dichloropropane	1	51.5658	0	50	103	38	161
Ethyl acetate	1	12.8752	0	50	26	10	130
1,4-Dioxane	1	2213.783	0	2500	89	35	151
1,1-Dichloropropene	1	48.1172	0	50	96	34	149
Chloroform	1	46.0003	0	50	92	41	145
Cyclohexane	1	47.7715	0	50	96	25	148
1,2-Dichloroethane	1	43.9044	0	50	88	37	143
2-Butanone	1	45.0384	0	50	90	21	163
1,1,1-Trichloroethane	1	52.2243	0	50	104	38	149
Carbon Tetrachloride	1	48.6056	0	50	97	33	150
Vinyl Acetate	1	20.8024	0	50	42	10	112
Bromodichloromethane	1	46.7639	0	50	94	36	146
Methylcyclohexane	1	43.4199	0	50	87	15	147
Dibromomethane	1	44.3458	0	50	89	32	144
1,2-Dichloropropane	1	50.0459	0	50	100	40	144
Trichloroethene	1	49.1512	0	50	98	24	161
Benzene	**1**	**46.6175**	**0**	**50**	**93**	**38**	**146**
tert-Amyl methyl ether	1	47.382	0	50	95	10	240
Iso-propylacetate	1	21.3624	0	50	43	10	139
Methyl methacrylate	1	60.1846	0	50	120	10	224
Dibromochloromethane	1	43.7473	0	50	87	32	140
2-Chloroethylvinylether	1	52.9078	0	50	106	10	266
cis-1,3-Dichloropropene	1	40.8827	0	50	82	27	139
trans-1,3-Dichloropropene	1	39.6669	0	50	79	22	141
Ethyl methacrylate	1	21.595	0	50	43	16	151
1,1,2-Trichloroethane	1	40.4442	0	50	81	32	138
1,2-Dibromoethane	1	35.776	0	50	72	30	135
1,3-Dichloropropane	1	41.8168	0	50	84	36	136
4-Methyl-2-Pentanone	1	39.5057	0	50	79	23	137
2-Hexanone	1	36.3454	0	50	73	10	149
Tetrachloroethene	1	39.6445	0	50	79	24	140
Toluene	**1**	**40.8049**	**0**	**50**	**82**	**31**	**139**
1,1,1,2-Tetrachloroethane	1	38.8055	0	50	78	31	134
Chlorobenzene	1	39.1507	0	50	78	24	134

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS113983

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	9.9918	0	50	20	10	140
n-Amyl acetate	1	6.2704	0	50	13	10	138
Bromoform	1	38.2654	0	50	77	21	137
Ethylbenzene	**1**	**38.5846**	**0**	**50**	**77**	**29**	**137**
1,1,2,2-Tetrachloroethane	1	36.1238	0	50	72	18	136
Styrene	1	40.1057	0	50	80	14	141
m&p-Xylenes	1	80.3517	0	100	80	18	152
o-Xylene	1	38.8355	0	50	78	21	146
trans-1,4-Dichloro-2-butene	1	33.4474	0	50	67	11	139
1,3-Dichlorobenzene	1	35.1255	0	50	70	10	134
1,4-Dichlorobenzene	1	33.4809	0	50	67	10	132
1,2-Dichlorobenzene	1	33.2177	0	50	66	10	129
Isopropylbenzene	**1**	**41.1876**	**0**	**50**	**82**	**14**	**150**
Cyclohexanone	1	486.7329	0	250	195	10	344
Camphene	1	32.1488	0	50	64	10	137
1,2,3-Trichloropropane	1	36.3976	0	50	73	20	133
2-Chlorotoluene	1	41.3181	0	50	83	13	140
p-Ethyltoluene	1	36.8257	0	50	74	10	138
4-Chlorotoluene	1	36.6215	0	50	73	10	138
n-Propylbenzene	1	39.0296	0	50	78	10	145
Bromobenzene	1	37.7361	0	50	75	14	132
1,3,5-Trimethylbenzene	**1**	**37.5727**	**0**	**50**	**75**	**12**	**146**
Butyl methacrylate	1	19.0675	0	50	38	10	154
t-Butylbenzene	1	38.8028	0	50	78	10	142
1,2,4-Trimethylbenzene	**1**	**38.2812**	**0**	**50**	**77**	**10**	**147**
sec-Butylbenzene	1	36.3566	0	50	73	10	146
4-Isopropyltoluene	1	31.9896	0	50	64	10	128
n-Butylbenzene	1	31.9953	0	50	64	10	146
p-Diethylbenzene	1	32.7569	0	50	66	10	142
1,2,4,5-Tetramethylbenzene	1	30.7392	0	50	61	10	130
1,2-Dibromo-3-Chloropropane	1	37.2091	0	50	74	16	126
~~Camphor~~	1	~~403.8898~~	~~0~~				
Hexachlorobutadiene	1	21.4457	0	50	43	10	123
1,2,4-Trichlorobenzene	1	24.5765	0	50	49	10	128
1,2,3-Trichlorobenzene	1	25.4872	0	50	51	10	123
Naphthalene	1	29.0419	0	50	58	10	140

VF 07102

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS113983

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M177163.D	AD41861-005(MSD)	12/14/2023 2:15:00 PM
Duplicate(If applicable):	6M177162.D	AD41861-005(MS)	12/14/2023 1:53:00 PM
Inst Blank(If applicable):			

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	53.4209	34.0166	44	56
Dichlorodifluoromethane	1	44.4464	24.319	59	60
Chloromethane	1	44.6331	22.0856	68*	49
Bromomethane	1	57.5225	29.4005	65*	38
Vinyl Chloride	1	54.5381	25.847	71*	47
Chloroethane	1	60.7203	28.293	73*	39
Trichlorofluoromethane	1	54.7382	40.2123	31	43
Ethyl ether	1	46.0993	26.7962	53	106
Furan	1	53.453	31.7584	51	56
1,1,2-Trichloro-1,2,2-trifluoroethane	1	56.5639	32.0448	55*	45
Methylene Chloride	1	51.9894	32.0413	47*	35
Acrolein	1	80.4878	34.9159	79	129
Acrylonitrile	1	37.2702	24.9636	40	40
Iodomethane	1	47.2401	26.9781	55*	46
Acetone	1	264.453	180.587	38	41
Carbon Disulfide	1	44.7667	25.0348	57*	44
t-Butyl Alcohol	1	236.2264	178.0106	28	38
n-Hexane	1	44.7335	22.4413	66*	52
Di-isopropyl-ether	1	48.4673	31.6216	42*	36
1,1-Dichloroethene	1	53.1131	30.5472	54*	42
Methyl Acetate	1	92.9725	55.5455	50*	43
Methyl-t-butyl ether	**1**	**46.5822**	**33.0177**	**34**	**34**
1,1-Dichloroethane	1	52.3843	36.541	36	37
trans-1,2-Dichloroethene	1	51.0718	29.9984	52*	40
Ethyl-t-butyl ether	1	44.9872	29.9964	40	55
cis-1,2-Dichloroethene	1	43.9826	28.3704	43*	36
Bromochloromethane	1	44.7845	30.546	38*	29
2,2-Dichloropropane	1	51.5658	35.6242	37	38
Ethyl acetate	1	12.8752	8.4522	41	106
1,4-Dioxane	1	2213.783	1678.826	27	38
1,1-Dichloropropene	1	48.1172	32.0189	40*	39
Chloroform	1	46.0003	32.1184	36*	31
Cyclohexane	1	47.7715	27.229	55*	44
1,2-Dichloroethane	1	43.9044	31.6603	32*	29
2-Butanone	1	45.0384	30.7192	38	46
1,1,1-Trichloroethane	1	52.2243	38.6614	30	36
Carbon Tetrachloride	1	48.6056	33.5509	37	37
Vinyl Acetate	1	20.8024	14.6237	35	44
Bromodichloromethane	1	46.7639	32.7433	35*	32
Methylcyclohexane	1	43.4199	22.8982	62*	45
Dibromomethane	1	44.3458	32.7261	30	30
1,2-Dichloropropane	1	50.0459	29.7283	51*	31
Trichloroethene	1	49.1512	32.4991	41*	36
Benzene	**1**	**46.6175**	**30.95**	**40***	**33**
tert-Amyl methyl ether	1	47.382	33.7405	34*	29
Iso-propylacetate	1	21.3624	13.0868	48	117
Methyl methacrylate	1	60.1846	41.3601	37	68
Dibromochloromethane	1	43.7473	27.1692	47*	35
2-Chloroethylvinylether	1	52.9078	38.6186	31	167
cis-1,3-Dichloropropene	1	40.8827	27.122	40*	36
trans-1,3-Dichloropropene	1	39.6669	27.0851	38*	37
Ethyl methacrylate	1	21.595	12.1745	56*	46
1,1,2-Trichloroethane	1	40.4442	27.8653	37	41
1,2-Dibromoethane	1	35.776	26.3363	30	34
1,3-Dichloropropane	1	41.8168	27.6356	41*	33
4-Methyl-2-Pentanone	1	39.5057	27.6187	35	57
2-Hexanone	1	36.3454	26.5639	31	63
Tetrachloroethene	1	39.6445	24.8425	46*	40
Toluene	**1**	**40.8049**	**26.399**	**43***	**38**
1,1,1,2-Tetrachloroethane	1	38.8055	26.953	36*	35
Chlorobenzene	1	39.1507	25.6105	42*	38

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS113983

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	9.9918	4.9693	67	134
n-Amyl acetate	1	6.2704	2.9659	72	166
Bromoform	1	38.2654	26.3274	37	37
Ethylbenzene	1	**38.5846**	**24.0699**	**46***	**36**
1,1,2,2-Tetrachloroethane	1	36.1238	23.7816	41*	40
Styrene	1	40.1057	23.5845	52*	45
m&p-Xylenes	1	80.3517	46.413	54*	44
o-Xylene	1	38.8355	22.8063	52*	43
trans-1,4-Dichloro-2-butene	1	33.4474	21.8699	42*	39
1,3-Dichlorobenzene	1	35.1255	20.3837	53*	46
1,4-Dichlorobenzene	1	33.4809	19.164	54*	47
1,2-Dichlorobenzene	1	33.2177	19.9897	50*	47
Isopropylbenzene	1	**41.1876**	**23.3553**	**55***	**46**
Cyclohexanone	1	486.7329	356.3219	31	63
Camphene	1	32.1488	17.1541	61*	54
1,2,3-Trichloropropane	1	36.3976	24.2019	40*	38
2-Chlorotoluene	1	41.3181	23.8027	54*	47
p-Ethyltoluene	1	36.8257	20.4424	57	58
4-Chlorotoluene	1	36.6215	21.143	54*	48
n-Propylbenzene	1	39.0296	22.5896	53*	46
Bromobenzene	1	37.7361	22.7483	50*	41
1,3,5-Trimethylbenzene	1	**37.5727**	**21.7326**	**53***	**45**
Butyl methacrylate	1	19.0675	11.2507	52	83
t-Butylbenzene	1	38.8028	21.1904	59*	46
1,2,4-Trimethylbenzene	1	**38.2812**	**21.3586**	**57***	**49**
sec-Butylbenzene	1	36.3566	19.6601	60*	49
4-Isopropyltoluene	1	31.9896	16.7102	63*	51
n-Butylbenzene	1	31.9953	16.5991	63*	55
p-Diethylbenzene	1	32.7569	18.3164	57*	55
1,2,4,5-Tetramethylbenzene	1	30.7392	20.7136	39	59
1,2-Dibromo-3-Chloropropane	1	37.2091	22.9484	47*	43
~~Camphor~~	1	~~403.8898~~	~~319.2318~~	~~23~~	
Hexachlorobutadiene	1	21.4457	13.4024	46	56
1,2,4-Trichlorobenzene	1	24.5765	13.7022	57	58
1,2,3-Trichlorobenzene	1	25.4872	16.2897	44	60
Naphthalene	1	29.0419	17.8243	48	70

07102

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS113993

	Data File	Sample ID:	Analysis Date
Spike or Dup:	11M118369.D	MBS113993	12/15/2023 3:25:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260D Matrix: Methanol Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	17.5797	0	20	88	50	150
Dichlorodifluoromethane	1	12.8785	0	20	64	50	150
Chloromethane	1	15.3684	0	20	77	50	150
Bromomethane	1	15.9347	0	20	80	50	150
Vinyl Chloride	1	17.2278	0	20	86	50	150
Chloroethane	1	18.3433	0	20	92	50	150
Trichlorofluoromethane	1	17.73	0	20	89	50	150
Ethyl ether	1	17.0593	0	20	85	50	150
Furan	1	16.5171	0	20	83	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	18.3953	0	20	92	50	150
Methylene Chloride	1	18.8605	0	20	94	70	130
Acrolein	1	126.97	0	100	127	50	150
Acrylonitrile	1	19.1399	0	20	96	50	150
Iodomethane	1	9.7205	0	20	49*	50	150
Acetone	1	89.005	0	100	89	50	150
Carbon Disulfide	1	18.0323	0	20	90	50	150
t-Butyl Alcohol	1	100.3252	0	100	100	50	150
n-Hexane	1	18.7394	0	20	94	70	130
Di-isopropyl-ether	1	17.1784	0	20	86	70	130
1,1-Dichloroethene	1	17.9075	0	20	90	70	130
Methyl Acetate	1	17.1209	0	20	86	50	150
Methyl-t-butyl ether	**1**	**17.3228**	**0**	**20**	**87**	**70**	**130**
1,1-Dichloroethane	1	18.7971	0	20	94	70	130
trans-1,2-Dichloroethene	1	18.8817	0	20	94	70	130
Ethyl-t-butyl ether	1	18.9127	0	20	95	70	130
cis-1,2-Dichloroethene	1	18.5187	0	20	93	70	130
Bromochloromethane	1	17.7841	0	20	89	70	130
2,2-Dichloropropane	1	18.1521	0	20	91	70	130
Ethyl acetate	1	18.7041	0	20	94	50	150
1,4-Dioxane	1	1004.422	0	1000	100	50	150
1,1-Dichloropropene	1	18.7205	0	20	94	70	130
Chloroform	1	18.2851	0	20	91	70	130
Cyclohexane	1	18.2903	0	20	91	70	130
1,2-Dichloroethane	1	17.6937	0	20	88	70	130
2-Butanone	1	16.8596	0	20	84	50	150
1,1,1-Trichloroethane	1	18.4755	0	20	92	70	130
Carbon Tetrachloride	1	19.0461	0	20	95	50	150
Vinyl Acetate	1	18.0453	0	20	90	50	150
Bromodichloromethane	1	19.0234	0	20	95	70	130
Methylcyclohexane	1	18.659	0	20	93	70	130
Dibromomethane	1	19.1193	0	20	96	70	130
1,2-Dichloropropane	1	19.1053	0	20	96	70	130
Trichloroethene	1	19.2212	0	20	96	70	130
Benzene	**1**	**18.8694**	**0**	**20**	**94**	**70**	**130**
tert-Amyl methyl ether	1	18.2635	0	20	91	70	130
Iso-propylacetate	1	15.872	0	20	79	70	130
Methyl methacrylate	1	16.6859	0	20	83	70	130
Dibromochloromethane	1	18.0733	0	20	90	70	130
2-Chloroethylvinylether	1	15.6206	0	20	78	70	130
cis-1,3-Dichloropropene	1	16.9674	0	20	85	70	130
trans-1,3-Dichloropropene	1	17.0504	0	20	85	70	130
Ethyl methacrylate	1	17.487	0	20	87	70	130
1,1,2-Trichloroethane	1	17.5401	0	20	88	70	130
1,2-Dibromoethane	1	17.9967	0	20	90	70	130
1,3-Dichloropropane	1	17.3455	0	20	87	70	130
4-Methyl-2-Pentanone	1	16.9126	0	20	85	50	150
2-Hexanone	1	17.8683	0	20	89	50	150
Tetrachloroethene	1	16.8014	0	20	84	50	150
Toluene	**1**	**16.6569**	**0**	**20**	**83**	**70**	**130**
1,1,1,2-Tetrachloroethane	1	18.1558	0	20	91	70	130
Chlorobenzene	1	17.4344	0	20	87	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS113993

Method: 8260D | Matrix: Methanol | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	23.6162	0	20	118	70	130
n-Amyl acetate	1	20.4704	0	20	102	70	130
Bromoform	1	25.2716	0	20	126	70	130
Ethylbenzene	**1**	**23.0789**	**0**	**20**	**115**	**70**	**130**
1,1,2,2-Tetrachloroethane	1	24.6303	0	20	123	70	130
Styrene	1	25.3209	0	20	127	70	130
m&p-Xylenes	1	48.8793	0	40	122	70	130
o-Xylene	1	25.576	0	20	128	70	130
trans-1,4-Dichloro-2-butene	1	21.1297	0	20	106	50	150
1,3-Dichlorobenzene	1	17.5872	0	20	88	70	130
1,4-Dichlorobenzene	1	16.3878	0	20	82	70	130
1,2-Dichlorobenzene	1	17.4503	0	20	87	70	130
Isopropylbenzene	**1**	**25.0889**	**0**	**20**	**125**	**70**	**130**
Cyclohexanone	1	145.3525	0	100	145	50	150
Camphene	1	26.9101	0	20	135*	70	130
1,2,3-Trichloropropane	1	23.4901	0	20	117	70	130
2-Chlorotoluene	1	16.8486	0	20	84	70	130
p-Ethyltoluene	1	20.3604	0	20	102	70	130
4-Chlorotoluene	1	18.041	0	20	90	70	130
n-Propylbenzene	1	22.3173	0	20	112	70	130
Bromobenzene	1	23.2781	0	20	116	70	130
1,3,5-Trimethylbenzene	**1**	**17.5089**	**0**	**20**	**88**	**70**	**130**
Butyl methacrylate	1	17.8501	0	20	89	70	130
t-Butylbenzene	1	18.412	0	20	92	70	130
1,2,4-Trimethylbenzene	**1**	**16.4695**	**0**	**20**	**82**	**70**	**130**
sec-Butylbenzene	1	14.9618	0	20	75	70	130
4-Isopropyltoluene	1	14.0619	0	20	70	70	130
n-Butylbenzene	1	15.1602	0	20	76	70	130
p-Diethylbenzene	1	18.0064	0	20	90	70	130
1,2,4,5-Tetramethylbenzene	1	17.5548	0	20	88	70	130
1,2-Dibromo-3-Chloropropane	1	24.5997	0	20	123	50	150
Camphor	1	210.0214	0	200	105	20	150
Hexachlorobutadiene	1	17.9597	0	20	90	50	150
1,2,4-Trichlorobenzene	1	18.0143	0	20	90	70	130
1,2,3-Trichlorobenzene	1	18.1824	0	20	91	70	130
Naphthalene	1	18.9291	0	20	95	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS113993

	Data File	Sample ID:	Analysis Date
Spike or Dup:	11M118367.D	AD41925-010(MS)	12/15/2023 2:45:00 PM
Non Spike(If applicable):	11M118373.D	AD41925-010	12/15/2023 4:45:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Methanol Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	19.4125	0	20	97	50	150
Dichlorodifluoromethane	1	13.9185	0	20	70	50	150
Chloromethane	1	15.0241	0	20	75	50	150
Bromomethane	1	6.3149	0	20	32*	50	150
Vinyl Chloride	1	17.5504	0	20	88	50	150
Chloroethane	1	18.4178	0	20	92	50	150
Trichlorofluoromethane	1	18.0491	0	20	90	50	150
Ethyl ether	1	15.816	0	20	79	50	150
Furan	1	15.919	0	20	80	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	19.6366	0	20	98	50	150
Methylene Chloride	1	18.0542	0	20	90	70	130
Acrolein	1	125.5151	0	100	126	50	150
Acrylonitrile	1	18.561	0	20	93	50	150
Iodomethane	1	5.9998	0	20	30*	50	150
Acetone	1	92.0997	0	100	92	50	150
Carbon Disulfide	1	17.5477	0	20	88	50	150
t-Butyl Alcohol	1	101.1029	0	100	101	50	150
n-Hexane	1	20.0182	0	20	100	70	130
Di-isopropyl-ether	1	16.6352	0	20	83	70	130
1,1-Dichloroethene	1	17.9908	0	20	90	70	130
Methyl Acetate	1	17.1421	0	20	86	50	150
Methyl-t-butyl ether	**1**	**16.5695**	**0**	**20**	**83**	**70**	**130**
1,1-Dichloroethane	1	18.1438	0	20	91	70	130
trans-1,2-Dichloroethene	1	18.6219	0	20	93	70	130
Ethyl-t-butyl ether	1	18.0102	0	20	90	70	130
cis-1,2-Dichloroethene	1	18.1519	0	20	91	70	130
Bromochloromethane	1	17.0683	0	20	85	70	130
2,2-Dichloropropane	1	17.2804	0	20	86	70	130
Ethyl acetate	1	17.5481	0	20	88	50	150
1,4-Dioxane	1	1082.779	0	1000	108	50	150
1,1-Dichloropropene	1	19.0097	0	20	95	70	130
Chloroform	1	18.0093	0	20	90	70	130
Cyclohexane	1	19.6755	0	20	98	70	130
1,2-Dichloroethane	1	17.1999	0	20	86	70	130
2-Butanone	1	20.9399	0	20	105	50	150
1,1,1-Trichloroethane	1	18.7558	0	20	94	70	130
Carbon Tetrachloride	1	19.4974	0	20	97	50	150
Vinyl Acetate	1	17.3458	0	20	87	50	150
Bromodichloromethane	1	18.3039	0	20	92	70	130
Methylcyclohexane	1	20.6591	0	20	103	70	130
Dibromomethane	1	18.9867	0	20	95	70	130
1,2-Dichloropropane	1	17.9775	0	20	90	70	130
Trichloroethene	1	18.989	0	20	95	70	130
Benzene	**1**	**18.7441**	**0**	**20**	**94**	**70**	**130**
tert-Amyl methyl ether	1	17.3961	0	20	87	70	130
Iso-propylacetate	1	14.2638	0	20	71	70	130
Methyl methacrylate	1	14.7128	0	20	74	70	130
Dibromochloromethane	1	16.7822	0	20	84	70	130
2-Chloroethylvinylether	1	14.2472	0	20	71	70	130
cis-1,3-Dichloropropene	1	15.6728	0	20	78	70	130
trans-1,3-Dichloropropene	1	15.5038	0	20	78	70	130
Ethyl methacrylate	1	16.5973	0	20	83	70	130
1,1,2-Trichloroethane	1	16.5035	0	20	83	70	130
1,2-Dibromoethane	1	16.661	0	20	83	70	130
1,3-Dichloropropane	1	15.9447	0	20	80	70	130
4-Methyl-2-Pentanone	1	16.2216	0	20	81	50	150
2-Hexanone	1	17.0812	0	20	85	50	150
Tetrachloroethene	1	17.0306	0	20	85	50	150
Toluene	**1**	**16.3396**	**0**	**20**	**82**	**70**	**130**
1,1,1,2-Tetrachloroethane	1	17.099	0	20	85	70	130
Chlorobenzene	1	16.964	0	20	85	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS113993

Method: 8260D | Matrix: Methanol | Units: mg/Kg | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	22.4198	0	20	112	70	130
n-Amyl acetate	1	19.2327	0	20	96	70	130
Bromoform	1	23.9556	0	20	120	70	130
Ethylbenzene	**1**	**22.3956**	**0**	**20**	**112**	**70**	**130**
1,1,2,2-Tetrachloroethane	1	23.1349	0	20	116	70	130
Styrene	1	24.4862	0	20	122	70	130
m&p-Xylenes	1	47.2058	0	40	118	70	130
o-Xylene	1	24.4424	0	20	122	70	130
trans-1,4-Dichloro-2-butene	1	20.8176	0	20	104	50	150
1,3-Dichlorobenzene	1	16.8104	0	20	84	70	130
1,4-Dichlorobenzene	1	15.4509	0	20	77	70	130
1,2-Dichlorobenzene	1	16.597	0	20	83	70	130
Isopropylbenzene	**1**	**24.713**	**0**	**20**	**124**	**70**	**130**
Cyclohexanone	1	176.3352	0	100	176*	50	150
Camphene	1	27.4011	0	20	137*	70	130
1,2,3-Trichloropropane	1	22.2349	0	20	111	70	130
2-Chlorotoluene	1	16.2608	0	20	81	70	130
p-Ethyltoluene	1	19.6438	0	20	98	70	130
4-Chlorotoluene	1	16.4058	0	20	82	70	130
n-Propylbenzene	1	21.7479	0	20	109	70	130
Bromobenzene	1	22.6321	0	20	113	70	130
1,3,5-Trimethylbenzene	**1**	**17.1539**	**0**	**20**	**86**	**70**	**130**
Butyl methacrylate	1	17.8044	0	20	89	70	130
t-Butylbenzene	1	18.3316	0	20	92	70	130
1,2,4-Trimethylbenzene	**1**	**15.8324**	**0**	**20**	**79**	**70**	**130**
sec-Butylbenzene	1	15.0433	0	20	75	70	130
4-Isopropyltoluene	1	13.8982	0	20	69*	70	130
n-Butylbenzene	1	14.9656	0	20	75	70	130
p-Diethylbenzene	1	17.6498	0	20	88	70	130
1,2,4,5-Tetramethylbenzene	1	17.1571	0	20	86	70	130
1,2-Dibromo-3-Chloropropane	1	23.52	0	20	118	50	150
Camphor	1	193.639	0	200	97	20	150
Hexachlorobutadiene	1	19.207	0	20	96	50	150
1,2,4-Trichlorobenzene	1	17.3669	0	20	87	70	130
1,2,3-Trichlorobenzene	1	16.9577	0	20	85	70	130
Naphthalene	1	17.7888	3.1967	20	73	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS113993

	Data File	Sample ID:	Analysis Date
Spike or Dup:	11M118370.D	AD41925-010(MSD)	12/15/2023 3:45:00 PM
Non Spike(If applicable):	11M118373.D	AD41925-010	12/15/2023 4:45:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Methanol Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	17.9022	0	20	90	50	150
Dichlorodifluoromethane	1	14.0176	0	20	70	50	150
Chloromethane	1	15.3524	0	20	77	50	150
Bromomethane	1	7.8406	0	20	39*	50	150
Vinyl Chloride	1	18.2089	0	20	91	50	150
Chloroethane	1	18.9643	0	20	95	50	150
Trichlorofluoromethane	1	18.3508	0	20	92	50	150
Ethyl ether	1	17.0841	0	20	85	50	150
Furan	1	16.1787	0	20	81	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	19.3644	0	20	97	50	150
Methylene Chloride	1	18.5745	0	20	93	70	130
Acrolein	1	137.8597	0	100	138	50	150
Acrylonitrile	1	20.3247	0	20	102	50	150
Iodomethane	1	8.0602	0	20	40*	50	150
Acetone	1	98.575	0	100	99	50	150
Carbon Disulfide	1	18.2819	0	20	91	50	150
t-Butyl Alcohol	1	120.2725	0	100	120	50	150
n-Hexane	1	20.4601	0	20	102	70	130
Di-isopropyl-ether	1	17.3003	0	20	87	70	130
1,1-Dichloroethene	1	18.2697	0	20	91	70	130
Methyl Acetate	1	19.2921	0	20	96	50	150
Methyl-t-butyl ether	**1**	**17.39**	**0**	**20**	**87**	**70**	**130**
1,1-Dichloroethane	1	18.6862	0	20	93	70	130
trans-1,2-Dichloroethene	1	19.2151	0	20	96	70	130
Ethyl-t-butyl ether	1	18.6765	0	20	93	70	130
cis-1,2-Dichloroethene	1	18.8375	0	20	94	70	130
Bromochloromethane	1	18.1168	0	20	91	70	130
2,2-Dichloropropane	1	18.3044	0	20	92	70	130
Ethyl acetate	1	18.8206	0	20	94	50	150
1,4-Dioxane	1	1254.086	0	1000	125	50	150
1,1-Dichloropropene	1	19.7742	0	20	99	70	130
Chloroform	1	18.3992	0	20	92	70	130
Cyclohexane	1	20.0365	0	20	100	70	130
1,2-Dichloroethane	1	17.4216	0	20	87	70	130
2-Butanone	1	22.24	0	20	111	50	150
1,1,1-Trichloroethane	1	19.5204	0	20	98	70	130
Carbon Tetrachloride	1	20.0699	0	20	100	50	150
Vinyl Acetate	1	17.7997	0	20	89	50	150
Bromodichloromethane	1	18.786	0	20	94	70	130
Methylcyclohexane	1	21.1784	0	20	106	70	130
Dibromomethane	1	19.2579	0	20	96	70	130
1,2-Dichloropropane	1	18.7053	0	20	94	70	130
Trichloroethene	1	19.5636	0	20	98	70	130
Benzene	**1**	**19.3949**	**0**	**20**	**97**	**70**	**130**
tert-Amyl methyl ether	1	18.7001	0	20	94	70	130
Iso-propylacetate	1	16.193	0	20	81	70	130
Methyl methacrylate	1	16.4133	0	20	82	70	130
Dibromochloromethane	1	17.3465	0	20	87	70	130
2-Chloroethylvinylether	1	16.7652	0	20	84	70	130
cis-1,3-Dichloropropene	1	16.6844	0	20	83	70	130
trans-1,3-Dichloropropene	1	17.0494	0	20	85	70	130
Ethyl methacrylate	1	18.3252	0	20	92	70	130
1,1,2-Trichloroethane	1	17.6875	0	20	88	70	130
1,2-Dibromoethane	1	17.719	0	20	89	70	130
1,3-Dichloropropane	1	16.6957	0	20	83	70	130
4-Methyl-2-Pentanone	1	17.49	0	20	87	50	150
2-Hexanone	1	18.6177	0	20	93	50	150
Tetrachloroethene	1	17.27	0	20	86	50	150
Toluene	**1**	**16.6869**	**0**	**20**	**83**	**70**	**130**
1,1,1,2-Tetrachloroethane	1	17.9636	0	20	90	70	130
Chlorobenzene	1	17.7054	0	20	89	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS113993

Method: 8260D | Matrix: Methanol | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	23.9423	0	20	120	70	130
n-Amyl acetate	1	21.2242	0	20	106	70	130
Bromoform	1	24.7071	0	20	124	70	130
Ethylbenzene	**1**	**22.9585**	**0**	**20**	**115**	**70**	**130**
1,1,2,2-Tetrachloroethane	1	24.7174	0	20	124	70	130
Styrene	1	25.1418	0	20	126	70	130
m&p-Xylenes	1	48.3411	0	40	121	70	130
o-Xylene	1	24.879	0	20	124	70	130
trans-1,4-Dichloro-2-butene	1	21.7331	0	20	109	50	150
1,3-Dichlorobenzene	1	17.6884	0	20	88	70	130
1,4-Dichlorobenzene	1	16.0969	0	20	80	70	130
1,2-Dichlorobenzene	1	17.5839	0	20	88	70	130
Isopropylbenzene	**1**	**25.328**	**0**	**20**	**127**	**70**	**130**
Cyclohexanone	1	191.9315	0	100	192*	50	150
Camphene	1	27.9892	0	20	140*	70	130
1,2,3-Trichloropropane	1	23.4049	0	20	117	70	130
2-Chlorotoluene	1	16.6329	0	20	83	70	130
p-Ethyltoluene	1	20.5694	0	20	103	70	130
4-Chlorotoluene	1	17.9378	0	20	90	70	130
n-Propylbenzene	1	22.4644	0	20	112	70	130
Bromobenzene	1	23.3072	0	20	117	70	130
1,3,5-Trimethylbenzene	**1**	**17.5358**	**0**	**20**	**88**	**70**	**130**
Butyl methacrylate	1	19.4397	0	20	97	70	130
t-Butylbenzene	1	18.9615	0	20	95	70	130
1,2,4-Trimethylbenzene	**1**	**16.5338**	**0**	**20**	**83**	**70**	**130**
sec-Butylbenzene	1	15.586	0	20	78	70	130
4-Isopropyltoluene	1	14.5245	0	20	73	70	130
n-Butylbenzene	1	16.0205	0	20	80	70	130
p-Diethylbenzene	1	18.7012	0	20	94	70	130
1,2,4,5-Tetramethylbenzene	1	18.3358	0	20	92	70	130
1,2-Dibromo-3-Chloropropane	1	26.3002	0	20	132	50	150
Camphor	1	246.1424	0	200	123	20	150
Hexachlorobutadiene	1	20.4878	0	20	102	50	150
1,2,4-Trichlorobenzene	1	20.3904	0	20	102	70	130
1,2,3-Trichlorobenzene	1	22.1292	0	20	111	70	130
Naphthalene	1	23.4385	3.1967	20	101	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS113993

	Data File	Sample ID:	Analysis Date
Spike or Dup:	11M118370.D	AD41925-010(MSD)	12/15/2023 3:45:00 PM
Duplicate(If applicable):	11M118367.D	AD41925-010(MS)	12/15/2023 2:45:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Methanol Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	17.9022	19.4125	8.1	30
Dichlorodifluoromethane	1	14.0176	13.9185	0.71	30
Chloromethane	1	15.3524	15.0241	2.2	30
Bromomethane	1	7.8406	6.3149	22	30
Vinyl Chloride	1	18.2089	17.5504	3.7	40
Chloroethane	1	18.9643	18.4178	2.9	30
Trichlorofluoromethane	1	18.3508	18.0491	1.7	30
Ethyl ether	1	17.0841	15.816	7.7	30
Furan	1	16.1787	15.919	1.6	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1	19.3644	19.6366	1.4	30
Methylene Chloride	1	18.5745	18.0542	2.8	30
Acrolein	1	137.8597	125.5151	9.4	30
Acrylonitrile	1	20.3247	18.561	9.1	30
Iodomethane	1	8.0602	5.9998	29	30
Acetone	1	98.575	92.0997	6.8	30
Carbon Disulfide	1	18.2819	17.5477	4.1	30
t-Butyl Alcohol	1	120.2725	101.1029	17	30
n-Hexane	1	20.4601	20.0182	2.2	30
Di-isopropyl-ether	1	17.3003	16.6352	3.9	30
1,1-Dichloroethene	1	18.2697	17.9908	1.5	40
Methyl Acetate	1	19.2921	17.1421	12	30
Methyl-t-butyl ether	**1**	**17.39**	**16.5695**	**4.8**	**30**
1,1-Dichloroethane	1	18.6862	18.1438	2.9	40
trans-1,2-Dichloroethene	1	19.2151	18.6219	3.1	30
Ethyl-t-butyl ether	1	18.6765	18.0102	3.6	30
cis-1,2-Dichloroethene	1	18.8375	18.1519	3.7	30
Bromochloromethane	1	18.1168	17.0683	6	30
2,2-Dichloropropane	1	18.3044	17.2804	5.8	30
Ethyl acetate	1	18.8206	17.5481	7	20
1,4-Dioxane	1	1254.086	1082.779	15	30
1,1-Dichloropropene	1	19.7742	19.0097	3.9	30
Chloroform	1	18.3992	18.0093	2.1	40
Cyclohexane	1	20.0365	19.6755	1.8	30
1,2-Dichloroethane	1	17.4216	17.1999	1.3	40
2-Butanone	1	22.24	20.9399	6	40
1,1,1-Trichloroethane	1	19.5204	18.7558	4	30
Carbon Tetrachloride	1	20.0699	19.4974	2.9	40
Vinyl Acetate	1	17.7997	17.3458	2.6	30
Bromodichloromethane	1	18.786	18.3039	2.6	30
Methylcyclohexane	1	21.1784	20.6591	2.5	30
Dibromomethane	1	19.2579	18.9867	1.4	30
1,2-Dichloropropane	1	18.7053	17.9775	4	30
Trichloroethene	1	19.5636	18.989	3	40
Benzene	**1**	**19.3949**	**18.7441**	**3.4**	**40**
tert-Amyl methyl ether	1	18.7001	17.3961	7.2	30
Iso-propylacetate	1	16.193	14.2638	13	30
Methyl methacrylate	1	16.4133	14.7128	11	30
Dibromochloromethane	1	17.3465	16.7822	3.3	30
2-Chloroethylvinylether	1	16.7652	14.2472	16	30
cis-1,3-Dichloropropene	1	16.6844	15.6728	6.3	30
trans-1,3-Dichloropropene	1	17.0494	15.5038	9.5	30
Ethyl methacrylate	1	18.3252	16.5973	9.9	30
1,1,2-Trichloroethane	1	17.6875	16.5035	6.9	30
1,2-Dibromoethane	1	17.719	16.661	6.2	30
1,3-Dichloropropane	1	16.6957	15.9447	4.6	30
4-Methyl-2-Pentanone	1	17.49	16.2216	7.5	30
2-Hexanone	1	18.6177	17.0812	8.6	30
Tetrachloroethene	1	17.27	17.0306	1.4	40
Toluene	**1**	**16.6869**	**16.3396**	**2.1**	**40**
1,1,1,2-Tetrachloroethane	1	17.9636	17.099	4.9	30
Chlorobenzene	1	17.7054	16.964	4.3	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: MBS113993

Method: 8260D | Matrix: Methanol | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	23.9423	22.4198	6.6	30
n-Amyl acetate	1	21.2242	19.2327	9.8	30
Bromoform	1	24.7071	23.9556	3.1	30
Ethylbenzene	**1**	**22.9585**	**22.3956**	**2.5**	**30**
1,1,2,2-Tetrachloroethane	1	24.7174	23.1349	6.6	30
Styrene	1	25.1418	24.4862	2.6	30
m&p-Xylenes	1	48.3411	47.2058	2.4	30
o-Xylene	1	24.879	24.4424	1.8	30
trans-1,4-Dichloro-2-butene	1	21.7331	20.8176	4.3	30
1,3-Dichlorobenzene	1	17.6884	16.8104	5.1	30
1,4-Dichlorobenzene	1	16.0969	15.4509	4.1	40
1,2-Dichlorobenzene	1	17.5839	16.597	5.8	40
Isopropylbenzene	**1**	**25.328**	**24.713**	**2.5**	**30**
Cyclohexanone	1	191.9315	176.3352	8.5	30
Camphene	1	27.9892	27.4011	2.1	30
1,2,3-Trichloropropane	1	23.4049	22.2349	5.1	30
2-Chlorotoluene	1	16.6329	16.2608	2.3	30
p-Ethyltoluene	1	20.5694	19.6438	4.6	30
4-Chlorotoluene	1	17.9378	16.4058	8.9	30
n-Propylbenzene	1	22.4644	21.7479	3.2	40
Bromobenzene	1	23.3072	22.6321	2.9	30
1,3,5-Trimethylbenzene	**1**	**17.5358**	**17.1539**	**2.2**	**30**
Butyl methacrylate	1	19.4397	17.8044	8.8	30
t-Butylbenzene	1	18.9615	18.3316	3.4	30
1,2,4-Trimethylbenzene	**1**	**16.5338**	**15.8324**	**4.3**	**30**
sec-Butylbenzene	1	15.586	15.0433	3.5	40
4-Isopropyltoluene	1	14.5245	13.8982	4.4	30
n-Butylbenzene	1	16.0205	14.9656	6.8	30
p-Diethylbenzene	1	18.7012	17.6498	5.8	30
1,2,4,5-Tetramethylbenzene	1	18.3358	17.1571	6.6	30
1,2-Dibromo-3-Chloropropane	1	26.3002	23.52	11	30
Camphor	1	246.1424	193.639	24	30
Hexachlorobutadiene	1	20.4878	19.207	6.5	30
1,2,4-Trichlorobenzene	1	20.3904	17.3669	16	30
1,2,3-Trichlorobenzene	1	22.1292	16.9577	26	30
Naphthalene	1	23.4385	17.7888	27	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS113997

Data File	Sample ID:	Analysis Date
Spike or Dup: 2M193976.D	MBS113997	12/16/2023 12:31:00 P
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	26.5642	0	20	133	16	181
Dichlorodifluoromethane	1	16.1777	0	20	81	10	202
Chloromethane	1	17.8799	0	20	89	10	182
Bromomethane	1	17.1316	0	20	86	10	172
Vinyl Chloride	1	20.0485	0	20	100	26	176
Chloroethane	1	19.6859	0	20	98	28	165
Trichlorofluoromethane	1	17.4681	0	20	87	18	178
Ethyl ether	1	20.6978	0	20	103	38	155
Furan	1	19.7338	0	20	99	31	160
1,1,2-Trichloro-1,2,2-trifluoroethane	1	19.664	0	20	98	32	178
Methylene Chloride	1	19.1248	0	20	96	10	225
Acrolein	1	87.8389	0	100	88	10	183
Acrylonitrile	1	18.4117	0	20	92	40	164
Iodomethane	1	14.7748	0	20	74	10	191
Acetone	1	87.528	0	100	88	10	237
Carbon Disulfide	1	18.8148	0	20	94	10	194
t-Butyl Alcohol	1	85.1131	0	100	85	21	185
n-Hexane	1	17.1619	0	20	86	43	179
Di-isopropyl-ether	1	19.7113	0	20	99	47	159
1,1-Dichloroethene	1	20.1357	0	20	101	42	172
Methyl Acetate	1	18.344	0	20	92	10	192
Methyl-t-butyl ether	**1**	**18.1797**	**0**	**20**	**91**	**43**	**154**
1,1-Dichloroethane	1	19.2181	0	20	96	48	160
trans-1,2-Dichloroethene	1	19.0065	0	20	95	37	171
Ethyl-t-butyl ether	1	19.5854	0	20	98	53	149
cis-1,2-Dichloroethene	1	17.6987	0	20	88	45	161
Bromochloromethane	1	19.6208	0	20	98	42	170
2,2-Dichloropropane	1	12.945	0	20	65	33	173
Ethyl acetate	1	17.8743	0	20	89	38	156
1,4-Dioxane	1	698.0372	0	1000	70	18	186
1,1-Dichloropropene	1	18.8562	0	20	94	51	157
Chloroform	1	17.9543	0	20	90	47	157
Cyclohexane	1	20.1129	0	20	101	41	175
1,2-Dichloroethane	1	18.8559	0	20	94	43	154
2-Butanone	1	16.4977	0	20	82	20	188
1,1,1-Trichloroethane	1	18.7385	0	20	94	49	155
Carbon Tetrachloride	1	17.6189	0	20	88	47	159
Vinyl Acetate	1	17.2059	0	20	86	31	160
Bromodichloromethane	1	18.17	0	20	91	48	152
Methylcyclohexane	1	19.1698	0	20	96	47	167
Dibromomethane	1	18.8255	0	20	94	47	153
1,2-Dichloropropane	1	19.4997	0	20	97	53	153
Trichloroethene	1	18.5956	0	20	93	45	165
Benzene	**1**	**19.3886**	**0**	**20**	**97**	**41**	**163**
tert-Amyl methyl ether	1	18.1591	0	20	91	51	146
Iso-propylacetate	1	22.7331	0	20	114	37	153
Methyl methacrylate	1	22.2966	0	20	111	40	160
Dibromochloromethane	1	19.4213	0	20	97	50	144
2-Chloroethylvinylether	1	5.5778	0	20	28	10	201
cis-1,3-Dichloropropene	1	19.7331	0	20	99	49	146
trans-1,3-Dichloropropene	1	19.3406	0	20	97	48	144
Ethyl methacrylate	1	21.7888	0	20	109	38	160
1,1,2-Trichloroethane	1	20.8945	0	20	104	52	146
1,2-Dibromoethane	1	19.9942	0	20	100	55	140
1,3-Dichloropropane	1	22.2866	0	20	111	54	142
4-Methyl-2-Pentanone	1	22.394	0	20	112	41	158
2-Hexanone	1	21.96	0	20	110	39	163
Tetrachloroethene	1	21.603	0	20	108	48	162
Toluene	**1**	**21.6932**	**0**	**20**	**108**	**49**	**153**
1,1,1,2-Tetrachloroethane	1	19.8703	0	20	99	51	140
Chlorobenzene	1	20.6345	0	20	103	43	155

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS113997

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	21.4074	0	20	107	21	181
n-Amyl acetate	1	20.3803	0	20	102	20	182
Bromoform	1	19.8049	0	20	99	47	137
Ethylbenzene	**1**	**22.4315**	**0**	**20**	**112**	**41**	**153**
1,1,2,2-Tetrachloroethane	1	22.4881	0	20	112	36	152
Styrene	1	21.8461	0	20	109	34	170
m&p-Xylenes	1	46.1037	0	40	115	16	184
o-Xylene	1	22.302	0	20	112	31	166
trans-1,4-Dichloro-2-butene	1	19.4231	0	20	97	10	154
1,3-Dichlorobenzene	1	21.0647	0	20	105	46	147
1,4-Dichlorobenzene	1	21.9773	0	20	110	37	156
1,2-Dichlorobenzene	1	21.3185	0	20	107	42	150
Isopropylbenzene	**1**	**22.6372**	**0**	**20**	**113**	**32**	**174**
Cyclohexanone	1	147.2028	0	100	147	10	254
Camphene	1	23.2922	0	20	116	10	172
1,2,3-Trichloropropane	1	19.8022	0	20	99	20	164
2-Chlorotoluene	1	22.3354	0	20	112	43	153
p-Ethyltoluene	1	24.097	0	20	120	36	164
4-Chlorotoluene	1	22.6062	0	20	113	34	160
n-Propylbenzene	1	24.2027	0	20	121	30	176
Bromobenzene	1	22.1589	0	20	111	44	142
1,3,5-Trimethylbenzene	**1**	**22.6627**	**0**	**20**	**113**	**37**	**165**
Butyl methacrylate	1	21.6595	0	20	108	30	169
t-Butylbenzene	1	22.9909	0	20	115	48	162
1,2,4-Trimethylbenzene	**1**	**22.3886**	**0**	**20**	**112**	**38**	**162**
sec-Butylbenzene	1	23.7582	0	20	119	42	164
4-Isopropyltoluene	1	23.4757	0	20	117	40	162
n-Butylbenzene	1	23.4978	0	20	117	30	176
p-Diethylbenzene	1	23.5649	0	20	118	23	179
1,2,4,5-Tetramethylbenzene	1	23.2583	0	20	116	18	177
1,2-Dibromo-3-Chloropropane	1	17.9145	0	20	90	32	154
Camphor	1	108.8021	0	200	54	10	202
Hexachlorobutadiene	1	13.0732	0	20	65	23	181
1,2,4-Trichlorobenzene	1	11.9693	0	20	60	28	169
1,2,3-Trichlorobenzene	1	12.1282	0	20	61	30	172
Naphthalene	1	11.4295	0	20	57	13	191

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS113997

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M193978.D	AD41813-006(50X)(T:MS)	12/16/2023 1:11:00 PM
Non Spike(If applicable):	2M193981.D	AD41813-006(50X)(T)	12/16/2023 2:11:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	0	0	20	0*	16	181
Dichlorodifluoromethane	1	0	0	20	0*	10	202
Chloromethane	1	0	0	20	0*	10	182
Bromomethane	1	0	0	20	0*	10	172
Vinyl Chloride	1	0	0	20	0*	26	176
Chloroethane	1	0	0	20	0*	28	165
Trichlorofluoromethane	1	0	0	20	0*	18	178
Ethyl ether	1	0	0	20	0*	38	155
Furan	1	0	0	20	0*	31	160
1,1,2-Trichloro-1,2,2-trifluoroethane	1	0	0	20	0*	32	178
Methylene Chloride	1	0	0	20	0*	10	225
Acrolein	1	0	0	100	0*	10	183
Acrylonitrile	1	0	0	20	0*	40	164
Iodomethane	1	0	0	20	0*	10	191
Acetone	1	0	0	100	0*	10	237
Carbon Disulfide	1	0	0	20	0*	10	194
t-Butyl Alcohol	1	0	0	100	0*	21	185
n-Hexane	1	0	0	20	0*	43	179
Di-isopropyl-ether	1	0	0	20	0*	47	159
1,1-Dichloroethene	1	0	0	20	0*	42	172
Methyl Acetate	1	0	0	20	0*	10	192
Methyl-t-butyl ether	**1**	**0**	**0**	**20**	**0***	**43**	**154**
1,1-Dichloroethane	1	0	0	20	0*	48	160
trans-1,2-Dichloroethene	1	0	0	20	0*	37	171
Ethyl-t-butyl ether	1	0	0	20	0*	53	149
cis-1,2-Dichloroethene	1	0	0	20	0*	45	161
Bromochloromethane	1	0	0	20	0*	42	170
2,2-Dichloropropane	1	0	0	20	0*	33	173
Ethyl acetate	1	0	0	20	0*	38	156
1,4-Dioxane	1	0	0	1000	0*	18	186
1,1-Dichloropropene	1	0	0	20	0*	51	157
Chloroform	1	0	0	20	0*	47	157
Cyclohexane	1	0	0	20	0*	41	175
1,2-Dichloroethane	1	0	0	20	0*	43	154
2-Butanone	1	0	0	20	0*	20	188
1,1,1-Trichloroethane	1	0	0	20	0*	49	155
Carbon Tetrachloride	1	0	0	20	0*	47	159
Vinyl Acetate	1	0	0	20	0*	31	160
Bromodichloromethane	1	0	0	20	0*	48	152
Methylcyclohexane	1	0	0	20	0*	47	167
Dibromomethane	1	0	0	20	0*	47	153
1,2-Dichloropropane	1	0	0	20	0*	53	153
Trichloroethene	1	0	0	20	0*	45	165
Benzene	**1**	**0**	**0**	**20**	**0***	**41**	**163**
tert-Amyl methyl ether	1	0	0	20	0*	51	146
Iso-propylacetate	1	0	0	20	0*	37	153
Methyl methacrylate	1	0	0	20	0*	40	160
Dibromochloromethane	1	0	0	20	0*	50	144
2-Chloroethylvinylether	1	0	0	20	0*	10	201
cis-1,3-Dichloropropene	1	0	0	20	0*	49	146
trans-1,3-Dichloropropene	1	0	0	20	0*	48	144
Ethyl methacrylate	1	0	0	20	0*	38	160
1,1,2-Trichloroethane	1	0	0	20	0*	52	146
1,2-Dibromoethane	1	0	0	20	0*	55	140
1,3-Dichloropropane	1	0	0	20	0*	54	142
4-Methyl-2-Pentanone	1	0	0	20	0*	41	158
2-Hexanone	1	0	0	20	0*	39	163
Tetrachloroethene	1	0	0	20	0*	48	156
Toluene	**1**	**0**	**0**	**20**	**0***	**49**	**153**
1,1,1,2-Tetrachloroethane	1	0	0	20	0*	51	140
Chlorobenzene	1	0	0	20	0*	43	155

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS113997

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	0	0	20	0*	21	181
n-Amyl acetate	1	0	0	20	0*	20	182
Bromoform	1	0	0	20	0*	47	137
Ethylbenzene	**1**	**0**	**0**	**20**	**0***	**41**	**153**
1,1,2,2-Tetrachloroethane	1	0	0	20	0*	36	152
Styrene	1	0	0	20	0*	34	170
m&p-Xylenes	1	0	0	40	0*	16	184
o-Xylene	1	0	0	20	0*	31	166
trans-1,4-Dichloro-2-butene	1	0	0	20	0*	10	154
1,3-Dichlorobenzene	1	0	0	20	0*	46	147
1,4-Dichlorobenzene	1	0	0	20	0*	37	156
1,2-Dichlorobenzene	1	0	0	20	0*	42	150
Isopropylbenzene	**1**	**0**	**0**	**20**	**0***	**32**	**174**
Cyclohexanone	1	0	0	100	0*	10	254
Camphene	1	0	0	20	0*	10	172
1,2,3-Trichloropropane	1	0	0	20	0*	20	164
2-Chlorotoluene	1	0	0	20	0*	43	153
p-Ethyltoluene	1	0	0	20	0*	36	164
4-Chlorotoluene	1	0	0	20	0*	34	160
n-Propylbenzene	1	0	0	20	0*	36	170
Bromobenzene	1	0	0	20	0*	44	142
1,3,5-Trimethylbenzene	**1**	**0**	**0**	**20**	**0***	**37**	**165**
Butyl methacrylate	1	0	0	20	0*	30	169
t-Butylbenzene	1	0	0	20	0*	48	152
1,2,4-Trimethylbenzene	**1**	**0**	**0**	**20**	**0***	**38**	**162**
sec-Butylbenzene	1	0	0	20	0*	42	164
4-Isopropyltoluene	1	0	0	20	0*	40	162
n-Butylbenzene	1	0	0	20	0*	30	176
p-Diethylbenzene	1	0	0	20	0*	23	179
1,2,4,5-Tetramethylbenzene	1	0	0	20	0*	18	177
1,2-Dibromo-3-Chloropropane	1	0	0	20	0*	32	154
Camphor	1	0	0	200	0*	10	202
Hexachlorobutadiene	1	0	0	20	0*	23	181
1,2,4-Trichlorobenzene	1	0	0	20	0*	28	169
1,2,3-Trichlorobenzene	1	0	0	20	0*	30	172
Naphthalene	1	0	0	20	0*	13	191

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS113997

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M193979.D	AD41813-006(50X)(T:MSD)	12/16/2023 1:31:00 PM
Non Spike(If applicable):	2M193981.D	AD41813-006(50X)(T)	12/16/2023 2:11:00 PM
Inst Blank(If applicable):			

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	0	0	20	0*	16	181
Dichlorodifluoromethane	1	0	0	20	0*	10	202
Chloromethane	1	0	0	20	0*	10	182
Bromomethane	1	0	0	20	0*	10	172
Vinyl Chloride	1	0	0	20	0*	26	176
Chloroethane	1	0	0	20	0*	28	165
Trichlorofluoromethane	1	0	0	20	0*	18	178
Ethyl ether	1	0	0	20	0*	38	155
Furan	1	0	0	20	0*	31	160
1,1,2-Trichloro-1,2,2-trifluoroethane	1	0	0	20	0*	32	178
Methylene Chloride	1	0	0	20	0*	10	225
Acrolein	1	0	0	100	0*	10	183
Acrylonitrile	1	0	0	20	0*	40	164
Iodomethane	1	0	0	20	0*	10	191
Acetone	1	0	0	100	0*	10	237
Carbon Disulfide	1	0	0	20	0*	10	194
t-Butyl Alcohol	1	0	0	100	0*	21	185
n-Hexane	1	0	0	20	0*	43	179
Di-isopropyl-ether	1	0	0	20	0*	47	159
1,1-Dichloroethene	1	0	0	20	0*	42	172
Methyl Acetate	1	0	0	20	0*	10	192
Methyl-t-butyl ether	**1**	**0**	**0**	**20**	**0***	**43**	**154**
1,1-Dichloroethane	1	0	0	20	0*	48	160
trans-1,2-Dichloroethene	1	0	0	20	0*	37	171
Ethyl-t-butyl ether	1	0	0	20	0*	53	149
cis-1,2-Dichloroethene	1	0	0	20	0*	45	161
Bromochloromethane	1	0	0	20	0*	42	170
2,2-Dichloropropane	1	0	0	20	0*	33	173
Ethyl acetate	1	0	0	20	0*	38	156
1,4-Dioxane	1	0	0	1000	0*	18	186
1,1-Dichloropropene	1	0	0	20	0*	51	157
Chloroform	1	0	0	20	0*	47	157
Cyclohexane	1	0	0	20	0*	41	175
1,2-Dichloroethane	1	0	0	20	0*	43	154
2-Butanone	1	0	0	20	0*	20	188
1,1,1-Trichloroethane	1	0	0	20	0*	49	155
Carbon Tetrachloride	1	0	0	20	0*	47	159
Vinyl Acetate	1	0	0	20	0*	31	160
Bromodichloromethane	1	0	0	20	0*	48	152
Methylcyclohexane	1	0	0	20	0*	47	167
Dibromomethane	1	0	0	20	0*	47	153
1,2-Dichloropropane	1	0	0	20	0*	53	153
Trichloroethene	1	0	0	20	0*	45	165
Benzene	**1**	**0**	**0**	**20**	**0***	**41**	**163**
tert-Amyl methyl ether	1	0	0	20	0*	51	146
Iso-propylacetate	1	0	0	20	0*	37	153
Methyl methacrylate	1	0	0	20	0*	40	160
Dibromochloromethane	1	0	0	20	0*	50	144
2-Chloroethylvinylether	1	0	0	20	0*	10	201
cis-1,3-Dichloropropene	1	0	0	20	0*	49	146
trans-1,3-Dichloropropene	1	0	0	20	0*	48	144
Ethyl methacrylate	1	0	0	20	0*	38	160
1,1,2-Trichloroethane	1	0	0	20	0*	52	146
1,2-Dibromoethane	1	0	0	20	0*	55	140
1,3-Dichloropropane	1	0	0	20	0*	54	142
4-Methyl-2-Pentanone	1	0	0	20	0*	41	158
2-Hexanone	1	0	0	20	0*	39	163
Tetrachloroethene	1	0	0	20	0*	48	156
Toluene	**1**	**0**	**0**	**20**	**0***	**49**	**153**
1,1,1,2-Tetrachloroethane	1	0	0	20	0*	51	140
Chlorobenzene	1	0	0	20	0*	43	155

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS113997

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	0	0	20	0*	21	181
n-Amyl acetate	1	0	0	20	0*	20	182
Bromoform	1	0	0	20	0*	47	137
Ethylbenzene	**1**	**0**	**0**	**20**	**0***	**41**	**153**
1,1,2,2-Tetrachloroethane	1	0	0	20	0*	36	152
Styrene	1	0	0	20	0*	34	170
m&p-Xylenes	1	0	0	40	0*	16	184
o-Xylene	1	0	0	20	0*	31	166
trans-1,4-Dichloro-2-butene	1	0	0	20	0*	10	154
1,3-Dichlorobenzene	1	0	0	20	0*	46	147
1,4-Dichlorobenzene	1	0	0	20	0*	37	156
1,2-Dichlorobenzene	1	0	0	20	0*	42	150
Isopropylbenzene	**1**	**0**	**0**	**20**	**0***	**32**	**174**
Cyclohexanone	1	0	0	100	0*	10	254
Camphene	1	0	0	20	0*	10	172
1,2,3-Trichloropropane	1	0	0	20	0*	20	164
2-Chlorotoluene	1	0	0	20	0*	43	153
p-Ethyltoluene	1	0	0	20	0*	36	164
4-Chlorotoluene	1	0	0	20	0*	34	160
n-Propylbenzene	1	0	0	20	0*	36	170
Bromobenzene	1	0	0	20	0*	44	142
1,3,5-Trimethylbenzene	**1**	**0**	**0**	**20**	**0***	**37**	**165**
Butyl methacrylate	1	0	0	20	0*	30	169
t-Butylbenzene	1	0	0	20	0*	48	152
1,2,4-Trimethylbenzene	**1**	**0**	**0**	**20**	**0***	**38**	**162**
sec-Butylbenzene	1	0	0	20	0*	42	164
4-Isopropyltoluene	1	0	0	20	0*	40	162
n-Butylbenzene	1	0	0	20	0*	30	176
p-Diethylbenzene	1	0	0	20	0*	23	179
1,2,4,5-Tetramethylbenzene	1	0	0	20	0*	18	177
1,2-Dibromo-3-Chloropropane	1	0	0	20	0*	32	154
Camphor	1	0	0	200	0*	10	202
Hexachlorobutadiene	1	0	0	20	0*	23	181
1,2,4-Trichlorobenzene	1	0	0	20	0*	28	169
1,2,3-Trichlorobenzene	1	0	0	20	0*	30	172
Naphthalene	1	0	0	20	0*	13	191

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS113997

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M193979.D	AD41813-006(50X)(T:MSD)	12/16/2023 1:31:00 PM
Duplicate(If applicable):	2M193978.D	AD41813-006(50X)(T:MS)	12/16/2023 1:11:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	0	0	NA	78
Dichlorodifluoromethane	1	0	0	NA	62
Chloromethane	1	0	0	NA	67
Bromomethane	1	0	0	NA	65
Vinyl Chloride	1	0	0	NA	55
Chloroethane	1	0	0	NA	59
Trichlorofluoromethane	1	0	0	NA	56
Ethyl ether	1	0	0	NA	55
Furan	1	0	0	NA	55
1,1,2-Trichloro-1,2,2-trifluoroethane	1	0	0	NA	58
Methylene Chloride	1	0	0	NA	36
Acrolein	1	0	0	NA	66
Acrylonitrile	1	0	0	NA	59
Iodomethane	1	0	0	NA	66
Acetone	1	0	0	NA	85
Carbon Disulfide	1	0	0	NA	61
t-Butyl Alcohol	1	0	0	NA	78
n-Hexane	1	0	0	NA	56
Di-isopropyl-ether	1	0	0	NA	54
1,1-Dichloroethene	1	0	0	NA	56
Methyl Acetate	1	0	0	NA	71
Methyl-t-butyl ether	**1**	**0**	**0**	**NA**	**53**
1,1-Dichloroethane	1	0	0	NA	54
trans-1,2-Dichloroethene	1	0	0	NA	54
Ethyl-t-butyl ether	1	0	0	NA	53
cis-1,2-Dichloroethene	1	0	0	NA	53
Bromochloromethane	1	0	0	NA	54
2,2-Dichloropropane	1	0	0	NA	55
Ethyl acetate	1	0	0	NA	56
1,4-Dioxane	1	0	0	NA	95
1,1-Dichloropropene	1	0	0	NA	54
Chloroform	1	0	0	NA	53
Cyclohexane	1	0	0	NA	55
1,2-Dichloroethane	1	0	0	NA	52
2-Butanone	1	0	0	NA	58
1,1,1-Trichloroethane	1	0	0	NA	54
Carbon Tetrachloride	1	0	0	NA	54
Vinyl Acetate	1	0	0	NA	55
Bromodichloromethane	1	0	0	NA	53
Methylcyclohexane	1	0	0	NA	55
Dibromomethane	1	0	0	NA	53
1,2-Dichloropropane	1	0	0	NA	53
Trichloroethene	1	0	0	NA	54
Benzene	**1**	**0**	**0**	**NA**	**52**
tert-Amyl methyl ether	1	0	0	NA	52
Iso-propylacetate	1	0	0	NA	54
Methyl methacrylate	1	0	0	NA	55
Dibromochloromethane	1	0	0	NA	52
2-Chloroethylvinylether	1	0	0	NA	224
cis-1,3-Dichloropropene	1	0	0	NA	53
trans-1,3-Dichloropropene	1	0	0	NA	53
Ethyl methacrylate	1	0	0	NA	55
1,1,2-Trichloroethane	1	0	0	NA	52
1,2-Dibromoethane	1	0	0	NA	52
1,3-Dichloropropane	1	0	0	NA	53
4-Methyl-2-Pentanone	1	0	0	NA	69
2-Hexanone	1	0	0	NA	54
Tetrachloroethene	1	0	0	NA	53
Toluene	**1**	**0**	**0**	**NA**	**53**
1,1,1,2-Tetrachloroethane	1	0	0	NA	53
Chlorobenzene	1	0	0	NA	53

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: MBS113997

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	0	0	NA	72
n-Amyl acetate	1	0	0	NA	72
Bromoform	1	0	0	NA	54
Ethylbenzene	**1**	**0**	**0**	**NA**	**57**
1,1,2,2-Tetrachloroethane	1	0	0	NA	58
Styrene	1	0	0	NA	56
m&p-Xylenes	1	0	0	NA	107
o-Xylene	1	0	0	NA	55
trans-1,4-Dichloro-2-butene	1	0	0	NA	71
1,3-Dichlorobenzene	1	0	0	NA	53
1,4-Dichlorobenzene	1	0	0	NA	68
1,2-Dichlorobenzene	1	0	0	NA	53
Isopropylbenzene	**1**	**0**	**0**	**NA**	**53**
Cyclohexanone	1	0	0	NA	77
Camphene	1	0	0	NA	68
1,2,3-Trichloropropane	1	0	0	NA	54
2-Chlorotoluene	1	0	0	NA	55
p-Ethyltoluene	1	0	0	NA	56
4-Chlorotoluene	1	0	0	NA	55
n-Propylbenzene	1	0	0	NA	51
Bromobenzene	1	0	0	NA	72
1,3,5-Trimethylbenzene	**1**	**0**	**0**	**NA**	**56**
Butyl methacrylate	1	0	0	NA	83
t-Butylbenzene	1	0	0	NA	70
1,2,4-Trimethylbenzene	**1**	**0**	**0**	**NA**	**72**
sec-Butylbenzene	1	0	0	NA	54
4-Isopropyltoluene	1	0	0	NA	69
n-Butylbenzene	1	0	0	NA	55
p-Diethylbenzene	1	0	0	NA	70
1,2,4,5-Tetramethylbenzene	1	0	0	NA	51
1,2-Dibromo-3-Chloropropane	1	0	0	NA	56
Camphor	1	0	0	NA	127
Hexachlorobutadiene	1	0	0	NA	69
1,2,4-Trichlorobenzene	1	0	0	NA	87
1,2,3-Trichlorobenzene	1	0	0	NA	81
Naphthalene	1	0	0	NA	80

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS114002

	Data File	Sample ID:	Analysis Date
Spike or Dup:	1M181781.D	MBS114002	12/15/2023 9:49:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	21.9091	0	20	110	16	181
Dichlorodifluoromethane	1	16.4059	0	20	82	10	202
Chloromethane	1	17.8973	0	20	89	10	182
Bromomethane	1	18.1197	0	20	91	10	172
Vinyl Chloride	1	20.3727	0	20	102	26	176
Chloroethane	1	19.8573	0	20	99	28	165
Trichlorofluoromethane	1	22.5823	0	20	113	18	178
Ethyl ether	1	20.6175	0	20	103	38	155
Furan	1	21.0912	0	20	105	31	160
1,1,2-Trichloro-1,2,2-trifluoroethane	1	20.5451	0	20	103	32	178
Methylene Chloride	1	21.048	0	20	105	10	225
Acrolein	1	135.1156	0	100	135	10	183
Acrylonitrile	1	19.6642	0	20	98	40	164
Iodomethane	1	26.3819	0	20	132	10	191
Acetone	1	104.4511	0	100	104	10	237
Carbon Disulfide	1	20.8093	0	20	104	10	194
t-Butyl Alcohol	1	101.5165	0	100	102	21	185
n-Hexane	1	21.1073	0	20	106	43	179
Di-isopropyl-ether	1	20.5121	0	20	103	47	159
1,1-Dichloroethene	1	22.9688	0	20	115	42	172
Methyl Acetate	1	18.6452	0	20	93	10	192
Methyl-t-butyl ether	**1**	**19.7845**	**0**	**20**	**99**	**43**	**154**
1,1-Dichloroethane	1	22.3248	0	20	112	48	160
trans-1,2-Dichloroethene	1	20.537	0	20	103	37	171
Ethyl-t-butyl ether	1	23.2979	0	20	116	53	149
cis-1,2-Dichloroethene	1	22.5753	0	20	113	45	161
Bromochloromethane	1	22.4702	0	20	112	42	170
2,2-Dichloropropane	1	22.4151	0	20	112	33	173
Ethyl acetate	1	16.8873	0	20	84	38	156
1,4-Dioxane	1	1026.071	0	1000	103	18	186
1,1-Dichloropropene	1	23.1583	0	20	116	51	157
Chloroform	1	21.8183	0	20	109	47	157
Cyclohexane	1	22.8301	0	20	114	41	175
1,2-Dichloroethane	1	19.3563	0	20	97	43	154
2-Butanone	1	22.8592	0	20	114	20	188
1,1,1-Trichloroethane	1	22.1805	0	20	111	49	155
Carbon Tetrachloride	1	18.6709	0	20	93	47	159
Vinyl Acetate	1	21.1687	0	20	106	31	160
Bromodichloromethane	1	20.1003	0	20	101	48	152
Methylcyclohexane	1	22.4474	0	20	112	47	167
Dibromomethane	1	19.8907	0	20	99	47	153
1,2-Dichloropropane	1	21.9738	0	20	110	53	153
Trichloroethene	1	21.9221	0	20	110	45	165
Benzene	**1**	**21.1344**	**0**	**20**	**106**	**41**	**163**
tert-Amyl methyl ether	1	20.7343	0	20	104	51	146
Iso-propylacetate	1	21.1614	0	20	106	37	153
Methyl methacrylate	1	16.2976	0	20	81	40	160
Dibromochloromethane	1	19.6362	0	20	98	50	144
2-Chloroethylvinylether	1	21.8508	0	20	109	10	201
cis-1,3-Dichloropropene	1	20.9738	0	20	105	49	146
trans-1,3-Dichloropropene	1	17.6411	0	20	88	48	144
Ethyl methacrylate	1	21.2744	0	20	106	38	160
1,1,2-Trichloroethane	1	19.7404	0	20	99	52	146
1,2-Dibromoethane	1	20.7557	0	20	104	55	140
1,3-Dichloropropane	1	20.1888	0	20	101	54	142
4-Methyl-2-Pentanone	1	21.0502	0	20	105	41	158
2-Hexanone	1	20.9236	0	20	105	39	163
Tetrachloroethene	1	21.3382	0	20	107	48	162
Toluene	**1**	**20.112**	**0**	**20**	**101**	**49**	**153**
1,1,1,2-Tetrachloroethane	1	19.773	0	20	99	51	140
Chlorobenzene	1	19.8786	0	20	99	43	155

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS114002

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	16.5507	0	20	83	21	181
n-Amyl acetate	1	22.3524	0	20	112	20	182
Bromoform	1	21.592	0	20	108	47	137
Ethylbenzene	**1**	**21.8702**	**0**	**20**	**109**	**41**	**153**
1,1,2,2-Tetrachloroethane	1	22.1133	0	20	111	36	152
Styrene	1	23.5592	0	20	118	34	170
m&p-Xylenes	1	46.7525	0	40	117	16	184
o-Xylene	1	22.5557	0	20	113	31	166
trans-1,4-Dichloro-2-butene	1	21.2185	0	20	106	10	154
1,3-Dichlorobenzene	1	21.5621	0	20	108	46	147
1,4-Dichlorobenzene	1	20.8281	0	20	104	37	156
1,2-Dichlorobenzene	1	20.6416	0	20	103	42	150
Isopropylbenzene	**1**	**25.5784**	**0**	**20**	**128**	**32**	**174**
Cyclohexanone	1	122.8028	0	100	123	10	254
Camphene	1	24.8333	0	20	124	10	172
1,2,3-Trichloropropane	1	20.5668	0	20	103	20	164
2-Chlorotoluene	1	24.7824	0	20	124	43	153
p-Ethyltoluene	1	22.8469	0	20	114	36	164
4-Chlorotoluene	1	21.9796	0	20	110	34	160
n-Propylbenzene	1	23.6408	0	20	118	30	176
Bromobenzene	1	21.9522	0	20	110	44	142
1,3,5-Trimethylbenzene	**1**	**21.5998**	**0**	**20**	**108**	**37**	**165**
Butyl methacrylate	1	21.532	0	20	108	30	169
t-Butylbenzene	1	24.0932	0	20	120	48	162
1,2,4-Trimethylbenzene	**1**	**24.8592**	**0**	**20**	**124**	**38**	**162**
sec-Butylbenzene	1	24.3382	0	20	122	42	164
4-Isopropyltoluene	1	23.7325	0	20	119	40	162
n-Butylbenzene	1	24.3231	0	20	122	30	176
p-Diethylbenzene	1	22.9418	0	20	115	23	179
1,2,4,5-Tetramethylbenzene	1	23.1319	0	20	116	18	177
1,2-Dibromo-3-Chloropropane	1	21.6268	0	20	108	32	154
Camphor	1	230.8742	0	200	115	10	202
Hexachlorobutadiene	1	22.2079	0	20	111	23	181
1,2,4-Trichlorobenzene	1	21.7175	0	20	109	28	169
1,2,3-Trichlorobenzene	1	20.8018	0	20	104	30	172
Naphthalene	1	22.4841	0	20	112	13	191

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS114002

	Data File	Sample ID:	Analysis Date
Spike or Dup:	1M181783.D	AD41932-003(MS)	12/15/2023 10:32:00 P
Non Spike(If applicable):	1M181777.D	AD41932-003	12/15/2023 8:23:00 PM
Inst Blank(If applicable):			

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	17.9925	0	20	90	16	181
Dichlorodifluoromethane	1	13.5754	0	20	68	10	202
Chloromethane	1	15.0994	0	20	75	10	182
Bromomethane	1	16.1111	0	20	81	10	172
Vinyl Chloride	1	16.9358	0	20	85	26	176
Chloroethane	1	16.4417	0	20	82	28	165
Trichlorofluoromethane	1	18.9056	0	20	95	18	178
Ethyl ether	1	17.501	0	20	88	38	155
Furan	1	17.5284	0	20	88	31	160
1,1,2-Trichloro-1,2,2-trifluoroethane	1	17.1432	0	20	86	32	178
Methylene Chloride	1	17.2979	0	20	86	10	225
Acrolein	1	113.5989	0	100	114	10	183
Acrylonitrile	1	16.4337	0	20	82	40	164
Iodomethane	1	22.4823	0	20	112	10	191
Acetone	1	92.7769	0	100	93	10	237
Carbon Disulfide	1	17.4325	0	20	87	10	194
t-Butyl Alcohol	1	87.9053	0	100	88	21	185
n-Hexane	1	17.9803	0	20	90	43	179
Di-isopropyl-ether	1	17.1903	0	20	86	47	159
1,1-Dichloroethene	1	18.9474	0	20	95	42	172
Methyl Acetate	1	15.4184	0	20	77	10	192
Methyl-t-butyl ether	**1**	**21.3598**	**7.8898**	**20**	**67**	**43**	**154**
1,1-Dichloroethane	1	18.3131	0	20	92	48	160
trans-1,2-Dichloroethene	1	18.0367	0	20	90	37	171
Ethyl-t-butyl ether	1	19.7759	0	20	99	53	149
cis-1,2-Dichloroethene	1	18.8968	0	20	94	45	161
Bromochloromethane	1	19.2285	0	20	96	42	170
2,2-Dichloropropane	1	19.939	0	20	100	33	173
Ethyl acetate	1	13.6081	0	20	68	38	156
1,4-Dioxane	1	865.0073	0	1000	87	18	186
1,1-Dichloropropene	1	19.4636	0	20	97	51	157
Chloroform	1	18.3287	0	20	92	47	157
Cyclohexane	1	18.7515	0	20	94	41	175
1,2-Dichloroethane	1	16.6951	0	20	83	43	154
2-Butanone	1	20.2643	0	20	101	20	188
1,1,1-Trichloroethane	1	18.8572	0	20	94	49	155
Carbon Tetrachloride	1	15.6788	0	20	78	47	159
Vinyl Acetate	1	17.9487	0	20	90	31	160
Bromodichloromethane	1	17.6708	0	20	88	48	152
Methylcyclohexane	1	18.6805	0	20	93	47	167
Dibromomethane	1	16.3489	0	20	82	47	153
1,2-Dichloropropane	1	18.1187	0	20	91	53	153
Trichloroethene	1	18.2725	0	20	91	45	165
Benzene	**1**	**17.9156**	**0**	**20**	**90**	**41**	**163**
tert-Amyl methyl ether	1	17.6477	0	20	88	51	146
Iso-propylacetate	1	17.413	0	20	87	37	153
Methyl methacrylate	1	16.7902	0	20	84	40	160
Dibromochloromethane	1	16.6389	0	20	83	50	144
2-Chloroethylvinylether	1	17.6271	0	20	88	10	201
cis-1,3-Dichloropropene	1	16.9787	0	20	85	49	146
trans-1,3-Dichloropropene	1	15.1444	0	20	76	48	144
Ethyl methacrylate	1	17.8582	0	20	89	38	160
1,1,2-Trichloroethane	1	16.2214	0	20	81	52	146
1,2-Dibromoethane	1	17.3719	0	20	87	55	140
1,3-Dichloropropane	1	16.7128	0	20	84	54	142
4-Methyl-2-Pentanone	1	17.4935	0	20	87	41	158
2-Hexanone	1	17.6085	0	20	88	39	163
Tetrachloroethene	1	17.089	0	20	85	48	156
Toluene	**1**	**16.8981**	**0**	**20**	**84**	**49**	**153**
1,1,1,2-Tetrachloroethane	1	16.8218	0	20	84	51	140
Chlorobenzene	1	16.5375	0	20	83	43	155

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS114002

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	14.6981	0	20	73	21	181
n-Amyl acetate	1	19.1774	0	20	96	20	182
Bromoform	1	19.1378	0	20	96	47	137
Ethylbenzene	**1**	**18.3757**	**0**	**20**	**92**	**41**	**153**
1,1,2,2-Tetrachloroethane	1	18.9409	0	20	95	36	152
Styrene	1	20.1204	0	20	101	34	170
m&p-Xylenes	1	40.6627	0	40	102	16	184
o-Xylene	1	19.6583	0	20	98	31	166
trans-1,4-Dichloro-2-butene	1	17.9075	0	20	90	10	154
1,3-Dichlorobenzene	1	18.6018	0	20	93	46	147
1,4-Dichlorobenzene	1	17.9633	0	20	90	37	156
1,2-Dichlorobenzene	1	17.9387	0	20	90	42	150
Isopropylbenzene	**1**	**22.123**	**0**	**20**	**111**	**32**	**174**
Cyclohexanone	1	117.9043	0	100	118	10	254
Camphene	1	20.1477	0	20	101	10	172
1,2,3-Trichloropropane	1	17.9632	0	20	90	20	164
2-Chlorotoluene	1	21.2862	0	20	106	43	153
p-Ethyltoluene	1	19.6901	0	20	98	36	164
4-Chlorotoluene	1	18.8478	0	20	94	34	160
n-Propylbenzene	1	20.232	0	20	101	36	170
Bromobenzene	1	18.8241	0	20	94	44	142
1,3,5-Trimethylbenzene	**1**	**18.1081**	**0**	**20**	**91**	**37**	**165**
Butyl methacrylate	1	19.1675	0	20	96	30	169
t-Butylbenzene	1	19.9219	0	20	100	48	152
1,2,4-Trimethylbenzene	**1**	**21.137**	**0**	**20**	**106**	**38**	**162**
sec-Butylbenzene	1	20.2947	0	20	101	42	164
4-Isopropyltoluene	1	20.2639	0	20	101	40	162
n-Butylbenzene	1	20.2548	0	20	101	30	176
p-Diethylbenzene	1	19.524	0	20	98	23	179
1,2,4,5-Tetramethylbenzene	1	19.4597	0	20	97	18	177
1,2-Dibromo-3-Chloropropane	1	18.7895	0	20	94	32	154
Camphor	1	206.1274	0	200	103	10	202
Hexachlorobutadiene	1	20.289	0	20	101	23	181
1,2,4-Trichlorobenzene	1	19.5339	0	20	98	28	169
1,2,3-Trichlorobenzene	1	21.1252	0	20	106	30	172
Naphthalene	1	21.6406	0	20	108	13	191

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS114002

	Data File	Sample ID:	Analysis Date
Spike or Dup:	1M181784.D	AD41932-003(MSD)	12/15/2023 10:53:00 P
Non Spike(If applicable):	1M181777.D	AD41932-003	12/15/2023 8:23:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	20.8852	0	20	104	16	181
Dichlorodifluoromethane	1	13.563	0	20	68	10	202
Chloromethane	1	14.811	0	20	74	10	182
Bromomethane	1	15.7086	0	20	79	10	172
Vinyl Chloride	1	17.3066	0	20	87	26	176
Chloroethane	1	16.602	0	20	83	28	165
Trichlorofluoromethane	1	18.8463	0	20	94	18	178
Ethyl ether	1	18.2722	0	20	91	38	155
Furan	1	18.24	0	20	91	31	160
1,1,2-Trichloro-1,2,2-trifluoroethane	1	17.3389	0	20	87	32	178
Methylene Chloride	1	17.574	0	20	88	10	225
Acrolein	1	115.9459	0	100	116	10	183
Acrylonitrile	1	17.5487	0	20	88	40	164
Iodomethane	1	23.566	0	20	118	10	191
Acetone	1	87.4301	0	100	87	10	237
Carbon Disulfide	1	18.22	0	20	91	10	194
t-Butyl Alcohol	1	87.6754	0	100	88	21	185
n-Hexane	1	18.7088	0	20	94	43	179
Di-isopropyl-ether	1	17.4903	0	20	87	47	159
1,1-Dichloroethene	1	19.8003	0	20	99	42	172
Methyl Acetate	1	15.2774	0	20	76	10	192
Methyl-t-butyl ether	**1**	**25.271**	**7.8898**	**20**	**87**	**43**	**154**
1,1-Dichloroethane	1	18.9704	0	20	95	48	160
trans-1,2-Dichloroethene	1	18.4699	0	20	92	37	171
Ethyl-t-butyl ether	1	20.3177	0	20	102	53	149
cis-1,2-Dichloroethene	1	19.2503	0	20	96	45	161
Bromochloromethane	1	19.4376	0	20	97	42	170
2,2-Dichloropropane	1	20.7662	0	20	104	33	173
Ethyl acetate	1	13.9291	0	20	70	38	156
1,4-Dioxane	1	881.7555	0	1000	88	18	186
1,1-Dichloropropene	1	19.7661	0	20	99	51	157
Chloroform	1	18.5209	0	20	93	47	157
Cyclohexane	1	19.1458	0	20	96	41	175
1,2-Dichloroethane	1	16.8751	0	20	84	43	154
2-Butanone	1	20.0637	0	20	100	20	188
1,1,1-Trichloroethane	1	18.9138	0	20	95	49	155
Carbon Tetrachloride	1	16.2387	0	20	81	47	159
Vinyl Acetate	1	18.674	0	20	93	31	160
Bromodichloromethane	1	17.9521	0	20	90	48	152
Methylcyclohexane	1	19.0394	0	20	95	47	167
Dibromomethane	1	17.1264	0	20	86	47	153
1,2-Dichloropropane	1	18.9472	0	20	95	53	153
Trichloroethene	1	18.232	0	20	91	45	165
Benzene	**1**	**18.3356**	**0**	**20**	**92**	**41**	**163**
tert-Amyl methyl ether	1	17.7544	0	20	89	51	146
Iso-propylacetate	1	17.7234	0	20	89	37	153
Methyl methacrylate	1	16.8839	0	20	84	40	160
Dibromochloromethane	1	16.7172	0	20	84	50	144
2-Chloroethylvinylether	1	18.1467	0	20	91	10	201
cis-1,3-Dichloropropene	1	17.5572	0	20	88	49	146
trans-1,3-Dichloropropene	1	15.3164	0	20	77	48	144
Ethyl methacrylate	1	17.4821	0	20	87	38	160
1,1,2-Trichloroethane	1	16.1134	0	20	81	52	146
1,2-Dibromoethane	1	17.3498	0	20	87	55	140
1,3-Dichloropropane	1	17.1316	0	20	86	54	142
4-Methyl-2-Pentanone	1	17.0821	0	20	85	41	158
2-Hexanone	1	17.4196	0	20	87	39	163
Tetrachloroethene	1	17.8533	0	20	89	48	156
Toluene	**1**	**17.075**	**0**	**20**	**85**	**49**	**153**
1,1,1,2-Tetrachloroethane	1	16.9249	0	20	85	51	140
Chlorobenzene	1	16.7104	0	20	84	43	155

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS114002

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	14.0868	0	20	70	21	181
n-Amyl acetate	1	18.7605	0	20	94	20	182
Bromoform	1	18.5424	0	20	93	47	137
Ethylbenzene	**1**	**18.4534**	**0**	**20**	**92**	**41**	**153**
1,1,2,2-Tetrachloroethane	1	18.362	0	20	92	36	152
Styrene	1	19.8906	0	20	99	34	170
m&p-Xylenes	1	39.2293	0	40	98	16	184
o-Xylene	1	19.4443	0	20	97	31	166
trans-1,4-Dichloro-2-butene	1	17.9815	0	20	90	10	154
1,3-Dichlorobenzene	1	18.095	0	20	90	46	147
1,4-Dichlorobenzene	1	17.8333	0	20	89	37	156
1,2-Dichlorobenzene	1	17.4374	0	20	87	42	150
Isopropylbenzene	**1**	**21.8962**	**0**	**20**	**109**	**32**	**174**
Cyclohexanone	1	106.3384	0	100	106	10	254
Camphene	1	20.6029	0	20	103	10	172
1,2,3-Trichloropropane	1	17.6661	0	20	88	20	164
2-Chlorotoluene	1	20.8443	0	20	104	43	153
p-Ethyltoluene	1	19.5057	0	20	98	36	164
4-Chlorotoluene	1	18.4623	0	20	92	34	160
n-Propylbenzene	1	20.1179	0	20	101	36	170
Bromobenzene	1	18.4127	0	20	92	44	142
1,3,5-Trimethylbenzene	**1**	**18.424**	**0**	**20**	**92**	**37**	**165**
Butyl methacrylate	1	18.6382	0	20	93	30	169
t-Butylbenzene	1	19.7669	0	20	99	48	152
1,2,4-Trimethylbenzene	**1**	**20.7274**	**0**	**20**	**104**	**38**	**162**
sec-Butylbenzene	1	20.6067	0	20	103	42	164
4-Isopropyltoluene	1	19.6881	0	20	98	40	162
n-Butylbenzene	1	20.8382	0	20	104	30	176
p-Diethylbenzene	1	19.3889	0	20	97	23	179
1,2,4,5-Tetramethylbenzene	1	19.5798	0	20	98	18	177
1,2-Dibromo-3-Chloropropane	1	18.6209	0	20	93	32	154
Camphor	1	199.3055	0	200	100	10	202
Hexachlorobutadiene	1	19.9855	0	20	100	23	181
1,2,4-Trichlorobenzene	1	19.9579	0	20	100	28	169
1,2,3-Trichlorobenzene	1	21.0756	0	20	105	30	172
Naphthalene	1	21.4561	0	20	107	13	191

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS114002

	Data File	Sample ID:	Analysis Date
Spike or Dup:	1M181784.D	AD41932-003(MSD)	12/15/2023 10:53:00 P
Duplicate(If applicable):	1M181783.D	AD41932-003(MS)	12/15/2023 10:32:00 P
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	20.8852	17.9925	15	78
Dichlorodifluoromethane	1	13.563	13.5754	0.09	62
Chloromethane	1	14.811	15.0994	1.9	67
Bromomethane	1	15.7086	16.1111	2.5	65
Vinyl Chloride	1	17.3066	16.9358	2.2	55
Chloroethane	1	16.602	16.4417	0.97	59
Trichlorofluoromethane	1	18.8463	18.9056	0.31	56
Ethyl ether	1	18.2722	17.501	4.3	55
Furan	1	18.24	17.5284	4	55
1,1,2-Trichloro-1,2,2-trifluoroethane	1	17.3389	17.1432	1.1	58
Methylene Chloride	1	17.574	17.2979	1.6	36
Acrolein	1	115.9459	113.5989	2	66
Acrylonitrile	1	17.5487	16.4337	6.6	59
Iodomethane	1	23.566	22.4823	4.7	66
Acetone	1	87.4301	92.7769	5.9	85
Carbon Disulfide	1	18.22	17.4325	4.4	61
t-Butyl Alcohol	1	87.6754	87.9053	0.26	78
n-Hexane	1	18.7088	17.9803	4	56
Di-isopropyl-ether	1	17.4903	17.1903	1.7	54
1,1-Dichloroethene	1	19.8003	18.9474	4.4	56
Methyl Acetate	1	15.2774	15.4184	0.92	71
Methyl-t-butyl ether	**1**	**25.271**	**21.3598**	**17**	**53**
1,1-Dichloroethane	1	18.9704	18.3131	3.5	54
trans-1,2-Dichloroethene	1	18.4699	18.0367	2.4	54
Ethyl-t-butyl ether	1	20.3177	19.7759	2.7	53
cis-1,2-Dichloroethene	1	19.2503	18.8968	1.9	53
Bromochloromethane	1	19.4376	19.2285	1.1	54
2,2-Dichloropropane	1	20.7662	19.939	4.1	55
Ethyl acetate	1	13.9291	13.6081	2.3	56
1,4-Dioxane	1	881.7555	865.0073	1.9	95
1,1-Dichloropropene	1	19.7661	19.4636	1.5	54
Chloroform	1	18.5209	18.3287	1	53
Cyclohexane	1	19.1458	18.7515	2.1	55
1,2-Dichloroethane	1	16.8751	16.6951	1.1	52
2-Butanone	1	20.0637	20.2643	0.99	58
1,1,1-Trichloroethane	1	18.9138	18.8572	0.3	54
Carbon Tetrachloride	1	16.2387	15.6788	3.5	54
Vinyl Acetate	1	18.674	17.9487	4	55
Bromodichloromethane	1	17.9521	17.6708	1.6	53
Methylcyclohexane	1	19.0394	18.6805	1.9	55
Dibromomethane	1	17.1264	16.3489	4.6	53
1,2-Dichloropropane	1	18.9472	18.1187	4.5	53
Trichloroethene	1	18.232	18.2725	0.22	54
Benzene	**1**	**18.3356**	**17.9156**	**2.3**	**52**
tert-Amyl methyl ether	1	17.7544	17.6477	0.6	52
Iso-propylacetate	1	17.7234	17.413	1.8	54
Methyl methacrylate	1	16.8839	16.7902	0.56	55
Dibromochloromethane	1	16.7172	16.6389	0.47	52
2-Chloroethylvinylether	1	18.1467	17.6271	2.9	224
cis-1,3-Dichloropropene	1	17.5572	16.9787	3.4	53
trans-1,3-Dichloropropene	1	15.3164	15.1444	1.1	53
Ethyl methacrylate	1	17.4821	17.8582	2.1	55
1,1,2-Trichloroethane	1	16.1134	16.2214	0.67	52
1,2-Dibromoethane	1	17.3498	17.3719	0.13	52
1,3-Dichloropropane	1	17.1316	16.7128	2.5	53
4-Methyl-2-Pentanone	1	17.0821	17.4935	2.4	69
2-Hexanone	1	17.4196	17.6085	1.1	54
Tetrachloroethene	1	17.8533	17.089	4.4	53
Toluene	**1**	**17.075**	**16.8981**	**1**	**53**
1,1,1,2-Tetrachloroethane	1	16.9249	16.8218	0.61	53
Chlorobenzene	1	16.7104	16.5375	1	53

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: MBS114002

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	14.0868	14.6981	4.2	72
n-Amyl acetate	1	18.7605	19.1774	2.2	72
Bromoform	1	18.5424	19.1378	3.2	54
Ethylbenzene	**1**	**18.4534**	**18.3757**	**0.42**	**57**
1,1,2,2-Tetrachloroethane	1	18.362	18.9409	3.1	58
Styrene	1	19.8906	20.1204	1.1	56
m&p-Xylenes	1	39.2293	40.6627	3.6	107
o-Xylene	1	19.4443	19.6583	1.1	55
trans-1,4-Dichloro-2-butene	1	17.9815	17.9075	0.41	71
1,3-Dichlorobenzene	1	18.095	18.6018	2.8	53
1,4-Dichlorobenzene	1	17.8333	17.9633	0.73	68
1,2-Dichlorobenzene	1	17.4374	17.9387	2.8	53
Isopropylbenzene	**1**	**21.8962**	**22.123**	**1**	**53**
Cyclohexanone	1	106.3384	117.9043	10	77
Camphene	1	20.6029	20.1477	2.2	68
1,2,3-Trichloropropane	1	17.6661	17.9632	1.7	54
2-Chlorotoluene	1	20.8443	21.2862	2.1	55
p-Ethyltoluene	1	19.5057	19.6901	0.94	56
4-Chlorotoluene	1	18.4623	18.8478	2.1	55
n-Propylbenzene	1	20.1179	20.232	0.57	51
Bromobenzene	1	18.4127	18.8241	2.2	72
1,3,5-Trimethylbenzene	**1**	**18.424**	**18.1081**	**1.7**	**56**
Butyl methacrylate	1	18.6382	19.1675	2.8	83
t-Butylbenzene	1	19.7669	19.9219	0.78	70
1,2,4-Trimethylbenzene	**1**	**20.7274**	**21.137**	**2**	**72**
sec-Butylbenzene	1	20.6067	20.2947	1.5	54
4-Isopropyltoluene	1	19.6881	20.2639	2.9	69
n-Butylbenzene	1	20.8382	20.2548	2.8	55
p-Diethylbenzene	1	19.3889	19.524	0.69	70
1,2,4,5-Tetramethylbenzene	1	19.5798	19.4597	0.62	51
1,2-Dibromo-3-Chloropropane	1	18.6209	18.7895	0.9	56
Camphor	1	199.3055	206.1274	3.4	127
Hexachlorobutadiene	1	19.9855	20.289	1.5	69
1,2,4-Trichlorobenzene	1	19.9579	19.5339	2.1	87
1,2,3-Trichlorobenzene	1	21.0756	21.1252	0.24	81
Naphthalene	1	21.4561	21.6406	0.86	80

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 6M177157.D
Matrix: Soil

Blank Analysis Date: 12/14/23 12:04
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

Sample Number	Data File	Analysis Date
AD41925-001	6M177179.D	12/14/23 20:05
AD41925-002	6M177171.D	12/14/23 17:10
AD41925-003	6M177172.D	12/14/23 17:32
AD41925-005	6M177173.D	12/14/23 17:54
AD41925-006	6M177174.D	12/14/23 18:16
AD41925-007	6M177175.D	12/14/23 18:38
AD41925-008	6M177176.D	12/14/23 18:59
AD41925-009	6M177177.D	12/14/23 19:21
AD41925-010	6M177180.D	12/14/23 20:27
AD41925-012	6M177178.D	12/14/23 19:43
AD41861-005(MS)	6M177162.D	12/14/23 13:53
AD41861-005(MSD	6M177163.D	12/14/23 14:15
MBS113983	6M177164.D	12/14/23 14:37
AD41861-005	6M177166.D	12/14/23 15:21

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 11M118361.D
Matrix: Methanol

Blank Analysis Date: 12/15/23 12:45
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

Sample Number	Data File	Analysis Date
AD41925-004	11M118365.D	12/15/23 14:06
AD41925-011	11M118366.D	12/15/23 14:26
MBS113993	11M118369.D	12/15/23 15:25
AD41925-010(MSD	11M118370.D	12/15/23 15:45
AD41925-010	11M118373.D	12/15/23 16:45
AD41925-010(MS)	11M118367.D	12/15/23 14:45

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 1M181776.D
Matrix: Aqueous

Blank Analysis Date: 12/15/23 20:02
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

Sample Number	Data File	Analysis Date
AD41925-014	1M181789.D	12/16/23 00:40
AD41925-015	1M181788.D	12/16/23 00:19
AD41932-003	1M181777.D	12/15/23 20:23
MBS114002	1M181781.D	12/15/23 21:49
AD41932-003(MS)	1M181783.D	12/15/23 22:32
AD41932-003(MSD	1M181784.D	12/15/23 22:53

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 2M193970.D
Matrix: Aqueous

Blank Analysis Date: 12/16/23 10:31
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

Sample Number	Data File	Analysis Date
AD41925-013	2M193996.D	12/16/23 19:10
MBS113997	2M193976.D	12/16/23 12:31
AD41813-006(50X)	2M193978.D	12/16/23 13:11
AD41813-006(50X)	2M193979.D	12/16/23 13:31
AD41813-006(50X)	2M193981.D	12/16/23 14:11

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 2
Data File: 2M192648.D
Analysis Date: 11/16/23 13:54
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.336 to 7.342 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	15.4	5752	PASS
75	95	30	60	50.3	18807	PASS
95	95	100	100	100.0	37424	PASS
96	95	5	9	8.0	3003	PASS
173	174	0.00	2	1.8	510	PASS
174	95	50	100	73.8	27617	PASS
175	174	5	9	8.2	2251	PASS
176	174	95	101	96.1	26545	PASS
177	176	5	9	6.7	1768	PASS

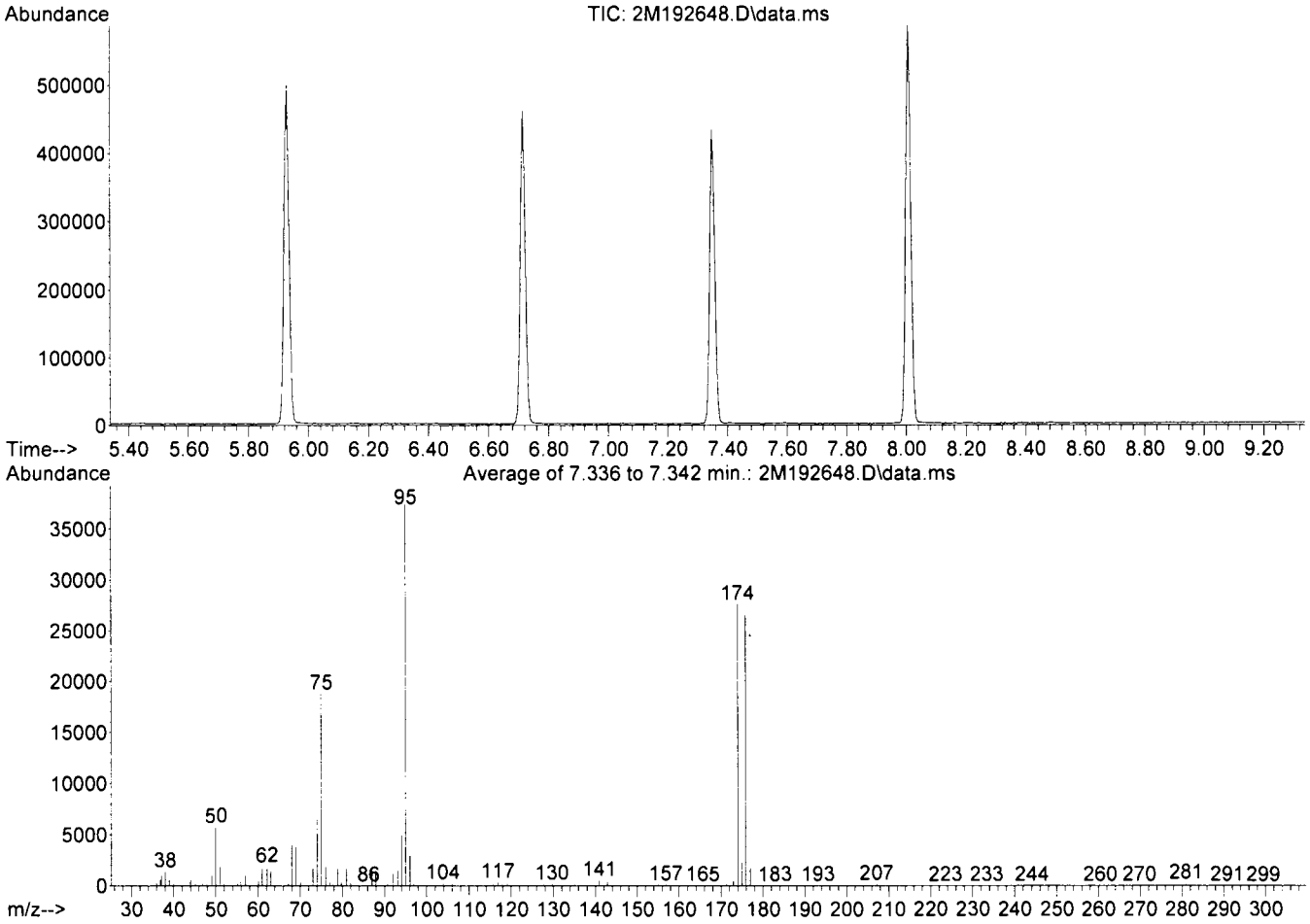
Data File	Sample Number	Analysis Date:
2M192650.D	CAL @ 0.5 PPB	11/16/23 14:29
2M192651.D	CAL @ 1 PPB	11/16/23 14:49
2M192652.D	CAL @ 5 PPB	11/16/23 15:09
2M192654.D	CAL @ 10 PPB	11/16/23 15:49
2M192656.D	CAL @ 20 PPB	11/16/23 16:29
2M192659.D	CAL @ 50 PPB	11/16/23 17:28
2M192662.D	CAL @ 100 PPB	11/16/23 18:28
2M192665.D	CAL @ 250 PPB	11/16/23 19:27
2M192669.D	CAL @ 500 PPB	11/16/23 20:47
2M192676.D	ICV	11/16/23 23:07

CLPBFB

Data Path : G:\GcMsData\2023\GCMS_2\Data\11-16-23\
Data File : 2M192648.D
Acq On : 16 Nov 2023 13:54
Operator : JR
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2023\GCMS_2\MethodQt\2M_A1116.M
Title : @GCMS_2,ug,624,8260
Last Update : Fri Nov 17 13:06:37 2023



Spectrum Information: Average of 7.336 to 7.342 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.4	5752	PASS
75	95	30	60	50.3	18807	PASS
95	95	100	100	100.0	37424	PASS
96	95	5	9	8.0	3003	PASS
173	174	0.00	2	1.8	510	PASS
174	95	50	100	73.8	27617	PASS
175	174	5	9	8.2	2251	PASS
176	174	95	101	96.1	26545	PASS
177	176	5	9	6.7	1768	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 6
Data File: 6M176455.D
Analysis Date: 11/27/23 22:19
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.360 to 7.372 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	25.3	4314	PASS
75	95	30	60	52.5	8950	PASS
95	95	100	100	100.0	17057	PASS
96	95	5	9	6.0	1025	PASS
173	174	0.00	2	1.2	188	PASS
174	95	50	100	88.9	15169	PASS
175	174	5	9	6.2	942	PASS
176	174	95	101	95.1	14429	PASS
177	176	5	9	7.1	1020	PASS

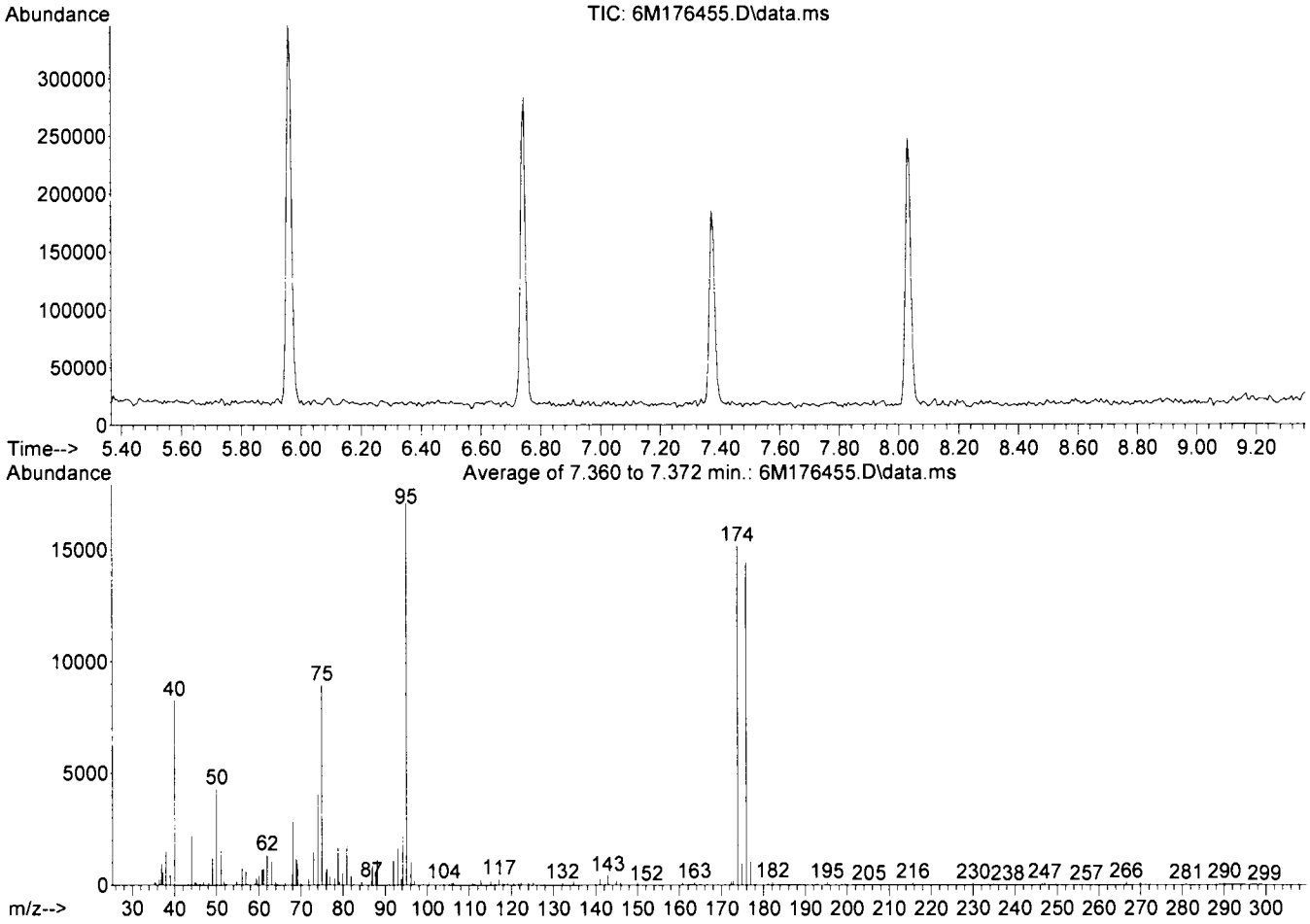
Data File	Sample Number	Analysis Date:
6M176458.D	CAL @ 0.5 PPB	11/27/23 23:18
6M176459.D	CAL @ 1 PPB	11/27/23 23:40
6M176460.D	CAL @ 2 PPB	11/28/23 00:02
6M176461.D	CAL @ 5 PPB	11/28/23 00:23
6M176462.D	CAL @ 20 PPB	11/28/23 00:45
6M176463.D	CAL @ 50 PPB	11/28/23 01:07
6M176465.D	CAL @ 100 PPB	11/28/23 01:51
6M176467.D	CAL @ 250 PPB	11/28/23 02:35
6M176470.D	CAL @ 500 PPB	11/28/23 03:41
6M176475.D	ICV	11/28/23 05:31
6M176480.D	DAILY BLANK	11/28/23 07:21
6M176481.D	MDL @ 1 PPB	11/28/23 07:43
6M176482.D	MDL @ 1 PPB	11/28/23 08:05
6M176483.D	MDL @ 1 PPB	11/28/23 08:26
6M176484.D	MDL @ 1 PPB	11/28/23 08:48

CLPBFB

Data Path : G:\GcMsData\2023\GCMS_6\Data\11-27-23\
Data File : 6M176455.D
Acq On : 27 Nov 2023 22:19
Operator : WP
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 18 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2023\GCMS_6\MethodQt\6M_S1127.M
Title : @GCMS_6,ug,624,8260
Last Update : Tue Nov 28 11:17:18 2023



Spectrum Information: Average of 7.360 to 7.372 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.3	4314	PASS
75	95	30	60	52.5	8950	PASS
95	95	100	100	100.0	17057	PASS
96	95	5	9	6.0	1025	PASS
173	174	0.00	2	1.2	188	PASS
174	95	50	100	88.9	15169	PASS
175	174	5	9	6.2	942	PASS
176	174	95	101	95.1	14429	PASS
177	176	5	9	7.1	1020	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 11
Data File: 11M117818.
Analysis Date: 12/01/23 23:03
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.144 to 7.154 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	15.2	4145	PASS
75	95	30	60	43.5	11868	PASS
95	95	100	100	100.0	27303	PASS
96	95	5	9	7.1	1952	PASS
173	174	0.00	2	0.5	116	PASS
174	95	50	100	91.7	25031	PASS
175	174	5	9	7.7	1920	PASS
176	174	95	101	96.0	24028	PASS
177	176	5	9	7.2	1724	PASS

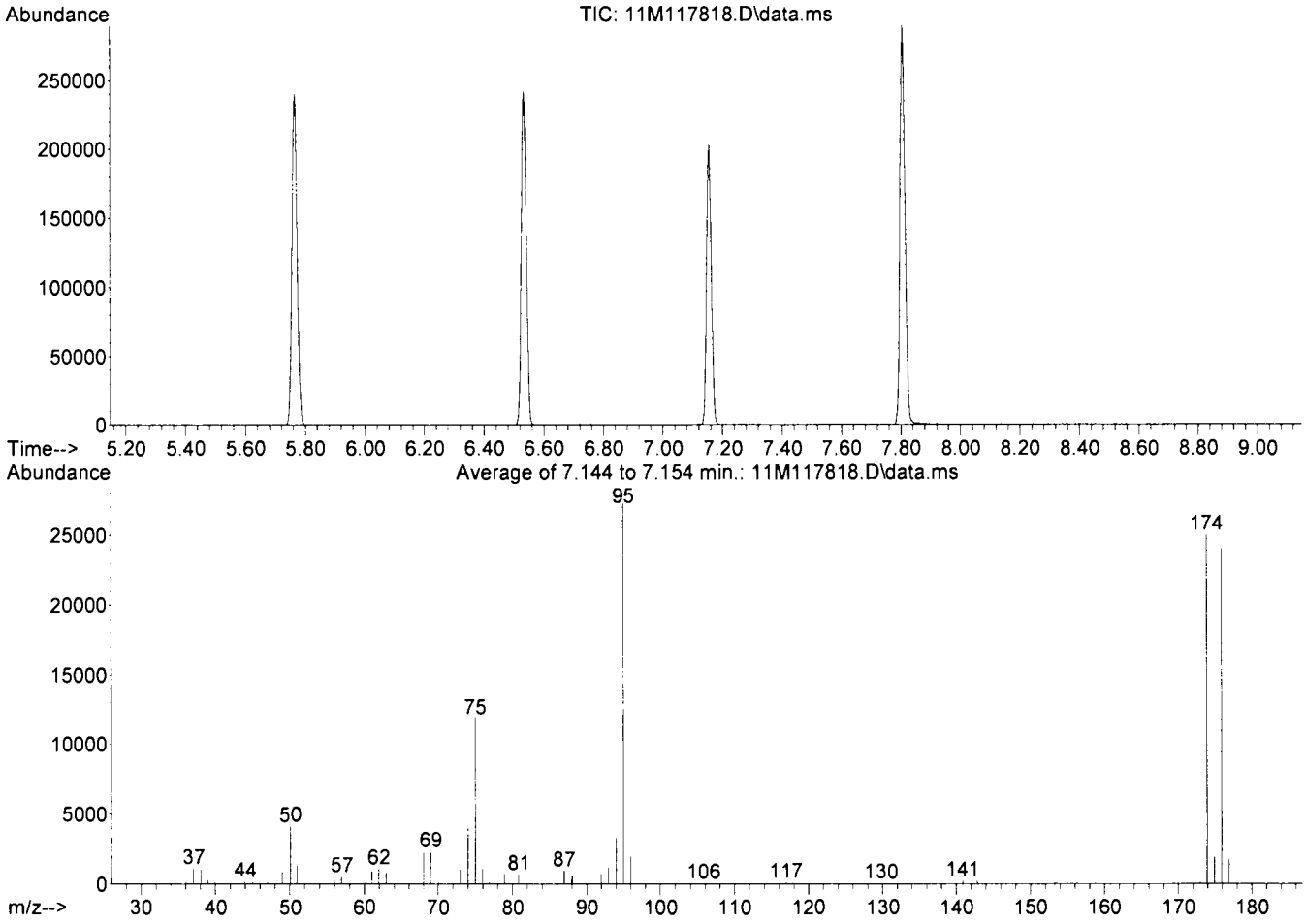
Data File	Sample Number	Analysis Date:
11M117820.D	1 PPB	12/01/23 23:47
11M117823.D	CAL @ 0.5 PPB	12/02/23 00:48
11M117824.D	CAL @ 1 PPB	12/02/23 01:08
11M117825.D	CAL @ 5 PPB	12/02/23 01:28
11M117826.D	CAL @ 10 PPB	12/02/23 01:48
11M117827.D	CAL @ 20 PPB	12/02/23 02:09
11M117829.D	CAL @ 50 PPB	12/02/23 02:49
11M117832.D	CAL @ 100 PPB	12/02/23 03:49
11M117836.D	CAL @ 250 PPB	12/02/23 05:09
11M117841.D	500 PPB	12/02/23 06:49
11M117848.D	STD	12/02/23 09:10
11M117849.D	ICV	12/02/23 09:30

CLPBFB

Data Path : G:\GcMsData\2023\GCMS_11\Data\12-01-23\
Data File : 11M117818.D
Acq On : 1 Dec 2023 23:03
Operator : WP
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 10 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2023\GCMS_2\MethodQt\2M_A1116.M
Title : @GCMS_2,ug,624,8260
Last Update : Fri Nov 17 13:06:37 2023



Spectrum Information: Average of 7.144 to 7.154 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.2	4145	PASS
75	95	30	60	43.5	11868	PASS
95	95	100	100	100.0	27303	PASS
96	95	5	9	7.1	1952	PASS
173	174	0.00	2	0.5	116	PASS
174	95	50	100	91.7	25031	PASS
175	174	5	9	7.7	1920	PASS
176	174	95	101	96.0	24028	PASS
177	176	5	9	7.2	1724	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 1
Data File: 1M181427.D
Analysis Date: 12/06/23 18:50
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.521 to 7.558 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	18.7	5279	PASS
75	95	30	60	52.6	14881	PASS
95	95	100	100	100.0	28283	PASS
96	95	5	9	7.5	2117	PASS
173	174	0.00	2	1.5	417	PASS
174	95	50	100	98.6	27877	PASS
175	174	5	9	8.0	2217	PASS
176	174	95	101	96.0	26767	PASS
177	176	5	9	6.6	1761	PASS

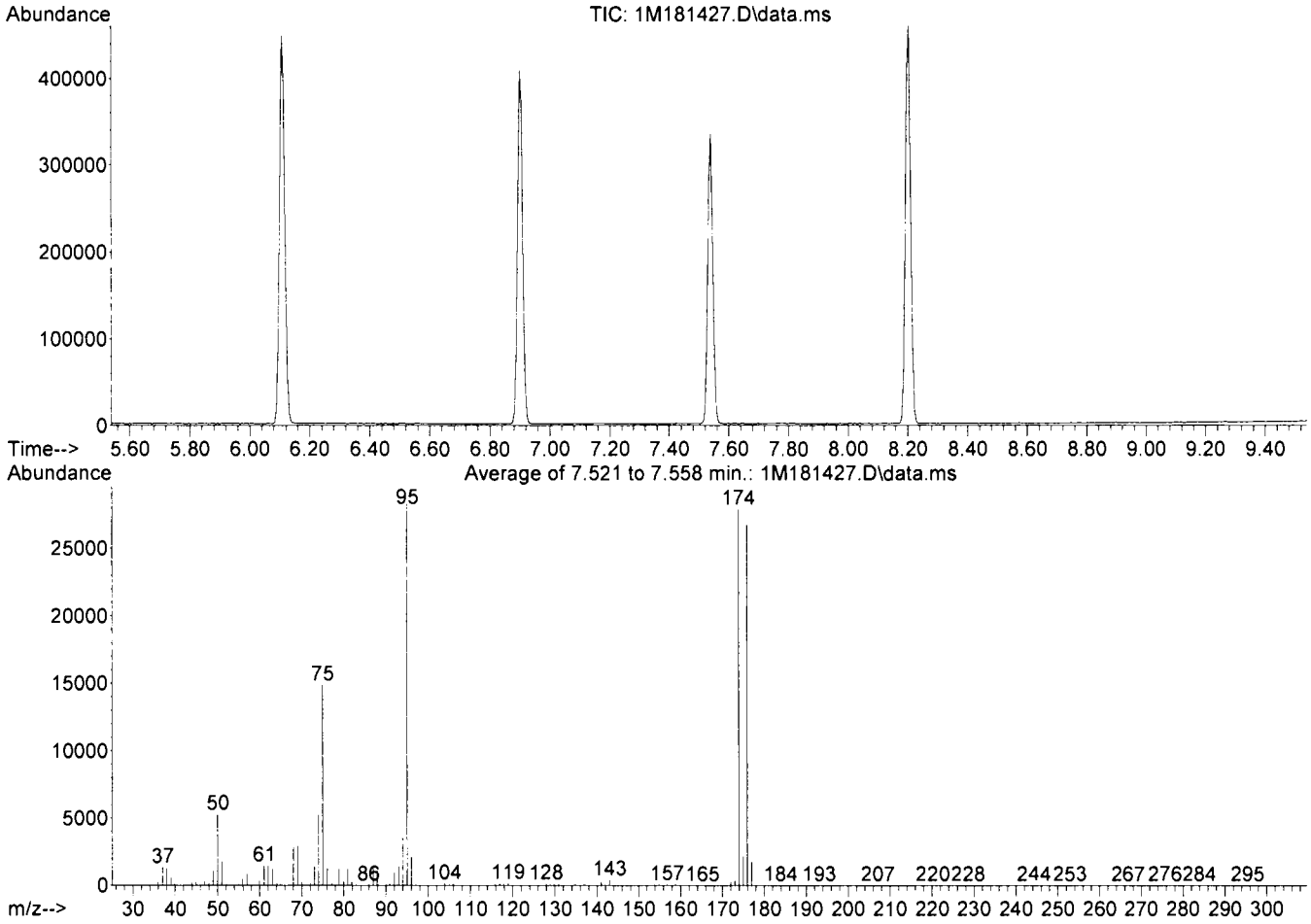
Data File	Sample Number	Analysis Date:
1M181428.D	20 PPB	12/06/23 19:05
1M181429.D	CAL @ 20 PPB	12/06/23 19:26
1M181432.D	20 PPB	12/06/23 20:21
1M181435.D	41778-001(50X)	12/06/23 21:26
1M181440.D	CAL @ 0.5 PPB	12/06/23 23:04
1M181441.D	CAL @ 1 PPB	12/06/23 23:25
1M181442.D	CAL @ 5 PPB	12/06/23 23:47
1M181443.D	CAL @ 10 PPB	12/07/23 00:08
1M181445.D	20 PPB	12/07/23 00:51
1M181447.D	CAL @ 50 PPB	12/07/23 01:34
1M181450.D	CAL @ 100 PPB	12/07/23 02:39
1M181453.D	CAL @ 250 PPB	12/07/23 03:43
1M181456.D	BLK	12/07/23 04:48
1M181457.D	500 PPB	12/07/23 05:09
1M181460.D	BLK	12/07/23 06:14

CLPBFB

Data Path : G:\GcMsData\2023\GCMS_1\Data\12-06-23\
Data File : 1M181427.D
Acq On : 06 Dec 2023 18:50
Operator : WP
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_A1205.M
Title : @GCMS_1,ug,624,8260
Last Update : Wed Dec 06 10:42:13 2023



Spectrum Information: Average of 7.521 to 7.558 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.7	5279	PASS
75	95	30	60	52.6	14881	PASS
95	95	100	100	100.0	28283	PASS
96	95	5	9	7.5	2117	PASS
173	174	0.00	2	1.5	417	PASS
174	95	50	100	98.6	27877	PASS
175	174	5	9	8.0	2217	PASS
176	174	95	101	96.0	26767	PASS
177	176	5	9	6.6	1761	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 6
Data File: 6M177151.D
Analysis Date: 12/14/23 10:15
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.367 to 7.373 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	21.9	31712	PASS
75	95	30	60	56.7	82116	PASS
95	95	100	100	100.0	144724	PASS
96	95	5	9	5.6	8152	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	86.3	124940	PASS
175	174	5	9	7.0	8764	PASS
176	174	95	101	96.2	120228	PASS
177	176	5	9	6.8	8220	PASS

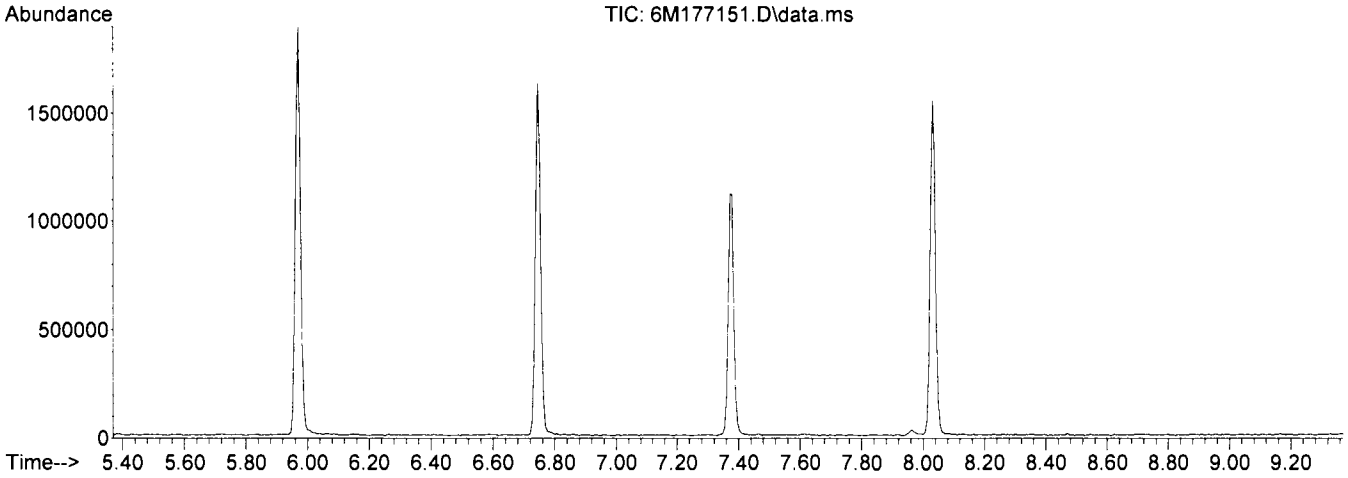
Data File	Sample Number	Analysis Date:
6M177152.D	CAL @ 50 PPB	12/14/23 10:37
6M177154.D	50 PPB	12/14/23 10:58
6M177156.D	BLK-DI	12/14/23 11:42
6M177157.D	DAILY BLANK	12/14/23 12:04
6M177158.D	AD41895-005	12/14/23 12:26
6M177159.D	AD41895-006	12/14/23 12:47
6M177160.D	AD41895-013	12/14/23 13:09
6M177161.D	AD41895-001	12/14/23 13:31
6M177162.D	AD41861-005(MS)	12/14/23 13:53
6M177163.D	AD41861-005(MSD	12/14/23 14:15
6M177164.D	MBS113983	12/14/23 14:37
6M177165.D	BLK	12/14/23 14:59
6M177166.D	AD41861-005	12/14/23 15:21
6M177167.D	AD41928-001	12/14/23 15:42
6M177168.D	AD41928-002	12/14/23 16:04
6M177169.D	AD41928-003	12/14/23 16:26
6M177170.D	AD41928-004	12/14/23 16:48
6M177171.D	AD41925-002	12/14/23 17:10
6M177172.D	AD41925-003	12/14/23 17:32
6M177173.D	AD41925-005	12/14/23 17:54
6M177174.D	AD41925-006	12/14/23 18:16
6M177175.D	AD41925-007	12/14/23 18:38
6M177176.D	AD41925-008	12/14/23 18:59
6M177177.D	AD41925-009	12/14/23 19:21
6M177178.D	AD41925-012	12/14/23 19:43
6M177179.D	AD41925-001	12/14/23 20:05
6M177180.D	AD41925-010	12/14/23 20:27
6M177181.D	AD41923-002	12/14/23 20:49
6M177182.D	AD41923-005	12/14/23 21:10
6M177183.D	AD41920-002	12/14/23 21:32

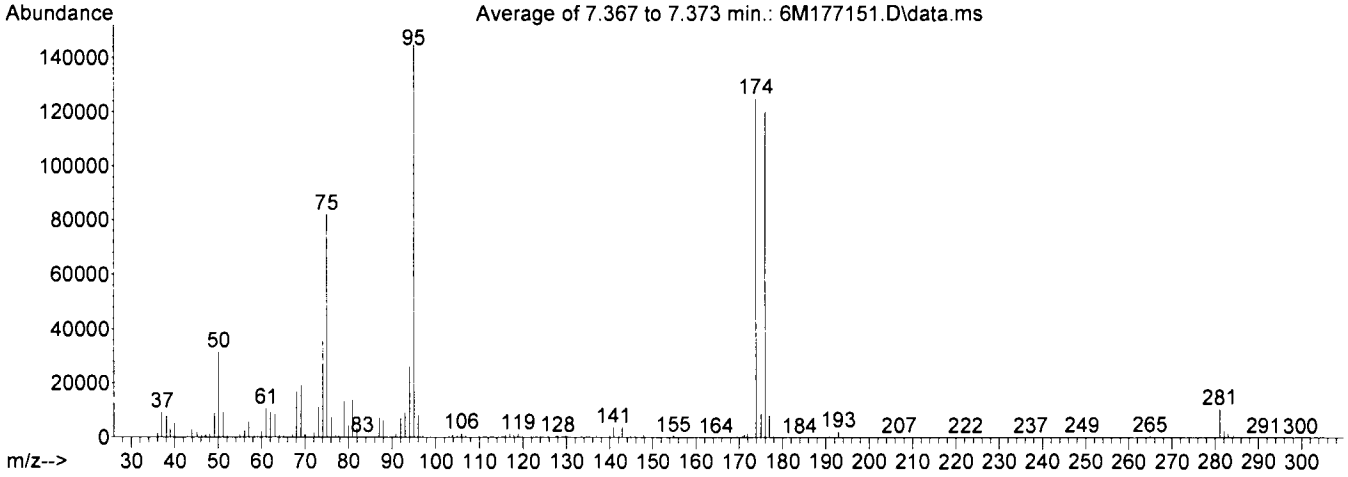
CLPBFB

Data Path : G:\GcMsData\2023\GCMS_6\Data\12-14-23\
Data File : 6M177151.D
Acq On : 14 Dec 2023 10:15
Operator : MN
Sample : BLK
Misc : S,5G
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2023\GCMS_6\MethodQt\6M_S1127.M
Title : @GCMS_6,ug,624,8260
Last Update : Tue Nov 28 11:17:18 2023





Spectrum Information: Average of 7.367 to 7.373 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.9	31712	PASS
75	95	30	60	56.7	82116	PASS
95	95	100	100	100.0	144724	PASS
96	95	5	9	5.6	8152	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	86.3	124940	PASS
175	174	5	9	7.0	8764	PASS
176	174	95	101	96.2	120228	PASS
177	176	5	9	6.8	8220	PASS

Form 5

Tune Name: BFB TUNE **Data File:** 11M118354.
Instrument: GCMS 11 **Analysis Date:** 12/15/23 10:32
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.144 to 7.151 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	15.2	3268	PASS
75	95	30	60	42.3	9086	PASS
95	95	100	100	100.0	21463	PASS
96	95	5	9	8.1	1728	PASS
173	174	0.00	2	0.4	75	PASS
174	95	50	100	89.1	19114	PASS
175	174	5	9	7.3	1394	PASS
176	174	95	101	95.8	18306	PASS
177	176	5	9	6.9	1270	PASS

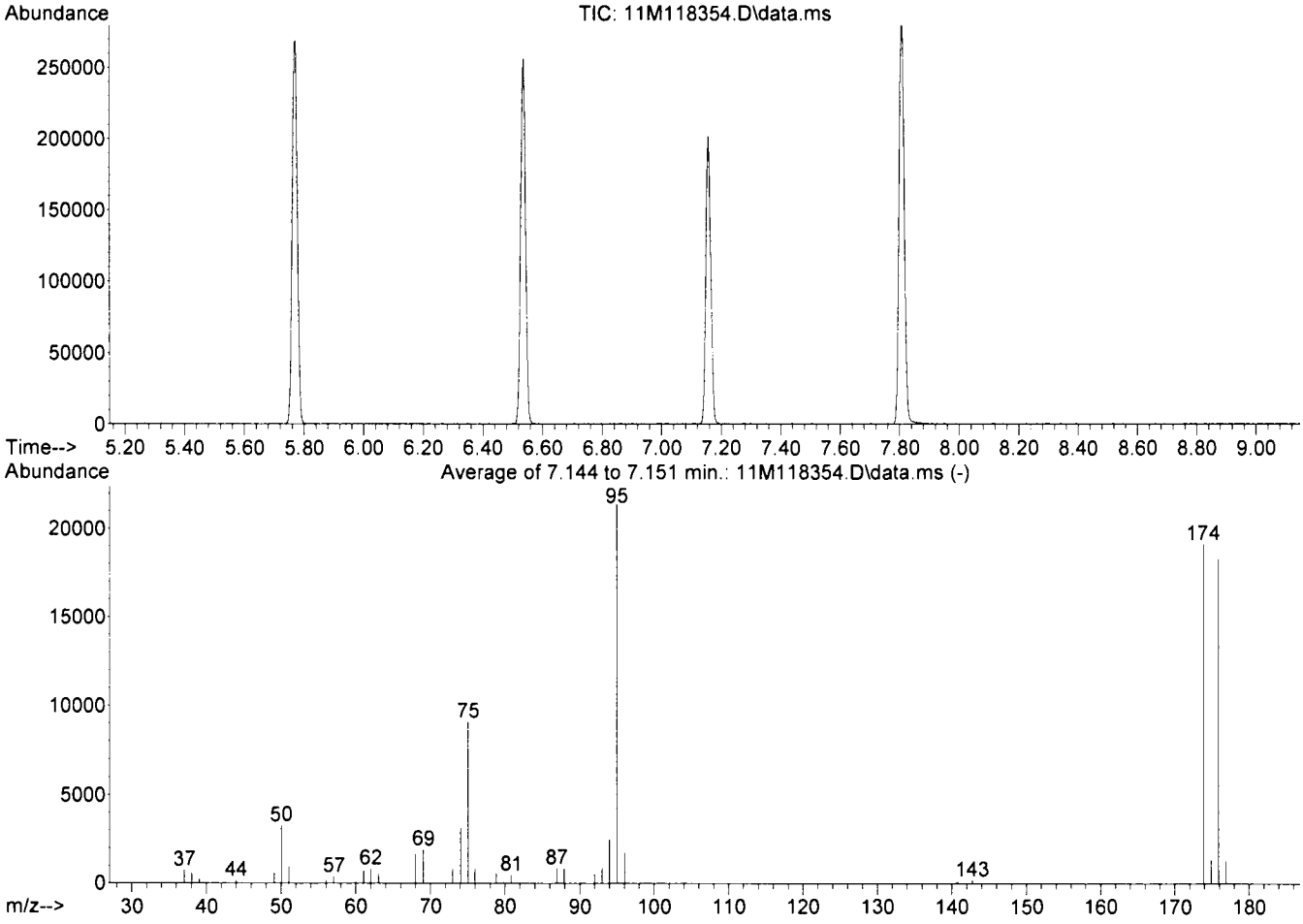
Data File	Sample Number	Analysis Date:
11M118356.D	20 PPB	12/15/23 11:05
11M118357.D	CAL @ 20 PPB	12/15/23 11:25
11M118358.D	BLK-HCL	12/15/23 11:45
11M118359.D	DI	12/15/23 12:05
11M118360.D	DAILY BLANK	12/15/23 12:25
11M118361.D	DAILY BLANK	12/15/23 12:45
11M118362.D	AD41897-007	12/15/23 13:05
11M118363.D	AD41956-001	12/15/23 13:25
11M118364.D	AD41916-001	12/15/23 13:46
11M118365.D	AD41925-004	12/15/23 14:06
11M118366.D	AD41925-011	12/15/23 14:26
11M118367.D	AD41925-010(MS)	12/15/23 14:45
11M118368.D	MBS113992	12/15/23 15:05
11M118369.D	MBS113993	12/15/23 15:25
11M118370.D	AD41925-010(MSD	12/15/23 15:45
11M118371.D	AD41805-020(T:M	12/15/23 16:05
11M118372.D	AD41805-020(T:M	12/15/23 16:25
11M118373.D	AD41925-010	12/15/23 16:45
11M118374.D	AD41913-001	12/15/23 17:05
11M118375.D	JUG2	12/15/23 17:25
11M118376.D	AD41913-003	12/15/23 17:45
11M118377.D	AD41913-004	12/15/23 18:05
11M118378.D	AD41913-005	12/15/23 18:25
11M118379.D	AD41902-014	12/15/23 18:45
11M118380.D	AD41902-015	12/15/23 19:05
11M118381.D	AD41953-001(10X)	12/15/23 19:25
11M118382.D	AD41932-007	12/15/23 19:45
11M118383.D	AD41932-008	12/15/23 20:05
11M118384.D	AD41981-001	12/15/23 20:25
11M118385.D	AD41981-002	12/15/23 20:46
11M118386.D	AD41981-003	12/15/23 21:06
11M118387.D	AD41981-008	12/15/23 21:26
11M118388.D	AD41981-009	12/15/23 21:45
11M118389.D	AD41981-010	12/15/23 22:05

CLPBFB

Data Path : G:\GcMsData\2023\GCMS_11\Data\12-15-23\
Data File : 11M118354.D
Acq On : 15 Dec 2023 10:32
Operator : WP
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 3 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2023\GCMS_2\MethodQt\2M_A1116.M
Title : @GCMS_2,ug,624,8260
Last Update : Fri Nov 17 13:06:37 2023



Spectrum Information: Average of 7.144 to 7.151 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.2	3268	PASS
75	95	30	60	42.3	9086	PASS
95	95	100	100	100.0	21463	PASS
96	95	5	9	8.1	1728	PASS
173	174	0.00	2	0.4	75	PASS
174	95	50	100	89.1	19114	PASS
175	174	5	9	7.3	1394	PASS
176	174	95	101	95.8	18306	PASS
177	176	5	9	6.9	1270	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 1
Data File: 1M181770.D
Analysis Date: 12/15/23 18:00
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.515 to 7.540 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	18.8	7215	PASS
75	95	30	60	52.1	19965	PASS
95	95	100	100	100.0	38329	PASS
96	95	5	9	7.4	2853	PASS
173	174	0.00	2	1.9	618	PASS
174	95	50	100	86.5	33166	PASS
175	174	5	9	8.1	2697	PASS
176	174	95	101	95.6	31715	PASS
177	176	5	9	7.0	2223	PASS

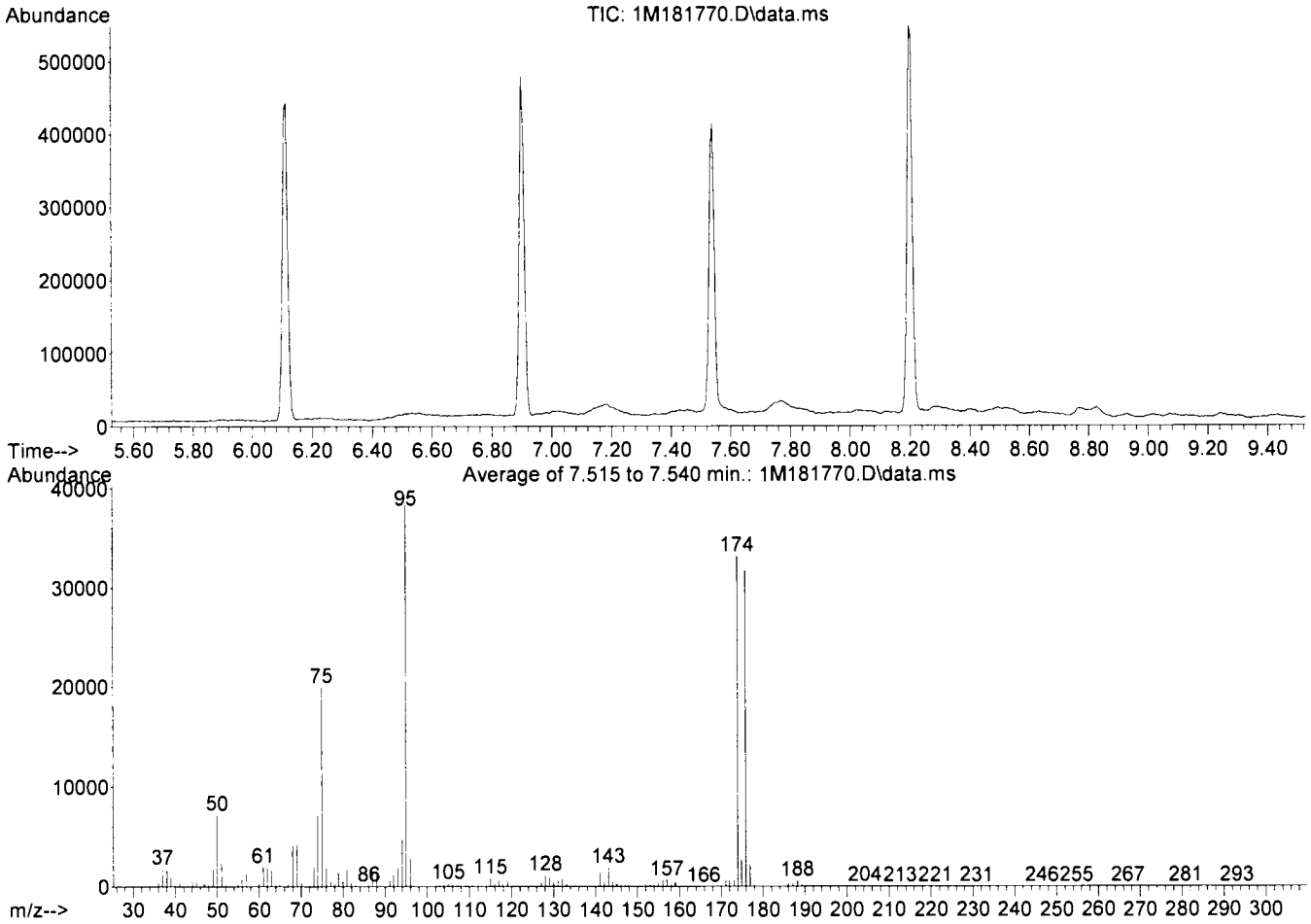
Data File	Sample Number	Analysis Date:
1M181771.D	CAL @ 20 PPB	12/15/23 18:15
1M181775.D	DAILY BLANK	12/15/23 19:41
1M181776.D	DAILY BLANK	12/15/23 20:02
1M181777.D	AD41932-003	12/15/23 20:23
1M181778.D	AD41932-006	12/15/23 20:45
1M181779.D	AD41932-002	12/15/23 21:06
1M181780.D	AD41932-001	12/15/23 21:28
1M181781.D	MBS114002	12/15/23 21:49
1M181782.D	MBS114003	12/15/23 22:10
1M181783.D	AD41932-003(MS)	12/15/23 22:32
1M181784.D	AD41932-003(MSD	12/15/23 22:53
1M181785.D	41954-020(50X)	12/15/23 23:14
1M181786.D	AD41929-007	12/15/23 23:36
1M181787.D	AD41929-008	12/15/23 23:57
1M181788.D	AD41925-015	12/16/23 00:19
1M181789.D	AD41925-014	12/16/23 00:40
1M181790.D	AD41929-001	12/16/23 01:02
1M181791.D	AD41929-002	12/16/23 01:23
1M181792.D	AD41929-003	12/16/23 01:45
1M181793.D	AD41929-004	12/16/23 02:06
1M181794.D	AD41929-005	12/16/23 02:28
1M181795.D	AD41929-006	12/16/23 02:49
1M181796.D	AD41929-009	12/16/23 03:11
1M181797.D	AD41929-010	12/16/23 03:32
1M181798.D	AD41929-011	12/16/23 03:54
1M181799.D	AD41929-012	12/16/23 04:15
1M181800.D	AD41929-013	12/16/23 04:37
1M181801.D	AD41929-014	12/16/23 04:58
1M181802.D	STD	12/16/23 05:20

CLPBFB

Data Path : G:\GcMsData\2023\GCMS_1\Data\12-15-23\
Data File : 1M181770.D
Acq On : 15 Dec 2023 18:00
Operator : WP
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_A1206.M
Title : @GCMS_1,ug,624,8260
Last Update : Thu Dec 07 12:29:31 2023



Spectrum Information: Average of 7.515 to 7.540 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.8	7215	PASS
75	95	30	60	52.1	19965	PASS
95	95	100	100	100.0	38329	PASS
96	95	5	9	7.4	2853	PASS
173	174	0.00	2	1.9	618	PASS
174	95	50	100	86.5	33166	PASS
175	174	5	9	8.1	2697	PASS
176	174	95	101	95.6	31715	PASS
177	176	5	9	7.0	2223	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 2
Data File: 2M193963.D
Analysis Date: 12/16/23 08:12
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.348 to 7.348 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	18.3	26960	PASS
75	95	30	60	52.2	76992	PASS
95	95	100	100	100.0	147520	PASS
96	95	5	9	7.3	10765	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	80.5	118784	PASS
175	174	5	9	7.8	9311	PASS
176	174	95	101	97.0	115216	PASS
177	176	5	9	7.8	9013	PASS

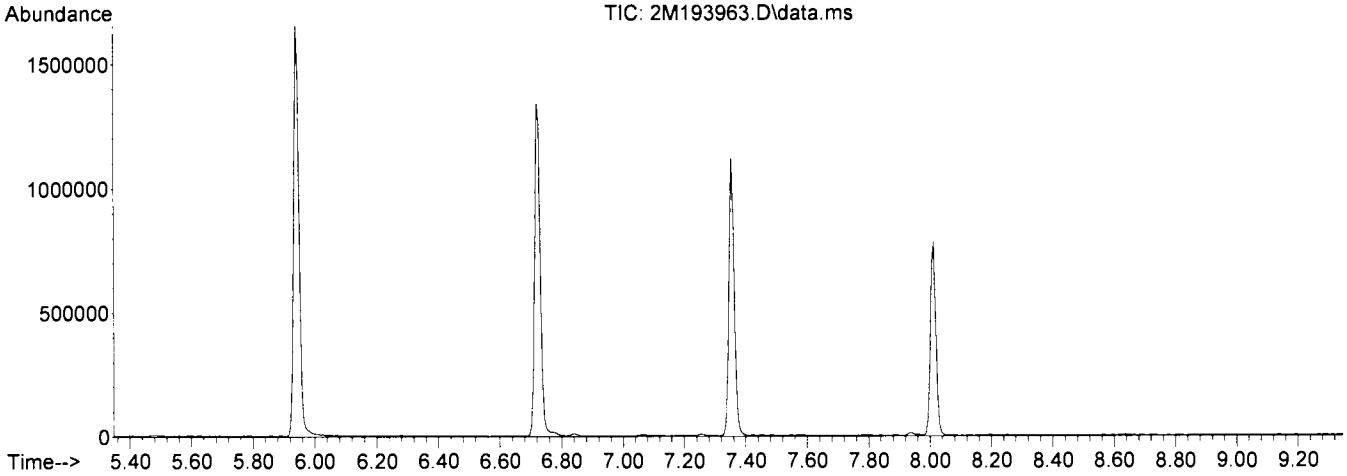
Data File	Sample Number	Analysis Date:
2M193965.D	CAL @ 20 PPB	12/16/23 08:51
2M193966.D	20 PPB	12/16/23 09:11
2M193967.D	20 PPB	12/16/23 09:31
2M193969.D	BLK	12/16/23 10:11
2M193970.D	DAILY BLANK	12/16/23 10:31
2M193971.D	BLK	12/16/23 10:51
2M193972.D	AD41943-001	12/16/23 11:11
2M193973.D	AD41943-032	12/16/23 11:31
2M193974.D	AD41943-002	12/16/23 11:51
2M193975.D	AD41943-004	12/16/23 12:11
2M193976.D	MBS113997	12/16/23 12:31
2M193977.D	MBS113998	12/16/23 12:51
2M193978.D	AD41813-006(50X)	12/16/23 13:11
2M193979.D	AD41813-006(50X)	12/16/23 13:31
2M193980.D	BLK	12/16/23 13:51
2M193981.D	AD41813-006(50X)	12/16/23 14:11
2M193982.D	AD41943-020	12/16/23 14:31
2M193983.D	AD41943-024	12/16/23 14:51
2M193984.D	AD41943-026	12/16/23 15:11
2M193985.D	AD41943-028	12/16/23 15:31
2M193986.D	AD41943-030	12/16/23 15:50
2M193987.D	AD41943-034	12/16/23 16:10
2M193988.D	AD41943-036	12/16/23 16:30
2M193989.D	AD41943-016	12/16/23 16:50
2M193990.D	AD41943-006	12/16/23 17:10
2M193991.D	AD41943-014	12/16/23 17:30
2M193992.D	AD41943-008	12/16/23 17:50
2M193993.D	AD41943-010	12/16/23 18:10
2M193994.D	AD41943-012	12/16/23 18:30
2M193995.D	BLK	12/16/23 18:50
2M193996.D	AD41925-013	12/16/23 19:10
2M193997.D	AD41943-022	12/16/23 19:30
2M193998.D	AD41943-018	12/16/23 19:50
2M193999.D	MBS113999	12/16/23 20:10
2M194000.D	41994-001	12/16/23 20:30
2M194001.D	41994-004	12/16/23 20:50
2M194002.D	41994-006	12/16/23 21:10
2M194003.D	41983-001	12/16/23 21:30
2M194004.D	41991-001	12/16/23 21:50
2M194005.D	41991-009	12/16/23 22:10
2M194006.D	41972-002	12/16/23 22:30

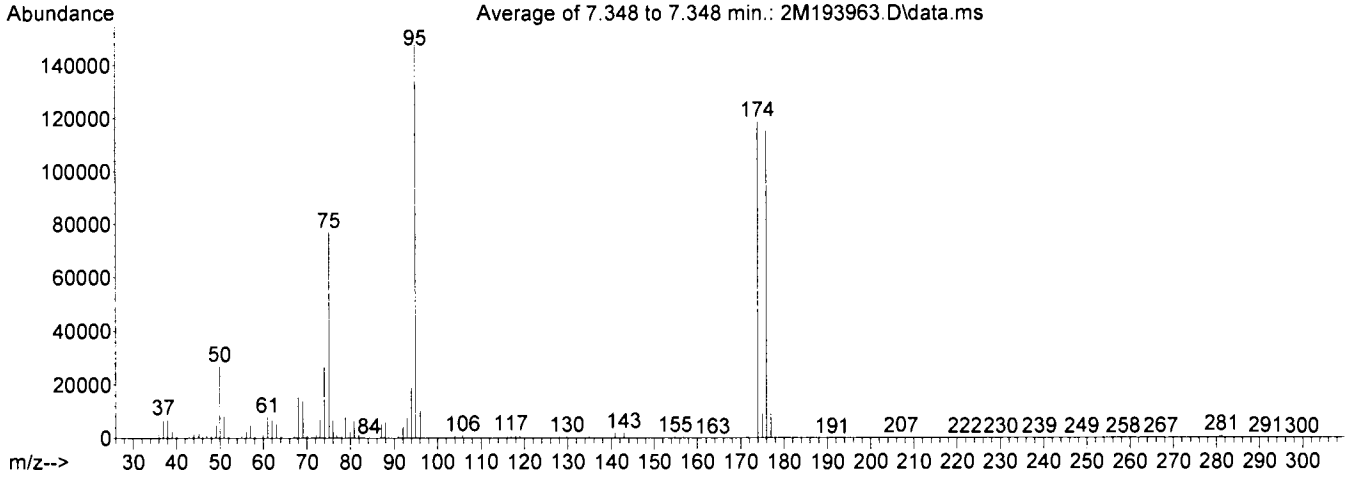
CLPBFB

Data Path : G:\GcMsData\2023\GCMS_2\Data\12-16-23\
Data File : 2M193963.D
Acq On : 16 Dec 2023 08:12
Operator : WP
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 44 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2023\GCMS_2\MethodQt\2M_A1116.M
Title : @GCMS_2,ug,624,8260
Last Update : Fri Nov 17 13:06:37 2023





Spectrum Information: Average of 7.348 to 7.348 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.3	26960	PASS
75	95	30	60	52.2	76992	PASS
95	95	100	100	100.0	147520	PASS
96	95	5	9	7.3	10765	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	80.5	118784	PASS
175	174	5	9	7.8	9311	PASS
176	174	95	101	97.0	115216	PASS
177	176	5	9	7.8	9013	PASS

3121329 0142

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_2

Level #	Data File:	Cal Identifier:	Analysis Date/Time	Level #	Data File:	Cal Identifier:	Analysis Date/Time
1	2M192656.D	CAL @ 20 PPB	11/16/23 16:29	2	2M192652.D	CAL @ 5 PPB	11/16/23 15:09
3	2M192654.D	CAL @ 10 PPB	11/16/23 15:49	4	2M192659.D	CAL @ 50 PPB	11/16/23 17:28
5	2M192662.D	CAL @ 100 PPB	11/16/23 18:28	6	2M192665.D	CAL @ 250 PPB	11/16/23 19:27
7	2M192669.D	CAL @ 500 PPB	11/16/23 20:47	8	2M192651.D	CAL @ 1 PPB	11/16/23 14:49
9	2M192650.D	CAL @ 0.5 PPB	11/16/23 14:29				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.1943	0.1866	0.1991	0.2068	0.2232	0.2117	0.1783	0.2287	-----	0.204	1.68	0.992	1.00	8.5	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dichlorodifluorometha	1	0	Avg	0.2347	0.2219	0.1961	0.2401	0.2573	0.2428	0.1717	0.1886	-----	0.219	1.67	0.964	0.999	14	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloromethane	1	0	Avg	0.1484	0.1484	0.1435	0.1485	0.1544	0.1490	0.1481	0.1683	-----	0.151	1.84	1.00	1.00	5.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromomethane	1	0	Avg	0.1537	0.1790	0.1567	0.1559	0.1720	0.1986	0.2225	0.2065	-----	0.181	2.24	0.996	1.00	14	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Vinyl Chloride	1	0	Avg	0.2032	0.2078	0.1930	0.2068	0.2143	0.2125	0.2020	0.1985	-----	0.205	1.94	0.999	1.00	3.5	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroethane	1	0	Avg	0.1397	0.1409	0.1377	0.1414	0.1451	0.1484	0.1427	0.1381	-----	0.142	2.32	1.00	1.00	2.5	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichlorofluoromethan	1	0	Avg	0.4688	0.4824	0.4497	0.4732	0.4919	0.4940	0.4644	0.4417	-----	0.471	2.54	0.999	1.00	4.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl ether	1	0	Avg	0.1421	0.1444	0.1387	0.1430	0.1360	0.1438	0.1337	0.1630	-----	0.143	2.78	0.999	1.00	6.2	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Furan	1	0	Avg	0.2361	0.2408	0.2308	0.2301	0.2205	0.2381	0.2251	0.2746	-----	0.237	2.82	0.999	1.00	7.0	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.1739	0.1815	0.1718	0.1783	0.1734	0.1916	0.1878	0.1577	-----	0.177	2.98	1.00	1.00	5.9	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methylene Chloride	1	0	Avg	0.2190	0.2288	0.2162	0.2219	0.2337	0.2324	0.2206	0.2485	-----	0.228	3.39	0.999	1.00	4.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acrolein	1	0	Avg	0.0252	0.0255	0.0266	0.0275	0.0263	0.0315	0.0303	0.0265	-----	0.0275	2.90	0.999	0.999	8.3		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Acrylonitrile	1	0	Avg	0.0607	0.0654	0.0572	0.0627	0.0619	0.0623	0.0580	0.0718	-----	0.0626	3.60	0.999	1.00	7.3		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iodomethane	1	0	Qua	0.3060	0.2412	0.2484	0.3475	0.4005	0.4065	0.3799	0.2763	-----	0.326	3.13	0.996	0.996	21		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acetone	1	0	Qua	0.0449	0.0491	0.0433	0.0436	0.0418	0.0439	0.0398	0.0707	-----	0.0472	3.03	0.998	1.00	21	0.10 a	100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Carbon Disulfide	1	0	Avg	0.4867	0.5127	0.4744	0.5117	0.5482	0.5481	0.5264	0.4776	-----	0.511	3.19	1.00	1.00	5.7	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butyl Alcohol	1	0	Avg	0.0160	0.0166	0.0167	0.0170	0.0160	0.0178	0.0156	0.0214	-----	0.0172	3.46	0.996	0.999	11		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
n-Hexane	1	0	Avg	0.1488	0.1517	0.1453	0.1514	0.1588	0.1512	0.1398	0.1300	-----	0.147	3.85	0.998	1.00	6.0		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Di-isopropyl-ether	1	0	Avg	0.4375	0.4326	0.4174	0.4340	0.4461	0.4320	0.4074	0.4349	-----	0.430	4.01	0.999	1.00	2.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethene	1	0	Avg	0.2643	0.2747	0.2600	0.2686	0.2685	0.2782	0.2638	0.2823	-----	0.270	2.99	0.999	1.00	2.9	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl Acetate	1	0	Avg	0.0968	0.1052	0.0963	0.1018	0.1040	0.1063	0.0984	0.1300	-----	0.105	3.29	0.999	1.00	10	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl-t-butyl ether	1	0	Avg	0.5680	0.5827	0.5702	0.5818	0.6064	0.6075	0.5697	0.6223	0.5776	0.587	3.62	0.999	1.00	3.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
1,1-Dichloroethane	1	0	Avg	0.3405	0.3460	0.3366	0.3472	0.3597	0.3479	0.3304	0.3387	-----	0.343	3.98	0.999	1.00	2.6	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,2-Dichloroethe	1	0	Avg	0.2261	0.2305	0.2284	0.2369	0.2497	0.2477	0.2393	0.2314	-----	0.236	3.63	1.00	1.00	3.7	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl-t-butyl ether	1	0	Avg	0.5550	0.5640	0.5376	0.5682	0.5739	0.5597	0.5265	0.5611	-----	0.556	4.28	0.999	1.00	2.9	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1,2-Dichloroethene	1	0	Avg	0.3449	0.3564	0.3392	0.3433	0.3431	0.3356	0.3122	0.4503	-----	0.353	4.39	0.999	1.00	12	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromochloromethane	1	0	Avg	0.1421	0.1533	0.1375	0.1415	0.1429	0.1376	0.1265	0.1702	-----	0.144	4.55	0.998	1.00	9.0		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2,2-Dichloropropane	1	0	Avg	0.3568	0.3822	0.3522	0.3569	0.3594	0.3440	0.3213	0.3500	-----	0.353	4.40	0.999	1.00	4.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl acetate	1	0	Avg	0.1744	0.1866	0.1748	0.1778	0.1675	0.1672	0.1528	0.2029	-----	0.176	4.42	0.998	1.00	8.4		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,4-Dioxane	1	0	Avg	0.0016	0.0016	0.0013	0.0016	0.0013	0.0015	0.0012	0.0008	-----	0.00142	5.48	0.991	0.998	20		1000.	250.0	500.0	2500.	5000.	12500	25000	50.00	
1,1-Dichloropropene	1	0	Avg	0.3057	0.3169	0.3074	0.3121	0.3175	0.3033	0.2855	0.3172	-----	0.308	4.81	0.999	1.00	3.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroform	1	0	Avg	0.4175	0.4298	0.4249	0.4301	0.4430	0.4287	0.4083	0.4828	-----	0.433	4.59	0.999	1.00	5.2	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromofluoromethan	1	0	Avg	0.3016	0.3057	0.3017	0.3044	0.3140	0.3148	0.3047	0.3042	0.3070	0.306	4.69	-1	-1	1.6		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.2162	0.2185	0.2087	0.2193	0.2234	0.2126	0.2011	0.2016	-----	0.213	4.76	0.999	1.00	3.9	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichloroethane-d4	1	0	Avg	0.1389	0.1411	0.1422	0.1413	0.1397	0.1420	0.1310	0.1423	0.1441	0.140	4.90	-1	-1	2.7		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.2950	0.3235	0.2974	0.2967	0.3034	0.2913	0.2754	0.3540	0.3524	0.310	4.94	0.999	1.00	8.9	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
2-Butanone	1	0	Avg	0.0584	0.0544	0.0552	0.0646	0.0651	0.0672	0.0624	0.0541	-----	0.0602	4.40	0.999	1.00	8.8	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,1-Trichloroethane	1	0	Avg	0.4108	0.3997	0.4060	0.4219	0.4358	0.4208	0.4027	0.4012	-----	0.412	4.72	0.999	1.00	3.1	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Carbon Tetrachloride	1	0	Avg	0.3781	0.3767	0.3666	0.3984	0.4142	0.4012	0.3921	0.3338	-----	0.383	4.82	1.00	1.00	6.5	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Vinyl Acetate	1	0	Avg	0.5105	0.5711	0.5645	0.5849	0.5933	0.5854	0.5469	0.5809	-----	0.567	4.00	0.999	1.00	4.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromodichloromethan	1	0	Avg	0.3336	0.3239	0.3325	0.3441	0.3531	0.3470	0.3406	0.3286	-----	0.338	5.56	1.00	1.00	2.9	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 6.040

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

3121329 0143

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_2

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	2M192656.D	CAL @ 20 PPB	11/16/23 16:29	2	2M192652.D	CAL @ 5 PPB	11/16/23 15:09
3	2M192654.D	CAL @ 10 PPB	11/16/23 15:49	4	2M192659.D	CAL @ 50 PPB	11/16/23 17:28
5	2M192662.D	CAL @ 100 PPB	11/16/23 18:28	6	2M192665.D	CAL @ 250 PPB	11/16/23 19:27
7	2M192669.D	CAL @ 500 PPB	11/16/23 20:47	8	2M192651.D	CAL @ 1 PPB	11/16/23 14:49
9	2M192650.D	CAL @ 0.5 PPB	11/16/23 14:29				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.2578	0.2682	0.2519	0.2617	0.2669	0.2612	0.2531	0.2294	-----	0.256	5.40	1.00	1.00	4.8	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromomethane	1	0	Avg	0.2130	0.2168	0.2078	0.2185	0.2242	0.2232	0.2319	0.2007	-----	0.217	5.48	1.00	1.00	4.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichloropropane	1	0	Avg	0.2006	0.2054	0.1980	0.1999	0.2013	0.1962	0.1870	0.2040	-----	0.199	5.42	0.999	1.00	2.9	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichloroethene	1	0	Avg	0.3086	0.2975	0.2965	0.3069	0.3172	0.3066	0.2996	0.3125	-----	0.306	5.29	1.00	1.00	2.4	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Benzene	1	0	Avg	0.8536	0.8908	0.8512	0.8458	0.8790	0.8448	0.8177	0.8701	0.8311	0.854	4.93	1.00	1.00	2.7	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
tert-Amyl methyl ether	1	0	Avg	0.6281	0.6389	0.6293	0.6351	0.6480	0.6335	0.5997	0.6445	-----	0.632	4.98	0.999	1.00	2.3		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iso-propylacetate	1	0	Avg	0.3487	0.3497	0.3590	0.3496	0.3431	0.3332	0.2970	0.3685	-----	0.344	4.93	0.997	1.00	6.3	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl methacrylate	1	0	Avg	0.1731	0.1722	0.1794	0.1744	0.1676	0.1662	0.1501	0.1597	-----	0.168	5.45	0.997	1.00	5.6	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromochloromethan	1	0	Avg	0.3461	0.3302	0.3510	0.3595	0.3696	0.3649	0.3515	0.3283	-----	0.350	6.41	1.00	1.00	4.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chloroethylvinylethe	1	0	Avg	0.1122	0.1117	0.1116	0.1171	0.1159	0.1151	0.1053	0.1072	-----	0.112	5.70	0.998	1.00	3.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1,3-Dichloropropen	1	0	Avg	0.4004	0.4074	0.4162	0.4116	0.4177	0.4014	0.3701	0.4044	-----	0.404	5.79	0.998	1.00	3.7	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,3-Dichloroprop	1	0	Avg	0.3914	0.3743	0.3898	0.3914	0.4012	0.3913	0.3612	0.3684	-----	0.384	6.08	0.998	1.00	3.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl methacrylate	1	0	Avg	0.1698	0.1700	0.1753	0.1702	0.1673	0.1656	0.1488	0.1740	-----	0.168	6.10	0.997	1.00	4.9	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloroethane	1	0	Avg	0.2546	0.2586	0.2686	0.2567	0.2586	0.2548	0.2392	0.2569	-----	0.256	6.18	0.999	1.00	3.2	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromoethane	1	0	Avg	0.2947	0.2882	0.2995	0.2932	0.2973	0.2971	0.2814	0.3065	-----	0.295	6.49	0.999	1.00	2.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichloropropane	1	0	Avg	0.3901	0.3975	0.4160	0.3916	0.3899	0.3753	0.3437	0.4003	-----	0.388	6.28	0.998	1.00	5.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Methyl-2-Pentanone	1	0	Avg	0.1730	0.1761	0.1817	0.1780	0.1685	0.1703	0.1534	0.1845	-----	0.173	5.86	0.997	1.00	5.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Hexanone	1	0	Avg	0.1274	0.1198	0.1308	0.1268	0.1171	0.1180	0.1053	0.1518	-----	0.125	6.29	0.997	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Tetrachloroethene	1	0	Avg	0.2584	0.2620	0.2655	0.2598	0.2620	0.2543	0.2497	0.2766	-----	0.261	6.28	1.00	1.00	3.1	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Toluene-d8	1	0	Avg	1.1769	1.1877	1.2473	1.1608	1.1543	1.1475	1.0701	1.1698	1.2005	1.17	5.95	-1	-1	4.1		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.6579	0.6832	0.6898	0.6556	0.6709	0.6493	0.6224	0.6657	-----	0.662	5.98	0.999	1.00	3.2	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.3265	0.2965	0.2975	0.3052	0.3144	0.3115	0.3037	0.2965	-----	0.307	6.78	1.00	1.00	3.4		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chlorobenzene	1	0	Avg	0.7798	0.8155	0.8033	0.8009	0.8134	0.7896	0.7643	0.8409	-----	0.801	6.74	1.00	1.00	2.9	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butyl acrylate	1	0	Avg	0.8000	0.8010	0.7920	0.7941	0.7460	0.7323	0.7496	0.8174	-----	0.779	6.98	1.00	1.00	4.0	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Amyl acetate	1	0	Avg	0.5914	0.6253	0.6090	0.5748	0.5448	0.5583	0.5562	0.6111	-----	0.584	7.10	1.00	1.00	5.1	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromoform	1	0	Avg	0.4773	0.4283	0.4586	0.5002	0.4945	0.5414	0.5553	0.4301	-----	0.486	7.20	1.00	1.00	9.7	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethylbenzene	1	0	Avg	0.7108	0.7129	0.6432	0.6730	0.6349	0.5990	0.5924	0.6925	-----	0.657	6.78	1.00	1.00	7.2	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.5953	0.6564	0.6099	0.6048	0.5607	0.5497	0.5558	0.6574	-----	0.599	7.41	1.00	1.00	7.1	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromofluorobenzene	1	0	Avg	0.8656	0.8840	0.8790	0.8621	0.8227	0.9124	0.9280	0.8788	0.8543	0.876	7.35	-1	-1	3.5		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	1.5483	1.6474	1.5397	1.5558	1.5240	1.5254	1.5875	1.5947	-----	1.57	7.07	1.00	1.00	2.7	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
m&p-Xylenes	1	0	Avg	0.9362	1.0064	0.9348	0.9206	0.8887	0.8454	0.8704	0.9190	0.8503	0.908	6.84	1.00	1.00	5.6	0.10	40.00	10.00	20.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	0.9251	1.0001	0.9427	0.9160	0.8945	0.9000	0.9573	0.9957	-----	0.941	7.06	0.999	1.00	4.3	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.1484	0.1642	0.1473	0.1485	0.1424	0.1356	0.1377	0.1513	-----	0.147	7.43	1.00	1.00	6.1		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichlorobenzene	1	0	Avg	1.0883	1.1909	1.1041	1.1283	1.1461	1.1131	1.1000	1.2334	-----	1.14	7.98	1.00	1.00	4.4	0.60	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,4-Dichlorobenzene	1	0	Avg	1.1001	1.1917	1.0892	1.1010	1.1113	1.0729	1.0728	1.1623	-----	1.11	8.02	1.00	1.00	3.8	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichlorobenzene	1	0	Avg	0.9970	1.0769	1.0290	1.0382	1.0626	1.0369	1.0049	1.0593	-----	1.04	8.25	1.00	1.00	2.7	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Isopropylbenzene	1	0	Avg	2.0650	2.1329	2.1031	2.0629	2.0100	1.9539	1.9229	2.0805	-----	2.04	7.26	1.00	1.00	3.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Qua	0.0269	0.0305	0.0260	0.0215	0.0142	0.0141	0.0069	0.0388	-----	0.0224	7.33	0.827	0.988	46		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Camphene	1	0	Avg	0.4424	0.4696	0.4576	0.4376	0.4244	0.4024	0.4181	0.4577	-----	0.439	7.43	1.00	1.00	5.2		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichloropropane	1	0	Avg	0.6973	0.7519	0.7046	0.6971	0.6597	0.6356	0.6435	0.7839	-----	0.697	7.45	1.00	1.00	7.4		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chlorotoluene	1	0	Avg	1.1971	1.3066	1.1844	1.2110	1.1728	1.1488	1.1222	1.3262	-----	1.21	7.56	1.00	1.00	6.0		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 6.040

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

3121329 0144

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_2

Level #	Data File:	Cal Identifier:	Analysis Date/Time	Level #	Data File:	Cal Identifier:	Analysis Date/Time
1	2M192656.D	CAL @ 20 PPB	11/16/23 16:29	2	2M192652.D	CAL @ 5 PPB	11/16/23 15:09
3	2M192654.D	CAL @ 10 PPB	11/16/23 15:49	4	2M192659.D	CAL @ 50 PPB	11/16/23 17:28
5	2M192662.D	CAL @ 100 PPB	11/16/23 18:28	6	2M192665.D	CAL @ 250 PPB	11/16/23 19:27
7	2M192669.D	CAL @ 500 PPB	11/16/23 20:47	8	2M192651.D	CAL @ 1 PPB	11/16/23 14:49
9	2M192650.D	CAL @ 0.5 PPB	11/16/23 14:29				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	1.9822	2.0622	2.0145	2.0009	1.9536	1.8389	1.9876	1.8940	-----	1.97	7.54	0.999	1.00	3.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Chlorotoluene	1	0	Avg	1.2437	1.3376	1.2835	1.2788	1.2559	1.2009	1.1162	1.3787	-----	1.26	7.61	0.998	1.00	6.4		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Propylbenzene	1	0	Avg	2.2612	2.3870	2.2661	2.2202	2.1515	2.0024	1.9768	2.1606	-----	2.18	7.48	1.00	1.00	6.3		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	1.1930	1.3818	1.2459	1.1774	1.1320	1.0577	1.0696	1.2894	-----	1.19	7.46	1.00	1.00	9.2		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3,5-Trimethylbenzen	1	0	Avg	1.6235	1.7519	1.6141	1.5939	1.5736	1.4772	1.3785	1.7076	-----	1.59	7.57	0.999	1.00	7.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Avg	0.4550	0.4721	0.4552	0.4447	0.4230	0.4028	0.4086	0.5203	-----	0.448	7.57	1.00	1.00	8.5	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butylbenzene	1	0	Avg	1.6448	1.7167	1.6590	1.6282	1.6311	1.5754	1.6153	1.5847	-----	1.63	7.76	1.00	1.00	2.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Avg	1.7123	1.8493	1.7618	1.7098	1.7029	1.6172	1.6032	1.7893	-----	1.72	7.79	1.00	1.00	4.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	1.8225	1.9831	1.8470	1.8196	1.8399	1.7580	1.7325	1.7471	-----	1.82	7.89	1.00	1.00	4.4		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Avg	1.6109	1.6975	1.6273	1.6388	1.6758	1.6115	1.5787	1.4247	-----	1.61	7.96	1.00	1.00	5.2		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Avg	1.4671	1.6318	1.5055	1.4892	1.4862	1.4035	1.3614	1.4973	-----	1.48	8.20	1.00	1.00	5.4		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	0.8703	0.9149	0.8772	0.8864	0.9047	0.8836	0.8734	0.8148	-----	0.878	8.18	1.00	1.00	3.4		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4,5-Tetramethylbe	1	0	Avg	1.1619	1.2124	1.1833	1.2091	1.2402	1.2499	1.2079	1.2445	-----	1.21	8.64	1.00	1.00	2.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromo-3-Chloro	1	0	Avg	0.1488	0.1442	0.1470	0.1568	0.1564	0.1763	0.1692	0.1499	-----	0.156	8.70	0.999	0.999	7.3	0.05	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Camphor	1	0	Avg	0.0451	0.0479	0.0456	0.0467	0.0421	0.0497	0.0481	0.0449	0.0510	0.0468	9.13	0.999	0.999	5.8		200.0	50.00	100.0	500.0	1000.	2500.	5000.	10.00	5.00
Hexachlorobutadiene	1	0	Avg	0.1927	0.2263	0.2042	0.2003	0.1953	0.2281	0.2201	0.2197	-----	0.211	9.27	0.999	0.999	6.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trichlorobenzen	1	0	Avg	0.4432	0.4510	0.4640	0.4706	0.4586	0.5298	0.5101	0.4664	-----	0.474	9.19	0.999	0.999	6.3	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichlorobenzen	1	0	Avg	0.3625	0.3936	0.3729	0.3905	0.3776	0.4383	0.4153	0.3980	-----	0.394	9.49	0.999	0.999	6.2		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Naphthalene	1	0	Avg	1.2408	1.2618	1.2039	1.3245	1.2875	1.4215	1.3419	1.2075	-----	1.29	9.35	0.999	0.999	5.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 6.040
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

3121329 0145

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_6

Level #	Data File:	Cal Identifier:	Analysis Date/Time	Level #	Data File:	Cal Identifier:	Analysis Date/Time
1	6M176462.D	CAL @ 20 PPB	11/28/23 00:45	2	6M176461.D	CAL @ 5 PPB	11/28/23 00:23
3	6M176460.D	CAL @ 2 PPB	11/28/23 00:02	4	6M176463.D	CAL @ 50 PPB	11/28/23 01:07
5	6M176465.D	CAL @ 100 PPB	11/28/23 01:51	6	6M176467.D	CAL @ 250 PPB	11/28/23 02:35
7	6M176470.D	CAL @ 500 PPB	11/28/23 03:41	8	6M176459.D	CAL @ 1 PPB	11/27/23 23:40
9	6M176458.D	CAL @ 0.5 PPB	11/27/23 23:18				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.1096	0.1176	0.1275	0.1241	0.1304	0.1302	0.1370	-----	-----	0.125	1.65	0.999	1.00	7.3	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dichlorodifluorometha	1	0	Avg	0.0961	0.0991	0.1134	0.1120	0.1193	0.1201	0.1252	-----	-----	0.112	1.63	1.00	1.00	9.7	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloromethane	1	0	Avg	0.1419	0.1476	0.1615	0.1608	0.1705	0.1670	0.1677	-----	-----	0.160	1.82	1.00	1.00	6.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromomethane	1	0	Avg	0.0950	0.0963	0.1307	0.1062	0.1127	0.1061	0.1101	-----	-----	0.108	2.23	1.00	1.00	11	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Chloride	1	0	Avg	0.1290	0.1252	0.1343	0.1444	0.1534	0.1532	0.1619	-----	-----	0.143	1.91	0.999	1.00	9.7	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroethane	1	0	Avg	0.0708	0.0795	0.0898	0.0854	0.0937	0.0952	0.1037	-----	-----	0.0883	2.31	0.998	1.00	12	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichlorofluoromethan	1	0	Avg	0.1783	0.1733	0.1524	0.1973	0.2161	0.2087	0.2223	-----	-----	0.193	2.55	0.999	1.00	13	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl ether	1	0	Avg	0.0876	0.0813	0.1036	0.1004	0.1029	0.1035	0.1116	-----	-----	0.0988	2.79	0.999	1.00	11	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Furan	1	0	Avg	0.1188	0.1235	0.1433	0.1386	0.1525	0.1538	0.1744	-----	-----	0.144	2.83	0.997	1.00	13	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.0556	0.0569	0.0532	0.0612	0.0685	0.0689	0.0762	-----	-----	0.0630	3.00	0.998	1.00	13	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methylene Chloride	1	0	Avg	0.0972	0.1029	0.1049	0.1086	0.1128	0.1132	0.1192	-----	-----	0.108	3.42	0.999	1.00	6.8	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acrolein	1	0	Avg	0.0233	0.0259	0.0256	0.0263	0.0269	0.0265	0.0269	-----	-----	0.0260	2.90	1.00	1.00	4.8		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Acrylonitrile	1	0	Avg	0.0481	0.0565	0.0687	0.0521	0.0509	0.0501	0.0533	-----	-----	0.0543	3.62	0.999	1.00	13		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iodomethane	1	0	Qua	0.0342	0.0356	0.0453	0.0423	0.0535	0.0685	0.0913	-----	-----	0.0530	3.14	0.983	1.00	39		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acetone	1	0	Avg	0.0319	0.0362	0.0422	0.0363	0.0352	0.0349	0.0364	-----	-----	0.0362	3.03	1.00	1.00	8.5	0.10 a	100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Carbon Disulfide	1	0	Avg	0.2471	0.2657	0.2631	0.2717	0.2987	0.2959	0.3156	-----	-----	0.280	3.22	0.999	1.00	8.7	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
t-Butyl Alcohol	1	0	Avg	0.0129	0.0148	0.0137	0.0144	0.0144	0.0142	0.0149	-----	-----	0.0142	3.48	0.999	1.00	4.9		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
n-Hexane	1	0	Avg	0.0781	0.0791	0.0983	0.0965	0.1071	0.1015	0.1166	-----	-----	0.0968	3.90	0.996	0.999	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Di-isopropyl-ether	1	0	Avg	0.2002	0.2038	0.1812	0.2298	0.2591	0.2619	0.2818	-----	-----	0.231	4.05	0.999	1.00	16		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1-Dichloroethene	1	0	Avg	0.1093	0.1143	0.1182	0.1269	0.1414	0.1397	0.1491	-----	-----	0.128	3.01	0.999	1.00	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl Acetate	1	0	Avg	0.0715	0.0666	0.0795	0.0756	0.0769	0.0745	0.0777	-----	-----	0.0747	3.32	1.00	1.00	5.8	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl-t-butyl ether	1	0	Avg	0.2326	0.2294	0.2252	0.2521	0.2676	0.2741	0.2957	0.2984	-----	0.259	3.65	0.999	1.00	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethane	1	0	Avg	0.1353	0.1446	0.1240	0.1544	0.1706	0.1733	0.1734	-----	-----	0.154	4.01	1.00	1.00	13	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,2-Dichloroethe	1	0	Avg	0.0792	0.0826	0.0828	0.0928	0.0971	0.1005	0.1116	-----	-----	0.0924	3.66	0.998	1.00	13	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl-t-butyl ether	1	0	Avg	0.0288	0.0328	0.0307	0.0297	0.0354	0.0333	0.0360	-----	-----	0.0324	4.04	0.999	1.00	8.6	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,2-Dichloroethene	1	0	Avg	0.1359	0.1449	0.1430	0.1574	0.1707	0.1760	0.1916	-----	-----	0.160	4.42	0.998	1.00	13	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromochloromethane	1	0	Avg	0.0645	0.0716	0.0731	0.0724	0.0774	0.0741	0.0796	-----	-----	0.0733	4.57	0.999	1.00	6.5		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2,2-Dichloropropane	1	0	Avg	0.1034	0.1052	0.1107	0.1200	0.1298	0.1341	0.1427	-----	-----	0.121	4.43	0.999	1.00	13		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl acetate	1	0	Avg	0.1117	0.1032	0.1307	0.1171	0.1220	0.1218	0.1274	-----	-----	0.119	4.45	1.00	1.00	7.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dioxane	1	0	Avg	0.0016	0.0019	0.0017	0.0018	0.0018	0.0017	0.0019	-----	-----	0.00182	5.51	0.998	1.00	6.1		1000.	250.0	100.0	2500.	5000.	12500	25000		
1,1-Dichloropropene	1	0	Avg	0.1000	0.0960	0.0886	0.1148	0.1288	0.1336	0.1544	-----	-----	0.117	4.84	0.996	1.00	20		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroform	1	0	Avg	0.1478	0.1728	0.1913	0.1689	0.1814	0.1801	0.1984	-----	-----	0.177	4.62	0.998	1.00	9.3	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromofluoromethan	1	0	Avg	0.2234	0.2323	0.2372	0.2309	0.2305	0.2295	0.2193	0.2404	0.2366	0.231	4.71	-1	-1	2.9		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.0950	0.0914	0.0999	0.1091	0.1296	0.1313	0.1476	-----	-----	0.115	4.79	0.997	1.00	19	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloroethane-d4	1	0	Avg	0.1453	0.1441	0.1450	0.1453	0.1476	0.1437	0.1418	0.1405	0.1432	0.144	4.92	-1	-1	1.5		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.1294	0.1435	0.1403	0.1389	0.1483	0.1541	0.1730	-----	-----	0.147	4.96	0.997	1.00	9.5	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Butanone	1	0	Avg	0.0436	0.0591	0.0462	0.0512	0.0651	0.0519	0.0574	-----	-----	0.0535	4.42	0.996	0.997	14	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,1-Trichloroethane	1	0	Avg	0.1204	0.1256	0.1018	0.1333	0.1479	0.1501	0.1664	-----	-----	0.135	4.75	0.998	1.00	16	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Carbon Tetrachloride	1	0	Avg	0.1101	0.1098	0.1093	0.1223	0.1367	0.1379	0.1542	-----	-----	0.126	4.85	0.997	1.00	14	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Acetate	1	0	Avg	0.2682	0.2541	0.2570	0.3042	0.3267	0.2998	0.2983	-----	-----	0.287	4.03	1.00	1.00	9.5		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromodichloromethan	1	0	Avg	0.1223	0.1277	0.1200	0.1350	0.1417	0.1429	0.1582	-----	-----	0.135	5.58	0.998	1.00	9.9	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 12.9

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

3121329 0146

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_6

Level #	Data File:	Cal Identifier:	Analysis Date/Time	Level #	Data File:	Cal Identifier:	Analysis Date/Time
1	6M176462.D	CAL @ 20 PPB	11/28/23 00:45	2	6M176461.D	CAL @ 5 PPB	11/28/23 00:23
3	6M176460.D	CAL @ 2 PPB	11/28/23 00:02	4	6M176463.D	CAL @ 50 PPB	11/28/23 01:07
5	6M176465.D	CAL @ 100 PPB	11/28/23 01:51	6	6M176467.D	CAL @ 250 PPB	11/28/23 02:35
7	6M176470.D	CAL @ 500 PPB	11/28/23 03:41	8	6M176459.D	CAL @ 1 PPB	11/27/23 23:40
9	6M176458.D	CAL @ 0.5 PPB	11/27/23 23:18				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Qua	0.1105	0.0995	0.1114	0.1323	0.1531	0.1598	0.1883	-----	-----	0.136	5.44	0.995	1.00	24	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromomethane	1	0	Avg	0.0553	0.0595	0.0583	0.0589	0.0618	0.0643	0.0720	-----	-----	0.0615	5.51	0.997	1.00	8.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloropropane	1	0	Avg	0.0857	0.0868	0.0821	0.0934	0.1063	0.1109	0.1262	-----	-----	0.0988	5.44	0.996	1.00	16	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichloroethene	1	0	Avg	0.0794	0.0788	0.0781	0.0853	0.0990	0.1004	0.1153	-----	-----	0.0910	5.32	0.996	1.00	16	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Benzene	1	0	Avg	0.3494	0.3444	0.3243	0.4019	0.4479	0.4574	0.5035	0.4450	-----	0.409	4.96	0.998	1.00	16	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
tert-Amyl methyl ether	1	0	Avg	0.2273	0.2280	0.1938	0.2505	0.2714	0.2747	0.2924	-----	-----	0.248	5.01	0.999	1.00	14		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iso-propylacetate	1	0	Avg	0.2288	0.2446	0.2465	0.2494	0.2638	0.2850	0.3191	-----	-----	0.262	4.96	0.997	1.00	12	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl methacrylate	1	0	Avg	0.0976	0.1128	0.0951	0.1227	0.1329	0.1361	0.1413	-----	-----	0.120	5.47	1.00	1.00	15	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromochloromethan	1	0	Avg	0.1374	0.1345	0.1290	0.1468	0.1468	0.1526	0.1644	-----	-----	0.145	6.43	0.999	1.00	8.3	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chloroethylvinylethe	1	0	Qua	0.0098	0.0121	0.0146	0.0134	0.0168	0.0199	0.0250	-----	-----	0.0160	5.72	0.989	1.00	32		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,3-Dichloropropen	1	0	Avg	0.1896	0.2027	0.1748	0.2092	0.2188	0.2271	0.2456	-----	-----	0.210	5.82	0.999	1.00	11	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,3-Dichloroprop	1	0	Avg	0.1808	0.1810	0.1883	0.1944	0.2034	0.2149	0.2259	-----	-----	0.198	6.10	0.999	1.00	8.7	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl methacrylate	1	0	Avg	0.0960	0.1036	0.1017	0.1100	0.1219	0.1267	0.1349	-----	-----	0.114	6.12	0.999	1.00	13	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloroethane	1	0	Avg	0.1183	0.1358	0.1220	0.1257	0.1311	0.1326	0.1423	-----	-----	0.130	6.20	0.999	1.00	6.4	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromoethane	1	0	Avg	0.1203	0.1165	0.1154	0.1196	0.1231	0.1250	0.1345	0.1697	-----	0.128	6.51	0.999	1.00	14	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichloropropane	1	0	Avg	0.2080	0.2033	0.1732	0.2268	0.2314	0.2444	0.2650	-----	-----	0.222	6.30	0.998	1.00	14		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Methyl-2-Pentanone	1	0	Avg	0.1319	0.1143	0.1189	0.1389	0.1469	0.1561	0.1668	-----	-----	0.139	5.88	0.999	1.00	14	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Hexanone	1	0	Avg	0.0879	0.1034	0.0993	0.1056	0.1101	0.1212	0.1310	-----	-----	0.108	6.31	0.998	1.00	13	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Tetrachloroethene	1	0	Avg	0.0802	0.0725	0.0897	0.0885	0.0993	0.1036	0.1203	-----	-----	0.0935	6.31	0.995	1.00	17	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Toluene-d8	1	0	Avg	1.4175	1.4202	1.3909	1.3895	1.3592	1.3864	1.3419	1.3943	1.3839	1.39	5.97	-1	-1	1.8		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.2821	0.3145	0.2878	0.3248	0.3437	0.3490	0.3846	0.3675	-----	0.332	6.01	0.998	1.00	11	0.40 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.1077	0.1183	0.1103	0.1200	0.1285	0.1350	0.1475	-----	-----	0.124	6.79	0.998	1.00	11		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chlorobenzene	1	0	Avg	0.3247	0.3060	0.3281	0.3687	0.3787	0.3888	0.4171	-----	-----	0.359	6.76	0.999	1.00	11	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Butyl acrylate	1	0	Avg	0.4531	0.4422	0.4414	0.5318	0.5764	0.6324	0.7024	-----	-----	0.540	7.01	0.997	1.00	19	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Amyl acetate	1	0	Avg	0.3503	0.3466	0.3632	0.4160	0.4418	0.4681	0.4875	-----	-----	0.411	7.12	0.999	1.00	14	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromoform	1	0	Avg	0.1856	0.1940	0.2061	0.2085	0.2086	0.2099	0.2335	-----	-----	0.207	7.21	0.998	1.00	7.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethylbenzene	1	0	Avg	0.2863	0.2791	0.3026	0.3499	0.3608	0.3884	0.4518	0.2936	-----	0.339	6.81	0.995	1.00	18	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.3789	0.4084	0.4131	0.3875	0.3885	0.3861	0.4240	-----	-----	0.398	7.43	0.998	1.00	4.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromofluorobenzene	1	0	Avg	0.7242	0.7666	0.7245	0.7430	0.7252	0.7305	0.7300	0.7320	0.7529	0.737	7.38	-1	-1	2.0		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	0.6749	0.6310	0.6141	0.7791	0.8617	0.8660	0.9748	-----	-----	0.772	7.09	0.997	1.00	18	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
m&p-Xylenes	1	0	Avg	0.4013	0.3636	0.3550	0.4551	0.4928	0.5024	0.5762	0.5131	0.5288	0.465	6.87	0.996	1.00	17	0.10	40.00	10.00	4.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	0.4177	0.4036	0.3803	0.4739	0.5049	0.5147	0.5845	0.5822	-----	0.483	7.09	0.997	1.00	16	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.1151	0.1125	0.1159	0.1294	0.1408	0.1502	0.1676	-----	-----	0.133	7.45	0.997	1.00	16		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3-Dichlorobenzene	1	0	Avg	0.4648	0.4586	0.4370	0.5416	0.5511	0.5556	0.6160	-----	-----	0.518	8.00	0.998	1.00	13	0.60 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dichlorobenzene	1	0	Avg	0.4766	0.4785	0.5118	0.5306	0.5529	0.5474	0.6128	-----	-----	0.530	8.05	0.997	1.00	9.0	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichlorobenzene	1	0	Avg	0.4621	0.5051	0.4168	0.5376	0.5435	0.5424	0.5995	-----	-----	0.515	8.28	0.998	1.00	12	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Isopropylbenzene	1	0	Avg	0.9246	0.9779	0.7960	1.0771	1.1681	1.1717	1.2820	1.0544	-----	1.06	7.28	0.998	1.00	15	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Qua	0.0136	0.0219	0.0194	0.0145	0.0131	0.0166	0.0113	-----	-----	0.0158	7.35	0.958	0.990	24		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Camphene	1	0	Avg	0.2512	0.2770	0.2341	0.2931	0.3276	0.3462	0.4045	-----	-----	0.305	7.46	0.995	1.00	19		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichloropropane	1	0	Avg	0.4128	0.4325	0.4208	0.4539	0.4780	0.4939	0.5437	-----	-----	0.462	7.46	0.998	1.00	10		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chlorotoluene	1	0	Avg	0.5553	0.5843	0.4623	0.6693	0.7186	0.6911	0.7933	-----	-----	0.639	7.58	0.996	1.00	17		20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 12.9

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_6

Level #	Data File:	Cal Identifier:	Analysis Date/Time	Level #	Data File:	Cal Identifier:	Analysis Date/Time
1	6M176462.D	CAL @ 20 PPB	11/28/23 00:45	2	6M176461.D	CAL @ 5 PPB	11/28/23 00:23
3	6M176460.D	CAL @ 2 PPB	11/28/23 00:02	4	6M176463.D	CAL @ 50 PPB	11/28/23 01:07
5	6M176465.D	CAL @ 100 PPB	11/28/23 01:51	6	6M176467.D	CAL @ 250 PPB	11/28/23 02:35
7	6M176470.D	CAL @ 500 PPB	11/28/23 03:41	8	6M176459.D	CAL @ 1 PPB	11/27/23 23:40
9	6M176458.D	CAL @ 0.5 PPB	11/27/23 23:18				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	0.9827	0.9547	0.8473	1.1919	1.2699	1.2560	1.4150	-----	-----	1.13	7.57	0.997	1.00	18		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Chlorotoluene	1	0	Avg	0.5740	0.6049	0.4541	0.6454	0.7014	0.6542	0.7589	-----	-----	0.628	7.63	0.996	0.999	16		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Propylbenzene	1	0	Avg	1.1545	1.1080	1.0439	1.3598	1.4489	1.4346	1.4959	1.3819	-----	1.30	7.51	1.00	1.00	13		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	0.5946	0.6360	0.5759	0.6861	0.7191	0.7328	0.8055	-----	-----	0.679	7.48	0.998	1.00	12		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3,5-Trimethylbenzen	1	0	Avg	0.7610	0.7510	0.6564	0.8898	0.9317	0.9387	1.0897	0.8531	-----	0.859	7.59	0.996	1.00	16		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Qua	0.2467	0.2414	0.2476	0.3122	0.3400	0.3555	0.4051	-----	-----	0.307	7.60	0.996	1.00	21	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
t-Butylbenzene	1	0	Avg	0.7644	0.7877	0.7361	0.9020	0.9774	1.0031	1.1326	0.8637	-----	0.896	7.79	0.997	1.00	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Avg	0.8204	0.7625	0.8068	0.9845	1.0282	1.0215	1.1369	0.9549	-----	0.940	7.81	0.998	1.00	14		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	1.0046	0.9377	0.9343	1.2178	1.2855	1.2826	1.4150	1.1934	-----	1.16	7.92	0.998	1.00	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Avg	0.8531	0.8502	0.9090	1.0018	1.0807	1.0786	1.2214	1.1789	-----	1.02	7.98	0.997	1.00	14		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Avg	0.9724	0.8494	0.7914	1.1822	1.2516	1.2090	1.3717	1.1719	-----	1.10	8.22	0.997	1.00	19		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	0.4608	0.4873	0.4364	0.5846	0.6219	0.6421	0.7550	-----	-----	0.570	8.20	0.995	1.00	20		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4,5-Tetramethylbe	1	0	Avg	0.7195	0.7258	0.6837	0.8496	0.9434	1.0007	1.1584	-----	-----	0.869	8.67	0.996	1.00	20		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromo-3-Chloro	1	0	Avg	0.0771	0.0730	0.0906	0.0836	0.0856	0.0861	0.0947	-----	-----	0.0844	8.72	0.998	1.00	8.8	0.05	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Camphor	1	0	Qua	0.0271	0.0355	0.0304	0.0369	0.0400	0.0451	0.0530	-----	-----	0.0383	9.16	0.994	1.00	23		200.0	50.00	20.00	500.0	1000.	2500.	5000.		
Hexachlorobutadiene	1	0	Avg	0.1402	0.1247	0.1623	0.1662	0.1764	0.1855	0.2234	-----	-----	0.168	9.31	0.993	1.00	19		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4-Trichlorobenzen	1	0	Avg	0.2851	0.2887	0.2990	0.3438	0.3724	0.3737	0.4426	-----	-----	0.344	9.22	0.994	1.00	17	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichlorobenzen	1	0	Qua	0.2689	0.2585	0.2268	0.3388	0.3586	0.3749	0.4496	-----	-----	0.325	9.52	0.994	1.00	24		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Naphthalene	1	0	Qua	0.8480	0.8237	0.6770	1.0682	1.1497	1.2213	1.3621	0.9500	-----	1.01	9.38	0.997	1.00	23		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	

Flags	*Note:* Avg Rsd: 12.9
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_11

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	11M117827.D	CAL @ 20 PPB	12/02/23 02:09	2	11M117825.D	CAL @ 5 PPB	12/02/23 01:28
3	11M117826.D	CAL @ 10 PPB	12/02/23 01:48	4	11M117829.D	CAL @ 50 PPB	12/02/23 02:49
5	11M117832.D	CAL @ 100 PPB	12/02/23 03:49	6	11M117836.D	CAL @ 250 PPB	12/02/23 05:09
7	11M117824.D	CAL @ 1 PPB	12/02/23 01:08	8	11M117823.D	CAL @ 0.5 PPB	12/02/23 00:48

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.3024	0.3132	0.3343	0.3493	0.3572	0.2916	-----	0.3228	-----	0.324	1.67	0.992	0.999	7.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Dichlorodifluorometha	1	0	Avg	0.2853	0.3049	0.3280	0.3669	0.3758	0.3004	-----	0.3225	-----	0.326	1.67	0.989	0.999	10	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Chloromethane	1	0	Avg	0.2299	0.2376	0.2363	0.2500	0.2473	0.2035	-----	0.2317	-----	0.234	1.84	0.992	1.00	6.5	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Bromomethane	1	0	Avg	0.1716	0.1722	0.1747	0.2008	0.2286	0.1924	-----	0.1844	-----	0.189	2.24	0.994	0.998	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Vinyl Chloride	1	0	Avg	0.2545	0.2595	0.2756	0.2903	0.2902	0.2392	-----	0.2672	-----	0.268	1.94	0.992	1.00	7.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Chloroethane	1	0	Avg	0.1678	0.1703	0.1744	0.1858	0.1803	0.1460	-----	0.1835	-----	0.173	2.33	0.990	1.00	7.8	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Trichlorofluoromethan	1	0	Avg	0.4667	0.5325	0.5792	0.5873	0.6013	0.4844	-----	0.5355	-----	0.541	2.55	0.990	0.999	9.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Ethyl ether	1	0	Qua	0.1642	0.1717	0.1683	0.1775	0.1798	0.1491	-----	0.0591	-----	0.153	2.77	0.993	1.00	28	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Furan	1	0	Avg	0.3847	0.3902	0.4058	0.4233	0.4199	0.3375	-----	0.4371	-----	0.400	2.81	0.990	1.00	8.3	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.2007	0.2503	0.2661	0.2703	0.2867	0.2291	-----	0.2588	-----	0.252	2.97	0.989	0.998	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Methylene Chloride	1	0	Avg	0.2500	0.2471	0.2665	0.2779	0.2720	0.2233	-----	0.2925	-----	0.261	3.37	0.992	1.00	8.8	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Acrolein	1	0	Avg	0.0197	0.0189	0.0200	0.0223	0.0212	0.0182	-----	0.0164	-----	0.0196	2.88	0.994	1.00	9.9		100.0	25.00	50.00	250.0	500.0	1250.		5.00	
Acrylonitrile	1	0	Avg	0.0563	0.0493	0.0563	0.0625	0.0611	0.0502	-----	0.0470	-----	0.0547	3.56	0.991	1.00	11		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Iodomethane	1	0	Qua	0.4274	0.2646	0.3450	0.5235	0.5591	0.5178	-----	0.1875	-----	0.404	3.11	0.998	1.00	35		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Acetone	1	0	Avg	0.0478	0.0493	0.0477	0.0522	0.0503	0.0412	-----	0.0586	-----	0.0496	3.01	0.991	1.00	11	0.10 a	100.0	25.00	50.00	250.0	500.0	1250.		5.00	
Carbon Disulfide	1	0	Avg	0.5622	0.5773	0.5965	0.6933	0.7013	0.5668	-----	0.6103	-----	0.615	3.18	0.990	0.999	9.5	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
t-Butyl Alcohol	1	0	Avg	0.0133	0.0121	0.0128	0.0152	0.0153	0.0140	-----	0.0092	-----	0.0132	3.43	0.998	1.00	16		100.0	25.00	50.00	250.0	500.0	1250.		5.00	
n-Hexane	1	0	Avg	0.1124	0.1534	0.1649	0.1771	0.1932	0.1535	-----	0.1448	-----	0.157	3.81	0.988	0.997	16		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Di-isopropyl-ether	1	0	Avg	0.5938	0.5933	0.6022	0.6759	0.6682	0.5469	-----	0.5955	-----	0.611	3.95	0.991	1.00	7.5		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1,1-Dichloroethene	1	0	Avg	0.3160	0.3354	0.3442	0.3752	0.3734	0.2992	-----	0.3330	-----	0.340	2.98	0.989	0.999	8.2	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Methyl Acetate	1	0	Avg	0.1111	0.1203	0.1171	0.1255	0.1176	0.0964	-----	0.1053	-----	0.113	3.27	0.991	1.00	8.7	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Methyl-t-butyl ether	1	0	Avg	0.5507	0.5538	0.5442	0.6159	0.6110	0.5198	-----	0.5792	0.5449	0.565	3.59	0.995	1.00	6.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	0.50
1,1-Dichloroethane	1	0	Avg	0.3711	0.3844	0.3853	0.4173	0.4184	0.3376	-----	0.3967	-----	0.387	3.92	0.990	1.00	7.2	0.20	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
trans-1,2-Dichloroethe	1	0	Avg	0.2800	0.2851	0.2912	0.3171	0.3165	0.2611	-----	0.2795	-----	0.290	3.60	0.992	1.00	7.1	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Ethyl-t-butyl ether	1	0	Avg	0.5351	0.5344	0.5379	0.6075	0.6149	0.5103	-----	0.5445	-----	0.555	4.19	0.993	1.00	7.2	0.50	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
cis-1,2-Dichloroethene	1	0	Avg	0.3520	0.3597	0.3742	0.3999	0.4000	0.3315	-----	0.3534	-----	0.367	4.30	0.993	1.00	7.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Bromochloromethane	1	0	Avg	0.1589	0.1666	0.1589	0.1740	0.1682	0.1377	-----	0.1787	-----	0.163	4.45	0.991	1.00	8.2		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
2,2-Dichloropropane	1	0	Avg	0.3119	0.3077	0.3297	0.3745	0.3841	0.3121	-----	0.3230	-----	0.335	4.31	0.991	0.999	9.4		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Ethyl acetate	1	0	Avg	0.1712	0.1603	0.1510	0.1833	0.1722	0.1456	-----	0.1608	-----	0.164	4.32	0.993	1.00	8.0		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1,4-Dioxane	1	0	Avg	0.0024	0.0023	0.0023	0.0027	0.0026	0.0027	-----	0.0020	-----	0.00248	5.33	1.00	1.00	11		1000.	250.0	500.0	2500.	5000.	12500		50.00	
1,1-Dichloropropene	1	0	Avg	0.2979	0.3209	0.3383	0.3578	0.3683	0.3076	-----	0.3325	-----	0.332	4.69	0.993	0.999	7.7		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Chloroform	1	0	Avg	0.4574	0.4870	0.4810	0.5140	0.5090	0.4158	-----	0.5189	-----	0.483	4.49	0.991	1.00	7.6	0.20	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Dibromofluoromethan	1	0	Avg	0.3272	0.3342	0.3332	0.3329	0.3390	0.2728	-----	0.3400	0.3251	0.326	4.58	-1	-1	6.7		30.00	30.00	30.00	30.00	30.00	30.00		30.00	30.00
Cyclohexane	1	0	Avg	0.1896	0.2474	0.2643	0.2647	0.2916	0.2539	-----	0.2360	-----	0.250	4.65	0.996	0.998	13	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1,2-Dichloroethane-d4	1	0	Avg	0.1044	0.1074	0.1093	0.1030	0.1073	0.0912	-----	0.1121	0.1077	0.105	4.77	-1	-1	6.0		30.00	30.00	30.00	30.00	30.00	30.00		30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.3055	0.3026	0.3059	0.3359	0.3290	0.2786	-----	0.3107	0.3474	0.315	4.82	0.994	1.00	7.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	0.50
2-Butanone	1	0	Avg	0.0639	0.0637	0.0648	0.0686	0.0673	0.0594	-----	0.0618	-----	0.0643	4.30	0.997	1.00	4.8	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1,1,1-Trichloroethane	1	0	Avg	0.4351	0.4478	0.4646	0.5072	0.5185	0.4281	-----	0.4401	-----	0.463	4.61	0.992	0.999	7.8	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Carbon Tetrachloride	1	0	Avg	0.3899	0.4073	0.4344	0.4772	0.5097	0.4329	-----	0.4259	-----	0.440	4.70	0.995	0.999	9.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Vinyl Acetate	1	0	Avg	0.6281	0.6175	0.6245	0.7377	0.7321	0.6168	-----	0.5769	-----	0.648	3.94	0.994	1.00	9.6		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Bromodichloromethan	1	0	Avg	0.3312	0.3226	0.3239	0.3645	0.3727	0.3431	-----	0.3190	-----	0.340	5.41	0.999	1.00	6.3	0.20	20.00	5.00	10.00	50.00	100.0	250.0		1.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 15.07

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

3121329 0149

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_11

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	11M117827.D	CAL @ 20 PPB	12/02/23 02:09	2	11M117825.D	CAL @ 5 PPB	12/02/23 01:28
3	11M117826.D	CAL @ 10 PPB	12/02/23 01:48	4	11M117829.D	CAL @ 50 PPB	12/02/23 02:49
5	11M117832.D	CAL @ 100 PPB	12/02/23 03:49	6	11M117836.D	CAL @ 250 PPB	12/02/23 05:09
7	11M117824.D	CAL @ 1 PPB	12/02/23 01:08	8	11M117823.D	CAL @ 0.5 PPB	12/02/23 00:48

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.1920	0.2670	0.2875	0.3024	0.3339	0.3057	-----	0.2627	-----	0.279	5.27	0.997	0.998	16	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Dibromomethane	1	0	Avg	0.2133	0.2107	0.2200	0.2366	0.2333	0.2323	-----	0.2144	-----	0.223	5.34	1.00	1.00	4.9		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1,2-Dichloropropane	1	0	Avg	0.2022	0.1998	0.2063	0.2255	0.2268	0.2025	-----	0.2078	-----	0.210	5.28	0.997	1.00	5.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Trichloroethene	1	0	Avg	0.3958	0.4093	0.4147	0.4437	0.4446	0.4135	-----	0.4165	-----	0.420	5.15	0.999	1.00	4.3	0.20	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Benzene	1	0	Avg	0.9300	0.9601	0.9754	1.0322	1.0391	0.9265	-----	0.9350	0.9799	0.972	4.81	0.997	1.00	4.5	0.50	20.00	5.00	10.00	50.00	100.0	250.0		1.00	0.50
tert-Amyl methyl ether	1	0	Avg	0.5532	0.5367	0.5361	0.6175	0.6234	0.5829	-----	0.5330	-----	0.569	4.85	0.999	1.00	6.9		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Iso-propylacetate	1	0	Avg	0.2832	0.2734	0.2732	0.3193	0.3083	0.2741	-----	0.3057	-----	0.291	4.81	0.997	1.00	6.7	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Methyl methacrylate	1	0	Avg	0.1606	0.1535	0.1377	0.1720	0.1638	0.1476	-----	0.1313	-----	0.152	5.30	0.997	1.00	9.5	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Dibromochloromethan	1	0	Avg	0.3085	0.2916	0.3097	0.3552	0.3582	0.2443	-----	0.2557	-----	0.303	6.23	0.965	0.999	15	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
2-Chloroethylvinylethe	1	0	Avg	0.0826	0.0797	0.0817	0.0954	0.0924	0.0877	-----	0.0583	-----	0.0826	5.54	0.999	1.00	15		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
cis-1,3-Dichloropropen	1	0	Avg	0.3233	0.3044	0.3197	0.3663	0.3674	0.3435	-----	0.2897	-----	0.331	5.64	0.999	1.00	9.0	0.20	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
trans-1,3-Dichloroprop	1	0	Avg	0.2807	0.2477	0.2661	0.3214	0.3272	0.2639	-----	0.2230	-----	0.276	5.91	0.990	0.999	14	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Ethyl methacrylate	1	0	Avg	0.1488	0.1352	0.1439	0.1753	0.1708	0.0907	-----	0.1280	-----	0.142	5.93	0.887	0.997	20	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1,1,2-Trichloroethane	1	0	Avg	0.2147	0.2107	0.2144	0.2348	0.2231	0.1786	-----	0.1966	-----	0.210	6.02	0.989	1.00	8.7	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1,2-Dibromoethane	1	0	Avg	0.2384	0.2299	0.2268	0.2599	0.2550	0.1949	-----	0.2103	-----	0.231	6.31	0.984	1.00	10	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1,3-Dichloropropane	1	0	Avg	0.3120	0.3179	0.3172	0.3462	0.3330	0.2779	-----	0.3060	-----	0.316	6.11	0.993	1.00	6.8		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
4-Methyl-2-Pentanone	1	0	Avg	0.1382	0.1328	0.1361	0.1546	0.1463	0.1387	-----	0.1316	-----	0.140	5.70	0.999	1.00	5.8	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
2-Hexanone	1	0	Avg	0.0970	0.0858	0.0923	0.1082	0.1053	0.0732	-----	0.0764	-----	0.0912	6.12	0.968	0.999	15	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Tetrachloroethene	1	0	Avg	0.2591	0.2687	0.2752	0.2946	0.2980	0.2717	-----	0.2686	-----	0.277	6.11	0.998	1.00	5.2	0.20	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Toluene-d8	1	0	Avg	1.0644	1.0398	1.0699	1.0580	1.0442	0.9714	-----	1.0396	1.0549	1.04	5.78	-1	-1	3.0		30.00	30.00	30.00	30.00	30.00	30.00		30.00	30.00
Toluene	1	0	Avg	0.6334	0.6387	0.6534	0.7020	0.6780	0.6508	-----	0.6597	-----	0.659	5.82	0.999	1.00	3.6	0.40	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.2899	0.2685	0.2858	0.3314	0.3330	0.2606	-----	0.2333	-----	0.286	6.59	0.987	0.999	13		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Chlorobenzene	1	0	Avg	0.7914	0.8125	0.8236	0.8740	0.8587	0.7606	-----	0.7535	-----	0.811	6.56	0.997	1.00	5.7	0.50	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
n-Butyl acrylate	1	0	Qua	0.5691	0.5042	0.5281	0.6257	1.2712	-----	-----	0.4629	-----	0.660	6.79	0.939	0.998	46	0.50 a	20.00	5.00	10.00	50.00	100.0			1.00	
n-Amyl acetate	1	0	Qua	0.4636	0.4028	0.4245	0.4962	0.7650	-----	-----	0.3472	-----	0.483	6.91	0.970	0.999	30	0.50 a	20.00	5.00	10.00	50.00	100.0			1.00	
Bromoform	1	0	Qua	0.3127	0.3024	0.3028	0.3443	0.7612	-----	-----	0.2295	-----	0.376	7.00	0.929	0.997	51	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
Ethylbenzene	1	0	Qua	0.6577	0.6715	0.6584	0.6673	1.2289	-----	-----	0.7448	-----	0.771	6.60	0.949	0.998	29	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
1,1,2,2-Tetrachloroeth	1	0	Qua	0.4276	0.4167	0.4176	0.4340	0.9000	-----	-----	0.4012	-----	0.500	7.21	0.936	0.997	39	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
Bromofluorobenzene	1	0	Avg	0.8069	0.8148	0.8113	0.7465	1.7276	0.4238	-----	0.8144	0.8106	0.870	7.16	-1	-1	43		30.00	30.00	30.00	30.00	30.00	30.00		30.00	30.00
Styrene	1	0	Qua	1.5157	1.5308	1.5295	1.5452	3.3590	-----	-----	1.3961	-----	1.81	6.88	0.930	0.997	42	0.30	20.00	5.00	10.00	50.00	100.0			1.00	
m&p-Xylenes	1	0	Qua	0.9391	0.9295	0.9599	0.9508	1.9177	-----	-----	0.9351	1.0309	1.09	6.66	0.938	0.997	33	0.10	40.00	10.00	20.00	100.0	200.0			2.00	1.00
o-Xylene	1	0	Qua	0.9260	0.9461	0.9424	0.9420	2.0281	-----	-----	0.8614	-----	1.11	6.87	0.931	0.997	41	0.30	20.00	5.00	10.00	50.00	100.0			1.00	
trans-1,4-Dichloro-2-b	1	0	Qua	0.1108	0.1111	0.1225	0.1301	0.2305	-----	-----	0.1073	-----	0.135	7.24	0.953	0.999	35		20.00	5.00	10.00	50.00	100.0			1.00	
1,3-Dichlorobenzene	1	0	Avg	1.1219	1.1382	1.1199	1.2309	1.1533	0.8752	-----	1.0754	-----	1.10	7.78	0.982	1.00	10	0.60	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1,4-Dichlorobenzene	1	0	Avg	1.1088	1.1381	1.1365	1.2582	1.2152	1.4879	-----	1.1476	-----	1.21	7.82	0.995	1.00	11	0.50	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1,2-Dichlorobenzene	1	0	Avg	0.9868	1.0016	0.9924	1.0848	1.0509	0.8632	-----	0.9458	-----	0.989	8.05	0.992	1.00	7.3	0.40	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Isopropylbenzene	1	0	Qua	1.9471	2.1085	2.1003	2.0737	4.4502	-----	-----	1.9589	-----	2.44	7.06	0.931	0.997	40	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
Cyclohexanone	1	0	Qua	0.0135	0.0138	0.0169	0.0135	0.0195	-----	-----	0.0042	-----	0.0136	7.14	0.976	0.998	38		100.0	25.00	50.00	250.0	500.0			5.00	
Camphene	1	0	Qua	0.3032	0.4050	0.4199	0.4074	0.9236	-----	-----	0.3983	-----	0.476	7.23	0.923	0.998	47		20.00	5.00	10.00	50.00	100.0			1.00	
1,2,3-Trichloropropane	1	0	Qua	0.4633	0.4596	0.4546	0.4836	0.9469	-----	-----	0.4464	-----	0.542	7.25	0.942	0.998	37		20.00	5.00	10.00	50.00	100.0			1.00	
2-Chlorotoluene	1	0	Avg	1.1569	1.1364	1.1854	1.2107	1.5040	0.9176	-----	1.1661	-----	1.18	7.36	0.943	0.991	15		20.00	5.00	10.00	50.00	100.0	250.0		1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 15.07
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

3121329 0150

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_11

Level #	Data File:	Cal Identifier:	Analysis Date/Time	Level #	Data File:	Cal Identifier:	Analysis Date/Time
1	11M117827.D	CAL @ 20 PPB	12/02/23 02:09	2	11M117825.D	CAL @ 5 PPB	12/02/23 01:28
3	11M117826.D	CAL @ 10 PPB	12/02/23 01:48	4	11M117829.D	CAL @ 50 PPB	12/02/23 02:49
5	11M117832.D	CAL @ 100 PPB	12/02/23 03:49	6	11M117836.D	CAL @ 250 PPB	12/02/23 05:09
7	11M117824.D	CAL @ 1 PPB	12/02/23 01:08	8	11M117823.D	CAL @ 0.5 PPB	12/02/23 00:48

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Qua	1.9803	2.1593	2.0417	2.2256	3.3668	-----	-----	2.1331	-----	2.32	7.34	0.971	0.999	22		20.00	5.00	10.00	50.00	100.0			1.00	
4-Chlorotoluene	1	0	Avg	1.1170	1.1724	1.1674	1.2465	0.9974	1.0727	-----	1.0833	-----	1.12	7.41	0.998	0.998	7.2		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
n-Propylbenzene	1	0	Qua	2.0572	2.1800	2.1946	2.1780	3.7690	-----	-----	2.1529	-----	2.42	7.29	0.956	0.998	27		20.00	5.00	10.00	50.00	100.0			1.00	
Bromobenzene	1	0	Qua	0.9573	1.0091	0.9851	0.9908	1.8796	-----	-----	0.9957	-----	1.14	7.26	0.946	0.998	32		20.00	5.00	10.00	50.00	100.0			1.00	
1.3.5-Trimethylbenzen	1	0	Avg	1.6454	1.6033	1.7290	1.6923	1.7541	1.4620	-----	1.5532	-----	1.63	7.37	0.994	1.00	6.3		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Butyl methacrylate	1	0	Avg	0.4514	0.3610	0.3765	0.4929	-----	-----	-----	0.2977	-----	0.396	7.38	0.998	0.999	19	0.50 a	20.00	5.00	10.00	50.00				1.00	
t-Butylbenzene	1	0	Avg	1.6699	1.7762	1.8040	1.8974	1.6643	0.9518	-----	1.7798	-----	1.65	7.57	0.909	0.999	19		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1.2.4-Trimethylbenzen	1	0	Qua	1.6870	1.6936	1.7215	1.8567	1.3761	0.8484	-----	1.6261	-----	1.54	7.59	0.917	0.996	22		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
sec-Butylbenzene	1	0	Qua	1.6805	1.8618	1.9159	2.0088	1.6709	0.8146	-----	1.8270	-----	1.68	7.69	0.833	0.998	24		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
4-Isopropyltoluene	1	0	Qua	1.6511	1.7091	1.7774	1.9426	1.6891	0.7982	-----	1.7471	-----	1.62	7.76	0.823	0.998	23		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
n-Butylbenzene	1	0	Qua	1.2443	1.3016	1.3687	1.5088	1.1666	0.6738	-----	1.2786	-----	1.22	7.99	0.898	0.997	22		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
p-Diethylbenzene	1	0	Avg	0.9059	0.9230	0.9738	1.0670	1.0198	0.5585	-----	0.9170	-----	0.909	7.98	0.899	0.998	18		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1.2.4.5-Tetramethylbe	1	0	Avg	1.2313	1.2054	1.2395	1.3705	-----	-----	-----	1.1632	-----	1.24	8.43	0.998	1.00	6.3		20.00	5.00	10.00	50.00				1.00	
1.2-Dibromo-3-Chloro	1	0	Qua	0.0862	0.0738	0.0828	0.0947	0.1918	-----	-----	0.0414	-----	0.0952	8.49	0.939	0.998	53	0.05 a	20.00	5.00	10.00	50.00	100.0			1.00	
Camphor	1	0	Avg	0.0320	0.0288	0.0285	0.0342	-----	-----	-----	0.0269	0.0203	0.0285	8.93	0.999	1.00	17		200.0	50.00	100.0	500.0				10.00	5.00
Hexachlorobutadiene	1	0	Avg	0.1209	0.1278	0.1358	0.1475	-----	-----	-----	0.1190	-----	0.130	9.07	0.995	0.999	9.0		20.00	5.00	10.00	50.00				1.00	
1.2.4-Trichlorobenzen	1	0	Avg	0.2903	0.2596	0.2753	0.3147	-----	-----	-----	0.2326	-----	0.275	8.98	0.999	1.00	11	0.20	20.00	5.00	10.00	50.00				1.00	
1.2.3-Trichlorobenzen	1	0	Avg	0.1894	0.1720	0.1602	0.1957	-----	-----	-----	0.1687	-----	0.177	9.29	0.999	0.999	8.4		20.00	5.00	10.00	50.00				1.00	
Naphthalene	1	0	Avg	0.6740	0.5777	0.5721	0.7162	-----	-----	-----	0.5385	-----	0.616	9.14	0.999	0.999	12		20.00	5.00	10.00	50.00				1.00	

Flags	*Note:* Avg Rsd: 15.07
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

3121329 0151

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_1

Level #	Data File:	Cal Identifier:	Analysis Date/Time	Level #	Data File:	Cal Identifier:	Analysis Date/Time
1	1M181429.D	CAL @ 20 PPB	12/06/23 19:26	2	1M181442.D	CAL @ 5 PPB	12/06/23 23:47
3	1M181443.D	CAL @ 10 PPB	12/07/23 00:08	4	1M181447.D	CAL @ 50 PPB	12/07/23 01:34
5	1M181450.D	CAL @ 100 PPB	12/07/23 02:39	6	1M181453.D	CAL @ 250 PPB	12/07/23 03:43
7	1M181441.D	CAL @ 1 PPB	12/06/23 23:25	8	1M181440.D	CAL @ 0.5 PPB	12/06/23 23:04

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.1348	0.2368	0.2281	0.2310	0.2346	0.1947	-----	0.2247	-----	0.212	1.81	0.991	0.998	17	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Dichlorodifluorometha	1	0	Qua	0.0756	0.1677	0.1631	0.1756	0.1753	0.1399	-----	0.2007	-----	0.157	1.80	0.986	0.996	26	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Chloromethane	1	0	Qua	0.0908	0.1545	0.1600	0.1491	0.1449	0.1168	-----	0.2025	-----	0.146	1.99	0.989	0.998	24	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Bromomethane	1	0	Qua	0.0890	0.1513	0.1408	0.1316	0.1291	0.1329	-----	0.1961	-----	0.139	2.42	0.999	0.999	23	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Vinyl Chloride	1	0	Avg	0.1051	0.1625	0.1636	0.1645	0.1598	0.1343	-----	0.1802	-----	0.153	2.09	0.992	0.998	16	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Chloroethane	1	0	Avg	0.0874	0.1262	0.1281	0.1255	0.1228	0.1010	-----	0.1314	-----	0.118	2.51	0.991	0.999	14	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Trichlorofluoromethan	1	0	Avg	0.2351	0.3042	0.3140	0.3173	0.3186	0.2672	-----	0.2969	-----	0.293	2.74	0.993	0.999	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Ethyl ether	1	0	Avg	0.1080	0.1280	0.1395	0.1407	0.1373	0.1165	-----	0.1433	-----	0.131	3.00	0.994	0.999	10	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Furan	1	0	Avg	0.2091	0.2884	0.2894	0.2918	0.2846	0.2360	-----	0.2978	-----	0.271	3.04	0.992	0.999	13	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.1125	0.1430	0.1454	0.1444	0.1457	0.1205	-----	0.1559	-----	0.138	3.21	0.992	0.999	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Methylene Chloride	1	0	Avg	0.1392	0.1825	0.1846	0.1798	0.1748	0.1440	-----	0.2046	-----	0.173	3.64	0.992	0.999	13	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Acrolein	1	0	Avg	0.0247	0.0265	0.0259	0.0253	0.0248	0.0211	-----	0.0293	-----	0.0254	3.13	0.995	1.00	9.6		100.0	25.00	50.00	250.0	500.0	1250.		5.00	
Acrylonitrile	1	0	Avg	0.0613	0.0825	0.0842	0.0805	0.0784	0.0645	-----	0.0805	-----	0.0760	3.86	0.991	0.999	12		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Iodomethane	1	0	Avg	0.1388	0.1703	0.1810	0.2248	0.2288	0.1988	-----	0.1605	-----	0.186	3.36	0.995	0.999	18		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Acetone	1	0	Avg	0.0576	0.0664	0.0629	0.0615	0.0584	0.0493	-----	0.0809	-----	0.0625	3.27	0.994	1.00	16	0.10 a	100.0	25.00	50.00	250.0	500.0	1250.		5.00	
Carbon Disulfide	1	0	Avg	0.2710	0.3869	0.4012	0.4178	0.4245	0.3619	-----	0.4223	-----	0.384	3.43	0.994	0.999	14	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
t-Butyl Alcohol	1	0	Avg	0.0191	0.0230	0.0219	0.0220	0.0209	0.0184	-----	0.0250	-----	0.0215	3.74	0.997	1.00	11		100.0	25.00	50.00	250.0	500.0	1250.		5.00	
n-Hexane	1	0	Avg	0.1104	0.1238	0.1323	0.1309	0.1408	0.1137	-----	0.1484	-----	0.129	4.08	0.991	0.999	11		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Di-isopropyl-ether	1	0	Avg	0.3973	0.5309	0.5454	0.5780	0.5719	0.4907	-----	0.5074	-----	0.517	4.24	0.994	0.999	12		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1,1-Dichloroethene	1	0	Avg	0.1927	0.2464	0.2460	0.2533	0.2497	0.2080	-----	0.2632	-----	0.237	3.22	0.993	0.999	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Methyl Acetate	1	0	Avg	0.1086	0.1561	0.1538	0.1500	0.1403	0.1176	-----	0.1842	-----	0.144	3.55	0.992	0.999	18	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Methyl-t-butyl ether	1	0	Avg	0.3460	0.4617	0.4718	0.4739	0.4620	0.3842	-----	0.4594	0.4750	0.442	3.88	0.992	0.999	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	0.50
1,1-Dichloroethane	1	0	Avg	0.2755	0.3603	0.3575	0.3581	0.3457	0.2838	-----	0.3551	-----	0.334	4.21	0.991	0.999	11	0.20	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
trans-1,2-Dichloroethe	1	0	Avg	0.1347	0.1810	0.1826	0.1848	0.1801	0.1485	-----	0.1935	-----	0.172	3.88	0.991	0.999	13	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Ethyl-t-butyl ether	1	0	Avg	0.3896	0.4777	0.4979	0.5180	0.5184	0.4293	-----	0.4330	-----	0.466	4.49	0.992	0.999	11	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
cis-1,2-Dichloroethene	1	0	Avg	0.2838	0.3392	0.3494	0.3606	0.3532	0.3014	-----	0.3592	-----	0.335	4.60	0.994	0.999	9.1	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Bromochloromethane	1	0	Avg	0.1378	0.1650	0.1652	0.1675	0.1617	0.1253	-----	0.1745	-----	0.157	4.75	0.985	0.999	11		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
2,2-Dichloropropane	1	0	Avg	0.2368	0.2895	0.2900	0.2993	0.2990	0.2478	-----	0.2965	-----	0.280	4.61	0.992	0.999	9.3		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Ethyl acetate	1	0	Avg	0.1941	0.2530	0.2434	0.2490	0.2401	0.1635	-----	0.2095	-----	0.222	4.63	0.964	0.998	15		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1,4-Dioxane	1	0	Avg	0.0032	0.0035	0.0036	0.0038	0.0038	0.0037	-----	0.0034	-----	0.00360	5.68	1.00	1.00	6.1		1000.	250.0	500.0	2500.	5000.	12500		50.00	
1,1-Dichloropropene	1	0	Avg	0.2310	0.2719	0.3026	0.2974	0.2974	0.2546	-----	0.2897	-----	0.278	5.00	0.995	0.999	9.6		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Chloroform	1	0	Avg	0.3176	0.4066	0.4147	0.4043	0.3892	0.3206	-----	0.4215	-----	0.382	4.79	0.992	0.999	12	0.20	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Dibromofluoromethan	1	0	Avg	0.2736	0.2781	0.2769	0.2775	0.2645	0.2147	-----	0.2770	0.2766	0.267	4.89	-1	-1	8.1		30.00	30.00	30.00	30.00	30.00	30.00		30.00	30.00
Cyclohexane	1	0	Avg	0.1773	0.2036	0.2183	0.2254	0.2417	0.2004	-----	0.1968	-----	0.209	4.94	0.993	0.999	10	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1,2-Dichloroethane-d4	1	0	Avg	0.1318	0.1360	0.1390	0.1348	0.1322	0.1095	-----	0.1380	0.1404	0.133	5.09	-1	-1	7.4		30.00	30.00	30.00	30.00	30.00	30.00		30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.2525	0.3130	0.3138	0.3314	0.3484	0.2405	-----	0.3353	0.4038	0.317	5.13	0.970	0.997	16	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	0.50
2-Butanone	1	0	Avg	0.1348	0.1086	0.1717	0.1120	0.1702	0.1532	-----	0.1719	-----	0.146	4.62	0.994	0.994	19	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1,1,1-Trichloroethane	1	0	Avg	0.2804	0.3539	0.3695	0.3659	0.3635	0.3006	-----	0.3251	-----	0.337	4.91	0.992	0.999	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Carbon Tetrachloride	1	0	Qua	0.2313	0.2182	0.2564	0.3043	0.3195	0.2815	-----	0.1357	-----	0.250	5.01	0.996	0.999	25	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Vinyl Acetate	1	0	Avg	0.5102	0.6539	0.6624	0.7185	0.7177	0.6169	-----	0.6099	-----	0.641	4.24	0.995	0.999	11		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Bromodichloromethan	1	0	Avg	0.2313	0.2650	0.2784	0.2987	0.3041	0.2674	-----	0.2578	-----	0.272	5.75	0.996	0.999	9.2	0.20	20.00	5.00	10.00	50.00	100.0	250.0		1.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 11.73

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

3121329 0152

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_1

Level #	Data File:	Cal Identifier:	Analysis Date/Time	Level #	Data File:	Cal Identifier:	Analysis Date/Time
1	1M181429.D	CAL @ 20 PPB	12/06/23 19:26	2	1M181442.D	CAL @ 5 PPB	12/06/23 23:47
3	1M181443.D	CAL @ 10 PPB	12/07/23 00:08	4	1M181447.D	CAL @ 50 PPB	12/07/23 01:34
5	1M181450.D	CAL @ 100 PPB	12/07/23 02:39	6	1M181453.D	CAL @ 250 PPB	12/07/23 03:43
7	1M181441.D	CAL @ 1 PPB	12/06/23 23:25	8	1M181440.D	CAL @ 0.5 PPB	12/06/23 23:04

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.1770	0.1937	0.2054	0.2137	0.2380	0.1945	-----	0.2057	-----	0.204	5.59	0.992	0.998	9.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Dibromomethane	1	0	Avg	0.1451	0.1845	0.1838	0.1901	0.1892	0.1757	-----	0.1955	-----	0.181	5.68	0.998	0.999	9.3		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1,2-Dichloropropane	1	0	Avg	0.1666	0.2135	0.2189	0.2101	0.2067	0.1746	-----	0.1937	-----	0.198	5.61	0.994	0.999	10	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Trichloroethene	1	0	Avg	0.2090	0.2644	0.2581	0.2605	0.2599	0.2183	-----	0.2684	-----	0.248	5.48	0.994	0.999	9.7	0.20	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Benzene	1	0	Avg	0.6831	0.8523	0.8799	0.8973	0.9210	0.7879	-----	0.8079	0.9167	0.843	5.13	0.995	0.999	9.6	0.50	20.00	5.00	10.00	50.00	100.0	250.0		1.00	0.50
tert-Amyl methyl ether	1	0	Avg	0.4001	0.4867	0.5108	0.5826	0.6469	-----	-----	0.4339	-----	0.510	5.17	0.994	0.998	18		20.00	5.00	10.00	50.00	100.0			1.00	
Iso-propylacetate	1	0	Avg	0.4438	0.5341	0.5145	0.5608	0.5626	0.5739	-----	0.4664	-----	0.522	5.13	1.00	1.00	9.7	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Methyl methacrylate	1	0	Avg	0.2311	0.2557	0.2627	0.2844	0.2892	0.3127	-----	0.2455	-----	0.269	5.63	0.999	1.00	10	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Dibromochloromethan	1	0	Avg	0.2503	0.2744	0.2782	0.3169	0.3293	0.3694	-----	0.2380	-----	0.294	6.60	0.998	1.00	16	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
2-Chloroethylvinylethe	1	0	Avg	0.2197	0.2775	0.2819	0.2679	0.2647	0.2636	-----	0.2504	-----	0.261	5.61	1.00	1.00	8.0		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
cis-1,3-Dichloropropen	1	0	Avg	0.3107	0.3550	0.3743	0.4183	0.4315	0.4474	-----	0.3501	-----	0.384	5.98	0.999	1.00	13	0.20	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
trans-1,3-Dichloroprop	1	0	Qua	0.3016	0.3223	0.3397	0.4066	0.4540	0.5047	-----	0.3193	-----	0.378	6.27	0.998	1.00	21	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Ethyl methacrylate	1	0	Avg	0.2207	0.2260	0.2407	0.2716	0.2959	0.2202	-----	0.2150	-----	0.241	6.28	0.981	0.998	13	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1,1,2-Trichloroethane	1	0	Avg	0.2365	0.2799	0.2863	0.2774	0.2785	0.3417	-----	0.2749	-----	0.282	6.38	0.994	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1,2-Dibromoethane	1	0	Avg	0.2510	0.3011	0.2909	0.2987	0.2978	0.3078	-----	0.2742	-----	0.289	6.68	1.00	1.00	6.8	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1,3-Dichloropropane	1	0	Avg	0.3909	0.4498	0.4570	0.4585	0.4635	0.5247	-----	0.4475	-----	0.456	6.47	0.998	1.00	8.6		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
4-Methyl-2-Pentanone	1	0	Avg	0.2555	0.2760	0.2747	0.2980	0.2929	0.3116	-----	0.2668	-----	0.282	6.05	0.999	1.00	6.9	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
2-Hexanone	1	0	Avg	0.2069	0.1968	0.2061	0.2266	0.2333	0.2651	-----	0.1854	-----	0.217	6.48	0.998	1.00	12	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Tetrachloroethene	1	0	Avg	0.2219	0.2689	0.2714	0.2684	0.2730	0.3064	-----	0.2757	-----	0.269	6.46	0.998	1.00	9.2	0.20	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Toluene-d8	1	0	Avg	1.3333	1.3221	1.3001	1.3149	1.3014	1.2705	-----	1.3033	1.2692	1.30	6.13	-1	-1	1.7		30.00	30.00	30.00	30.00	30.00	30.00		30.00	30.00
Toluene	1	0	Avg	0.6204	0.7492	0.7570	0.7809	0.8264	0.7526	-----	0.7679	-----	0.751	6.17	0.998	0.999	8.4	0.40	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.2435	0.2628	0.2808	0.3194	0.3553	0.2884	-----	0.2438	-----	0.285	6.96	0.991	0.998	14		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Chlorobenzene	1	0	Avg	0.7155	0.8371	0.8440	0.8568	0.8867	0.9619	-----	0.8599	-----	0.852	6.93	0.999	1.00	8.6	0.50	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
n-Butyl acrylate	1	0	Qua	0.9310	0.8538	0.8909	1.0180	0.9776	0.3487	-----	0.7469	-----	0.824	7.17	0.668	0.994	28	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
n-Amyl acetate	1	0	Avg	0.8725	0.8071	0.8464	0.9591	-----	-----	-----	0.7158	-----	0.840	7.28	0.999	1.00	11	0.50	20.00	5.00	10.00	50.00				1.00	
Bromoform	1	0	Avg	0.3760	0.3504	0.3580	0.3879	0.4027	0.2991	-----	0.3395	-----	0.359	7.39	0.981	0.999	9.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Ethylbenzene	1	0	Avg	0.5655	0.6020	0.5944	0.6059	0.5730	-----	-----	0.5951	-----	0.589	6.97	0.999	1.00	2.8	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.6756	0.7175	0.6787	0.6278	0.5094	0.6058	-----	0.7635	-----	0.654	7.60	0.995	0.998	13	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Bromofluorobenzene	1	0	Avg	0.8448	0.8052	0.7734	0.7488	0.6664	0.5929	-----	0.7772	0.7859	0.749	7.55	-1	-1	11		30.00	30.00	30.00	30.00	30.00	30.00		30.00	30.00
Styrene	1	0	Avg	1.3696	1.3517	1.4235	1.5559	1.2584	-----	-----	1.1914	-----	1.36	7.25	0.987	0.998	9.4	0.30	20.00	5.00	10.00	50.00	100.0			1.00	
m&p-Xylenes	1	0	Avg	0.8466	0.8649	0.8802	0.9861	0.7011	-----	-----	0.7708	0.8081	0.837	7.02	0.966	0.994	11	0.10	40.00	10.00	20.00	100.0	200.0			2.00	1.00
o-Xylene	1	0	Avg	0.8272	0.8436	0.8619	0.9020	0.7782	-----	-----	0.8093	-----	0.837	7.25	0.994	0.999	5.1	0.30	20.00	5.00	10.00	50.00	100.0			1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.1948	0.2055	0.2125	0.2084	0.1919	0.2224	-----	0.2129	-----	0.207	7.62	0.997	1.00	5.2		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1,3-Dichlorobenzene	1	0	Avg	1.0271	1.0751	1.0876	1.0771	1.0480	0.9434	-----	1.0791	-----	1.05	8.17	0.998	1.00	4.8	0.60	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1,4-Dichlorobenzene	1	0	Avg	1.0394	1.1170	1.1226	1.1211	0.9655	1.0996	-----	1.0924	-----	1.08	8.22	0.997	0.999	5.4	0.50	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1,2-Dichlorobenzene	1	0	Avg	0.9994	1.0302	1.0030	0.9830	0.9866	0.9693	-----	1.0985	-----	1.01	8.45	1.00	1.00	4.3	0.40	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Isopropylbenzene	1	0	Avg	1.8447	1.7669	1.8114	1.8196	1.7754	0.9595	-----	1.6343	-----	1.66	7.44	0.896	0.998	19	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Cyclohexanone	1	0	Qua	0.0582	0.0520	0.0425	0.0367	0.0349	0.0171	-----	0.0728	-----	0.0449	7.53	0.845	0.993	40		100.0	25.00	50.00	250.0	500.0	1250.		5.00	
Camphene	1	0	Avg	0.3730	0.3365	0.3445	0.3198	0.3080	0.4598	-----	0.3989	-----	0.363	7.61	0.981	0.999	15		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1,2,3-Trichloropropane	1	0	Avg	0.7837	0.8370	0.7790	0.7947	0.7087	0.8762	-----	0.8156	-----	0.799	7.64	0.994	0.999	6.6		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
2-Chlorotoluene	1	0	Avg	1.2811	1.1603	1.2401	1.3387	0.8818	0.7879	-----	1.2047	-----	1.13	7.74	0.981	0.990	19		20.00	5.00	10.00	50.00	100.0	250.0		1.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 11.73

Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_1

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	1M181429.D	CAL @ 20 PPB	12/06/23 19:26	2	1M181442.D	CAL @ 5 PPB	12/06/23 23:47
3	1M181443.D	CAL @ 10 PPB	12/07/23 00:08	4	1M181447.D	CAL @ 50 PPB	12/07/23 01:34
5	1M181450.D	CAL @ 100 PPB	12/07/23 02:39	6	1M181453.D	CAL @ 250 PPB	12/07/23 03:43
7	1M181441.D	CAL @ 1 PPB	12/06/23 23:25	8	1M181440.D	CAL @ 0.5 PPB	12/06/23 23:04

Compound	Col	Mr	Fit	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	2.0217	2.0111	2.1292	2.2786	1.9460	1.4860	-----	1.9125	-----	1.97	7.73	0.980	0.999	12		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
4-Chlorotoluene	1	0	Avg	1.1529	1.1749	1.1801	1.3501	-----	-----	-----	1.0979	-----	1.19	7.80	0.997	1.00	7.9		20.00	5.00	10.00	50.00				1.00	
n-Propylbenzene	1	0	Avg	2.2629	2.2518	2.2554	2.3146	2.1321	1.5892	-----	2.0882	-----	2.13	7.67	0.979	1.00	12		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Bromobenzene	1	0	Avg	1.2237	1.2584	1.2352	1.2169	1.0959	1.2768	-----	1.3519	-----	1.24	7.65	0.997	0.999	6.2		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1,3,5-Trimethylbenzen	1	0	Avg	1.4885	1.4849	1.4993	1.6531	-----	-----	-----	1.2956	-----	1.48	7.75	0.998	1.00	8.5		20.00	5.00	10.00	50.00				1.00	
Butyl methacrylate	1	0	Avg	0.6407	0.6134	0.6284	0.7141	-----	-----	-----	0.5455	-----	0.628	7.76	0.998	1.00	9.6	0.50	20.00	5.00	10.00	50.00				1.00	
t-Butylbenzene	1	0	Avg	1.4552	1.3849	1.4073	1.4851	1.4211	1.1771	-----	1.2622	-----	1.37	7.95	0.992	1.00	8.1		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1,2,4-Trimethylbenzen	1	0	Avg	1.6183	1.5173	1.5672	1.6892	1.2279	1.1589	-----	1.2766	-----	1.44	7.98	0.992	0.995	15		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
sec-Butylbenzene	1	0	Avg	1.7129	1.5785	1.6498	1.6621	1.7098	1.1222	-----	1.4674	-----	1.56	8.08	0.958	0.999	13		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
4-Isopropyltoluene	1	0	Avg	1.5251	1.3672	1.4230	1.4668	1.5425	1.1447	-----	1.1882	-----	1.38	8.15	0.981	0.999	11		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
n-Butylbenzene	1	0	Avg	1.5188	1.4024	1.4506	1.3840	1.3977	0.8957	-----	1.3316	-----	1.34	8.39	0.952	0.999	15		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
p-Diethylbenzene	1	0	Avg	0.8050	0.7493	0.7573	0.7891	0.8087	0.6555	-----	0.7114	-----	0.754	8.37	0.991	1.00	7.3		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1,2,4,5-Tetramethylbe	1	0	Avg	1.0740	0.9211	0.9576	1.0685	0.9897	-----	-----	0.8540	-----	0.978	8.84	0.998	1.00	8.7		20.00	5.00	10.00	50.00	100.0			1.00	
1,2-Dibromo-3-Chloro	1	0	Avg	0.1471	0.1355	0.1410	0.1402	0.1207	-----	-----	0.1182	-----	0.134	8.91	0.993	1.00	8.8	0.05	20.00	5.00	10.00	50.00	100.0			1.00	
Camphor	1	0	Avg	0.0633	0.0487	0.0506	0.0602	0.0523	-----	-----	0.0524	0.0525	0.0543	9.35	0.993	0.999	9.9		200.0	50.00	100.0	500.0	1000.			10.00	5.00
Hexachlorobutadiene	1	0	Avg	0.1861	0.1828	0.1836	0.1499	0.1332	-----	-----	0.2149	-----	0.175	9.48	0.993	0.999	17		20.00	5.00	10.00	50.00	100.0			1.00	
1,2,4-Trichlorobenzen	1	0	Avg	0.4805	0.3992	0.4125	0.3982	0.3428	-----	-----	0.4151	-----	0.408	9.40	0.990	0.999	11	0.20	20.00	5.00	10.00	50.00	100.0			1.00	
1,2,3-Trichlorobenzen	1	0	Avg	0.3862	0.2954	0.3128	0.2747	0.2282	-----	-----	0.3370	-----	0.306	9.71	0.977	0.995	18		20.00	5.00	10.00	50.00	100.0			1.00	
Naphthalene	1	0	Avg	1.2564	0.9655	1.0036	1.0383	0.8734	-----	-----	0.9364	-----	1.01	9.56	0.987	0.999	13		20.00	5.00	10.00	50.00	100.0			1.00	

Flags	*Note:* Avg Rsd: 11.73
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 6M177152.D **Instrument:** GCMS 6

Cont Calibration Date/Time 12/14/2023 10:37:00 Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.11	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.66	74.94	50	20	0.1	0.125	0.188	49.88	C1
Dichlorodifluoromethane	1	0		1.63	46.85	50	20	0.1	0.112	0.105	6.31	
Chloromethane	1	0		1.83	40.38	50	20	0.1	0.160	0.129	19.24	
Bromomethane	1	0		2.23	43.53	50	20	0.1	0.108	0.094	12.94	
Vinyl Chloride	1	0		1.91	43.63	50	20	0.1	0.143	0.125	12.73	
Chloroethane	1	0		2.31	40.71	50	20	0.1	0.088	0.072	18.58	
Trichlorofluoromethane	1	0		2.55	53.88	50	20	0.1	0.193	0.208	7.75	
Ethyl ether	1	0		2.79	44.79	50	20	0.5	0.099	0.088	10.41	
Furan	1	0		2.83	50.29	50	20	0.5	0.144	0.144	0.58	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		3.00	56.25	50	20	0.1	0.063	0.071	12.51	
Methylene Chloride	1	0		3.42	50.21	50	20	0.1	0.108	0.109	0.41	
Acrolein	1	0		2.90	216.22	250	20		0.026	0.022	13.51	
Acrylonitrile	1	0		3.62	40.36	50	20		0.054	0.044	19.27	
Iodomethane	1	0		3.15	40.03	50	20		0.053	0.036	19.94	
Acetone	1	0		3.03	241.23	250	20	0.1	0.036	0.035	3.51	
Carbon Disulfide	1	0		3.22	54.99	50	20	0.1	0.280	0.308	9.98	
t-Butyl Alcohol	1	0		3.48	243.23	250	20		0.014	0.014	2.71	
n-Hexane	1	0		3.90	51.57	50	20		0.097	0.100	3.13	
Di-isopropyl-ether	1	0		4.05	46.85	50	20		0.231	0.217	6.30	
1,1-Dichloroethene	1	0		3.01	54.63	50	20	0.1	0.128	0.140	9.25	
Methyl Acetate	1	0		3.32	45.68	50	20	0.1	0.075	0.068	8.64	
Methyl-t-butyl ether	1	0		3.65	46.60	50	20	0.1	0.259	0.242	6.79	
1,1-Dichloroethane	1	0		4.01	52.52	50	20	0.2	0.154	0.161	5.04	
trans-1,2-Dichloroethene	1	0		3.66	55.07	50	20	0.1	0.092	0.102	10.13	
Ethyl-t-butyl ether	1	0		4.04	46.22	50	20	0.5	0.032	0.030	7.56	
cis-1,2-Dichloroethene	1	0		4.42	49.84	50	20	0.1	0.160	0.159	0.31	
Bromochloromethane	1	0		4.57	46.64	50	20		0.073	0.068	6.72	
2,2-Dichloropropane	1	0		4.43	58.76	50	20		0.121	0.142	17.53	
Ethyl acetate	1	0		4.45	41.77	50	20		0.119	0.100	16.46	
1,4-Dioxane	1	0		5.50	2370.72	2500	20		0.002	0.002	5.17	
1,1-Dichloropropene	1	0		4.84	54.12	50	20		0.117	0.126	8.24	
Chloroform	1	0		4.62	49.02	50	20	0.2	0.177	0.174	1.96	
Dibromofluoromethane	1	0	S	4.71	31.03	75	**		0.231	0.239	3.43	
Cyclohexane	1	0		4.79	52.33	50	20	0.1	0.115	0.120	4.66	
1,2-Dichloroethane-d4	1	0	S	4.92	30.00	75	**		0.144	0.144	0.01	
1,2-Dichloroethane	1	0		4.96	46.27	50	20	0.1	0.147	0.136	7.46	
2-Butanone	1	0		4.42	38.84	50	20	0.1	0.054	0.042	22.33	C1
1,1,1-Trichloroethane	1	0		4.75	58.99	50	20	0.1	0.135	0.159	17.98	
Carbon Tetrachloride	1	0		4.85	59.25	50	20	0.1	0.126	0.149	18.50	
Vinyl Acetate	1	0		4.03	48.94	50	20		0.287	0.281	2.13	
Bromodichloromethane	1	0		5.57	50.57	50	20	0.2	0.135	0.137	1.14	
Methylcyclohexane	1	0		5.43	54.63	50	20	0.1	0.136	0.153	9.25	
Dibromomethane	1	0		5.51	48.91	50	20		0.061	0.060	2.19	
1,2-Dichloropropane	1	0		5.44	46.07	50	20	0.1	0.099	0.091	7.85	
Trichloroethene	1	0		5.32	56.28	50	20	0.2	0.091	0.102	12.56	
Benzene	1	0		4.96	51.13	50	20	0.5	0.409	0.419	2.26	
tert-Amyl methyl ether	1	0		5.01	47.72	50	20		0.248	0.237	4.56	
Chlorobenzene-d5	1	0	I	6.74	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.96	38.75	50	20	0.5	0.262	0.203	22.50	C1
Methyl methacrylate	1	0		5.46	41.87	50	20	0.5	0.120	0.100	16.26	
Dibromochloromethane	1	0		6.43	47.71	50	20	0.1	0.145	0.138	4.58	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 6M177152.D **Instrument:** GCMS 6

Cont Calibration Date/Time 12/14/2023 10:37:00 Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.71	43.81	50	20		0.016	0.014	12.38	
cis-1,3-Dichloropropene	1	0		5.81	46.37	50	20	0.2	0.210	0.195	7.25	
trans-1,3-Dichloropropene	1	0		6.10	46.99	50	20	0.1	0.198	0.186	6.02	
Ethyl methacrylate	1	0		6.12	41.68	50	20	0.5	0.114	0.095	16.64	
1,1,2-Trichloroethane	1	0		6.20	44.24	50	20	0.1	0.130	0.115	11.51	
1,2-Dibromoethane	1	0		6.51	41.12	50	20	0.1	0.128	0.105	17.76	
1,3-Dichloropropane	1	0		6.30	42.53	50	20		0.222	0.189	14.94	
4-Methyl-2-Pentanone	1	0		5.88	40.58	50	20	0.1	0.139	0.113	18.83	
2-Hexanone	1	0		6.31	40.08	50	20	0.1	0.108	0.087	19.84	
Tetrachloroethene	1	0		6.31	54.66	50	20	0.2	0.093	0.102	9.32	
Toluene-d8	1	0	S	5.97	29.08	75	**		1.387	1.345	3.07	
Toluene	1	0		6.01	48.36	50	20	0.4	0.332	0.321	3.28	
1,1,1,2-Tetrachloroethane	1	0		6.79	47.32	50	20		0.124	0.117	5.36	
Chlorobenzene	1	0		6.76	50.28	50	20	0.5	0.359	0.361	0.57	
1,4-Dichlorobenzene-d4	1	0	I	8.03	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.00	39.27	50	20	0.5	0.540	0.424	21.46	C1
n-Amyl acetate	1	0		7.12	40.28	50	20	0.5	0.411	0.331	19.45	
Bromoform	1	0		7.21	43.59	50	20	0.1	0.207	0.180	12.83	
Ethylbenzene	1	0		6.81	45.96	50	20	0.1	0.339	0.312	8.08	
1,1,2,2-Tetrachloroethane	1	0		7.42	38.60	50	20	0.1	0.398	0.307	22.80	C1
Bromofluorobenzene	1	0	S	7.38	30.28	75	**		0.737	0.743	0.93	
Styrene	1	0		7.09	48.39	50	20	0.3	0.772	0.747	3.22	
m&p-Xylenes	1	0		6.86	97.17	100	20	0.1	0.465	0.452	2.83	
o-Xylene	1	0		7.09	46.64	50	20	0.3	0.483	0.450	6.71	
trans-1,4-Dichloro-2-butene	1	0		7.45	46.34	50	20		0.133	0.123	7.31	
1,3-Dichlorobenzene	1	0		8.00	51.20	50	20	0.6	0.518	0.530	2.40	
1,4-Dichlorobenzene	1	0		8.05	51.66	50	20	0.5	0.530	0.548	3.32	
1,2-Dichlorobenzene	1	0		8.28	49.26	50	20	0.4	0.515	0.508	1.48	
Isopropylbenzene	1	0		7.28	50.28	50	20	0.1	1.057	1.062	0.56	
Cyclohexanone	1	0		7.35	379.24	250	20		0.016	0.027	51.70	C1
Camphene	1	0		7.45	49.90	50	20		0.305	0.304	0.20	
1,2,3-Trichloropropane	1	0		7.46	41.67	50	20		0.462	0.385	16.67	
2-Chlorotoluene	1	0		7.57	54.11	50	20		0.639	0.692	8.23	
p-Ethyltoluene	1	0		7.56	53.96	50	20		1.131	1.221	7.92	
4-Chlorotoluene	1	0		7.63	49.59	50	20		0.628	0.622	0.81	
n-Propylbenzene	1	0		7.51	53.17	50	20		1.303	1.386	6.33	
Bromobenzene	1	0		7.48	46.66	50	20		0.679	0.633	6.68	
1,3,5-Trimethylbenzene	1	0		7.59	51.46	50	20		0.859	0.884	2.92	
Butyl methacrylate	1	0		7.59	42.06	50	20	0.5	0.307	0.267	15.88	
t-Butylbenzene	1	0		7.79	50.81	50	20		0.896	0.910	1.62	
1,2,4-Trimethylbenzene	1	0		7.81	50.54	50	20		0.940	0.950	1.08	
sec-Butylbenzene	1	0		7.91	53.85	50	20		1.159	1.248	7.71	
4-Isopropyltoluene	1	0		7.98	51.27	50	20		1.022	1.048	2.55	
n-Butylbenzene	1	0		8.22	55.33	50	20		1.100	1.217	10.67	
p-Diethylbenzene	1	0		8.20	52.87	50	20		0.570	0.602	5.74	
1,2,4,5-Tetramethylbenzene	1	0		8.67	49.77	50	20		0.869	0.865	0.46	
1,2-Dibromo-3-Chloropropane	1	0		8.71	42.29	50	20	0.05	0.084	0.071	15.42	
Camphor	1	0		9.16	408.17	500	20		0.038	0.031	18.37	
Hexachlorobutadiene	1	0		9.31	54.08	50	20		0.168	0.182	8.15	
1,2,4-Trichlorobenzene	1	0		9.21	53.27	50	20	0.2	0.344	0.366	6.55	
1,2,3-Trichlorobenzene	1	0		9.52	51.36	50	20		0.325	0.334	2.71	
Naphthalene	1	0		9.37	42.65	50	20		1.013	0.939	14.70	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 11M118357.D **Instrument:** GCMS 11

Cont Calibration Date/Time 12/15/2023 11:25:00 Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	4.95	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.67	19.86	20	20	0.1	0.324	0.322	0.71	
Dichlorodifluoromethane	1	0		1.67	15.52	20	20	0.1	0.326	0.253	22.40	C1
Chloromethane	1	0		1.84	17.31	20	20	0.1	0.234	0.202	13.47	
Bromomethane	1	0		2.23	19.90	20	20	0.1	0.189	0.188	0.49	
Vinyl Chloride	1	0		1.94	20.37	20	20	0.1	0.268	0.273	1.84	
Chloroethane	1	0		2.33	21.41	20	20	0.1	0.173	0.185	7.07	
Trichlorofluoromethane	1	0		2.55	21.13	20	20	0.1	0.541	0.572	5.65	
Ethyl ether	1	0		2.77	21.28	20	20	0.5	0.153	0.201	6.41	
Furan	1	0		2.81	19.09	20	20	0.5	0.400	0.382	4.54	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		2.97	22.08	20	20	0.1	0.252	0.278	10.38	
Methylene Chloride	1	0		3.36	22.66	20	20	0.1	0.261	0.296	13.31	
Acrolein	1	0		2.88	166.16	100	20		0.020	0.033	66.16	C1
Acrylonitrile	1	0		3.56	23.74	20	20		0.055	0.065	18.72	
Iodomethane	1	0		3.11	13.89	20	20		0.404	0.383	30.55	C1
Acetone	1	0		3.01	119.01	100	20	0.1	0.050	0.059	19.01	
Carbon Disulfide	1	0		3.18	21.19	20	20	0.1	0.615	0.652	5.96	
t-Butyl Alcohol	1	0		3.43	119.56	100	20		0.013	0.016	19.56	
n-Hexane	1	0		3.81	23.42	20	20		0.157	0.184	17.12	
Di-isopropyl-ether	1	0		3.95	20.79	20	20		0.611	0.635	3.97	
1,1-Dichloroethene	1	0		2.98	20.51	20	20	0.1	0.340	0.348	2.54	
Methyl Acetate	1	0		3.27	21.49	20	20	0.1	0.113	0.122	7.46	
Methyl-t-butyl ether	1	0		3.59	21.42	20	20	0.1	0.565	0.605	7.08	
1,1-Dichloroethane	1	0		3.92	21.70	20	20	0.2	0.387	0.420	8.50	
trans-1,2-Dichloroethene	1	0		3.59	21.61	20	20	0.1	0.290	0.313	8.03	
Ethyl-t-butyl ether	1	0		4.19	23.29	20	20	0.5	0.555	0.646	16.47	
cis-1,2-Dichloroethene	1	0		4.30	22.15	20	20	0.1	0.367	0.407	10.77	
Bromochloromethane	1	0		4.45	22.22	20	20		0.163	0.181	11.11	
2,2-Dichloropropane	1	0		4.31	22.38	20	20		0.335	0.375	11.90	
Ethyl acetate	1	0		4.32	22.21	20	20		0.164	0.182	11.04	
1,4-Dioxane	1	0		5.33	1300.87	1000	20		0.002	0.003	30.09	C1
1,1-Dichloropropene	1	0		4.70	22.03	20	20		0.332	0.366	10.13	
Chloroform	1	0		4.49	21.80	20	20	0.2	0.483	0.527	8.98	
Dibromofluoromethane	1	0	S	4.58	29.69	30	**		0.326	0.322	1.02	
Cyclohexane	1	0		4.65	21.99	20	20	0.1	0.250	0.275	9.97	
1,2-Dichloroethane-d4	1	0	S	4.77	28.81	30	**		0.105	0.101	3.96	
1,2-Dichloroethane	1	0		4.82	22.17	20	20	0.1	0.315	0.349	10.86	
2-Butanone	1	0		4.30	20.55	20	20	0.1	0.064	0.066	2.73	
1,1,1-Trichloroethane	1	0		4.61	21.88	20	20	0.1	0.463	0.507	9.39	
Carbon Tetrachloride	1	0		4.70	22.13	20	20	0.1	0.440	0.486	10.64	
Vinyl Acetate	1	0		3.94	22.69	20	20		0.648	0.735	13.43	
Bromodichloromethane	1	0		5.41	23.58	20	20	0.2	0.340	0.400	17.88	
Methylcyclohexane	1	0		5.27	23.51	20	20	0.1	0.279	0.328	17.57	
Dibromomethane	1	0		5.34	23.95	20	20		0.223	0.267	19.74	
1,2-Dichloropropane	1	0		5.27	23.00	20	20	0.1	0.210	0.242	15.00	
Trichloroethene	1	0		5.15	22.33	20	20	0.2	0.420	0.469	11.65	
Benzene	1	0		4.82	22.27	20	20	0.5	0.972	1.083	11.36	
tert-Amyl methyl ether	1	0		4.86	23.21	20	20		0.569	0.660	16.06	
Chlorobenzene-d5	1	0	I	6.54	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.81	20.73	20	20	0.5	0.291	0.302	3.65	
Methyl methacrylate	1	0		5.30	19.20	20	20	0.5	0.152	0.146	4.01	
Dibromochloromethane	1	0		6.23	23.38	20	20	0.1	0.303	0.355	16.92	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 11M118357.D **Instrument:** GCMS 11

Cont Calibration Date/Time 12/15/2023 11:25:00 Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.54	19.67	20	20		0.083	0.081	1.67	
cis-1,3-Dichloropropene	1	0		5.64	21.49	20	20	0.2	0.331	0.355	7.44	
trans-1,3-Dichloropropene	1	0		5.91	22.29	20	20	0.1	0.276	0.307	11.44	
Ethyl methacrylate	1	0		5.93	22.37	20	20	0.5	0.142	0.159	11.85	
1,1,2-Trichloroethane	1	0		6.02	22.64	20	20	0.1	0.210	0.238	13.22	
1,2-Dibromoethane	1	0		6.31	22.56	20	20	0.1	0.231	0.260	12.82	
1,3-Dichloropropane	1	0		6.11	21.75	20	20		0.316	0.343	8.77	
4-Methyl-2-Pentanone	1	0		5.69	21.52	20	20	0.1	0.140	0.150	7.62	
2-Hexanone	1	0		6.12	23.80	20	20	0.1	0.091	0.109	18.98	
Tetrachloroethene	1	0		6.11	20.54	20	20	0.2	0.277	0.284	2.70	
Toluene-d8	1	0	S	5.78	28.81	30	**		1.043	1.001	3.97	
Toluene	1	0		5.82	20.24	20	20	0.4	0.659	0.668	1.22	
1,1,1,2-Tetrachloroethane	1	0		6.59	22.82	20	20		0.286	0.326	14.10	
Chlorobenzene	1	0		6.56	21.44	20	20	0.5	0.811	0.869	7.21	
1,4-Dichlorobenzene-d4	1	0	I	7.81	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		6.79	27.31	20	20	0.5	0.660	0.613	36.55	C1
n-Amyl acetate	1	0		6.91	23.88	20	20	0.5	0.483	0.479	19.40	
Bromoform	1	0		7.00	29.67	20	20	0.1	0.376	0.372	48.37	C1
Ethylbenzene	1	0		6.60	25.86	20	20	0.1	0.771	0.668	29.31	C1
1,1,2,2-Tetrachloroethane	1	0		7.21	27.69	20	20	0.1	0.500	0.447	38.44	C1
Bromofluorobenzene	1	0	S	7.16	27.85	30	**		0.870	0.807	7.15	
Styrene	1	0		6.88	28.37	20	20	0.3	1.813	1.611	41.86	C1
m&p-Xylenes	1	0		6.66	54.93	40	20	0.1	1.095	0.988	37.33	C1
o-Xylene	1	0		6.87	28.04	20	20	0.3	1.108	0.970	40.19	C1
trans-1,4-Dichloro-2-butene	1	0		7.24	24.19	20	20		0.135	0.115	20.95	C1
1,3-Dichlorobenzene	1	0		7.78	21.30	20	20	0.6	1.102	1.174	6.48	
1,4-Dichlorobenzene	1	0		7.82	19.54	20	20	0.5	1.213	1.186	2.28	
1,2-Dichlorobenzene	1	0		8.05	18.79	20	20	0.4	0.989	0.930	6.04	
Isopropylbenzene	1	0		7.06	27.85	20	20	0.1	2.440	2.088	39.27	C1
Cyclohexanone	1	0		7.14	239.68	100	20		0.014	0.034	139.68	C1
Camphene	1	0		7.23	29.97	20	20		0.476	0.425	49.84	C1
1,2,3-Trichloropropane	1	0		7.25	27.37	20	20		0.542	0.501	36.84	C1
2-Chlorotoluene	1	0		7.36	20.13	20	20		1.182	1.190	0.65	
p-Ethyltoluene	1	0		7.34	23.12	20	20		2.318	2.076	15.62	
4-Chlorotoluene	1	0		7.41	20.86	20	20		1.122	1.171	4.32	
n-Propylbenzene	1	0		7.29	23.85	20	20		2.422	1.999	19.27	
Bromobenzene	1	0		7.26	26.74	20	20		1.136	1.018	33.71	C1
1,3,5-Trimethylbenzene	1	0		7.37	21.70	20	20		1.634	1.773	8.50	
Butyl methacrylate	1	0		7.38	21.15	20	20	0.5	0.396	0.419	5.76	
t-Butylbenzene	1	0		7.57	22.39	20	20		1.649	1.846	11.94	
1,2,4-Trimethylbenzene	1	0		7.59	20.22	20	20		1.544	1.779	1.12	
sec-Butylbenzene	1	0		7.69	18.36	20	20		1.683	1.947	8.20	
4-Isopropyltoluene	1	0		7.76	17.52	20	20		1.616	1.860	12.42	
n-Butylbenzene	1	0		7.99	18.87	20	20		1.220	1.395	5.63	
p-Diethylbenzene	1	0		7.98	22.42	20	20		0.909	1.019	12.09	
1,2,4,5-Tetramethylbenzene	1	0		8.43	21.97	20	20		1.242	1.364	9.83	
1,2-Dibromo-3-Chloropropane	1	0		8.49	29.01	20	20	0.05	0.095	0.103	45.03	C1
Camphor	1	0		8.93	265.14	200	20		0.028	0.038	32.57	C1
Hexachlorobutadiene	1	0		9.07	22.03	20	20		0.130	0.143	10.13	
1,2,4-Trichlorobenzene	1	0		8.98	23.04	20	20	0.2	0.275	0.316	15.21	
1,2,3-Trichlorobenzene	1	0		9.29	23.16	20	20		0.177	0.205	15.81	
Naphthalene	1	0		9.14	23.91	20	20		0.616	0.736	19.55	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 1M181771.D **Instrument:** GCMS 1

Cont Calibration Date/Time 12/15/2023 6:15:00 P Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.28	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.82	22.05	20	20	0.1	0.212	0.234	10.26	
Dichlorodifluoromethane	1	0		1.80	15.68	20	20	0.1	0.157	0.144	21.59	C1
Chloromethane	1	0		1.99	17.57	20	20	0.1	0.146	0.136	12.15	
Bromomethane	1	0		2.42	17.74	20	20	0.1	0.139	0.112	11.28	
Vinyl Chloride	1	0		2.10	19.65	20	20	0.1	0.153	0.150	1.73	
Chloroethane	1	0		2.52	19.02	20	20	0.1	0.118	0.112	4.92	
Trichlorofluoromethane	1	0		2.75	21.27	20	20	0.1	0.293	0.312	6.34	
Ethyl ether	1	0		3.00	19.91	20	20	0.5	0.131	0.130	0.46	
Furan	1	0		3.05	19.49	20	20	0.5	0.271	0.264	2.55	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		3.21	20.25	20	20	0.1	0.138	0.140	1.23	
Methylene Chloride	1	0		3.64	19.53	20	20	0.1	0.173	0.169	2.36	
Acrolein	1	0		3.13	118.79	100	20		0.025	0.030	18.79	
Acrylonitrile	1	0		3.86	16.95	20	20		0.076	0.064	15.25	
Iodomethane	1	0		3.37	23.92	20	20		0.186	0.223	19.58	
Acetone	1	0		3.27	97.68	100	20	0.1	0.062	0.061	2.32	
Carbon Disulfide	1	0		3.43	17.45	20	20	0.1	0.384	0.335	12.76	
t-Butyl Alcohol	1	0		3.74	100.48	100	20		0.022	0.022	0.48	
n-Hexane	1	0		4.08	20.40	20	20		0.129	0.131	2.00	
Di-isopropyl-ether	1	0		4.24	19.57	20	20		0.517	0.506	2.14	
1,1-Dichloroethene	1	0		3.22	21.51	20	20	0.1	0.237	0.255	7.53	
Methyl Acetate	1	0		3.55	17.77	20	20	0.1	0.144	0.128	11.15	
Methyl-t-butyl ether	1	0		3.88	17.81	20	20	0.1	0.442	0.393	10.96	
1,1-Dichloroethane	1	0		4.21	20.94	20	20	0.2	0.334	0.350	4.72	
trans-1,2-Dichloroethene	1	0		3.88	18.70	20	20	0.1	0.172	0.161	6.50	
Ethyl-t-butyl ether	1	0		4.49	21.54	20	20	0.5	0.466	0.502	7.72	
cis-1,2-Dichloroethene	1	0		4.60	19.96	20	20	0.1	0.335	0.335	0.18	
Bromochloromethane	1	0		4.75	20.47	20	20		0.157	0.160	2.33	
2,2-Dichloropropane	1	0		4.61	18.19	20	20		0.280	0.255	9.03	
Ethyl acetate	1	0		4.63	17.85	20	20		0.222	0.198	10.77	
1,4-Dioxane	1	0		5.67	939.16	1000	20		0.004	0.003	6.08	
1,1-Dichloropropene	1	0		5.00	21.65	20	20		0.278	0.301	8.23	
Chloroform	1	0		4.79	19.86	20	20	0.2	0.382	0.380	0.68	
Dibromofluoromethane	1	0	S	4.89	30.15	30	**		0.267	0.269	0.50	
Cyclohexane	1	0		4.95	21.90	20	20	0.1	0.209	0.229	9.52	
1,2-Dichloroethane-d4	1	0	S	5.09	29.73	30	**		0.133	0.132	0.91	
1,2-Dichloroethane	1	0		5.13	18.19	20	20	0.1	0.317	0.289	9.03	
2-Butanone	1	0		4.62	18.54	20	20	0.1	0.146	0.135	7.28	
1,1,1-Trichloroethane	1	0		4.91	20.84	20	20	0.1	0.337	0.351	4.21	
Carbon Tetrachloride	1	0		5.01	16.02	20	20	0.1	0.250	0.259	19.88	
Vinyl Acetate	1	0		4.24	18.78	20	20		0.641	0.602	6.10	
Bromodichloromethane	1	0		5.75	18.31	20	20	0.2	0.272	0.249	8.44	
Methylcyclohexane	1	0		5.59	20.79	20	20	0.1	0.204	0.212	3.96	
Dibromomethane	1	0		5.68	18.48	20	20		0.181	0.167	7.62	
1,2-Dichloropropane	1	0		5.61	20.05	20	20	0.1	0.198	0.198	0.27	
Trichloroethene	1	0		5.48	20.58	20	20	0.2	0.248	0.256	2.91	
Benzene	1	0		5.13	19.77	20	20	0.5	0.843	0.834	1.16	
tert-Amyl methyl ether	1	0		5.17	19.28	20	20		0.510	0.492	3.58	
Chlorobenzene-d5	1	0	I	6.91	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		5.13	18.70	20	20	0.5	0.522	0.488	6.49	
Methyl methacrylate	1	0		5.63	19.36	20	20	0.5	0.269	0.260	3.21	
Dibromochloromethane	1	0		6.60	16.72	20	20	0.1	0.294	0.246	16.41	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 1M181771.D **Instrument:** GCMS 1

Cont Calibration Date/Time 12/15/2023 6:15:00 P Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.61	19.52	20	20		0.261	0.255	2.39	
cis-1,3-Dichloropropene	1	0		5.98	18.64	20	20	0.2	0.384	0.358	6.82	
trans-1,3-Dichloropropene	1	0		6.27	15.97	20	20	0.1	0.378	0.324	20.14	
Ethyl methacrylate	1	0		6.28	19.05	20	20	0.5	0.241	0.230	4.75	
1,1,2-Trichloroethane	1	0		6.38	17.90	20	20	0.1	0.282	0.253	10.49	
1,2-Dibromoethane	1	0		6.67	19.16	20	20	0.1	0.289	0.277	4.20	
1,3-Dichloropropane	1	0		6.47	18.73	20	20		0.456	0.427	6.34	
4-Methyl-2-Pentanone	1	0		6.05	19.39	20	20	0.1	0.282	0.274	3.05	
2-Hexanone	1	0		6.48	18.83	20	20	0.1	0.217	0.204	5.87	
Tetrachloroethene	1	0		6.46	18.75	20	20	0.2	0.269	0.253	6.26	
Toluene-d8	1	0	S	6.13	29.53	30	**		1.302	1.282	1.57	
Toluene	1	0		6.16	18.68	20	20	0.4	0.751	0.701	6.62	
1,1,1,2-Tetrachloroethane	1	0		6.96	18.23	20	20		0.285	0.260	8.84	
Chlorobenzene	1	0		6.92	18.43	20	20	0.5	0.852	0.785	7.86	
1,4-Dichlorobenzene-d4	1	0	I	8.20	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.16	16.31	20	20	0.5	0.824	1.010	18.47	
n-Amyl acetate	1	0		7.28	20.68	20	20	0.5	0.840	0.869	3.41	
Bromoform	1	0		7.39	19.23	20	20	0.1	0.359	0.345	3.83	
Ethylbenzene	1	0		6.97	20.74	20	20	0.1	0.589	0.611	3.68	
1,1,2,2-Tetrachloroethane	1	0		7.59	20.71	20	20	0.1	0.654	0.677	3.53	
Bromofluorobenzene	1	0	S	7.55	33.39	30	**		0.749	0.834	11.30	
Styrene	1	0		7.25	22.27	20	20	0.3	1.358	1.513	11.37	
m&p-Xylenes	1	0		7.02	45.60	40	20	0.1	0.837	0.954	14.00	
o-Xylene	1	0		7.25	21.90	20	20	0.3	0.837	0.916	9.48	
trans-1,4-Dichloro-2-butene	1	0		7.62	18.47	20	20		0.207	0.191	7.65	
1,3-Dichlorobenzene	1	0		8.17	20.30	20	20	0.6	1.048	1.064	1.52	
1,4-Dichlorobenzene	1	0		8.22	19.62	20	20	0.5	1.080	1.059	1.88	
1,2-Dichlorobenzene	1	0		8.45	19.43	20	20	0.4	1.010	0.981	2.83	
Isopropylbenzene	1	0		7.44	24.05	20	20	0.1	1.659	1.995	20.23	
Cyclohexanone	1	0		7.53	112.14	100	20		0.045	0.049	12.14	
Camphene	1	0		7.61	21.07	20	20		0.363	0.382	5.35	
1,2,3-Trichloropropane	1	0		7.64	19.43	20	20		0.799	0.776	2.86	
2-Chlorotoluene	1	0		7.74	23.28	20	20		1.128	1.313	16.42	
p-Ethyltoluene	1	0		7.72	22.37	20	20		1.969	2.202	11.84	
4-Chlorotoluene	1	0		7.80	21.39	20	20		1.191	1.274	6.95	
n-Propylbenzene	1	0		7.67	22.32	20	20		2.128	2.375	11.60	
Bromobenzene	1	0		7.65	20.57	20	20		1.237	1.272	2.85	
1,3,5-Trimethylbenzene	1	0		7.75	20.14	20	20		1.484	1.494	0.68	
Butyl methacrylate	1	0		7.75	20.71	20	20	0.5	0.628	0.651	3.55	
t-Butylbenzene	1	0		7.95	22.00	20	20		1.370	1.507	9.99	
1,2,4-Trimethylbenzene	1	0		7.97	23.01	20	20		1.437	1.653	15.04	
sec-Butylbenzene	1	0		8.08	22.93	20	20		1.558	1.786	14.66	
4-Isopropyltoluene	1	0		8.14	22.30	20	20		1.380	1.538	11.50	
n-Butylbenzene	1	0		8.39	22.63	20	20		1.340	1.517	13.16	
p-Diethylbenzene	1	0		8.37	21.86	20	20		0.754	0.824	9.30	
1,2,4,5-Tetramethylbenzene	1	0		8.83	22.70	20	20		0.978	1.110	13.51	
1,2-Dibromo-3-Chloropropane	1	0		8.91	18.65	20	20	0.05	0.134	0.125	6.73	
Camphor	1	0		9.34	231.01	200	20		0.054	0.063	15.51	
Hexachlorobutadiene	1	0		9.47	20.38	20	20		0.175	0.178	1.92	
1,2,4-Trichlorobenzene	1	0		9.40	20.23	20	20	0.2	0.408	0.413	1.15	
1,2,3-Trichlorobenzene	1	0		9.70	20.09	20	20		0.306	0.307	0.46	
Naphthalene	1	0		9.56	21.85	20	20		1.012	1.106	9.25	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 2M193965.D **Instrument:** GCMS 2

Cont Calibration Date/Time 12/16/2023 8:51:00 Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.08	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.67	18.72	20	20	0.1	0.204	0.191	6.41	
Dichlorodifluoromethane	1	0		1.66	18.71	20	20	0.1	0.219	0.205	6.44	
Chloromethane	1	0		1.83	19.77	20	20	0.1	0.151	0.149	1.17	
Bromomethane	1	0		2.20	25.27	20	20	0.1	0.181	0.228	26.34	C1
Vinyl Chloride	1	0		1.93	19.27	20	20	0.1	0.205	0.197	3.65	
Chloroethane	1	0		2.29	25.69	20	20	0.1	0.142	0.182	28.43	C1
Trichlorofluoromethane	1	0		2.52	17.57	20	20	0.1	0.471	0.414	12.14	
Ethyl ether	1	0		2.77	23.18	20	20	0.5	0.143	0.166	15.88	
Furan	1	0		2.80	20.61	20	20	0.5	0.237	0.244	3.06	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		2.96	19.00	20	20	0.1	0.177	0.168	5.02	
Methylene Chloride	1	0		3.38	20.14	20	20	0.1	0.228	0.229	0.68	
Acrolein	1	0		2.89	97.83	100	20		0.027	0.027	2.17	
Acrylonitrile	1	0		3.60	20.96	20	20		0.063	0.066	4.78	
Iodomethane	1	0		3.12	16.39	20	20		0.326	0.309	18.08	
Acetone	1	0		3.02	99.85	100	20	0.1	0.047	0.046	0.15	
Carbon Disulfide	1	0		3.18	18.39	20	20	0.1	0.511	0.470	8.06	
t-Butyl Alcohol	1	0		3.46	100.75	100	20		0.017	0.017	0.75	
n-Hexane	1	0		3.84	16.63	20	20		0.147	0.122	16.84	
Di-isopropyl-ether	1	0		4.01	20.84	20	20		0.430	0.448	4.22	
1,1-Dichloroethene	1	0		2.97	20.18	20	20	0.1	0.270	0.273	0.90	
Methyl Acetate	1	0		3.29	25.06	20	20	0.1	0.105	0.131	25.30	C1
Methyl-t-butyl ether	1	0		3.61	20.03	20	20	0.1	0.587	0.588	0.13	
1,1-Dichloroethane	1	0		3.97	20.21	20	20	0.2	0.343	0.347	1.04	
trans-1,2-Dichloroethene	1	0		3.62	19.72	20	20	0.1	0.236	0.233	1.41	
Ethyl-t-butyl ether	1	0		4.27	21.51	20	20	0.5	0.556	0.598	7.53	
cis-1,2-Dichloroethene	1	0		4.39	18.28	20	20	0.1	0.353	0.323	8.59	
Bromochloromethane	1	0		4.54	21.41	20	20		0.144	0.154	7.05	
2,2-Dichloropropane	1	0		4.39	13.09	20	20		0.353	0.231	34.56	C1
Ethyl acetate	1	0		4.42	20.03	20	20		0.176	0.176	0.16	
1,4-Dioxane	1	0		5.48	709.08	1000	20		0.001	0.001	29.09	C1
1,1-Dichloropropene	1	0		4.81	19.01	20	20		0.308	0.293	4.95	
Chloroform	1	0		4.59	18.97	20	20	0.2	0.433	0.411	5.15	
Dibromofluoromethane	1	0	S	4.68	27.99	30	**		0.307	0.286	6.70	
Cyclohexane	1	0		4.75	19.83	20	20	0.1	0.213	0.211	0.84	
1,2-Dichloroethane-d4	1	0	S	4.89	29.56	30	**		0.140	0.138	1.48	
1,2-Dichloroethane	1	0		4.93	19.83	20	20	0.1	0.310	0.307	0.83	
2-Butanone	1	0		4.39	23.56	20	20	0.1	0.060	0.071	17.80	
1,1,1-Trichloroethane	1	0		4.71	18.52	20	20	0.1	0.412	0.382	7.38	
Carbon Tetrachloride	1	0		4.81	17.25	20	20	0.1	0.383	0.330	13.76	
Vinyl Acetate	1	0		4.00	18.43	20	20		0.567	0.523	7.84	
Bromodichloromethane	1	0		5.56	18.28	20	20	0.2	0.338	0.309	8.61	
Methylcyclohexane	1	0		5.40	18.99	20	20	0.1	0.256	0.243	5.05	
Dibromomethane	1	0		5.48	19.47	20	20		0.217	0.211	2.63	
1,2-Dichloropropane	1	0		5.42	20.21	20	20	0.1	0.199	0.201	1.07	
Trichloroethene	1	0		5.29	18.95	20	20	0.2	0.306	0.290	5.23	
Benzene	1	0		4.93	19.86	20	20	0.5	0.854	0.848	0.70	
tert-Amyl methyl ether	1	0		4.98	19.82	20	20		0.632	0.627	0.90	
Chlorobenzene-d5	1	0	I	6.73	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.93	25.14	20	20	0.5	0.344	0.432	25.71	C1
Methyl methacrylate	1	0		5.44	23.87	20	20	0.5	0.168	0.200	19.36	
Dibromochloromethane	1	0		6.41	19.69	20	20	0.1	0.350	0.345	1.53	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 2M193965.D **Instrument:** GCMS 2

Cont Calibration Date/Time 12/16/2023 8:51:00 Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.70	7.62	20	20		0.112	0.043	61.88	C1
cis-1,3-Dichloropropene	1	0		5.79	20.22	20	20	0.2	0.404	0.408	1.08	
trans-1,3-Dichloropropene	1	0		6.08	19.41	20	20	0.1	0.384	0.372	2.95	
Ethyl methacrylate	1	0		6.10	23.46	20	20	0.5	0.168	0.197	17.31	
1,1,2-Trichloroethane	1	0		6.18	22.71	20	20	0.1	0.256	0.291	13.57	
1,2-Dibromoethane	1	0		6.48	21.20	20	20	0.1	0.295	0.313	6.01	
1,3-Dichloropropane	1	0		6.28	23.07	20	20		0.388	0.448	15.37	
4-Methyl-2-Pentanone	1	0		5.86	25.66	20	20	0.1	0.173	0.222	28.30	C1
2-Hexanone	1	0		6.29	25.32	20	20	0.1	0.125	0.158	26.58	C1
Tetrachloroethene	1	0		6.28	22.36	20	20	0.2	0.261	0.292	11.80	
Toluene-d8	1	0	S	5.94	33.25	30	**		1.168	1.295	10.85	
Toluene	1	0		5.98	22.15	20	20	0.4	0.662	0.733	10.74	
1,1,1,2-Tetrachloroethane	1	0		6.78	20.12	20	20		0.307	0.308	0.61	
Chlorobenzene	1	0		6.74	21.54	20	20	0.5	0.801	0.863	7.69	
1,4-Dichlorobenzene-d4	1	0	I	8.01	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		6.98	23.15	20	20	0.5	0.779	0.902	15.77	
n-Amyl acetate	1	0		7.10	23.40	20	20	0.5	0.584	0.683	17.00	
Bromoform	1	0		7.20	19.52	20	20	0.1	0.486	0.474	2.40	
Ethylbenzene	1	0		6.78	21.28	20	20	0.1	0.657	0.699	6.40	
1,1,2,2-Tetrachloroethane	1	0		7.41	23.37	20	20	0.1	0.599	0.700	16.86	
Bromofluorobenzene	1	0	S	7.35	29.20	30	**		0.876	0.853	2.68	
Styrene	1	0		7.07	21.56	20	20	0.3	1.565	1.687	7.79	
m&p-Xylenes	1	0		6.84	44.28	40	20	0.1	0.908	1.005	10.70	
o-Xylene	1	0		7.06	21.18	20	20	0.3	0.941	0.997	5.92	
trans-1,4-Dichloro-2-butene	1	0		7.43	19.26	20	20		0.147	0.142	3.70	
1,3-Dichlorobenzene	1	0		7.98	21.10	20	20	0.6	1.138	1.201	5.50	
1,4-Dichlorobenzene	1	0		8.03	21.77	20	20	0.5	1.113	1.211	8.84	
1,2-Dichlorobenzene	1	0		8.25	22.09	20	20	0.4	1.038	1.146	10.43	
Isopropylbenzene	1	0		7.26	22.32	20	20	0.1	2.041	2.278	11.60	
Cyclohexanone	1	0		7.34	87.42	100	20		0.022	0.017	12.58	
Camphene	1	0		7.43	21.95	20	20		0.439	0.482	9.77	
1,2,3-Trichloropropane	1	0		7.45	21.51	20	20		0.697	0.749	7.53	
2-Chlorotoluene	1	0		7.55	21.45	20	20		1.209	1.296	7.24	
p-Ethyltoluene	1	0		7.54	22.80	20	20		1.967	2.242	13.99	
4-Chlorotoluene	1	0		7.61	21.26	20	20		1.262	1.342	6.32	
n-Propylbenzene	1	0		7.48	22.86	20	20		2.178	2.489	14.29	
Bromobenzene	1	0		7.46	21.77	20	20		1.193	1.299	8.85	
1,3,5-Trimethylbenzene	1	0		7.57	20.91	20	20		1.590	1.663	4.57	
Butyl methacrylate	1	0		7.57	21.97	20	20	0.5	0.448	0.492	9.86	
t-Butylbenzene	1	0		7.76	21.89	20	20		1.632	1.786	9.43	
1,2,4-Trimethylbenzene	1	0		7.79	21.93	20	20		1.718	1.884	9.65	
sec-Butylbenzene	1	0		7.88	22.53	20	20		1.819	2.049	12.67	
4-Isopropyltoluene	1	0		7.96	22.31	20	20		1.608	1.794	11.56	
n-Butylbenzene	1	0		8.20	23.15	20	20		1.480	1.713	15.75	
p-Diethylbenzene	1	0		8.18	22.20	20	20		0.878	0.975	10.98	
1,2,4,5-Tetramethylbenzene	1	0		8.64	22.76	20	20		1.214	1.381	13.78	
1,2-Dibromo-3-Chloropropane	1	0		8.70	19.56	20	20	0.05	0.156	0.153	2.22	
Camphor	1	0		9.13	178.21	200	20		0.047	0.042	10.89	
Hexachlorobutadiene	1	0		9.27	22.06	20	20		0.211	0.233	10.29	
1,2,4-Trichlorobenzene	1	0		9.19	21.93	20	20	0.2	0.474	0.520	9.63	
1,2,3-Trichlorobenzene	1	0		9.49	14.41	20	20		0.394	0.284	27.96	C1
Naphthalene	1	0		9.35	18.63	20	20		1.286	1.198	6.83	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

FORM8

Internal Standard Areas

Evaluation Std Data File: 2M192656.D Method: EPA 8260D

Analysis Date/Time: 11/16/23 16:29

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	471655	5.09	433564	6.73	225815	8.01								
Eval File Area Limit:	235828-943310		216782-867128		112908-451630									
Eval File Rt Limit:	4.59-5.59		6.23-7.23		7.51-8.51									
Data File Sample#														
2M192650.D CAL @ 0.5 PPB	456215	5.09	414947	6.73	215129	8.01								
2M192651.D CAL @ 1 PPB	448098	5.09	413316	6.73	207491	8.01								
2M192652.D CAL @ 5 PPB	459173	5.09	422448	6.73	208658	8.01								
2M192654.D CAL @ 10 PPB	473593	5.09	411229	6.73	220890	8.01								
2M192656.D CAL @ 20 PPB	471655	5.09	433564	6.73	225815	8.01								
2M192659.D CAL @ 50 PPB	463456	5.09	430189	6.73	232105	8.01								
2M192662.D CAL @ 100 PPB	453481	5.09	425805	6.73	244948	8.01								
2M192665.D CAL @ 250 PPB	463660	5.09	442705	6.73	267342	8.01								
2M192669.D CAL @ 500 PPB	487849	5.09	492221	6.73	268559	8.01								
2M192676.D ICV	419820	5.09	389762	6.73	203070	8.01								

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

3121329 0163

FORM8

Internal Standard Areas

Evaluation Std Data File: 6M176462.D Method: EPA 8260D

Analysis Date/Time: 11/28/23 00:45

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	927116	5.11	652701	6.74	338809	8.04								
Eval File Area Limit:	463558-1854232		326350-1305402		169404-677618									
Eval File Rt Limit:	4.61-5.61		6.24-7.24		7.54-8.54									

Data File	Sample#							
6M176458.D	CAL @ 0.5 PPB	895665	5.11	638076	6.74	298091	8.04	
6M176459.D	CAL @ 1 PPB	883547	5.11	623344	6.74	305882	8.04	
6M176460.D	CAL @ 2 PPB	868774	5.11	624496	6.74	307633	8.04	
6M176461.D	CAL @ 5 PPB	879227	5.11	620937	6.74	312661	8.04	
6M176462.D	CAL @ 20 PPB	927116	5.11	652701	6.74	338809	8.04	
6M176463.D	CAL @ 50 PPB	969981	5.11	697820	6.74	356310	8.04	
6M176465.D	CAL @ 100 PPB	952479	5.11	719223	6.74	364863	8.04	
6M176467.D	CAL @ 250 PPB	997943	5.11	749546	6.75	382140	8.04	
6M176470.D	CAL @ 500 PPB	1033042	5.11	793168	6.75	394551	8.04	
6M176475.D	ICV	964108	5.11	700263	6.74	363161	8.04	
6M176480.D	DAILY BLANK	871598	5.11	619757	6.74	294720	8.04	
6M176481.D	MDL @ 1 PPB	871318	5.11	635809	6.74	299411	8.04	
6M176482.D	MDL @ 1 PPB	840684	5.11	622173	6.74	297468	8.04	
6M176483.D	MDL @ 1 PPB	856692	5.11	620734	6.74	295028	8.04	
6M176484.D	MDL @ 1 PPB	862352	5.11	632280	6.74	291828	8.04	

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 11M117827.D Method: EPA 8260D

Analysis Date/Time: 12/02/23 02:09

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	253610	4.95	262317	6.54	136981	7.81								
Eval File Area Limit:	126805-507220		131158-524634		68490-273962									
Eval File Rt Limit:	4.45-5.45		6.04-7.04		7.31-8.309999									

Data File Sample#						
11M117820.D 1 PPB	251210	4.95	269220	6.54	134592	7.81
11M117823.D CAL @ 0.5 PPB	238482	4.96	250734	6.54	123385	7.81
11M117824.D CAL @ 1 PPB	238967	4.95	265022	6.54	133311	7.81
11M117825.D CAL @ 5 PPB	249428	4.95	262591	6.54	133343	7.81
11M117826.D CAL @ 10 PPB	242531	4.95	255062	6.54	133542	7.81
11M117827.D CAL @ 20 PPB	253610	4.95	262317	6.54	136981	7.81
11M117829.D CAL @ 50 PPB	232725	4.95	243730	6.54	138282	7.81
11M117832.D CAL @ 100 PPB	240590	4.95	261911	6.54	82082	7.81
11M117836.D CAL @ 250 PPB	315354	4.95	340457	6.54	72560	7.81
11M117841.D 500 PPB	78466 A	4.95	93981 A	6.55	105297	7.81
11M117848.D STD	239040	4.95	255025	6.54	134124	7.81
11M117849.D ICV	256781	4.95	273037	6.54	138804	7.81

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 1M181429.D Method: EPA 8260D

Analysis Date/Time: 12/06/23 19:26

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	363350	5.27	275567	6.91	145799	8.20								
Eval File Area Limit:	181675-726700		137784-551134		72900-291598									
Eval File Rt Limit:	4.77-5.77		6.41-7.41		7.7-8.7									

Data File	Sample#						
1M181428.D	20 PPB	267830	5.28	197928	6.91	111211	8.20
1M181429.D	CAL @ 20 PPB	363350	5.27	275567	6.91	145799	8.20
1M181432.D	20 PPB	479021	5.28	359640	6.91	195689	8.20
1M181435.D	41778-001(50X)	414953	5.27	321055	6.91	162750	8.20
1M181440.D	CAL @ 0.5 PPB	421645	5.28	335374	6.91	170789	8.20
1M181441.D	CAL @ 1 PPB	423730	5.27	327813	6.91	177393	8.20
1M181442.D	CAL @ 5 PPB	426143	5.27	327856	6.91	183604	8.20
1M181443.D	CAL @ 10 PPB	440053	5.27	341764	6.91	198130	8.20
1M181445.D	20 PPB	433809	5.27	336940	6.91	201742	8.20
1M181447.D	CAL @ 50 PPB	443554	5.27	347928	6.91	220075	8.20
1M181450.D	CAL @ 100 PPB	455011	5.27	355397	6.91	284435	8.20
1M181453.D	CAL @ 250 PPB	553811	5.27	366903	6.91	92174	8.20
1M181456.D	BLK	395386	5.27	323957	6.91	179292	8.20
1M181457.D	500 PPB	129946A	5.27	469428	6.91	111490	8.21
1M181460.D	BLK	412050	5.27	336077	6.91	182214	8.20

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

3121329 0166

FORM8

Internal Standard Areas

Evaluation Std Data File: 6M177152.D Method: EPA 8260D

Analysis Date/Time: 12/14/23 10:37

Lab File ID: CAL @ 50 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	824781	5.11	644585	6.74	339595	8.03								
Eval File Area Limit:	412390-1649562		322292-1289170		169798-679190									
Eval File Rt Limit:	4.61-5.61		6.24-7.24		7.53-8.53									

Data File	Sample#						
6M177154.D	50 PPB	881580	5.11	685437	6.74	361562	8.03
6M177156.D	BLK-DI	802561	5.11	621478	6.74	301495	8.04
6M177157.D	DAILY BLANK	766023	5.11	593611	6.74	287441	8.04
6M177158.D	AD41895-005	705305	5.11	510450	6.74	208724	8.03
6M177159.D	AD41895-006	740766	5.11	589095	6.74	286237	8.03
6M177160.D	AD41895-013	699786	5.11	524015	6.74	219244	8.04
6M177161.D	AD41895-001	732392	5.11	460400	6.75	1334 A	8.06
6M177162.D	AD41861-005(MS)	954227	5.11	793820	6.74	404865	8.03
6M177163.D	AD41861-005(MSD)	1231092	5.11	1003065	6.74	497808	8.03
6M177164.D	MBS113983	1286629	5.11	993114	6.74	497814	8.03
6M177165.D	BLK	1159982	5.11	897035	6.74	428770	8.03
6M177166.D	AD41861-005	1078643	5.11	826134	6.74	392206	8.03
6M177167.D	AD41928-001	953637	5.11	760067	6.74	360725	8.03
6M177168.D	AD41928-002	935187	5.11	734979	6.74	353463	8.04
6M177169.D	AD41928-003	907842	5.11	702266	6.74	344583	8.03
6M177170.D	AD41928-004	870963	5.11	697556	6.74	333740	8.03
6M177171.D	AD41925-002	840847	5.11	654665	6.74	329625	8.04
6M177172.D	AD41925-003	824907	5.11	662306	6.74	323801	8.03
6M177173.D	AD41925-005	832139	5.11	658490	6.74	321078	8.03
6M177174.D	AD41925-006	810696	5.11	655885	6.74	327375	8.03
6M177175.D	AD41925-007	808828	5.11	649511	6.74	308687	8.04
6M177176.D	AD41925-008	807091	5.11	628986	6.74	309864	8.03
6M177177.D	AD41925-009	809760	5.11	637010	6.74	310261	8.04
6M177178.D	AD41925-012	798873	5.11	625284	6.74	302666	8.03
6M177179.D	AD41925-001	777017	5.11	593451	6.74	294479	8.03
6M177180.D	AD41925-010	709268	5.11	516356	6.74	233198	8.03
6M177181.D	AD41923-002	795909	5.11	618393	6.74	301658	8.03
6M177182.D	AD41923-005	744900	5.11	573116	6.74	256974	8.03
6M177183.D	AD41920-002	755434	5.11	589379	6.74	279133	8.03

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 11M118357.D Method: EPA 8260D

Analysis Date/Time: 12/15/23 11:25

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	230709	4.95	273361	6.54	146690	7.81								
Eval File Area Limit:	115354-461418		136680-546722		73345-293380									
Eval File Rt Limit:	4.45-5.45		6.04-7.04		7.31-8.309999									

Data File	Sample#						
11M118356.D	20 PPB	215187	4.95	260383	6.54	141029	7.81
11M118358.D	BLK-HCL	214674	4.95	260451	6.54	126283	7.81
11M118359.D	DI	213652	4.95	255413	6.54	122065	7.81
11M118360.D	DAILY BLANK	215337	4.95	266781	6.54	131067	7.81
11M118361.D	DAILY BLANK	219234	4.95	265747	6.54	133560	7.81
11M118362.D	AD41897-007	215823	4.95	268693	6.54	128774	7.81
11M118363.D	AD41956-001	218753	4.95	265750	6.54	127483	7.81
11M118364.D	AD41916-001	213081	4.95	265411	6.54	133049	7.81
11M118365.D	AD41925-004	213105	4.95	276303	6.54	146278	7.81
11M118366.D	AD41925-011	214784	4.95	273921	6.54	147986	7.81
11M118367.D	AD41925-010(MS)	226441	4.95	282356	6.54	155958	7.81
11M118368.D	MBS113992	230750	4.95	279490	6.54	145493	7.81
11M118369.D	MBS113993	225609	4.95	272090	6.54	142735	7.81
11M118370.D	AD41925-010(MSD)	227458	4.95	282355	6.54	155751	7.81
11M118371.D	AD41805-020(T:MS)	220523	4.95	263477	6.54	137918	7.81
11M118372.D	AD41805-020(T:MSD)	233666	4.95	275007	6.54	145893	7.81
11M118373.D	AD41925-010	215891	4.95	280215	6.54	149612	7.81
11M118374.D	AD41913-001	218187	4.95	270560	6.54	132015	7.81
11M118375.D	JUG2	223397	4.95	269462	6.54	128722	7.81
11M118376.D	AD41913-003	212119	4.95	254961	6.54	122818	7.81
11M118377.D	AD41913-004	220374	4.95	270202	6.54	131897	7.81
11M118378.D	AD41913-005	214504	4.96	262121	6.54	128425	7.81
11M118379.D	AD41902-014	209550	4.95	255028	6.54	127334	7.81
11M118380.D	AD41902-015	209764	4.95	264603	6.54	130460	7.81
11M118381.D	AD41953-001(10X)	203045	4.95	241821	6.54	121575	7.81
11M118382.D	AD41932-007	207399	4.95	254885	6.54	123579	7.81
11M118383.D	AD41932-008	207922	4.95	252050	6.54	120530	7.81
11M118384.D	AD41981-001	206750	4.95	254895	6.54	122165	7.81
11M118385.D	AD41981-002	204003	4.95	246129	6.54	118955	7.81
11M118386.D	AD41981-003	207625	4.96	254263	6.54	121565	7.81
11M118387.D	AD41981-008	206428	4.95	252275	6.54	121600	7.81
11M118388.D	AD41981-009	206231	4.95	248425	6.54	121354	7.81

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

3121329 0168

FORM8

Internal Standard Areas

Evaluation Std Data File: 11M118357.D Method: EPA 8260D

Analysis Date/Time: 12/15/23 11:25

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	230709	4.95	273361	6.54	146690	7.81								
Eval File Area Limit:	115354-461418		136680-546722		73345-293380									
Eval File Rt Limit:	4.45-5.45		6.04-7.04		7.31-8.309999									
Data File Sample#														
11M118389.D AD41981-010	197552	4.95	241290	6.54	118986	7.81								

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 1M181771.D Method: EPA 8260D

Analysis Date/Time: 12/15/23 18:15

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	413450	5.28	322030	6.91	170694	8.20								
Eval File Area Limit:	206725-826900		161015-644060		85347-341388									
Eval File Rt Limit:	4.78-5.78		6.41-7.41		7.7-8.7									
Data File Sample#														
1M181775.D DAILY BLANK	359008	5.27	274126	6.91	145066	8.20								
1M181776.D DAILY BLANK	386801	5.27	305463	6.91	161602	8.20								
1M181777.D AD41932-003	387947	5.27	308811	6.91	162790	8.20								
1M181778.D AD41932-006	367276	5.27	287047	6.91	152004	8.20								
1M181779.D AD41932-002	366448	5.27	286212	6.91	144750	8.20								
1M181780.D AD41932-001	366429	5.27	285253	6.91	139693	8.20								
1M181781.D MBS114002	352999	5.27	269161	6.91	148297	8.20								
1M181782.D MBS114003	402306	5.27	325004	6.91	176243	8.20								
1M181783.D AD41932-003(MS)	394756	5.27	307663	6.91	162255	8.20								
1M181784.D AD41932-003(MSD)	378736	5.27	299835	6.91	163014	8.20								
1M181785.D 41954-020(50X)	359755	5.27	282989	6.91	145085	8.20								
1M181786.D AD41929-007	342579	5.27	266335	6.91	132139	8.20								
1M181787.D AD41929-008	348974	5.27	267069	6.91	129186	8.20								
1M181788.D AD41925-015	350836	5.27	266449	6.91	134542	8.20								
1M181789.D AD41925-014	331783	5.27	262523	6.91	131001	8.20								
1M181790.D AD41929-001	348142	5.27	274172	6.91	136777	8.20								
1M181791.D AD41929-002	351787	5.27	271805	6.91	133457	8.20								
1M181792.D AD41929-003	337834	5.27	264266	6.91	126365	8.20								
1M181793.D AD41929-004	340734	5.27	270706	6.91	133710	8.20								
1M181794.D AD41929-005	335458	5.27	269313	6.91	139625	8.20								
1M181795.D AD41929-006	336908	5.27	268478	6.91	139131	8.20								
1M181796.D AD41929-009	340141	5.27	263310	6.91	125814	8.20								
1M181797.D AD41929-010	326654	5.27	264387	6.91	133880	8.20								
1M181798.D AD41929-011	327534	5.27	266365	6.91	132911	8.20								
1M181799.D AD41929-012	323739	5.27	256855	6.91	127821	8.20								
1M181800.D AD41929-013	309127	5.27	243284	6.91	118433	8.20								
1M181801.D AD41929-014	307700	5.27	239653	6.91	115691	8.20								
1M181802.D STD	323068	5.27	256420	6.91	141158	8.20								

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

3121329 0170

FORM8

Internal Standard Areas

Evaluation Std Data File: 2M193965.D Method: EPA 8260D

Analysis Date/Time: 12/16/23 08:51

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	836383	5.08	663473	6.73	348349	8.01								
Eval File Area Limit:	418192-1672766		331736-1326946		174174-696698									
Eval File Rt Limit:	4.58-5.58		6.23-7.23		7.51-8.51									

Data File	Sample#													
2M193966.D	20 PPB	923779	5.08	743427	6.73	241103	8.01							
2M193967.D	20 PPB	912124	5.09	726311	6.73	371340	8.01							
2M193969.D	BLK	930954	5.09	757973	6.73	370305	8.01							
2M193970.D	DAILY BLANK	909632	5.08	740631	6.73	354589	8.01							
2M193971.D	BLK	887676	5.08	399589	6.73	171049 A	8.01							
2M193972.D	AD41943-001	911909	5.09	719693	6.73	184884	8.01							
2M193973.D	AD41943-032	933916	5.09	749744	6.73	348365	8.01							
2M193974.D	AD41943-002	917242	5.09	741826	6.73	365013	8.01							
2M193975.D	AD41943-004	940560	5.09	750007	6.73	379420	8.01							
2M193976.D	MBS113997	870048	5.09	691053	6.73	344002	8.01							
2M193977.D	MBS113998	933529	5.09	760179	6.73	211176	8.01							
2M193978.D	AD41813-006(50X)(T:	853158	5.09	687432	6.73	326116	8.01							
2M193979.D	AD41813-006(50X)(T:	901951	5.09	737259	6.73	327152	8.01							
2M193980.D	BLK	917851	5.09	736676	6.73	362323	8.01							
2M193981.D	AD41813-006(50X)(T)	914479	5.09	742647	6.73	216204	8.01							
2M193982.D	AD41943-020	898516	5.09	730318	6.73	189327	8.01							
2M193983.D	AD41943-024	899271	5.09	735015	6.73	167162 A	8.01							
2M193984.D	AD41943-026	876813	5.09	720883	6.73	358122	8.01							
2M193985.D	AD41943-028	878444	5.09	723321	6.73	350595	8.01							
2M193986.D	AD41943-030	917977	5.09	677281	6.73	165959 A	8.01							
2M193987.D	AD41943-034	860943	5.09	675780	6.73	335582	8.01							
2M193988.D	AD41943-036	903590	5.09	649831	6.73	327903	8.01							
2M193989.D	AD41943-016	908551	5.09	721360	6.73	179687	8.01							
2M193990.D	AD41943-006	923977	5.09	750811	6.73	368742	8.01							
2M193991.D	AD41943-014	929313	5.09	732247	6.73	354678	8.01							
2M193992.D	AD41943-008	901321	5.09	740284	6.73	224412	8.01							
2M193993.D	AD41943-010	917136	5.09	738588	6.73	341307	8.01							
2M193994.D	AD41943-012	929074	5.09	748981	6.73	371729	8.01							
2M193995.D	BLK	930922	5.09	754787	6.73	359381	8.01							
2M193996.D	AD41925-013	940246	5.09	753374	6.73	351538	8.01							
2M193997.D	AD41943-022	939771	5.09	748654	6.73	370496	8.01							
2M193998.D	AD41943-018	904125	5.09	738972	6.73	369376	8.01							

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

3121329 0171

FORM8

Internal Standard Areas

Evaluation Std Data File: 2M193965.D Method: EPA 8260D

Analysis Date/Time: 12/16/23 08:51

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	836383	5.08	663473	6.73	348349	8.01								
Eval File Area Limit:	418192-1672766		331736-1326946		174174-696698									
Eval File Rt Limit:	4.58-5.58		6.23-7.23		7.51-8.51									
Data File Sample#														
2M193999.D MBS113999	889597	5.08	722181	6.73	369496	8.01								
2M194000.D 41994-001	895360	5.08	710177	6.72	351155	8.01								
2M194001.D 41994-004	863550	5.08	701493	6.73	387696	8.01								
2M194002.D 41994-006	988004	5.08	794018	6.72	405361	8.01								
2M194003.D 41983-001	885688	5.08	720733	6.73	364055	8.01								
2M194004.D 41991-001	902200	5.08	508702	6.73	393015	8.01								
2M194005.D 41991-009	909485	5.08	733258	6.73	372426	8.01								
2M194006.D 41972-002	883007	5.08	558559	6.73	277256	8.01								

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

Base Neutral/Acid Extractable Data

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD41925-001(3X)
Client Id: PESRM-T30-01-SS01
Data File: 5M126657.D
Analysis Date: 12/22/23 17:46
Date Rec/Extracted: 12/13/23-12/22/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 3
Solids: 62

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
120-12-7	Anthracene	0.16	U	**218-01-9**	**Chrysene**	**0.16**	**0.43**
56-55-3	**Benzo[a]anthracene**	**0.16**	**0.42**	86-73-7	Fluorene	0.16	U
50-32-8	**Benzo[a]pyrene**	**0.16**	**0.51**	**91-20-3**	**Naphthalene**	**0.040**	**0.096**
205-99-2	**Benzo[b]fluoranthene**	**0.16**	**0.73**	**85-01-8**	**Phenanthrene**	**0.16**	**0.28**
191-24-2	**Benzo[g,h,i]perylene**	**0.16**	**0.36**	**129-00-0**	**Pyrene**	**0.16**	**0.60**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

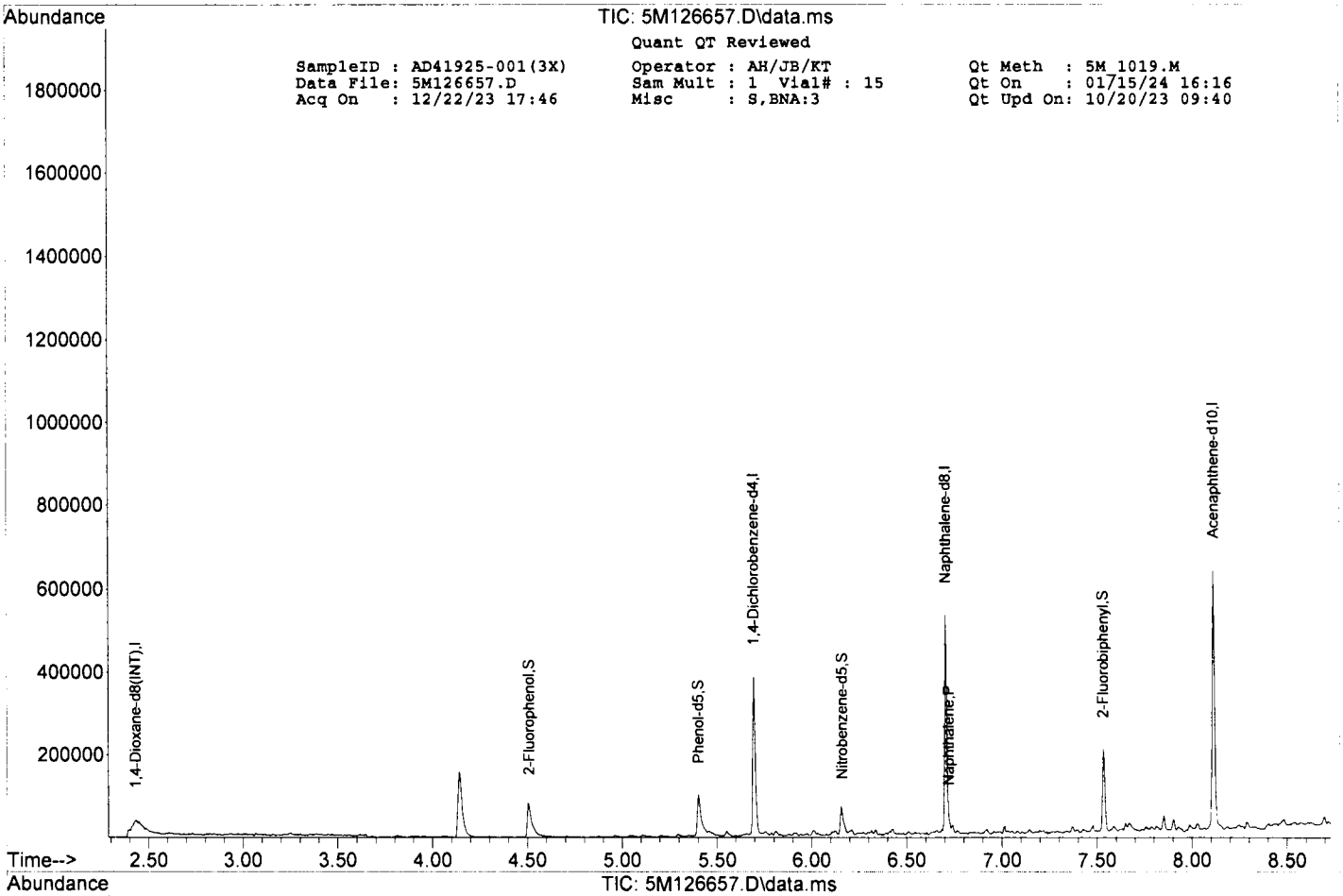
Quantitation Report (QT Reviewed)

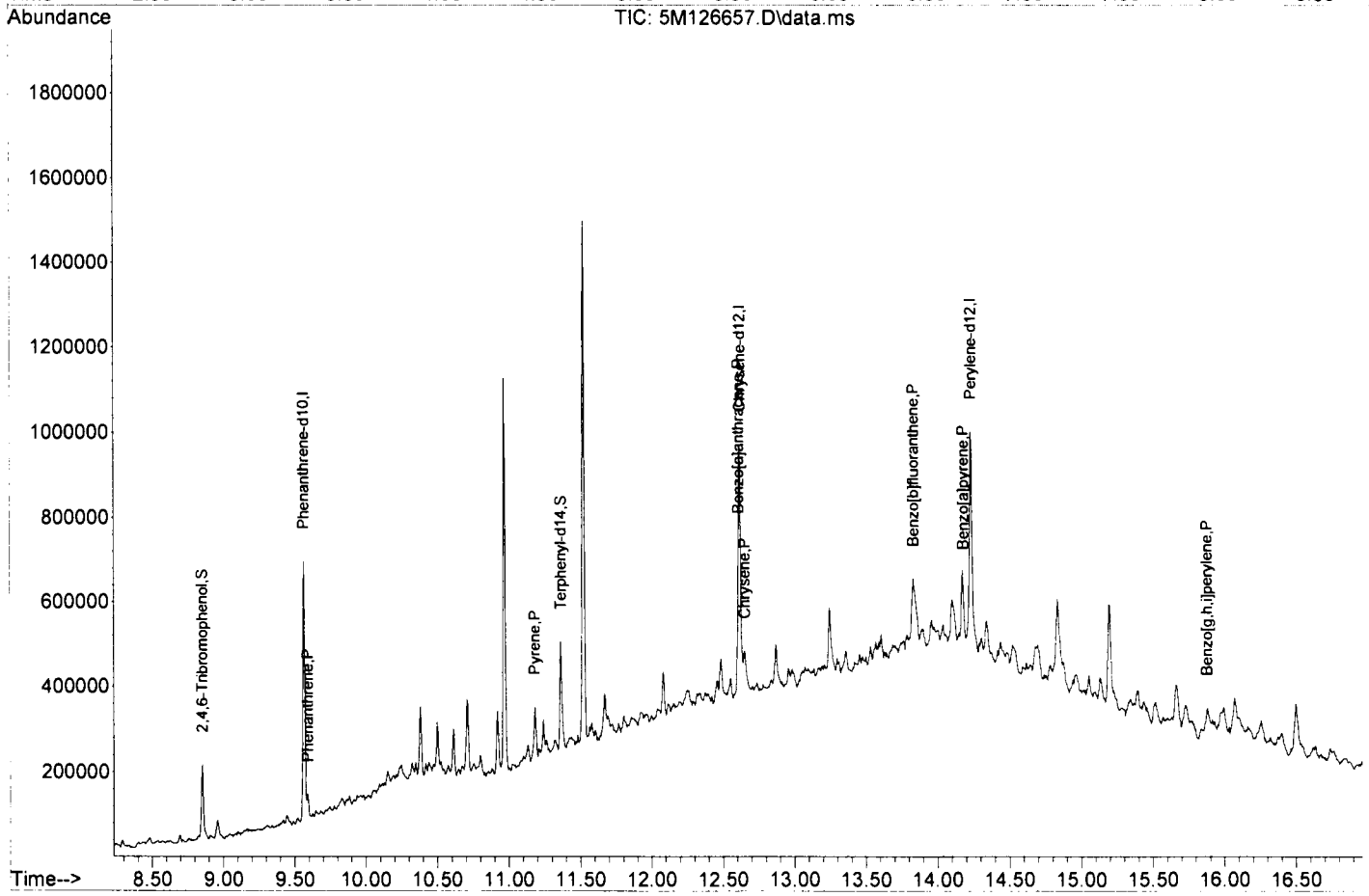
SampleID : AD41925-001(3X) Operator : AH/JB/KT Qt Meth : 5M_1019.M
Data File: 5M126657.D Sam Mult : 1 Vial# : 15 Qt On : 01/15/24 16:16
Acq On : 12/22/23 17:46 Misc : S,BNA:3 Qt Upd On: 10/20/23 09:40

Data Path : G:\GcMsData\2023\GCMS_5\Data\12-2223\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.432	96	36134	40.00	ng	-0.01
21) 1,4-Dichlorobenzene-d4	5.696	152	55183	40.00	ng	-0.01
31) Naphthalene-d8	6.705	136	183911	40.00	ng	-0.01
50) Acenaphthene-d10	8.116	164	120871	40.00	ng	-0.01
77) Phenanthrene-d10	9.564	188	238958	40.00	ng	-0.01
91) Chrysene-d12	12.619	240	238470	40.00	ng	0.00
103) Perylene-d12	14.233	264	235821	40.00	ng	0.01
System Monitoring Compounds						
11) 2-Fluorophenol	4.510	112	34437	26.61	ng	0.01
Spiked Amount 100.000			Recovery = 26.61%			
16) Phenol-d5	5.402	99	41019	25.36	ng	0.01
Spiked Amount 100.000			Recovery = 25.36%			
32) Nitrobenzene-d5	6.161	128	9303	14.91	ng	0.00
Spiked Amount 50.000			Recovery = 29.82%			
55) 2-Fluorobiphenyl	7.533	172	56813	14.49	ng	-0.01
Spiked Amount 50.000			Recovery = 28.98%			
80) 2,4,6-Tribromophenol	8.853	330	22747	35.17	ng	0.00
Spiked Amount 100.000			Recovery = 35.17%			
94) Terphenyl-d14	11.364	244	75698	14.91	ng	0.00
Spiked Amount 50.000			Recovery = 29.82%			
Target Compounds						Qvalue
41) Naphthalene	6.721	128	5310m	1.1902	ng	
86) Phenanthrene	9.590	178	20328m	3.4897	ng	
92) Pyrene	11.182	202	54128m	7.4402	ng	
100) Benzo[a]anthracene	12.609	228	39042m	5.1975	ng	
101) Chrysene	12.651	228	37008m	5.3165	ng	
105) Benzo[b]fluoranthene	13.832	252	63079m	9.0765	ng	
107) Benzo[a]pyrene	14.179	252	41112m	6.3569	ng	
110) Benzo[g,h,i]perylene	15.878	276	28389m	4.4757	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M126657.D\data.ms
Quant QT Reviewed
SampleID : AD41925-001(3X)
Data File: 5M126657.D
Acq On : 12/22/23 17:46
Operator : AH/JB/KT
Sam Mult : 1 Vial# : 15
Misc : S,BNA:3
Qt Meth : 5M_1019.M
Qt On : 01/15/24 16:16
Qt Upd On: 10/20/23 09:40
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
Naphthalene,P
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Time-->


Abundance
TIC: 5M126657.D\data.ms
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Phenanthrene,P
Pyrene,P
Terphenyl-d14,S
Chrysene-d12,I
Chrysene,P
Benzo[b]fluoranthene,P
Perylene-d12,I
Benzo[a]pyrene,P
Benzo[g,h,i]perylene,P
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD41925-002
Client Id: PESRM-T30-02-SS01
Data File: 5M126658.D
Analysis Date: 12/22/23 18:10
Date Rec/Extracted: 12/13/23-12/22/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 72

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
120-12-7	Anthracene	0.046	U	218-01-9	Chrysene	0.046	U
56-55-3	Benzo[a]anthracene	0.046	U	86-73-7	Fluorene	0.046	U
50-32-8	Benzo[a]pyrene	0.046	U	91-20-3	Naphthalene	0.012	U
205-99-2	Benzo[b]fluoranthene	0.046	U	85-01-8	Phenanthrene	0.046	U
191-24-2	Benzo[g,h,i]perylene	0.046	U	129-00-0	Pyrene	0.046	U

Worksheet #: 721743

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

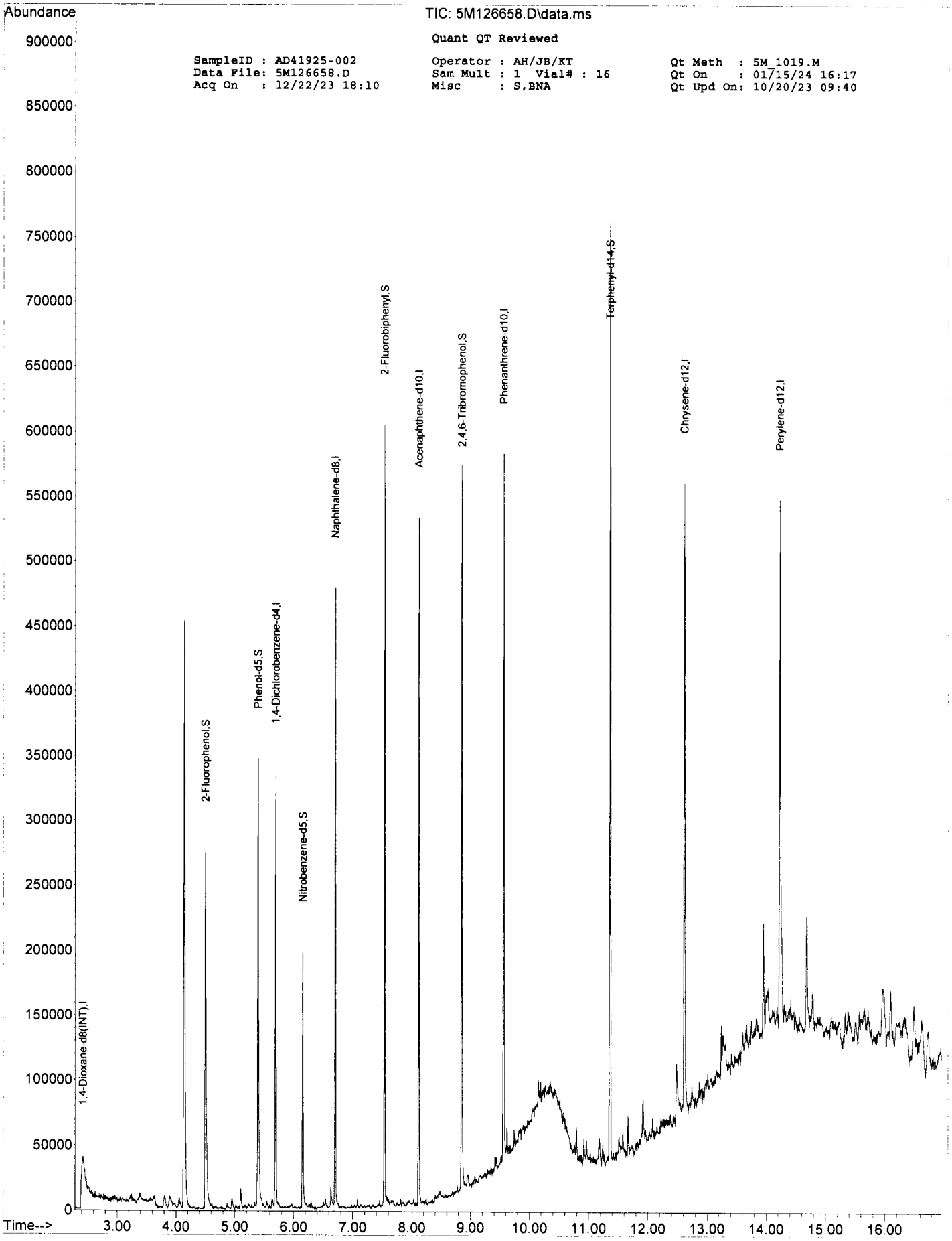
Quantitation Report (QT Reviewed)

SampleID : AD41925-002 Operator : AH/JB/KT Qt Meth : 5M_1019.M
Data File: 5M126658.D Sam Mult : 1 Vial# : 16 Qt On : 01/15/24 16:17
Acq On : 12/22/23 18:10 Misc : S,BNA Qt Upd On: 10/20/23 09:40

Data Path : G:\GcMsData\2023\GCMS_5\Data\12-2223\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.421	96	29510	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.696	152	45332	40.00	ng	-0.01
31) Naphthalene-d8	6.705	136	160954	40.00	ng	-0.01
50) Acenaphthene-d10	8.116	164	105940	40.00	ng	-0.01
77) Phenanthrene-d10	9.564	188	206491	40.00	ng	-0.01
91) Chrysene-d12	12.614	240	197285	40.00	ng	0.00
103) Perylene-d12	14.227	264	201461	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.499	112	92086	87.11	ng	0.00
Spiked Amount 100.000			Recovery = 87.11%			
16) Phenol-d5	5.397	99	113445	85.88	ng	0.00
Spiked Amount 100.000			Recovery = 85.88%			
32) Nitrobenzene-d5	6.155	128	23831	43.63	ng	0.00
Spiked Amount 50.000			Recovery = 87.26%			
55) 2-Fluorobiphenyl	7.534	172	156701	45.60	ng	-0.01
Spiked Amount 50.000			Recovery = 91.20%			
80) 2,4,6-Tribromophenol	8.853	330	72372	129.50	ng	0.00
Spiked Amount 100.000			Recovery = 129.50%			
94) Terphenyl-d14	11.359	244	239225	56.95	ng	-0.01
Spiked Amount 50.000			Recovery = 113.90%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M126658.D\data.ms
Quant QT Reviewed
SampleID : AD41925-002
Data File: 5M126658.D
Acq On : 12/22/23 18:10
Operator : AH/JB/KT
Sam Mult : 1 Vial# : 16
Misc : S,BNA
Qt Meth : 5M_1019.M
Qt On : 01/15/24 16:17
Qt Upd On: 10/20/23 09:40
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD41925-003
Client Id: PESRM-T30-03-SS01
Data File: 5M126663.D
Analysis Date: 12/22/23 20:09
Date Rec/Extracted: 12/13/23-12/22/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 71

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
120-12-7	Anthracene	0.047	U	218-01-9	Chrysene	0.047	U
56-55-3	Benzo[a]anthracene	0.047	U	86-73-7	Fluorene	0.047	U
50-32-8	Benzo[a]pyrene	0.047	U	91-20-3	Naphthalene	0.012	U
205-99-2	Benzo[b]fluoranthene	0.047	U	85-01-8	Phenanthrene	0.047	U
191-24-2	Benzo[g,h,i]perylene	0.047	U	129-00-0	Pyrene	0.047	U

Worksheet #: 721743

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

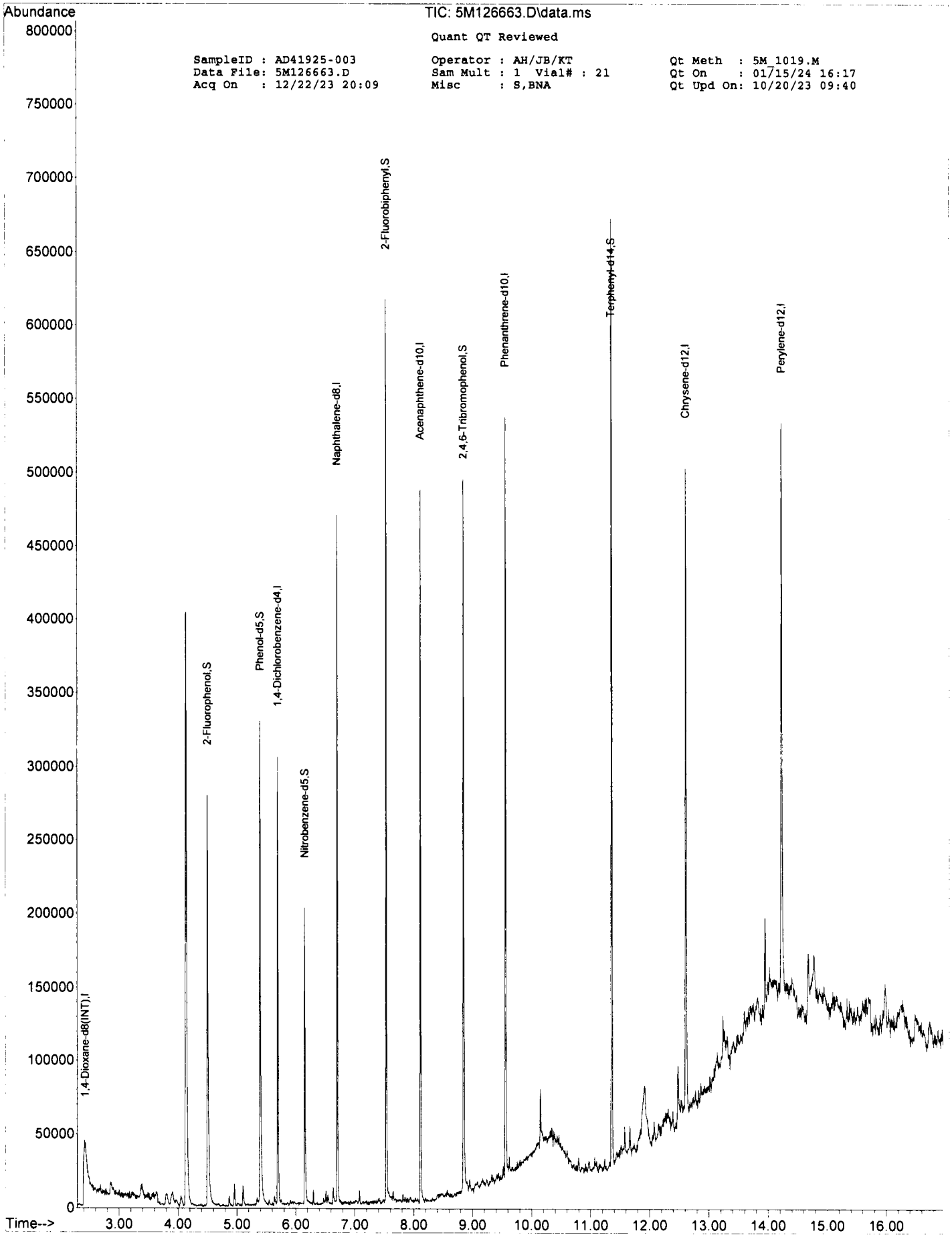
Quantitation Report (QT Reviewed)

SampleID : AD41925-003 Operator : AH/JB/KT Qt Meth : 5M_1019.M
Data File: 5M126663.D Sam Mult : 1 Vial# : 21 Qt On : 01/15/24 16:17
Acq On : 12/22/23 20:09 Misc : S,BNA Qt Upd On: 10/20/23 09:40

Data Path : G:\GcMsData\2023\GCMS_5\Data\12-2223\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.421	96	28622	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.696	152	43668	40.00	ng	-0.01
31) Naphthalene-d8	6.706	136	148673	40.00	ng	-0.01
50) Acenaphthene-d10	8.116	164	98102	40.00	ng	-0.01
77) Phenanthrene-d10	9.564	188	192954	40.00	ng	-0.01
91) Chrysene-d12	12.614	240	182076	40.00	ng	0.00
103) Perylene-d12	14.233	264	193988	40.00	ng	0.01
System Monitoring Compounds						
11) 2-Fluorophenol	4.499	112	87387	85.23	ng	0.00
Spiked Amount 100.000			Recovery = 85.23%			
16) Phenol-d5	5.397	99	105483	82.33	ng	0.00
Spiked Amount 100.000			Recovery = 82.33%			
32) Nitrobenzene-d5	6.155	128	24299	48.16	ng	0.00
Spiked Amount 50.000			Recovery = 96.32%			
55) 2-Fluorobiphenyl	7.534	172	154901	48.67	ng	-0.01
Spiked Amount 50.000			Recovery = 97.34%			
80) 2,4,6-Tribromophenol	8.853	330	63584	121.76	ng	0.00
Spiked Amount 100.000			Recovery = 121.76%			
94) Terphenyl-d14	11.359	244	212039	54.69	ng	-0.01
Spiked Amount 50.000			Recovery = 109.38%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M126663.D\data.ms
Quant QT Reviewed
SampleID : AD41925-003
Data File: 5M126663.D
Acq On : 12/22/23 20:09
Operator : AH/JB/KT
Sam Mult : 1 Vial# : 21
Misc : S,BNA
Qt Meth : 5M_1019.M
Qt On : 01/15/24 16:17
Qt Upd On: 10/20/23 09:40
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD41925-004
Client Id: PESRM-T30-04-SS01
Data File: 5M126664.D
Analysis Date: 12/22/23 20:33
Date Rec/Extracted: 12/13/23-12/22/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 78

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
120-12-7	Anthracene	0.043	U	218-01-9	Chrysene	0.043	U
56-55-3	Benzo[a]anthracene	0.043	U	86-73-7	Fluorene	0.043	U
50-32-8	Benzo[a]pyrene	0.043	U	**91-20-3**	**Naphthalene**	**0.011**	**0.046**
205-99-2	Benzo[b]fluoranthene	0.043	U	85-01-8	Phenanthrene	0.043	U
191-24-2	Benzo[g,h,i]perylene	0.043	U	129-00-0	Pyrene	0.043	U

Worksheet #: 721743

Total Target Concentration 0.046

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

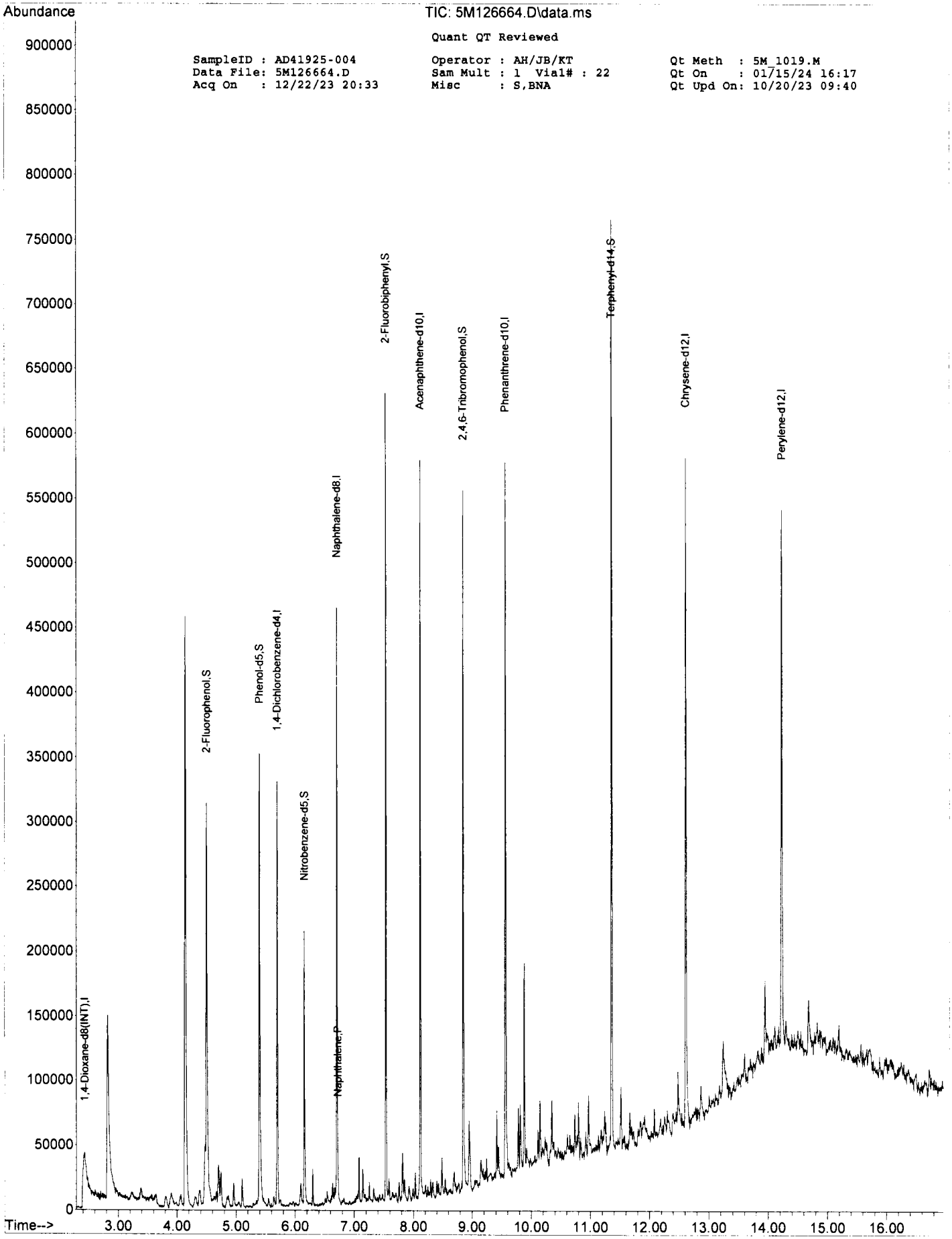
Quantitation Report (QT Reviewed)

SampleID : AD41925-004 Operator : AH/JB/KT Qt Meth : 5M_1019.M
Data File: 5M126664.D Sam Mult : 1 Vial# : 22 Qt On : 01/15/24 16:17
Acq On : 12/22/23 20:33 Misc : S,BNA Qt Upd On: 10/20/23 09:40

Data Path : G:\GcMsData\2023\GCMS_5\Data\12-2223\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.426	96	31907	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.696	152	48011	40.00	ng	-0.01
31) Naphthalene-d8	6.705	136	159060	40.00	ng	-0.01
50) Acenaphthene-d10	8.116	164	110086	40.00	ng	-0.01
77) Phenanthrene-d10	9.563	188	217216	40.00	ng	-0.01
91) Chrysene-d12	12.614	240	204790	40.00	ng	0.00
103) Perylene-d12	14.233	264	201478	40.00	ng	0.01
System Monitoring Compounds						
11) 2-Fluorophenol	4.499	112	99294	86.88	ng	0.00
Spiked Amount 100.000			Recovery = 86.88%			
16) Phenol-d5	5.396	99	114831	80.40	ng	0.00
Spiked Amount 100.000			Recovery = 80.40%			
32) Nitrobenzene-d5	6.155	128	25768	47.74	ng	0.00
Spiked Amount 50.000			Recovery = 95.48%			
55) 2-Fluorobiphenyl	7.533	172	165822	46.43	ng	-0.01
Spiked Amount 50.000			Recovery = 92.86%			
80) 2,4,6-Tribromophenol	8.853	330	69090	117.52	ng	0.00
Spiked Amount 100.000			Recovery = 117.52%			
94) Terphenyl-d14	11.358	244	234544	53.79	ng	-0.01
Spiked Amount 50.000			Recovery = 107.58%			
Target Compounds						Qvalue
41) Naphthalene	6.721	128	8336m	2.1605	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
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Quant QT Reviewed
SampleID : AD41925-004
Data File: 5M126664.D
Acq On : 12/22/23 20:33
Operator : AH/JB/KT
Sam Mult : 1 Vial# : 22
Misc : S,BNA
Qt Meth : 5M_1019.M
Qt On : 01/15/24 16:17
Qt Upd On: 10/20/23 09:40
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
Naphthalene,P
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD41925-005(3X)
Client Id: PESRM-T30-05-SS01
Data File: 5M126662.D
Analysis Date: 12/22/23 19:45
Date Rec/Extracted: 12/13/23-12/22/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 3
Solids: 65

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
120-12-7	Anthracene	0.15	U	**218-01-9**	**Chrysene**	**0.15**	**0.22**
56-55-3	**Benzo[a]anthracene**	**0.15**	**0.21**	86-73-7	Fluorene	0.15	U
50-32-8	**Benzo[a]pyrene**	**0.15**	**0.33**	**91-20-3**	**Naphthalene**	**0.038**	**0.077**
205-99-2	**Benzo[b]fluoranthene**	**0.15**	**0.43**	85-01-8	Phenanthrene	0.15	U
191-24-2	**Benzo[g,h,i]perylene**	**0.15**	**0.32**	**129-00-0**	**Pyrene**	**0.15**	**0.31**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

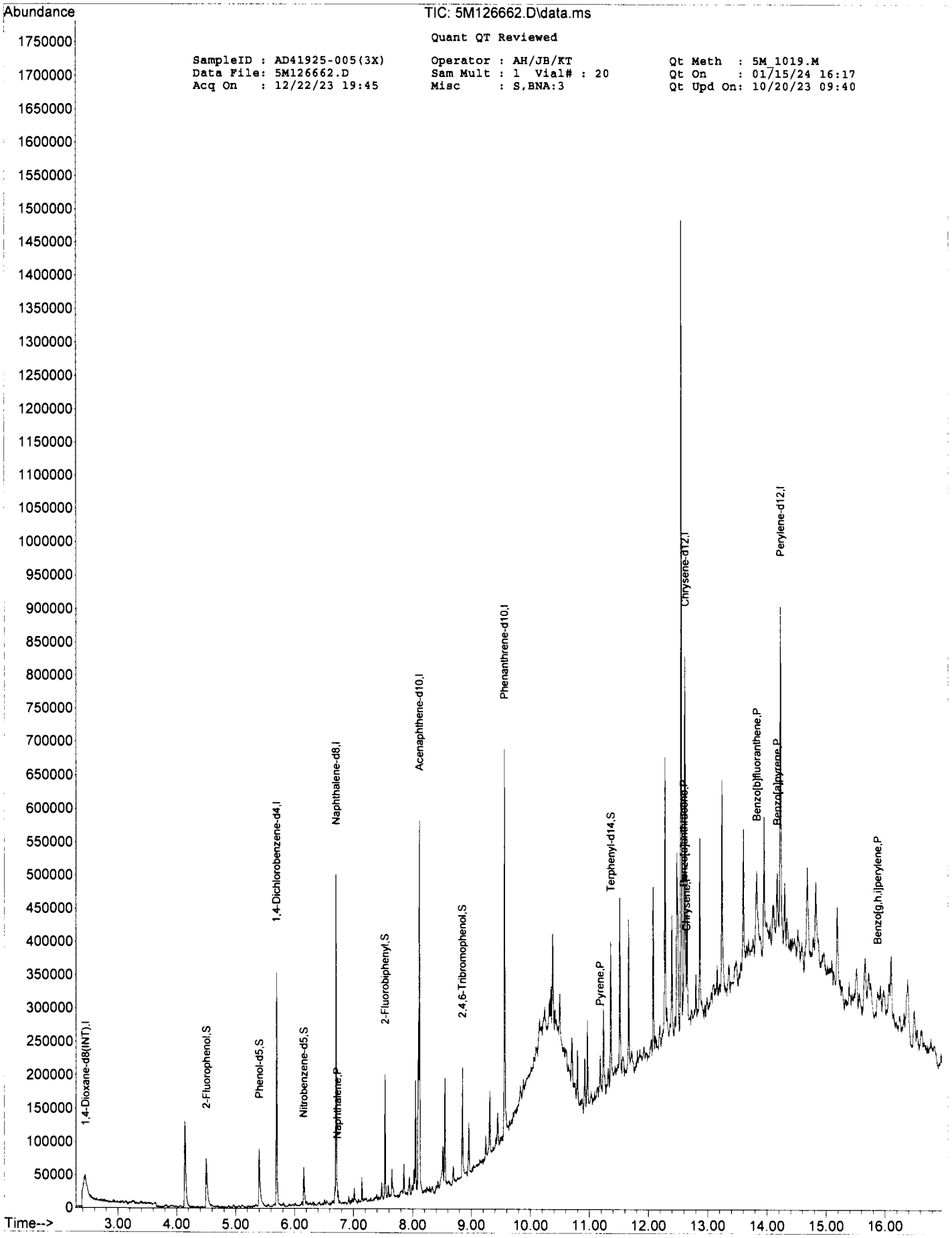
Quantitation Report (QT Reviewed)

SampleID : AD41925-005(3X) Operator : AH/JB/KT Qt Meth : 5M_1019.M
Data File: 5M126662.D Sam Mult : 1 Vial# : 20 Qt On : 01/15/24 16:17
Acq On : 12/22/23 19:45 Misc : S,BNA:3 Qt Upd On: 10/20/23 09:40

Data Path : G:\GcMsData\2023\GCMS_5\Data\12-2223\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.448	96	34016	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.696	152	49814	40.00	ng	-0.01
31) Naphthalene-d8	6.705	136	173647	40.00	ng	-0.01
50) Acenaphthene-d10	8.116	164	111812	40.00	ng	-0.01
77) Phenanthrene-d10	9.564	188	223621	40.00	ng	-0.01
91) Chrysene-d12	12.619	240	216196	40.00	ng	0.00
103) Perylene-d12	14.233	264	219258	40.00	ng	0.01
System Monitoring Compounds						
11) 2-Fluorophenol	4.504	112	29382	24.11	ng	0.00
Spiked Amount 100.000			Recovery = 24.11%			
16) Phenol-d5	5.402	99	35181	23.10	ng	0.01
Spiked Amount 100.000			Recovery = 23.10%			
32) Nitrobenzene-d5	6.155	128	8019	13.61	ng	0.00
Spiked Amount 50.000			Recovery = 27.22%			
55) 2-Fluorobiphenyl	7.533	172	51421	14.18	ng	-0.01
Spiked Amount 50.000			Recovery = 28.36%			
80) 2,4,6-Tribromophenol	8.853	330	21485	35.50	ng	0.00
Spiked Amount 100.000			Recovery = 35.50%			
94) Terphenyl-d14	11.364	244	72003	15.64	ng	0.00
Spiked Amount 50.000			Recovery = 31.28%			
Target Compounds						Qvalue
41) Naphthalene	6.727	128	4224m	1.0028	ng	
92) Pyrene	11.182	202	26364m	3.9972	ng	
100) Benzo[a]anthracene	12.603	228	18942m	2.7815	ng	
101) Chrysene	12.646	228	18386m	2.9134	ng	
105) Benzo[b]fluoranthene	13.832	252	35721m	5.5282	ng	
107) Benzo[a]pyrene	14.179	252	25458m	4.2338	ng	
110) Benzo[g,h,i]perylene	15.878	276	24643m	4.1786	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M126662.D\data.ms
Quant QT Reviewed
SampleID : AD41925-005(3X)
Data File: 5M126662.D
Acq On : 12/22/23 19:45
Operator : AH/JB/KT
Sam Mult : 1 Vial# : 20
Misc : S,BNA:3
Qt Meth : 5M_1019.M
Qt On : 01/15/24 16:17
Qt Upd On: 10/20/23 09:40
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
Naphthalene,P
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Pyrene,P
Terphenyl-d14,S
Chrysene-d12,I
Benzo[b]fluoranthene,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD41925-006
Client Id: PESRM-T30-06-SS01
Data File: 5M126665.D
Analysis Date: 12/22/23 20:57
Date Rec/Extracted: 12/13/23-12/22/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 72

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
120-12-7	Anthracene	0.046	U	218-01-9	Chrysene	0.046	U
56-55-3	Benzo[a]anthracene	0.046	U	86-73-7	Fluorene	0.046	U
50-32-8	Benzo[a]pyrene	0.046	U	91-20-3	Naphthalene	0.012	U
205-99-2	Benzo[b]fluoranthene	0.046	U	85-01-8	Phenanthrene	0.046	U
191-24-2	Benzo[g,h,i]perylene	0.046	U	129-00-0	Pyrene	0.046	U

Worksheet #: 721743

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

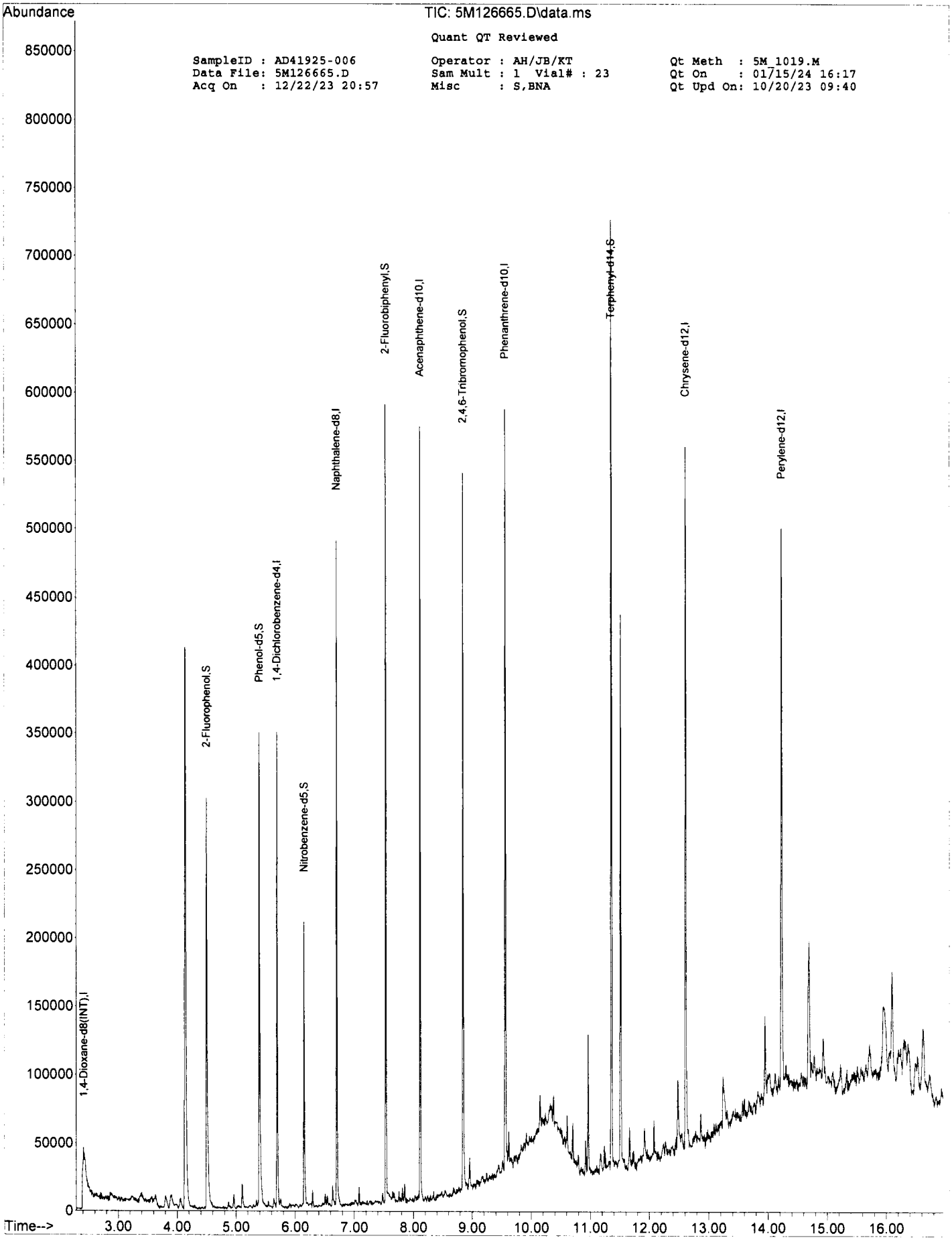
Quantitation Report (QT Reviewed)

SampleID : AD41925-006 Operator : AH/JB/KT Qt Meth : 5M_1019.M
Data File: 5M126665.D Sam Mult : 1 Vial# : 23 Qt On : 01/15/24 16:17
Acq On : 12/22/23 20:57 Misc : S,BNA Qt Upd On: 10/20/23 09:40

Data Path : G:\GcMsData\2023\GCMS_5\Data\12-2223\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.410	96	31823	40.00	ng	-0.04
21) 1,4-Dichlorobenzene-d4	5.696	152	47986	40.00	ng	-0.01
31) Naphthalene-d8	6.705	136	162729	40.00	ng	-0.01
50) Acenaphthene-d10	8.116	164	109517	40.00	ng	-0.01
77) Phenanthrene-d10	9.563	188	216870	40.00	ng	-0.01
91) Chrysene-d12	12.614	240	202733	40.00	ng	0.00
103) Perylene-d12	14.233	264	204710	40.00	ng	0.01
System Monitoring Compounds						
11) 2-Fluorophenol	4.499	112	95411	83.70	ng	0.00
Spiked Amount 100.000			Recovery = 83.70%			
16) Phenol-d5	5.396	99	112792	79.18	ng	0.00
Spiked Amount 100.000			Recovery = 79.18%			
32) Nitrobenzene-d5	6.155	128	23687	42.89	ng	0.00
Spiked Amount 50.000			Recovery = 85.78%			
55) 2-Fluorobiphenyl	7.533	172	157898	44.44	ng	-0.01
Spiked Amount 50.000			Recovery = 88.88%			
80) 2,4,6-Tribromophenol	8.853	330	69428	118.29	ng	0.00
Spiked Amount 100.000			Recovery = 118.29%			
94) Terphenyl-d14	11.358	244	238540	55.26	ng	-0.01
Spiked Amount 50.000			Recovery = 110.52%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M126665.D\data.ms
Quant QT Reviewed
SampleID : AD41925-006
Data File: 5M126665.D
Acq On : 12/22/23 20:57
Operator : AH/JB/KT
Sam Mult : 1 Vial# : 23
Misc : S,BNA
Qt Meth : 5M_1019.M
Qt On : 01/15/24 16:17
Qt Upd On: 10/20/23 09:40
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD41925-007
Client Id: PESRM-T30-07-SS01
Data File: 5M126666.D
Analysis Date: 12/22/23 21:21
Date Rec/Extracted: 12/13/23-12/22/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 73

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
120-12-7	Anthracene	0.046	U	**218-01-9**	**Chrysene**	**0.046**	**0.36**
56-55-3	**Benzo[a]anthracene**	**0.046**	**0.38**	86-73-7	Fluorene	0.046	U
50-32-8	**Benzo[a]pyrene**	**0.046**	**0.36**	91-20-3	Naphthalene	0.011	U
205-99-2	**Benzo[b]fluoranthene**	**0.046**	**0.43**	**85-01-8**	**Phenanthrene**	**0.046**	**0.12**
191-24-2	**Benzo[g,h,i]perylene**	**0.046**	**0.22**	**129-00-0**	**Pyrene**	**0.046**	**0.61**

Worksheet #: 721743

Total Target Concentration 2.5

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

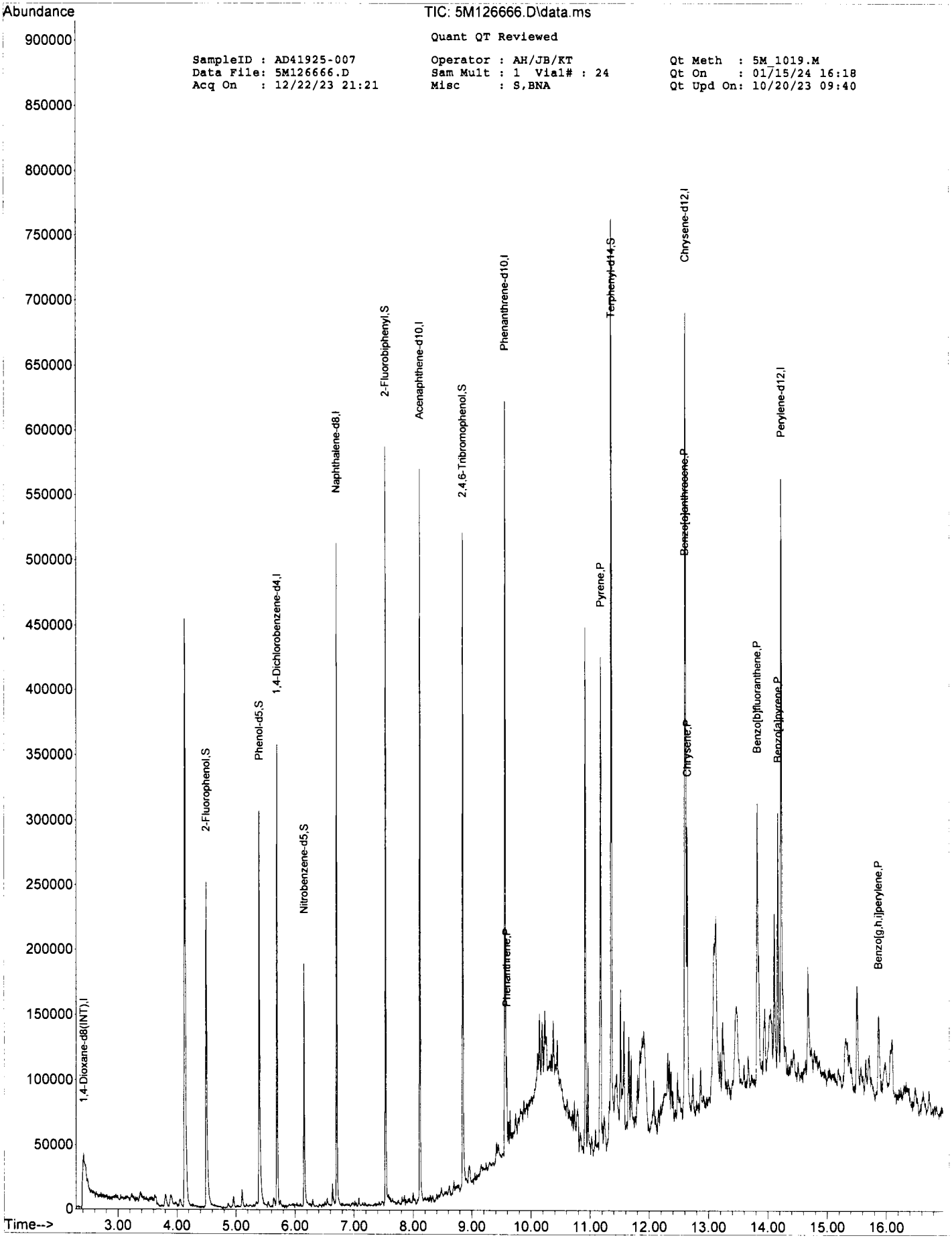
Quantitation Report (QT Reviewed)

SampleID : AD41925-007 Operator : AH/JB/KT Qt Meth : 5M_1019.M
Data File: 5M126666.D Sam Mult : 1 Vial# : 24 Qt On : 01/15/24 16:18
Acq On : 12/22/23 21:21 Misc : S,BNA Qt Upd On: 10/20/23 09:40

Data Path : G:\GcMsData\2023\GCMS_5\Data\12-2223\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.416	96	30431	40.00	ng	-0.03
21) 1,4-Dichlorobenzene-d4	5.696	152	51069	40.00	ng	-0.01
31) Naphthalene-d8	6.705	136	169105	40.00	ng	-0.01
50) Acenaphthene-d10	8.116	164	112971	40.00	ng	-0.01
77) Phenanthrene-d10	9.564	188	215045	40.00	ng	-0.01
91) Chrysene-d12	12.614	240	212043	40.00	ng	0.00
103) Perylene-d12	14.233	264	215802	40.00	ng	0.01
System Monitoring Compounds						
11) 2-Fluorophenol	4.499	112	85107	78.07	ng	0.00
Spiked Amount 100.000			Recovery = 78.07%			
16) Phenol-d5	5.397	99	104942	77.04	ng	0.00
Spiked Amount 100.000			Recovery = 77.04%			
32) Nitrobenzene-d5	6.155	128	22333	38.92	ng	0.00
Spiked Amount 50.000			Recovery = 77.84%			
55) 2-Fluorobiphenyl	7.534	172	148555	40.54	ng	-0.01
Spiked Amount 50.000			Recovery = 81.08%			
80) 2,4,6-Tribromophenol	8.853	330	67159	115.39	ng	0.00
Spiked Amount 100.000			Recovery = 115.39%			
94) Terphenyl-d14	11.364	244	242534	53.72	ng	0.00
Spiked Amount 50.000			Recovery = 107.44%			
Target Compounds						Qvalue
86) Phenanthrene	9.590	178	27637m	5.2720	ng	
92) Pyrene	11.182	202	171589m	26.5252	ng	
100) Benzo[a]anthracene	12.603	228	112042	16.7746	ng	98
101) Chrysene	12.646	228	97171m	15.6992	ng	
105) Benzo[b]fluoranthene	13.827	252	118997m	18.7110	ng	
107) Benzo[a]pyrene	14.174	252	94010m	15.8846	ng	
110) Benzo[g,h,i]perylene	15.867	276	55306m	9.5281	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M126666.D\data.ms
Quant QT Reviewed
SampleID : AD41925-007
Data File: 5M126666.D
Acq On : 12/22/23 21:21
Operator : AH/JB/KT
Sam Mult : 1 Vial# : 24
Misc : S,BNA
Qt Meth : 5M_1019.M
Qt On : 01/15/24 16:18
Qt Upd On: 10/20/23 09:40
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Phenanthrene,P
Pyrene,P
Terphenyl-d14,S
Chrysene-d12,I
Benzo[a]anthracene,P
Chrysene,P
Benzo[b]fluoranthene,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD41925-008
Client Id: PESRM-T30-08-SS01
Data File: 5M126667.D
Analysis Date: 12/22/23 21:44
Date Rec/Extracted: 12/13/23-12/22/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 73

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
120-12-7	Anthracene	0.046	U	218-01-9	Chrysene	0.046	U
56-55-3	Benzo[a]anthracene	0.046	U	86-73-7	Fluorene	0.046	U
50-32-8	Benzo[a]pyrene	0.046	U	91-20-3	Naphthalene	0.011	U
205-99-2	Benzo[b]fluoranthene	0.046	U	85-01-8	Phenanthrene	0.046	U
191-24-2	Benzo[g,h,i]perylene	0.046	U	129-00-0	Pyrene	0.046	U

Worksheet #: 721743

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

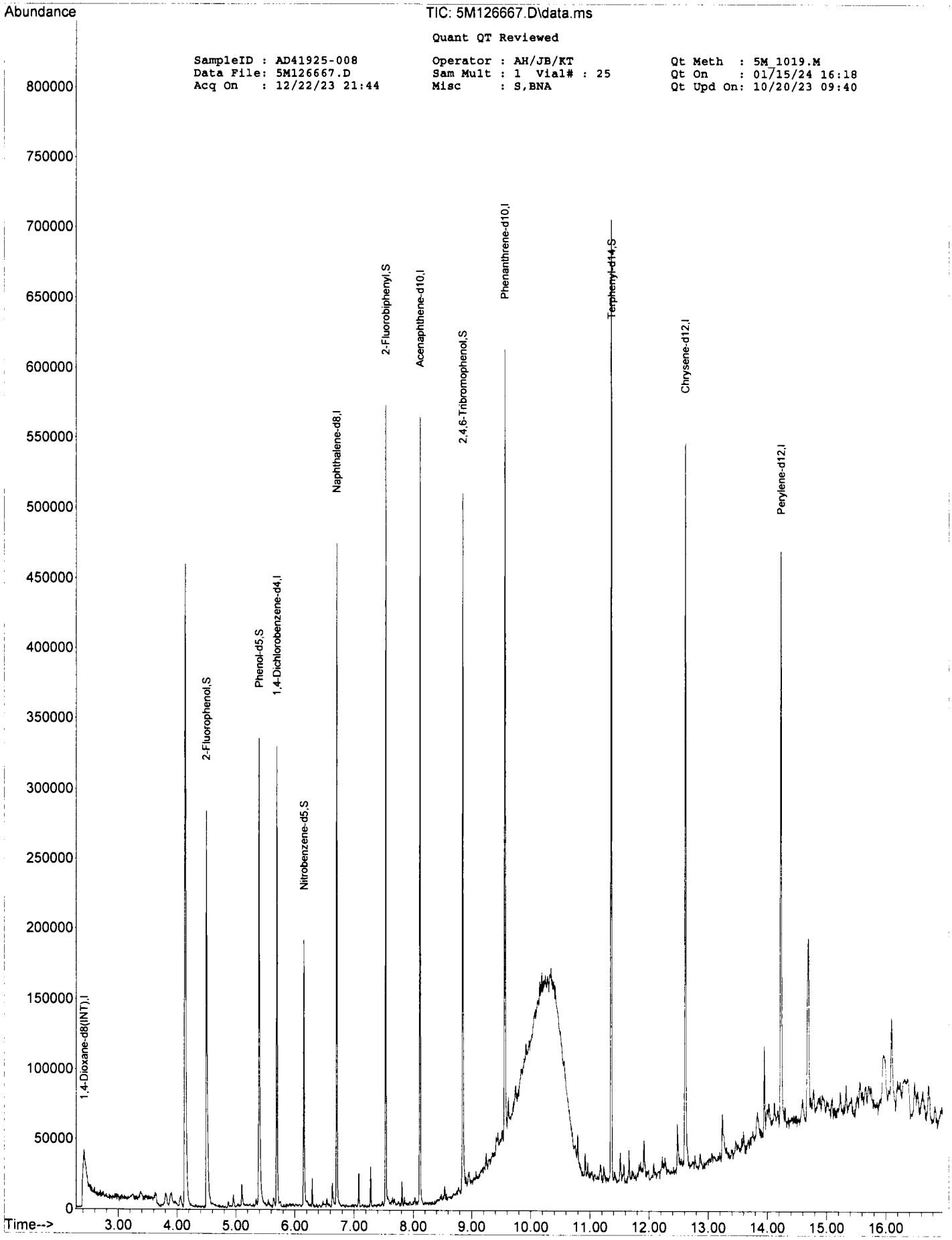
Quantitation Report (QT Reviewed)

SampleID : AD41925-008 Operator : AH/JB/KT Qt Meth : 5M_1019.M
Data File: 5M126667.D Sam Mult : 1 Vial# : 25 Qt On : 01/15/24 16:18
Acq On : 12/22/23 21:44 Misc : S,BNA Qt Upd On: 10/20/23 09:40

Data Path : G:\GcMsData\2023\GCMS_5\Data\12-2223\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.421	96	29666	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.696	152	47964	40.00	ng	-0.01
31) Naphthalene-d8	6.705	136	162739	40.00	ng	-0.01
50) Acenaphthene-d10	8.116	164	108489	40.00	ng	-0.01
77) Phenanthrene-d10	9.563	188	213937	40.00	ng	-0.01
91) Chrysene-d12	12.614	240	203067	40.00	ng	0.00
103) Perylene-d12	14.233	264	205562	40.00	ng	0.01
System Monitoring Compounds						
11) 2-Fluorophenol	4.499	112	90686	85.34	ng	0.00
Spiked Amount 100.000			Recovery = 85.34%			
16) Phenol-d5	5.396	99	112195	84.49	ng	0.00
Spiked Amount 100.000			Recovery = 84.49%			
32) Nitrobenzene-d5	6.155	128	23260	42.12	ng	0.00
Spiked Amount 50.000			Recovery = 84.24%			
55) 2-Fluorobiphenyl	7.533	172	151067	42.92	ng	-0.01
Spiked Amount 50.000			Recovery = 85.84%			
80) 2,4,6-Tribromophenol	8.853	330	65329	112.83	ng	0.00
Spiked Amount 100.000			Recovery = 112.83%			
94) Terphenyl-d14	11.364	244	229433	53.06	ng	0.00
Spiked Amount 50.000			Recovery = 106.12%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M126667.D\data.ms
Quant QT Reviewed
SampleID : AD41925-008
Data File: 5M126667.D
Acq On : 12/22/23 21:44
Operator : AH/JB/KT
Sam Mult : 1 Vial# : 25
Misc : S,BNA
Qt Meth : 5M_1019.M
Qt On : 01/15/24 16:18
Qt Upd On: 10/20/23 09:40
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD41925-009
Client Id: PESRM-T30-09-SS01
Data File: 5M126668.D
Analysis Date: 12/22/23 22:08
Date Rec/Extracted: 12/13/23-12/22/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 76

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
120-12-7	Anthracene	0.044	U	218-01-9	Chrysene	0.044	U
56-55-3	Benzo[a]anthracene	0.044	U	86-73-7	Fluorene	0.044	U
50-32-8	Benzo[a]pyrene	0.044	U	91-20-3	Naphthalene	0.011	U
205-99-2	**Benzo[b]fluoranthene**	**0.044**	**0.045**	85-01-8	Phenanthrene	0.044	U
191-24-2	Benzo[g,h,i]perylene	0.044	U	**129-00-0**	**Pyrene**	**0.044**	**0.049**

Worksheet #: 721743

Total Target Concentration 0.094

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

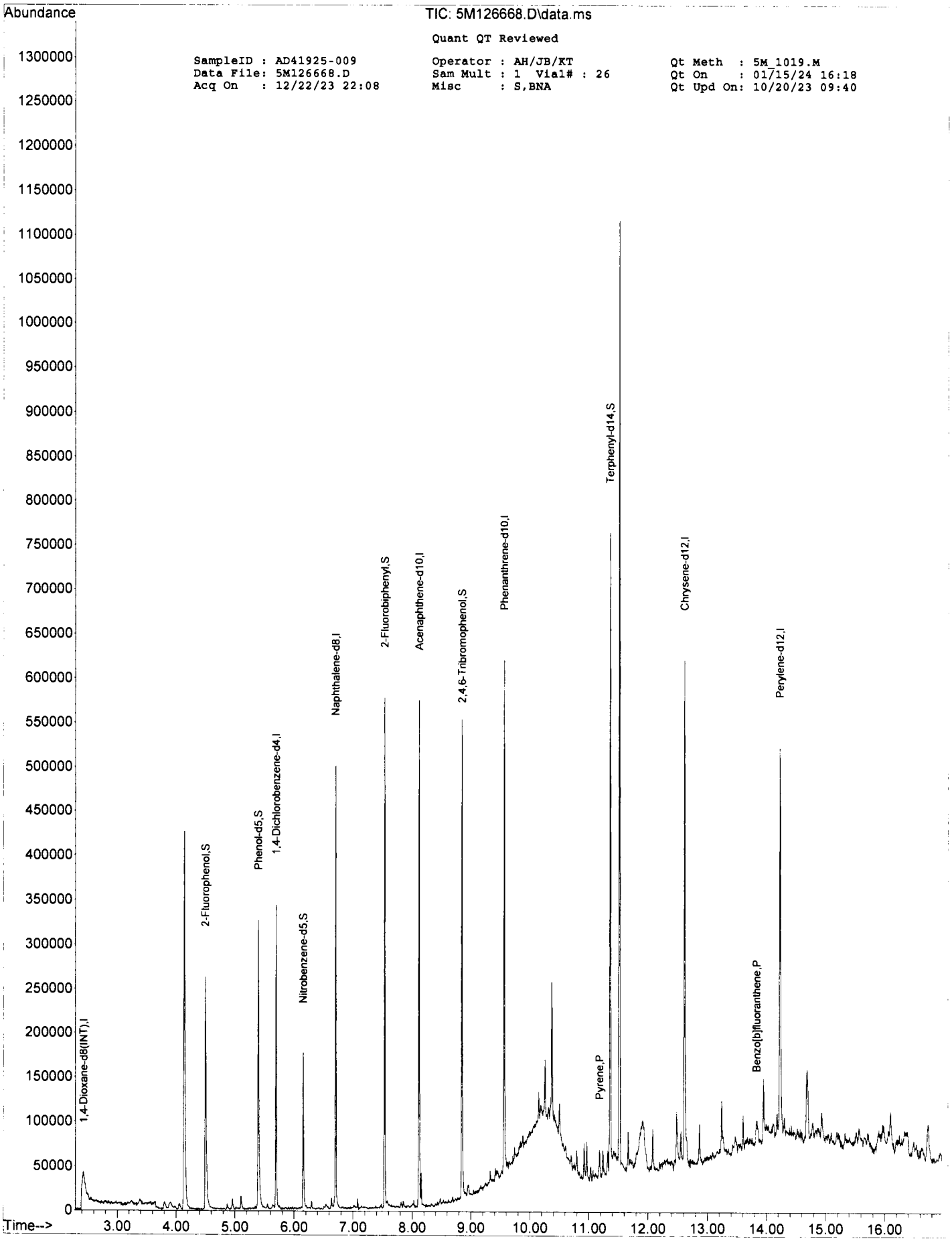
Quantitation Report (QT Reviewed)

SampleID : AD41925-009 Operator : AH/JB/KT Qt Meth : 5M_1019.M
Data File: 5M126668.D Sam Mult : 1 Vial# : 26 Qt On : 01/15/24 16:18
Acq On : 12/22/23 22:08 Misc : S,BNA Qt Upd On: 10/20/23 09:40

Data Path : G:\GcMsData\2023\GCMS_5\Data\12-2223\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.426	96	32033	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.696	152	48711	40.00	ng	-0.01
31) Naphthalene-d8	6.705	136	169482	40.00	ng	-0.01
50) Acenaphthene-d10	8.116	164	113866	40.00	ng	-0.01
77) Phenanthrene-d10	9.563	188	226425	40.00	ng	-0.01
91) Chrysene-d12	12.614	240	212491	40.00	ng	0.00
103) Perylene-d12	14.227	264	213149	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.499	112	86703	75.56	ng	0.00
Spiked Amount 100.000			Recovery = 75.56%			
16) Phenol-d5	5.397	99	104647	72.98	ng	0.00
Spiked Amount 100.000			Recovery = 72.98%			
32) Nitrobenzene-d5	6.155	128	21662	37.66	ng	0.00
Spiked Amount 50.000			Recovery = 75.32%			
55) 2-Fluorobiphenyl	7.533	172	150514	40.75	ng	-0.01
Spiked Amount 50.000			Recovery = 81.50%			
80) 2,4,6-Tribromophenol	8.853	330	69872	114.02	ng	0.00
Spiked Amount 100.000			Recovery = 114.02%			
94) Terphenyl-d14	11.358	244	235877	52.13	ng	-0.01
Spiked Amount 50.000			Recovery = 104.26%			
Target Compounds						Qvalue
92) Pyrene	11.182	202	14449m	2.2289	ng	
105) Benzo[b]fluoranthene	13.832	252	12859m	2.0471	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M126668.D\data.ms
Quant QT Reviewed
SampleID : AD41925-009
Data File: 5M126668.D
Acq On : 12/22/23 22:08
Operator : AH/JB/KT
Sam Mult : 1 Vial# : 26
Misc : S,BNA
Qt Meth : 5M_1019.M
Qt On : 01/15/24 16:18
Qt Upd On: 10/20/23 09:40
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Pyrene,P
Terphenyl-d14,S
Chrysene-d12,I
Benzo[b]fluoranthene,P
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD41925-010
Client Id: PESRM-T30-10-SS01
Data File: 5M126669.D
Analysis Date: 12/22/23 22:32
Date Rec/Extracted: 12/13/23-12/22/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 73

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
120-12-7	Anthracene	0.046	U	**218-01-9**	**Chrysene**	**0.046**	**0.22**
56-55-3	**Benzo[a]anthracene**	**0.046**	**0.19**	86-73-7	Fluorene	0.046	U
50-32-8	**Benzo[a]pyrene**	**0.046**	**0.27**	**91-20-3**	**Naphthalene**	**0.011**	**0.078**
205-99-2	**Benzo[b]fluoranthene**	**0.046**	**0.37**	**85-01-8**	**Phenanthrene**	**0.046**	**0.056**
191-24-2	**Benzo[g,h,i]perylene**	**0.046**	**0.19**	**129-00-0**	**Pyrene**	**0.046**	**0.18**

Worksheet #: 721743

Total Target Concentration 1.6

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

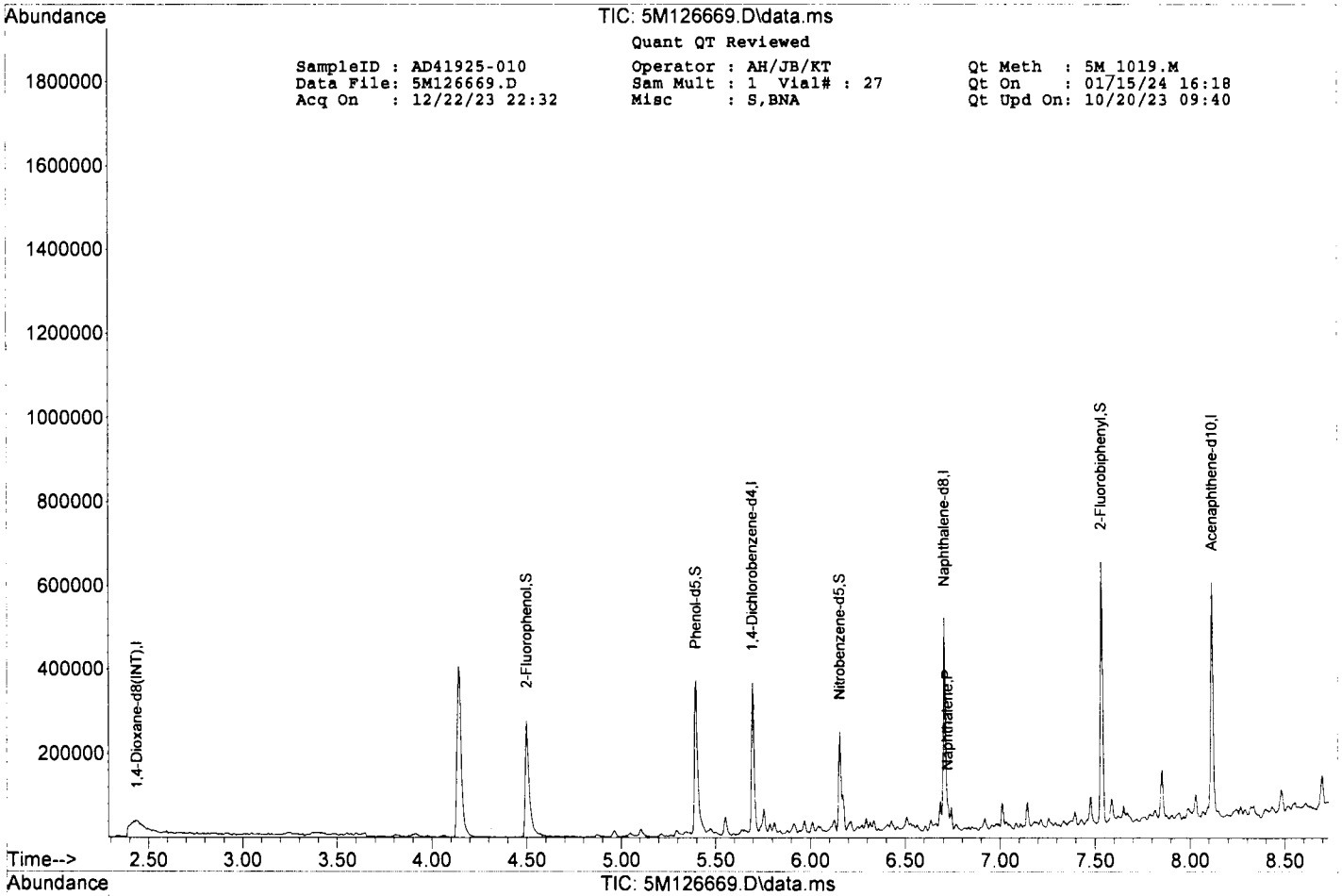
Quantitation Report (QT Reviewed)

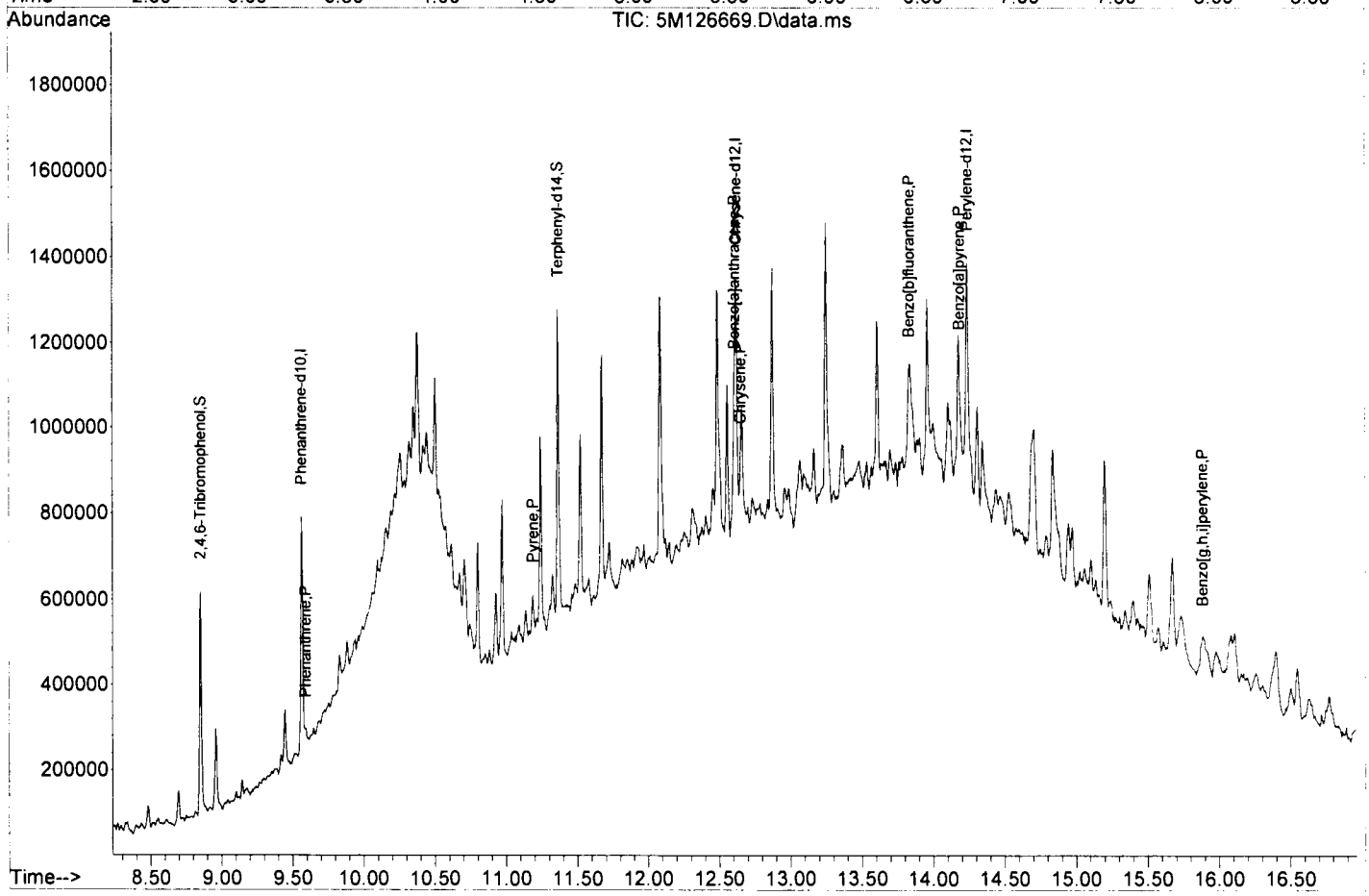
SampleID : AD41925-010 Operator : AH/JB/KT Qt Meth : 5M_1019.M
Data File: 5M126669.D Sam Mult : 1 Vial# : 27 Qt On : 01/15/24 16:18
Acq On : 12/22/23 22:32 Misc : S,BNA Qt Upd On: 10/20/23 09:40

Data Path : G:\GcMsData\2023\GCMS_5\Data\12-2223\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.437	96	30636	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.696	152	48723	40.00	ng	-0.01
31) Naphthalene-d8	6.706	136	167121	40.00	ng	-0.01
50) Acenaphthene-d10	8.116	164	105942	40.00	ng	-0.01
77) Phenanthrene-d10	9.564	188	204240	40.00	ng	-0.01
91) Chrysene-d12	12.619	240	202216	40.00	ng	0.00
103) Perylene-d12	14.238	264	220488	40.00	ng	0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.499	112	98488	89.75	ng	0.00
Spiked Amount 100.000			Recovery = 89.75%			
16) Phenol-d5	5.397	99	121443	88.56	ng	0.00
Spiked Amount 100.000			Recovery = 88.56%			
32) Nitrobenzene-d5	6.155	128	26401	46.55	ng	0.00
Spiked Amount 50.000			Recovery = 93.10%			
55) 2-Fluorobiphenyl	7.534	172	166110	48.33	ng	-0.01
Spiked Amount 50.000			Recovery = 96.66%			
80) 2,4,6-Tribromophenol	8.853	330	66839	120.92	ng	0.00
Spiked Amount 100.000			Recovery = 120.92%			
94) Terphenyl-d14	11.364	244	224700	52.18	ng	0.00
Spiked Amount 50.000			Recovery = 104.36%			
Target Compounds						Qvalue
41) Naphthalene	6.722	128	13851m	3.4166	ng	
86) Phenanthrene	9.590	178	12316m	2.4737	ng	
92) Pyrene	11.188	202	48537m	7.8678	ng	
100) Benzo[a]anthracene	12.609	228	52734m	8.2789	ng	
101) Chrysene	12.651	228	56446m	9.5628	ng	
105) Benzo[b]fluoranthene	13.832	252	104431m	16.0717	ng	
107) Benzo[a]pyrene	14.185	252	71327m	11.7958	ng	
110) Benzo[g,h,i]perylene	15.884	276	50491m	8.5137	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M126669.D\data.ms
Quant QT Reviewed
SampleID : AD41925-010
Data File: 5M126669.D
Acq On : 12/22/23 22:32
Operator : AH/JB/KT
Sam Mult : 1 Vial# : 27
Misc : S,BNA
Qt Meth : 5M_1019.M
Qt On : 01/15/24 16:18
Qt Upd On: 10/20/23 09:40
1.4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
Naphthalene,P
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Time-->


Abundance
TIC: 5M126669.D\data.ms
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Phenanthrene,P
Pyrene,P
Terphenyl-d14,S
Chrysene,P
Benzo[b]fluoranthene,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD41925-011
Client Id: PESRM-T30-11-SS01
Data File: 5M126670.D
Analysis Date: 12/22/23 22:56
Date Rec/Extracted: 12/13/23-12/22/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 77

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
120-12-7	Anthracene	0.043	U	218-01-9	Chrysene	0.043	U
56-55-3	Benzo[a]anthracene	0.043	U	86-73-7	Fluorene	0.043	U
50-32-8	Benzo[a]pyrene	0.043	U	**91-20-3**	**Naphthalene**	**0.011**	**0.037**
205-99-2	Benzo[b]fluoranthene	0.043	U	85-01-8	Phenanthrene	0.043	U
191-24-2	Benzo[g,h,i]perylene	0.043	U	**129-00-0**	**Pyrene**	**0.043**	**0.049**

Worksheet #: 721743

Total Target Concentration 0.086

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

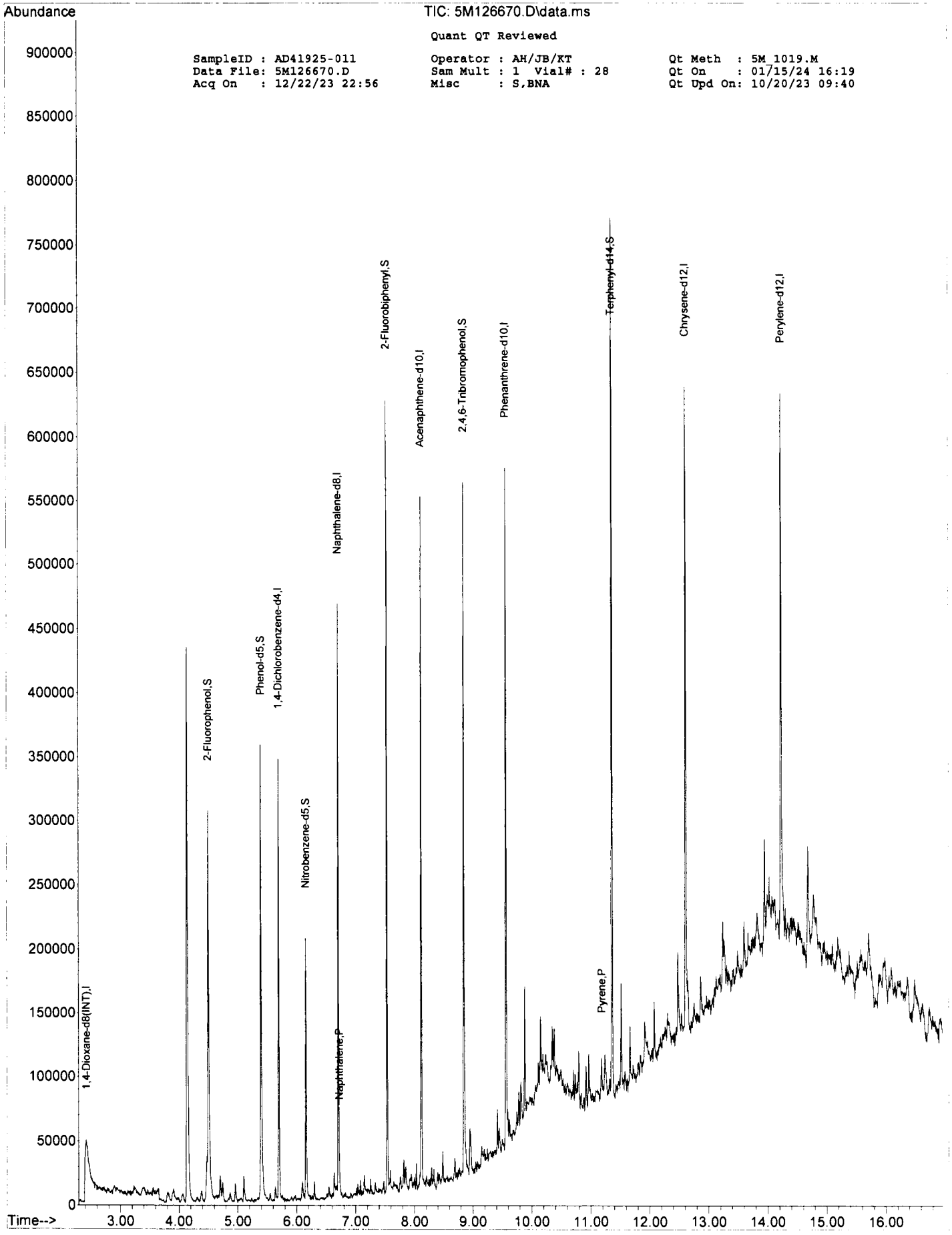
Quantitation Report (QT Reviewed)

SampleID : AD41925-011 Operator : AH/JB/KT Qt Meth : 5M_1019.M
Data File: 5M126670.D Sam Mult : 1 Vial# : 28 Qt On : 01/15/24 16:19
Acq On : 12/22/23 22:56 Misc : S,BNA Qt Upd On: 10/20/23 09:40

Data Path : G:\GcMsData\2023\GCMS_5\Data\12-2223\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.416	96	31106	40.00	ng	-0.03
21) 1,4-Dichlorobenzene-d4	5.696	152	49027	40.00	ng	-0.01
31) Naphthalene-d8	6.706	136	158942	40.00	ng	-0.01
50) Acenaphthene-d10	8.116	164	107540	40.00	ng	-0.01
77) Phenanthrene-d10	9.564	188	202886	40.00	ng	-0.01
91) Chrysene-d12	12.614	240	196240	40.00	ng	0.00
103) Perylene-d12	14.233	264	202604	40.00	ng	0.01
System Monitoring Compounds						
11) 2-Fluorophenol	4.499	112	93941	84.31	ng	0.00
Spiked Amount 100.000			Recovery = 84.31%			
16) Phenol-d5	5.397	99	114903	82.52	ng	0.00
Spiked Amount 100.000			Recovery = 82.52%			
32) Nitrobenzene-d5	6.155	128	24942	46.24	ng	0.00
Spiked Amount 50.000			Recovery = 92.48%			
55) 2-Fluorobiphenyl	7.534	172	157149	45.05	ng	-0.01
Spiked Amount 50.000			Recovery = 90.10%			
80) 2,4,6-Tribromophenol	8.853	330	69608	126.77	ng	0.00
Spiked Amount 100.000			Recovery = 126.77%			
94) Terphenyl-d14	11.359	244	232417	55.62	ng	-0.01
Spiked Amount 50.000			Recovery = 111.24%			
Target Compounds						Qvalue
41) Naphthalene	6.722	128	6594m	1.7102	ng	
92) Pyrene	11.188	202	13425m	2.2424	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M126670.D\data.ms
Quant QT Reviewed
SampleID : AD41925-011
Data File: 5M126670.D
Acq On : 12/22/23 22:56
Operator : AH/JB/KT
Sam Mult : 1 Vial# : 28
Misc : S,BNA
Qt Meth : 5M_1019.M
Qt On : 01/15/24 16:19
Qt Upd On: 10/20/23 09:40
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
Naphthalene,P
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Pyrene,P
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
900000
850000
800000
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Time-->
3.00
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
16.00

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD41925-012
Client Id: PESRM-T30-DUP-01
Data File: 5M126671.D
Analysis Date: 12/22/23 23:20
Date Rec/Extracted: 12/13/23-12/22/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 74

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
120-12-7	Anthracene	0.045	U	218-01-9	Chrysene	0.045	U
56-55-3	Benzo[a]anthracene	0.045	U	86-73-7	Fluorene	0.045	U
50-32-8	Benzo[a]pyrene	0.045	U	91-20-3	Naphthalene	0.011	U
205-99-2	Benzo[b]fluoranthene	0.045	U	85-01-8	Phenanthrene	0.045	U
191-24-2	Benzo[g,h,i]perylene	0.045	U	129-00-0	Pyrene	0.045	U

Worksheet #: 721743

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

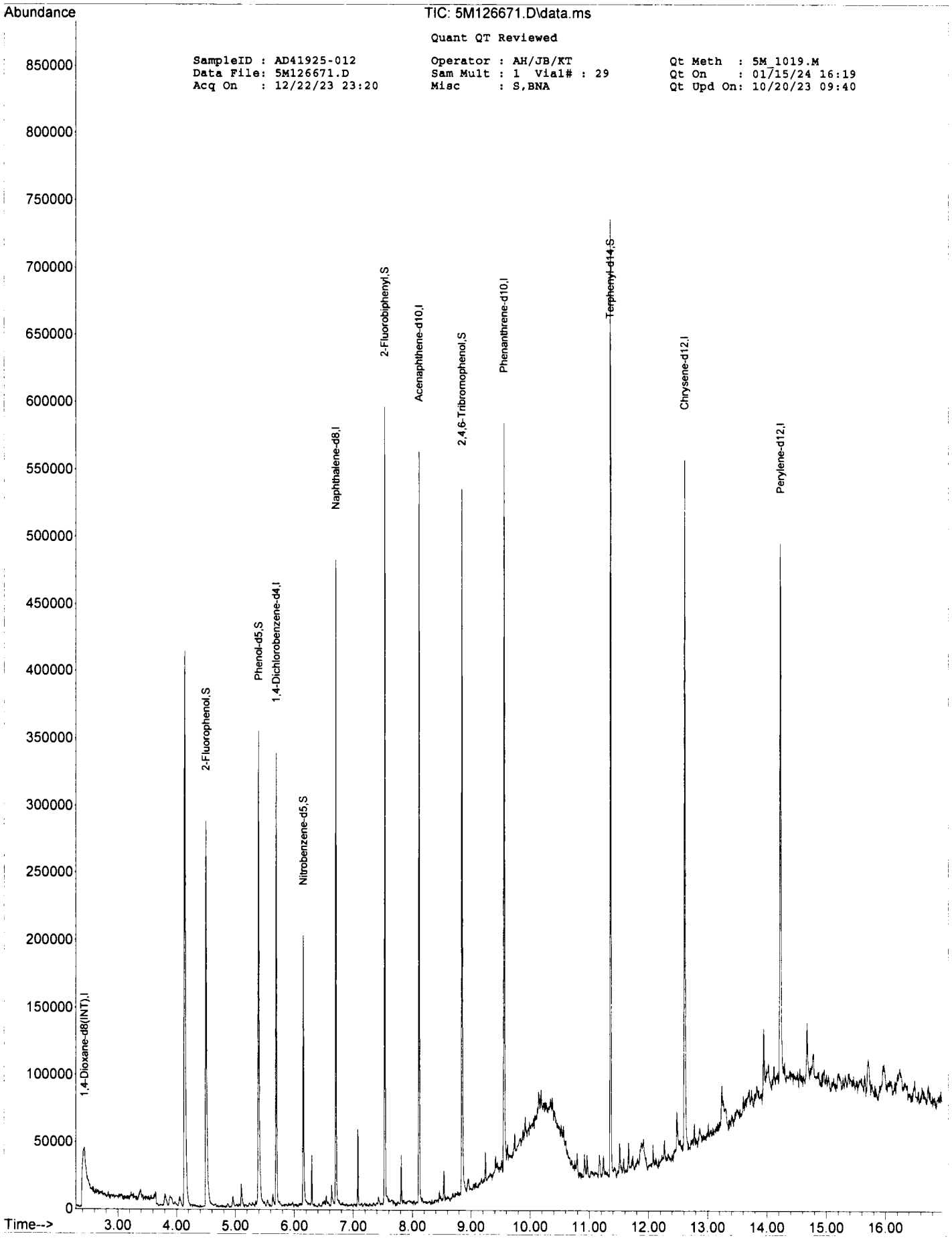
Quantitation Report (QT Reviewed)

SampleID : AD41925-012 Operator : AH/JB/KT Qt Meth : 5M_1019.M
Data File: 5M126671.D Sam Mult : 1 Vial# : 29 Qt On : 01/15/24 16:19
Acq On : 12/22/23 23:20 Misc : S,BNA Qt Upd On: 10/20/23 09:40

Data Path : G:\GcMsData\2023\GCMS_5\Data\12-2223\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.432	96	30656	40.00	ng	-0.01
21) 1,4-Dichlorobenzene-d4	5.696	152	48594	40.00	ng	-0.01
31) Naphthalene-d8	6.705	136	163993	40.00	ng	-0.01
50) Acenaphthene-d10	8.116	164	110420	40.00	ng	-0.01
77) Phenanthrene-d10	9.564	188	206240	40.00	ng	-0.01
91) Chrysene-d12	12.614	240	203459	40.00	ng	0.00
103) Perylene-d12	14.233	264	200649	40.00	ng	0.01
System Monitoring Compounds						
11) 2-Fluorophenol	4.499	112	93979	85.58	ng	0.00
Spiked Amount 100.000			Recovery = 85.58%			
16) Phenol-d5	5.397	99	114283	83.28	ng	0.00
Spiked Amount 100.000			Recovery = 83.28%			
32) Nitrobenzene-d5	6.155	128	24588	44.18	ng	0.00
Spiked Amount 50.000			Recovery = 88.36%			
55) 2-Fluorobiphenyl	7.534	172	158832	44.34	ng	-0.01
Spiked Amount 50.000			Recovery = 88.68%			
80) 2,4,6-Tribromophenol	8.853	330	66776	119.63	ng	0.00
Spiked Amount 100.000			Recovery = 119.63%			
94) Terphenyl-d14	11.359	244	235060	54.26	ng	-0.01
Spiked Amount 50.000			Recovery = 108.52%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M126671.D\data.ms
Quant QT Reviewed
SampleID : AD41925-012
Data File: 5M126671.D
Acq On : 12/22/23 23:20
Operator : AH/JB/KT
Sam Mult : 1 Vial# : 29
Misc : S,BNA
Qt Meth : 5M_1019.M
Qt On : 01/15/24 16:19
Qt Upd On: 10/20/23 09:40
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD41925-013
Client Id: PESRM-T30-GW-01
Data File: 7M133903.D
Analysis Date: 12/19/23 20:42
Date Rec/Extracted: 12/13/23-12/19/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 900ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
120-12-7	Anthracene	2.2	U	218-01-9	Chrysene	2.2	U
56-55-3	Benzo[a]anthracene	2.2	U	86-73-7	Fluorene	2.2	U
50-32-8	Benzo[a]pyrene	2.2	U	91-20-3	Naphthalene	0.56	U
205-99-2	Benzo[b]fluoranthene	2.2	U	85-01-8	Phenanthrene	2.2	U
191-24-2	Benzo[g,h,i]perylene	2.2	U	**129-00-0**	**Pyrene**	**2.2**	**2.3**

Worksheet #: 721743

Total Target Concentration 2.3

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

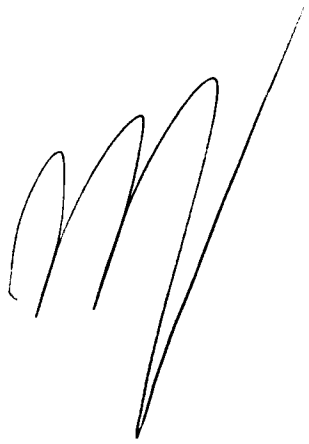
Quantitation Report (QT Reviewed)

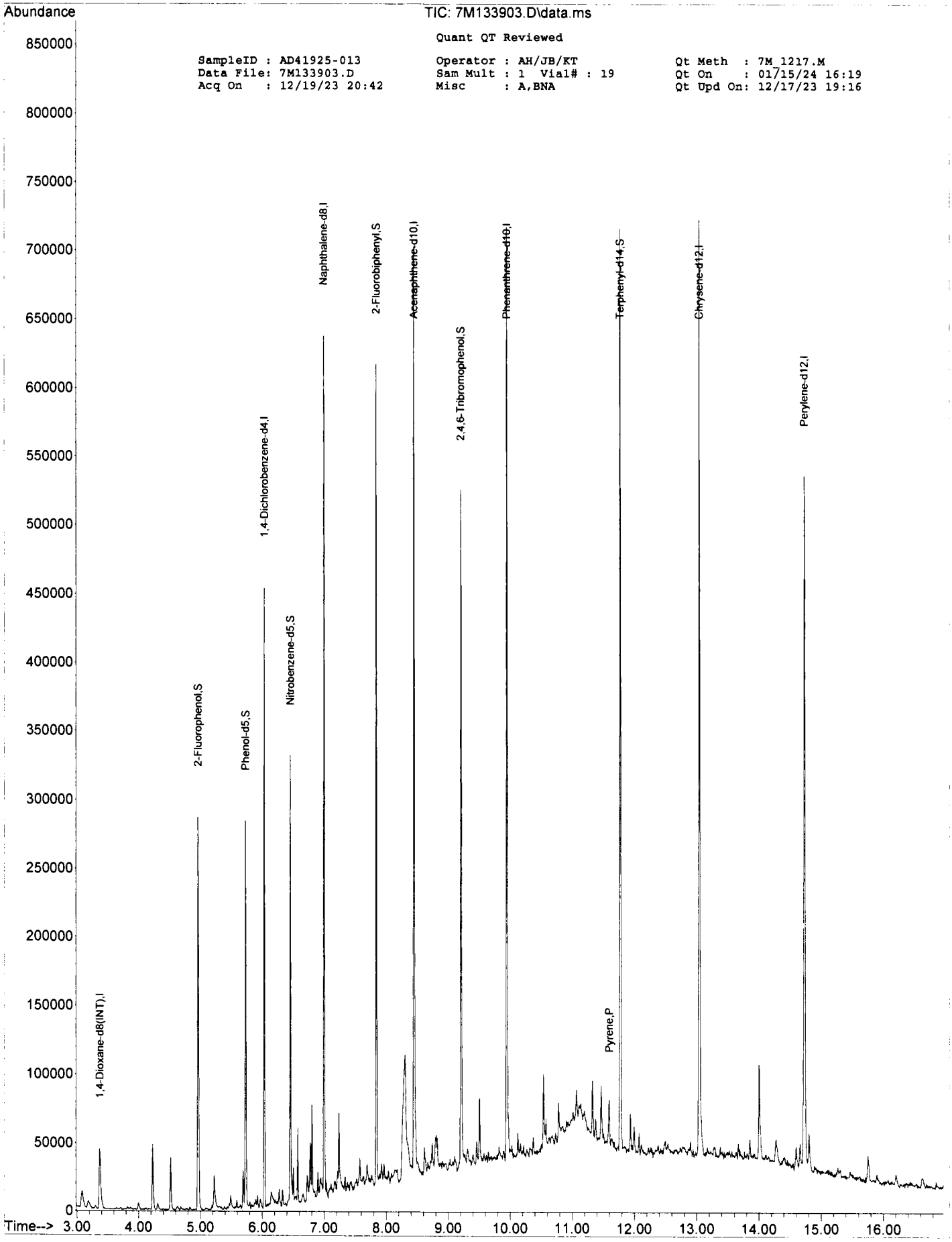
SampleID : AD41925-013 Operator : AH/JB/KT Qt Meth : 7M_1217.M
Data File: 7M133903.D Sam Mult : 1 Vial# : 19 Qt On : 01/15/24 16:19
Acq On : 12/19/23 20:42 Misc : A,BNA Qt Upd On: 12/17/23 19:16

Data Path : G:\GcMsData\2023\GCMS_7\Data\12-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	3.369	96	34441	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	6.037	152	71864	40.00	ng	0.00
31) Naphthalene-d8	7.000	136	281196	40.00	ng	0.00
50) Acenaphthene-d10	8.452	164	166085	40.00	ng	0.00
77) Phenanthrene-d10	9.950	188	285669	40.00	ng	0.00
91) Chrysene-d12	13.046	240	251071	40.00	ng	0.00
103) Perylene-d12	14.733	264	247244	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.961	112	105783	50.05	ng	0.00
Spiked Amount 100.000			Recovery = 50.05%			
16) Phenol-d5	5.731	99	105363	41.03	ng	0.00
Spiked Amount 100.000			Recovery = 41.03%			
32) Nitrobenzene-d5	6.460	128	50746	43.80	ng	0.00
Spiked Amount 50.000			Recovery = 87.60%			
55) 2-Fluorobiphenyl	7.846	172	182401	33.98	ng	0.00
Spiked Amount 50.000			Recovery = 67.96%			
80) 2,4,6-Tribromophenol	9.210	330	55010	71.34	ng	0.00
Spiked Amount 100.000			Recovery = 71.34%			
94) Terphenyl-d14	11.777	244	222907	37.82	ng	0.00
Spiked Amount 50.000			Recovery = 75.64%			
Target Compounds						Qvalue
92) Pyrene	11.601	202	16429m	2.0833	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed




Abundance
TIC: 7M133903.D\data.ms
Quant QT Reviewed
SampleID : AD41925-013
Data File: 7M133903.D
Acq On : 12/19/23 20:42
Operator : AH/JB/KT
Sam Mult : 1 Vial# : 19
Misc : A,BNA
Qt Meth : 7M_1217.M
Qt On : 01/15/24 16:19
Qt Upd On: 12/17/23 19:16
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Pyrene,P
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD41925-014
Client Id: PESRM-T30-EQUIP-01
Data File: 9M125921.D
Analysis Date: 12/19/23 11:47
Date Rec/Extracted: 12/13/23-12/18/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
120-12-7	Anthracene	2.0	U	218-01-9	Chrysene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	86-73-7	Fluorene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 721743

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

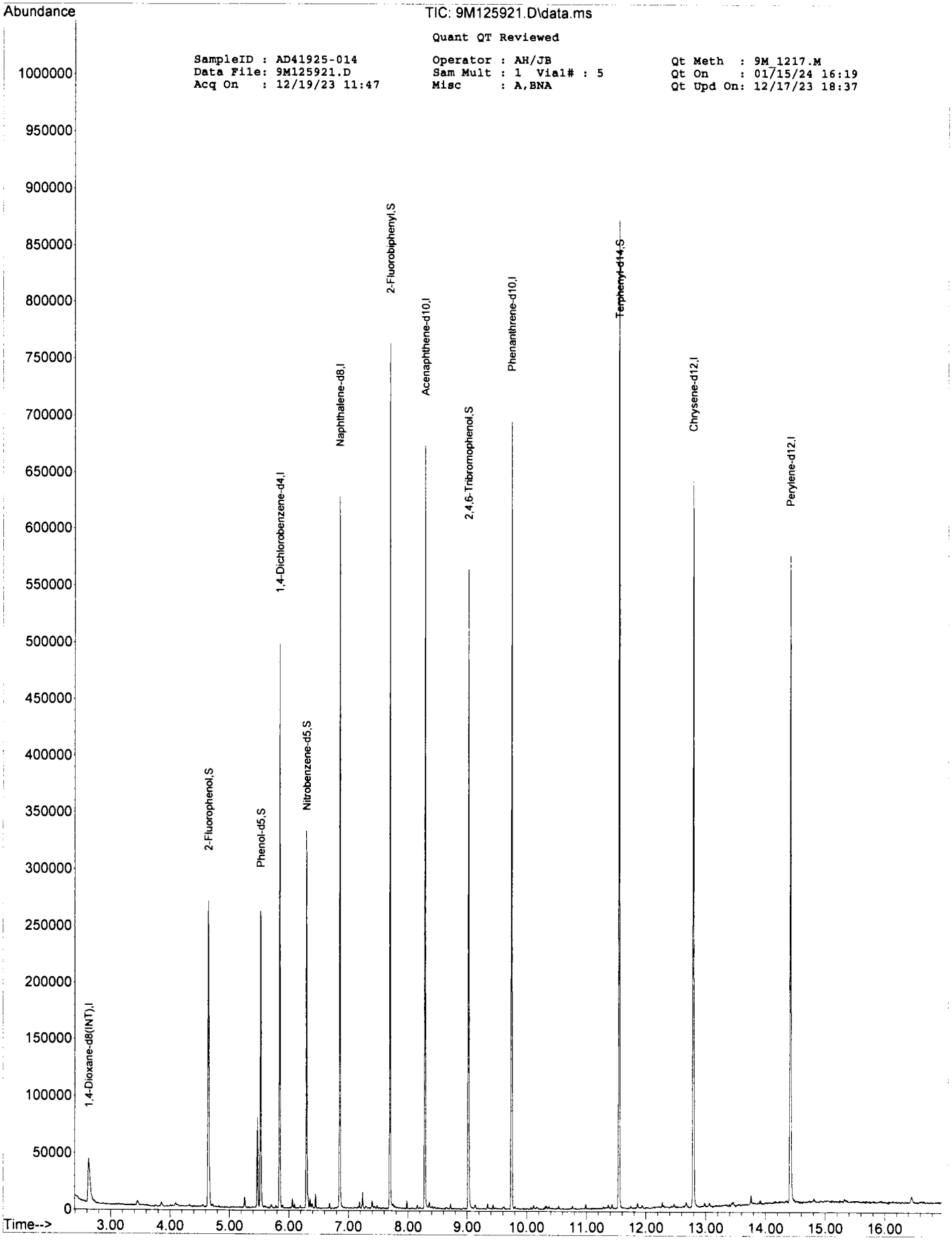
Quantitation Report (QT Reviewed)

SampleID : AD41925-014 Operator : AH/JB Qt Meth : 9M_1217.M
Data File: 9M125921.D Sam Mult : 1 Vial# : 5 Qt On : 01/15/24 16:19
Acq On : 12/19/23 11:47 Misc : A,BNA Qt Upd On: 12/17/23 18:37

Data Path : G:\GcMsData\2023\GCMS_9\Data\12-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.628	96	38070	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.846	152	71745	40.00	ng	0.00
31) Naphthalene-d8	6.851	136	266146	40.00	ng	0.00
50) Acenaphthene-d10	8.287	164	147440	40.00	ng	0.00
77) Phenanthrene-d10	9.745	188	256886	40.00	ng	0.00
91) Chrysene-d12	12.792	240	242347	40.00	ng	0.00
103) Perylene-d12	14.416	264	236404	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.646	112	102717	48.94	ng	0.00
Spiked Amount 100.000			Recovery = 48.94%			
16) Phenol-d5	5.528	99	93422	35.97	ng	0.00
Spiked Amount 100.000			Recovery = 35.97%			
32) Nitrobenzene-d5	6.298	128	48395	42.77	ng	0.00
Spiked Amount 50.000			Recovery = 85.54%			
55) 2-Fluorobiphenyl	7.698	172	235399	46.84	ng	0.00
Spiked Amount 50.000			Recovery = 93.68%			
80) 2,4,6-Tribromophenol	9.022	330	62412	95.24	ng	0.00
Spiked Amount 100.000			Recovery = 95.24%			
94) Terphenyl-d14	11.551	244	286508	52.61	ng	0.00
Spiked Amount 50.000			Recovery = 105.22%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M125921.D\data.ms
Quant QT Reviewed
SampleID : AD41925-014
Data File: 9M125921.D
Acq On : 12/19/23 11:47
Operator : AH/JB
Sam Mult : 1 Vial# : 5
Misc : A,BNA
Qt Meth : 9M_1217.M
Qt On : 01/15/24 16:19
Qt Upd On: 12/17/23 18:37
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
Nitrobenzene-d5,S
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: WMB113542
Client Id:
Data File: 9M125931.D
Analysis Date: 12/19/23 17:50
Date Rec/Extracted: NA-12/19/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
120-12-7	Anthracene	2.0	U	218-01-9	Chrysene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	86-73-7	Fluorene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 721743

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

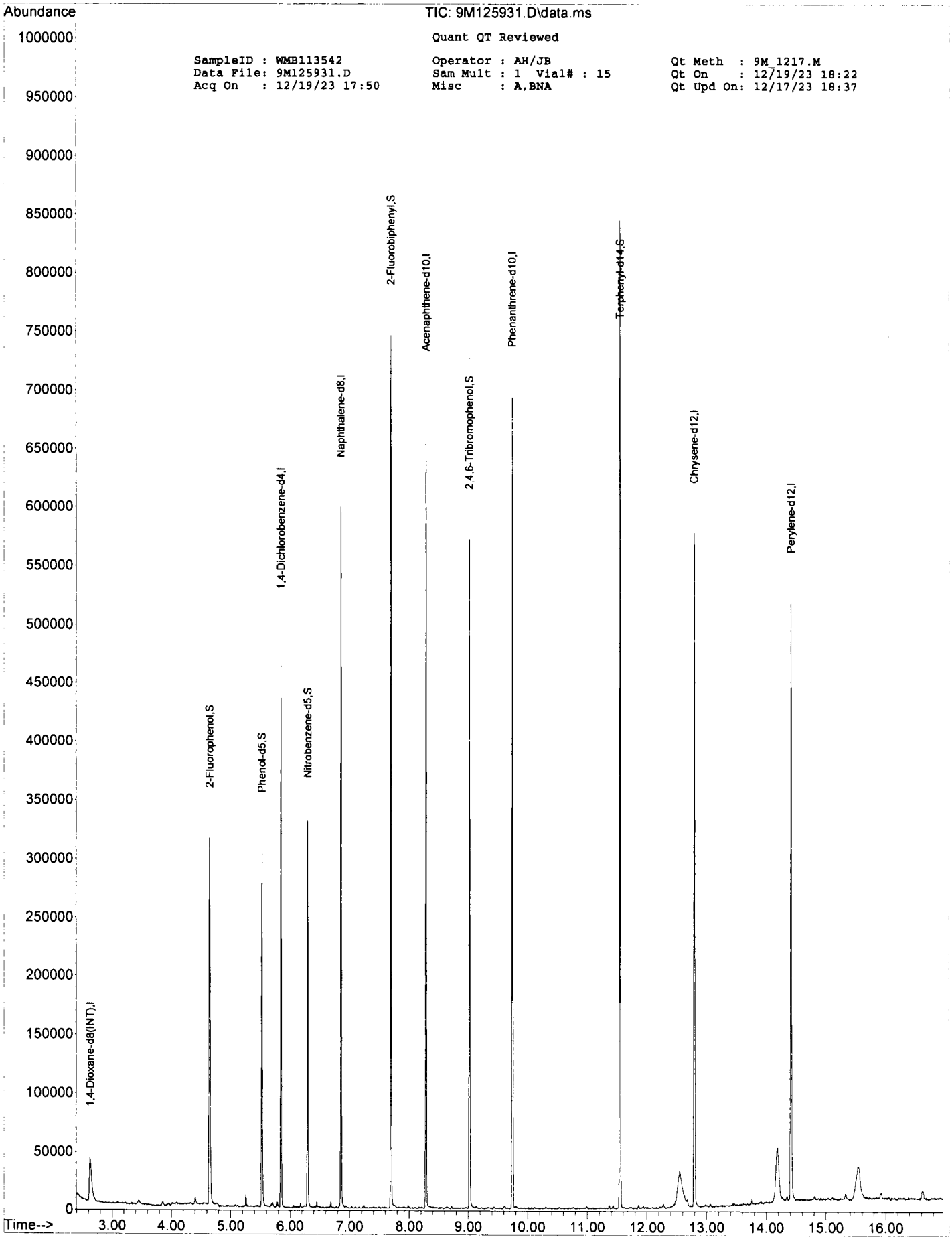
Quantitation Report (QT Reviewed)

SampleID : WMB113542 Operator : AH/JB Qt Meth : 9M_1217.M
Data File: 9M125931.D Sam Mult : 1 Vial# : 15 Qt On : 12/19/23 18:22
Acq On : 12/19/23 17:50 Misc : A,BNA Qt Upd On: 12/17/23 18:37

Data Path : G:\GcMsData\2023\GCMS_9\Data\12-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.628	96	38920	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.845	152	70876	40.00	ng	0.00
31) Naphthalene-d8	6.851	136	263190	40.00	ng	0.00
50) Acenaphthene-d10	8.286	164	147801	40.00	ng	0.00
77) Phenanthrene-d10	9.745	188	251355	40.00	ng	0.00
91) Chrysene-d12	12.792	240	226193	40.00	ng	0.00
103) Perylene-d12	14.415	264	215219	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.645	112	119367	55.64	ng	0.00
Spiked Amount 100.000			Recovery = 55.64%			
16) Phenol-d5	5.528	99	106239	40.01	ng	0.00
Spiked Amount 100.000			Recovery = 40.01%			
32) Nitrobenzene-d5	6.298	128	49270	44.03	ng	0.00
Spiked Amount 50.000			Recovery = 88.06%			
55) 2-Fluorobiphenyl	7.698	172	231237	45.90	ng	0.00
Spiked Amount 50.000			Recovery = 91.80%			
80) 2,4,6-Tribromophenol	9.022	330	63034	98.30	ng	0.00
Spiked Amount 100.000			Recovery = 98.30%			
94) Terphenyl-d14	11.551	244	266003	52.34	ng	0.00
Spiked Amount 50.000			Recovery = 104.68%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M125931.D\data.ms
Quant QT Reviewed
SampleID : WMB113542
Data File: 9M125931.D
Acq On : 12/19/23 17:50
Operator : AH/JB
Sam Mult : 1 Vial# : 15
Misc : A,BNA
Qt Meth : 9M_1217.M
Qt On : 12/19/23 18:22
Qt Upd On: 12/17/23 18:37
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: SMB113572
Client Id:
Data File: 5M126654.D
Analysis Date: 12/22/23 16:34
Date Rec/Extracted: NA-12/22/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
120-12-7	Anthracene	0.033	U	218-01-9	Chrysene	0.033	U
56-55-3	Benzo[a]anthracene	0.033	U	86-73-7	Fluorene	0.033	U
50-32-8	Benzo[a]pyrene	0.033	U	91-20-3	Naphthalene	0.0083	U
205-99-2	Benzo[b]fluoranthene	0.033	U	85-01-8	Phenanthrene	0.033	U
191-24-2	Benzo[g,h,i]perylene	0.033	U	129-00-0	Pyrene	0.033	U

Worksheet #: 721743

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

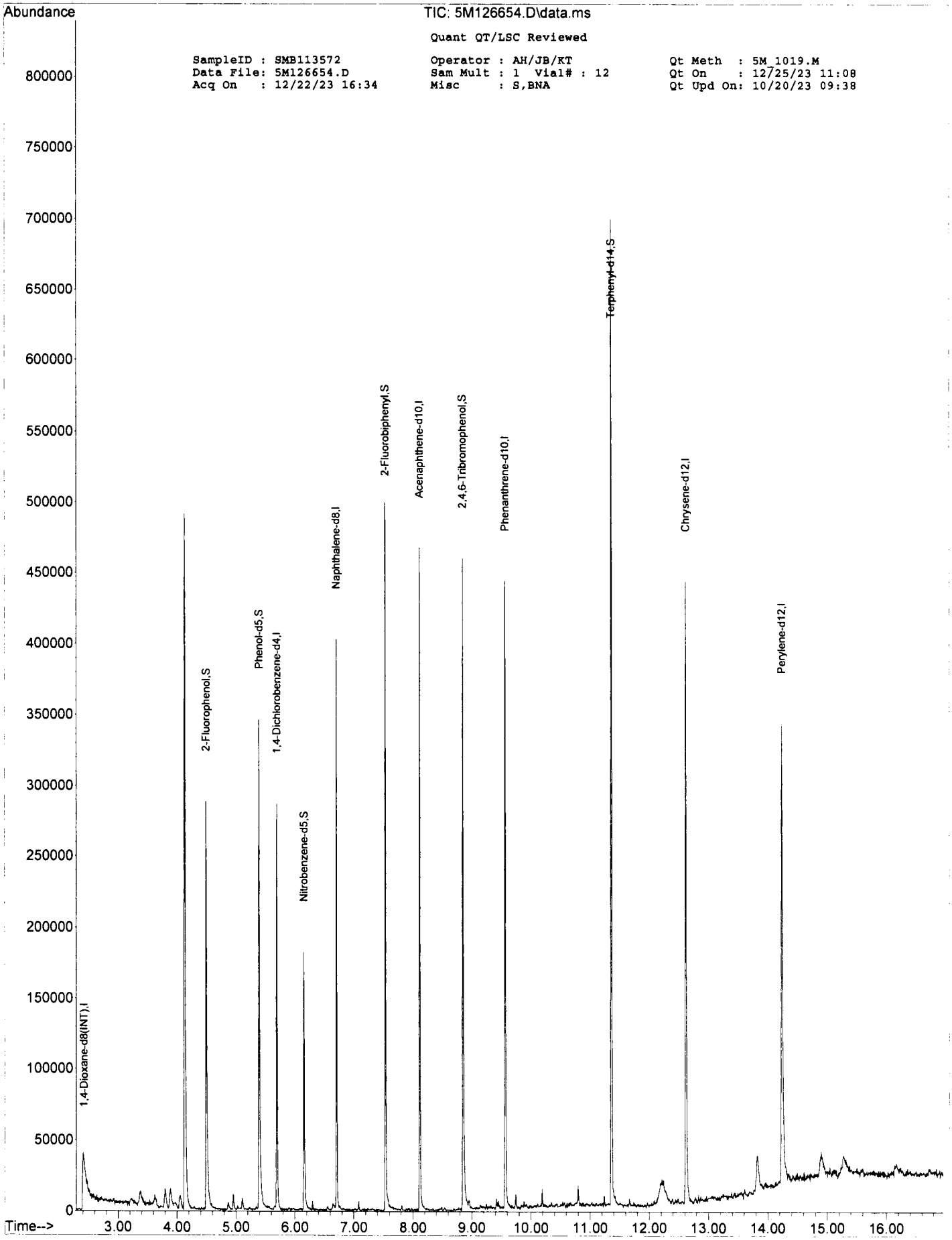
Quantitation Report (QT/LSC Reviewed)

SampleID : SMB113572 Operator : AH/JB/KT Qt Meth : 5M_1019.M
Data File: 5M126654.D Sam Mult : 1 Vial# : 12 Qt On : 12/25/23 11:08
Acq On : 12/22/23 16:34 Misc : S,BNA Qt Upd On: 10/20/23 09:38

Data Path : G:\GcMsData\2023\GCMS_5\Data\12-2223\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.416	96	29186	40.00	ng	-0.03
21) 1,4-Dichlorobenzene-d4	5.696	152	42344	40.00	ng	-0.01
31) Naphthalene-d8	6.705	136	145255	40.00	ng	-0.01
50) Acenaphthene-d10	8.116	164	99128	40.00	ng	-0.01
77) Phenanthrene-d10	9.569	188	196094	40.00	ng	0.00
91) Chrysene-d12	12.619	240	198234	40.00	ng	0.00
103) Perylene-d12	14.238	264	192517	40.00	ng	0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.494	112	91288	87.32	ng	0.00
Spiked Amount 100.000			Recovery = 87.32%			
16) Phenol-d5	5.391	99	110652	84.70	ng	0.00
Spiked Amount 100.000			Recovery = 84.70%			
32) Nitrobenzene-d5	6.155	128	22327	45.30	ng	0.00
Spiked Amount 50.000			Recovery = 90.60%			
55) 2-Fluorobiphenyl	7.539	172	154484	48.04	ng	0.00
Spiked Amount 50.000			Recovery = 96.08%			
80) 2,4,6-Tribromophenol	8.853	330	64066	120.72	ng	0.00
Spiked Amount 100.000			Recovery = 120.72%			
94) Terphenyl-d14	11.364	244	242402	57.43	ng	0.00
Spiked Amount 50.000			Recovery = 114.86%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M126654.D\data.ms
Quant QT/LSC Reviewed
SampleID : SMB113572
Data File: 5M126654.D
Acq On : 12/22/23 16:34
Operator : AH/JB/KT
Sam Mult : 1 Vial# : 12
Misc : S,BNA
Qt Meth : 5M_1019.M
Qt On : 12/25/23 11:08
Qt Upd On: 10/20/23 09:38
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: WMB113532
Client Id:
Data File: 9M125920.D
Analysis Date: 12/19/23 11:24
Date Rec/Extracted: NA-12/18/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
120-12-7	Anthracene	2.0	U	218-01-9	Chrysene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	86-73-7	Fluorene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 721743

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

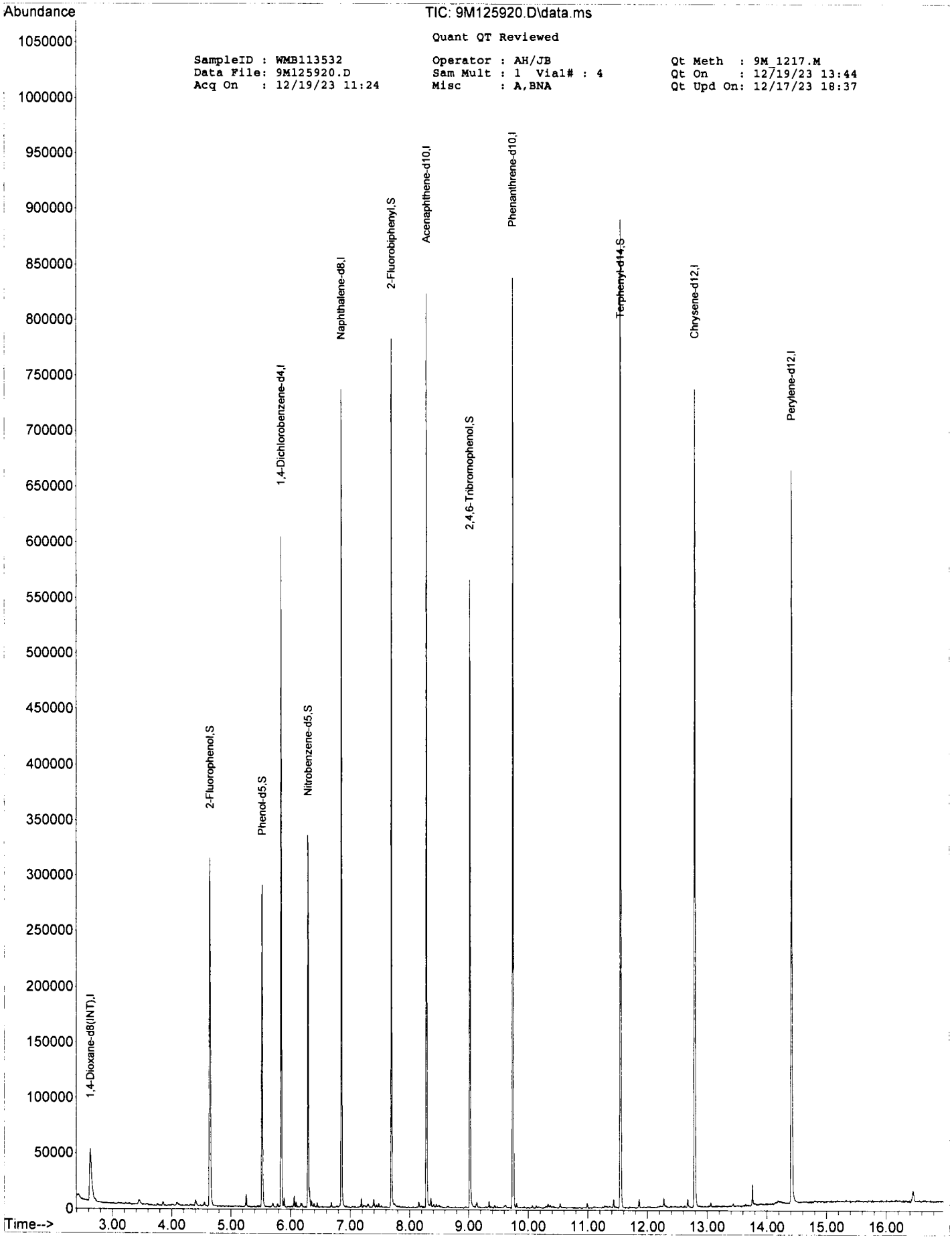
Quantitation Report (QT Reviewed)

SampleID : WMB113532 Operator : AH/JB Qt Meth : 9M_1217.M
Data File: 9M125920.D Sam Mult : 1 Vial# : 4 Qt On : 12/19/23 13:44
Acq On : 12/19/23 11:24 Misc : A,BNA Qt Upd On: 12/17/23 18:37

Data Path : G:\GcMsData\2023\GCMS_9\Data\12-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.628	96	46393	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.845	152	86529	40.00	ng	0.00
31) Naphthalene-d8	6.851	136	318873	40.00	ng	0.00
50) Acenaphthene-d10	8.286	164	176870	40.00	ng	0.00
77) Phenanthrene-d10	9.745	188	313663	40.00	ng	0.00
91) Chrysene-d12	12.798	240	293243	40.00	ng	0.00
103) Perylene-d12	14.415	264	286675	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.645	112	117274	45.86	ng	0.00
Spiked Amount 100.000			Recovery = 45.86%			
16) Phenol-d5	5.528	99	101608	32.10	ng	0.00
Spiked Amount 100.000			Recovery = 32.10%			
32) Nitrobenzene-d5	6.298	128	49485	36.50	ng	0.00
Spiked Amount 50.000			Recovery = 73.00%			
55) 2-Fluorobiphenyl	7.698	172	236437	39.22	ng	0.00
Spiked Amount 50.000			Recovery = 78.44%			
80) 2,4,6-Tribromophenol	9.022	330	62637	78.28	ng	0.00
Spiked Amount 100.000			Recovery = 78.28%			
94) Terphenyl-d14	11.551	244	285059	43.26	ng	0.00
Spiked Amount 50.000			Recovery = 86.52%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M125920.D\data.ms
Quant QT Reviewed
SampleID : WMB113532
Data File: 9M125920.D
Acq On : 12/19/23 11:24
Operator : AH/JB
Sam Mult : 1 Vial# : 4
Misc : A,BNA
Qt Meth : 9M_1217.M
Qt On : 12/19/23 13:44
Qt Upd On: 12/17/23 18:37
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
Nitrobenzene-d5,S
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

FORM2

Surrogate Recovery

Method: EPA 8270E

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column1 S5 Recov	Column1 S6 Recov
5M126654.D	SMB113572	S	12/22/23 16:34	1		87	85	91	96	121	115
9M125920.D	WMB113532	A	12/19/23 11:24	1		46	32	73	78	78	87
9M125931.D	WMB113542	A	12/19/23 17:50	1		56	40	88	92	98	105
5M126657.D	AD41925-001(3X)	S	12/22/23 17:46	3		80	76	89	87	106	89
5M126658.D	AD41925-002	S	12/22/23 18:10	1		87	86	87	91	130	114
5M126663.D	AD41925-003	S	12/22/23 20:09	1		85	82	96	97	122	109
5M126664.D	AD41925-004	S	12/22/23 20:33	1		87	80	95	93	118	108
5M126662.D	AD41925-005(3X)	S	12/22/23 19:45	3		72	69	82	85	106	94
5M126665.D	AD41925-006	S	12/22/23 20:57	1		84	79	86	89	118	111
5M126666.D	AD41925-007	S	12/22/23 21:21	1		78	77	78	81	115	107
5M126667.D	AD41925-008	S	12/22/23 21:44	1		85	84	84	86	113	106
5M126668.D	AD41925-009	S	12/22/23 22:08	1		76	73	75	81	114	104
5M126669.D	AD41925-010	S	12/22/23 22:32	1		90	89	93	97	121	104
5M126670.D	AD41925-011	S	12/22/23 22:56	1		84	83	92	90	127	111
5M126671.D	AD41925-012	S	12/22/23 23:20	1		86	83	88	89	120	109
7M133903.D	AD41925-013	A	12/19/23 20:42	1		50	41	88	68	71	76
9M125921.D	AD41925-014	A	12/19/23 11:47	1		49	36	86	94	95	105
3M000420.D	WMB113532(MS)	A	12/18/23 18:19	1		17	12	31	32	34	34
3M000422.D	AD41889-001(T)	A	12/18/23 19:03	1		77	73	87	89	94	108
3M000423.D	AD41889-001(T)(MS)	A	12/18/23 19:25	1		88	83	105	103	114	109
3M000424.D	AD41889-001(T)(MSD)	A	12/18/23 19:47	1		85	84	104	102	116	111
5M126659.D	AD41944-004	S	12/22/23 18:34	1		81	82	88	95	103	110
5M126660.D	AD41944-004(MS)	S	12/22/23 18:57	1		91	95	94	96	106	111
5M126661.D	AD41944-004(MSD)	S	12/22/23 19:21	1		87	92	99	97	118	115
7M133944.D	SMB113572(MS)	S	12/22/23 16:25	1		87	84	91	90	98	97
9M125930.D	WMB113542(MS)	A	12/19/23 17:27	1		54	39	91	95	107	106
9M125932.D	AD41988-001(T)	A	12/19/23 18:14	1		81	80	88	89	103	100
9M125934.D	AD41988-001(T)(MS)	A	12/19/23 19:00	1		79	79	87	86	98	96
9M125935.D	AD41988-001(T)(MSD)	A	12/19/23 19:23	1		86	84	99	98	112	109

Flags: SD=Surrogate diluted out

*=Surrogate out

Method: EPA 8270E

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	25-140
S2=Phenol-d5	100	27-146
S3=Nitrobenzene-d5	50	16-159
S4=2-Fluorobiphenyl	50	29-145
S5=2,4,6-Tribromophenol	100	12-174
S6=Terphenyl-d14	50	33-166

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	10-131
S2=Phenol-d5	100	10-133
S3=Nitrobenzene-d5	50	19-163
S4=2-Fluorobiphenyl	50	23-154
S5=2,4,6-Tribromophenol	100	20-180
S6=Terphenyl-d14	50	30-184

Form3
Recovery Data Laboratory Limits
QC Batch: WMB113532

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M000420.D	WMB113532(MS)	12/18/2023 6:19:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8270E Matrix: Aqueous Units: ug/L QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	0	0	100	0*	16	112
Pyridine	1	10.317	0	100	10	10	131
N-Nitrosodimethylamine	1	18.8407	0	100	19*	24	118
Benzaldehyde	1	23.242	0	100	23	10	103
Aniline	1	21.83	0	100	22	10	149
Pentachloroethane	1	25.667	0	100	26	10	155
bis(2-Chloroethyl)ether	1	27.9429	0	100	28*	42	118
Phenol	1	13.5538	0	100	14*	19	121
2-Chlorophenol	1	28.0818	0	100	28*	50	123
N-Decane	1	23.4321	0	100	23*	25	129
1,3-Dichlorobenzene	1	28.2892	0	100	28	13	126
1,4-Dichlorobenzene	1	29.2914	0	100	29	13	133
1,2-Dichlorobenzene	1	29.7491	0	100	30	16	129
Benzyl alcohol	1	28.5091	0	100	29*	33	150
bis(2-chloroisopropyl)ether	1	25.084	0	100	25*	28	119
2-Methylphenol	1	26.0678	0	100	26*	50	128
Acetophenone	1	28.7096	0	100	29*	47	132
Hexachloroethane	1	28.3719	0	100	28	19	132
N-Nitroso-di-n-propylamine	1	29.4392	0	100	29*	46	127
3&4-Methylphenol	1	24.3027	0	100	24*	53	129
Nitrobenzene	1	31.0192	0	100	31*	45	134
Isophorone	1	28.2714	0	100	28*	48	121
2-Nitrophenol	1	30.627	0	100	31*	55	143
2,4-Dimethylphenol	1	34.6836	0	100	35*	46	134
Benzoic Acid	1	0	0	100	0*	14	216
bis(2-Chloroethoxy)methane	1	31.5768	0	100	32*	47	131
2,4-Dichlorophenol	1	32.2155	0	100	32*	59	134
1,2,4-Trichlorobenzene	1	30.7102	0	100	31*	32	135
Naphthalene	**1**	**30.4765**	**0**	**100**	**30**	**12**	**146**
4-Chloroaniline	1	45.3582	0	100	45	10	161
Hexachlorobutadiene	1	29.7081	0	100	30	24	136
Caprolactam	1	11.0307	0	100	11	10	155
4-Chloro-3-methylphenol	1	31.5441	0	100	32*	62	142
2-Methylnaphthalene	1	33.4785	0	100	33*	34	156
1-Methylnaphthalene	1	33.2484	0	100	33*	44	149
1,1'-Biphenyl	1	31.3941	0	100	31*	51	137
1,2,4,5-Tetrachlorobenzene	1	28.9114	0	100	29*	52	131
Hexachlorocyclopentadiene	1	29.2121	0	100	29	24	137
2,4,6-Trichlorophenol	1	72.0348	0	100	72	66	142
2,4,5-Trichlorophenol	1	66.5456	0	100	67	65	143
2-Chloronaphthalene	1	32.7804	0	100	33*	51	129
1,4-Dimethylnaphthalene	1	29.2649	0	100	29*	50	137
Diphenyl Ether	1	30.3771	0	100	30*	55	134
2-Nitroaniline	1	34.5129	0	100	35*	45	165
Coumarin	1	32.2229	0	100	32	10	194
Acenaphthylene	1	31.6092	0	100	32*	46	130
Dimethylphthalate	1	33.0986	0	100	33	10	177
2,6-Dinitrotoluene	1	31.776	0	100	32*	55	135
Acenaphthene	1	31.1963	0	100	31*	48	136
3-Nitroaniline	1	35.0328	0	100	35	24	169
2,4-Dinitrophenol	1	21.8161	0	100	22*	42	160
Dibenzofuran	1	34.296	0	100	34*	50	147
2,4-Dinitrotoluene	1	33.735	0	100	34*	55	136
4-Nitrophenol	1	13.4839	0	100	13*	27	141
2,3,4,6-Tetrachlorophenol	1	32.5988	0	100	33*	59	141
Fluorene	1	32.7028	0	100	33*	53	132
4-Chlorophenyl-phenylether	1	33.3359	0	100	33*	58	133
Diethylphthalate	1	34.5031	0	100	35	25	152
4-Nitroaniline	1	36.0779	0	100	36	33	166
Atrazine	1	30.8237	0	100	31	21	152
4,6-Dinitro-2-methylphenol	1	30.3627	0	100	30*	58	158

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB113532

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	28.8025	0	100	29*	44	122
1,2-Diphenylhydrazine	1	33.5967	0	100	34*	53	140
4-Bromophenyl-phenylether	1	33.5537	0	100	34*	60	139
Hexachlorobenzene	1	33.6915	0	100	34*	58	132
N-Octadecane	1	31.046	0	100	31*	53	157
Pentachlorophenol	1	31.8179	0	100	32*	64	176
Phenanthrene	1	34.4033	0	100	34*	56	136
Anthracene	**1**	**32.0172**	**0**	**100**	**32***	**59**	**131**
Carbazole	1	34.1626	0	100	34*	53	159
Di-n-butylphthalate	1	35.5826	0	100	36*	60	140
Fluoranthene	1	34.064	0	100	34*	61	139
Pyrene	1	34.3016	0	100	34*	58	133
Benzidine	1	3.5165	0	100	3.5*	10	43
Butylbenzylphthalate	1	34.3725	0	100	34*	61	145
3,3'-Dichlorobenzidine	1	32.0099	0	100	32	10	145
Benzo[a]anthracene	**1**	**36.2933**	**0**	**100**	**36***	**56**	**122**
Chrysene	1	31.65	0	100	32*	58	136
bis(2-Ethylhexyl)phthalate	1	32.8879	0	100	33*	59	145
Di-n-octylphthalate	1	33.6629	0	100	34*	57	147
Benzo[b]fluoranthene	**1**	**68.9954**	**0**	**100**	**69**	**58**	**146**
Benzo[k]fluoranthene	1	67.7639	0	100	68	57	140
Benzo[a]pyrene	**1**	**32.1857**	**0**	**100**	**32***	**55**	**135**
Indeno[1,2,3-cd]pyrene	1	30.9648	0	100	31*	59	147
Dibenzo[a,h]anthracene	1	32.5288	0	100	33*	58	142
Benzo[g,h,i]perylene	1	33.98	0	100	34*	57	138

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB113532

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M000423.D	AD41889-001(T)(MS)	12/18/2023 7:25:00 PM
Non Spike(If applicable):	13M000422.D	AD41889-001(T)	12/18/2023 7:03:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	68.9206	0	100	69	16	112
Pyridine	1	25.4636	0	100	25	10	131
N-Nitrosodimethylamine	1	85.0827	0	100	85	24	118
Benzaldehyde	1	60.8315	0	100	61	10	103
Aniline	1	44.8323	0	100	45	10	149
Pentachloroethane	1	87.2349	0	100	87	10	155
bis(2-Chloroethyl)ether	1	91.2822	0	100	91	42	118
Phenol	1	81.8646	0	100	82	19	121
2-Chlorophenol	1	101.6236	0	100	102	50	123
N-Decane	1	78.2588	0	100	78	25	129
1,3-Dichlorobenzene	1	91.9467	0	100	92	13	126
1,4-Dichlorobenzene	1	90.8973	0	100	91	13	133
1,2-Dichlorobenzene	1	90.9203	0	100	91	16	129
Benzyl alcohol	1	102.3613	0	100	102	33	150
bis(2-chloroisopropyl)ether	1	74.2474	0	100	74	28	119
2-Methylphenol	1	98.064	0	100	98	50	128
Acetophenone	1	92.6711	0	100	93	47	132
Hexachloroethane	1	90.8362	0	100	91	19	132
N-Nitroso-di-n-propylamine	1	88.8159	0	100	89	46	127
3&4-Methylphenol	1	96.8011	0	100	97	53	129
Nitrobenzene	1	98.5528	0	100	99	45	134
Isophorone	1	87.5341	0	100	88	48	121
2-Nitrophenol	1	108.0754	0	100	108	55	143
2,4-Dimethylphenol	1	108.9692	0	100	109	46	134
Benzoic Acid	1	112.9099	0	100	113	14	216
bis(2-Chloroethoxy)methane	1	98.1557	0	100	98	47	131
2,4-Dichlorophenol	1	110.9838	0	100	111	59	134
1,2,4-Trichlorobenzene	1	98.9077	0	100	99	32	135
Naphthalene	**1**	**95.8027**	**0**	**100**	**96**	**12**	**146**
4-Chloroaniline	1	89.6285	0	100	90	10	161
Hexachlorobutadiene	1	96.7298	0	100	97	24	136
Caprolactam	1	94.8817	0	100	95	10	155
4-Chloro-3-methylphenol	1	105.9995	0	100	106	62	142
2-Methylnaphthalene	1	109.1952	0	100	109	34	156
1-Methylnaphthalene	1	104.6025	0	100	105	44	149
1,1'-Biphenyl	1	98.1884	0	100	98	51	137
1,2,4,5-Tetrachlorobenzene	1	94.3224	0	100	94	52	131
Hexachlorocyclopentadiene	1	93.5363	0	100	94	24	137
2,4,6-Trichlorophenol	1	112.8911	0	100	113	66	142
2,4,5-Trichlorophenol	1	112.1077	0	100	112	65	143
2-Chloronaphthalene	1	101.2616	0	100	101	51	129
1,4-Dimethylnaphthalene	1	93.5107	0	100	94	50	137
Diphenyl Ether	1	98.4295	0	100	98	55	134
2-Nitroaniline	1	107.5808	0	100	108	45	165
Coumarin	1	100.0207	0	100	100	10	194
Acenaphthylene	1	97.2925	0	100	97	46	130
Dimethylphthalate	1	99.2694	0	100	99	10	177
2,6-Dinitrotoluene	1	102.539	0	100	103	55	135
Acenaphthene	1	96.7149	0	100	97	48	136
3-Nitroaniline	1	104.7325	0	100	105	24	169
2,4-Dinitrophenol	1	93.139	0	100	93	42	160
Dibenzofuran	1	105.4943	0	100	105	50	147
2,4-Dinitrotoluene	1	108.059	0	100	108	55	136
4-Nitrophenol	1	79.2797	0	100	79	27	141
2,3,4,6-Tetrachlorophenol	1	107.2066	0	100	107	59	141
Fluorene	1	101.0705	0	100	101	53	132
4-Chlorophenyl-phenylether	1	103.2575	0	100	103	58	133
Diethylphthalate	1	103.9135	0	100	104	25	152
4-Nitroaniline	1	111.9904	0	100	112	33	166
Atrazine	1	100.6406	0	100	101	21	152
4,6-Dinitro-2-methylphenol	1	104.6017	0	100	105	58	158

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB113532

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	85.6487	0	100	86	44	112
1,2-Diphenylhydrazine	1	98.0489	0	100	98	53	140
4-Bromophenyl-phenylether	1	105.2191	0	100	105	60	139
Hexachlorobenzene	1	103.9343	0	100	104	58	132
N-Octadecane	1	97.5735	0	100	98	53	157
Pentachlorophenol	1	113.5954	0	100	114	64	176
Phenanthrene	1	103.5016	0	100	104	56	136
Anthracene	**1**	**98.0604**	**0**	**100**	**98**	**59**	**131**
Carbazole	1	108.671	0	100	109	53	149
Di-n-butylphthalate	1	113.8302	0	100	114	60	140
Fluoranthene	1	108.1579	0	100	108	61	139
Pyrene	1	105.0742	0	100	105	58	133
Benzidine	1	0	0	100	0*	10	43
Butylbenzylphthalate	1	112.2323	0	100	112	61	145
3,3'-Dichlorobenzidine	1	78.1132	0	100	78	10	145
Benzo[a]anthracene	**1**	**105.6131**	**0**	**100**	**106**	**56**	**122**
Chrysene	1	98.838	0	100	99	58	136
bis(2-Ethylhexyl)phthalate	1	106.7564	0	100	107	59	145
Di-n-octylphthalate	1	108.6241	0	100	109	57	147
Benzo[b]fluoranthene	**1**	**105.2976**	**0**	**100**	**105**	**58**	**146**
Benzo[k]fluoranthene	1	101.9833	0	100	102	57	140
Benzo[a]pyrene	**1**	**100.7019**	**0**	**100**	**101**	**55**	**135**
Indeno[1,2,3-cd]pyrene	1	99.2337	0	100	99	59	147
Dibenzo[a,h]anthracene	1	104.3887	0	100	104	58	142
Benzo[g,h,i]perylene	1	106.0947	0	100	106	57	138

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB113532

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M000424.D	AD41889-001(T)(MSD)	12/18/2023 7:47:00 PM
Non Spike(If applicable):	13M000422.D	AD41889-001(T)	12/18/2023 7:03:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	66.7389	0	100	67	16	112
Pyridine	1	20.6926	0	100	21	10	131
N-Nitrosodimethylamine	1	84.725	0	100	85	24	118
Benzaldehyde	1	63.9986	0	100	64	10	103
Aniline	1	42.796	0	100	43	10	149
Pentachloroethane	1	81.8091	0	100	82	10	155
bis(2-Chloroethyl)ether	1	90.9597	0	100	91	42	118
Phenol	1	83.1416	0	100	83	19	121
2-Chlorophenol	1	99.8667	0	100	100	50	123
N-Decane	1	70.9501	0	100	71	25	129
1,3-Dichlorobenzene	1	86.6063	0	100	87	13	126
1,4-Dichlorobenzene	1	88.6851	0	100	89	13	133
1,2-Dichlorobenzene	1	89.4897	0	100	89	16	129
Benzyl alcohol	1	107.2918	0	100	107	33	150
bis(2-chloroisopropyl)ether	1	76.0589	0	100	76	28	119
2-Methylphenol	1	100.008	0	100	100	50	128
Acetophenone	1	94.6569	0	100	95	47	132
Hexachloroethane	1	86.7232	0	100	87	19	132
N-Nitroso-di-n-propylamine	1	95.0008	0	100	95	46	127
3&4-Methylphenol	1	99.8974	0	100	100	53	129
Nitrobenzene	1	98.854	0	100	99	45	134
Isophorone	1	89.207	0	100	89	48	121
2-Nitrophenol	1	108.8453	0	100	109	55	143
2,4-Dimethylphenol	1	110.8122	0	100	111	46	134
Benzoic Acid	1	119.829	0	100	120	14	216
bis(2-Chloroethoxy)methane	1	100.5775	0	100	101	47	131
2,4-Dichlorophenol	1	110.8688	0	100	111	59	134
1,2,4-Trichlorobenzene	1	98.5614	0	100	99	32	135
Naphthalene	**1**	**96.3944**	**0**	**100**	**96**	**12**	**146**
4-Chloroaniline	1	100.0555	0	100	100	10	161
Hexachlorobutadiene	1	93.3618	0	100	93	24	136
Caprolactam	1	96.2563	0	100	96	10	155
4-Chloro-3-methylphenol	1	108.9438	0	100	109	62	142
2-Methylnaphthalene	1	108.7804	0	100	109	34	156
1-Methylnaphthalene	1	106.3426	0	100	106	44	149
1,1'-Biphenyl	1	98.5209	0	100	99	51	137
1,2,4,5-Tetrachlorobenzene	1	94.4656	0	100	94	52	131
Hexachlorocyclopentadiene	1	97.0893	0	100	97	24	137
2,4,6-Trichlorophenol	1	115.4796	0	100	115	66	142
2,4,5-Trichlorophenol	1	113.7822	0	100	114	65	143
2-Chloronaphthalene	1	102.5199	0	100	103	51	129
1,4-Dimethylnaphthalene	1	94.4198	0	100	94	50	137
Diphenyl Ether	1	97.7529	0	100	98	55	134
2-Nitroaniline	1	110.6832	0	100	111	45	165
Coumarin	1	103.0083	0	100	103	10	194
Acenaphthylene	1	99.2683	0	100	99	46	130
Dimethylphthalate	1	101.2923	0	100	101	10	177
2,6-Dinitrotoluene	1	107.9373	0	100	108	55	135
Acenaphthene	1	98.7007	0	100	99	48	136
3-Nitroaniline	1	111.4381	0	100	111	24	169
2,4-Dinitrophenol	1	97.8679	0	100	98	42	160
Dibenzofuran	1	107.8271	0	100	108	50	147
2,4-Dinitrotoluene	1	111.9652	0	100	112	55	136
4-Nitrophenol	1	83.0878	0	100	83	27	141
2,3,4,6-Tetrachlorophenol	1	112.3348	0	100	112	59	141
Fluorene	1	103.9121	0	100	104	53	132
4-Chlorophenyl-phenylether	1	105.8161	0	100	106	58	133
Diethylphthalate	1	106.3623	0	100	106	25	152
4-Nitroaniline	1	115.6653	0	100	116	33	166
Atrazine	1	101.2013	0	100	101	21	152
4,6-Dinitro-2-methylphenol	1	107.504	0	100	108	58	158

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB113532

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	88.0871	0	100	88	44	112
1,2-Diphenylhydrazine	1	100.991	0	100	101	53	140
4-Bromophenyl-phenylether	1	106.9102	0	100	107	60	139
Hexachlorobenzene	1	105.8406	0	100	106	58	132
N-Octadecane	1	98.3028	0	100	98	53	157
Pentachlorophenol	1	118.5318	0	100	119	64	176
Phenanthrene	1	106.1216	0	100	106	56	136
Anthracene	**1**	**98.956**	**0**	**100**	**99**	**59**	**131**
Carbazole	1	109.883	0	100	110	58	136
Di-n-butylphthalate	1	118.5884	0	100	119	60	140
Fluoranthene	1	111.2798	0	100	111	61	139
Pyrene	1	108.0066	0	100	108	58	133
Benzidine	1	0	0	100	0*	10	43
Butylbenzylphthalate	1	116.7877	0	100	117	61	145
3,3'-Dichlorobenzidine	1	80.2846	0	100	80	10	145
Benzo[a]anthracene	**1**	**108.8077**	**0**	**100**	**109**	**56**	**122**
Chrysene	1	103.165	0	100	103	58	136
bis(2-Ethylhexyl)phthalate	1	110.401	0	100	110	59	145
Di-n-octylphthalate	1	111.5669	0	100	112	57	147
Benzo[b]fluoranthene	**1**	**107.0546**	**0**	**100**	**107**	**58**	**146**
Benzo[k]fluoranthene	1	103.3243	0	100	103	57	140
Benzo[a]pyrene	**1**	**102.4632**	**0**	**100**	**102**	**55**	**135**
Indeno[1,2,3-cd]pyrene	1	101.2477	0	100	101	59	147
Dibenzo[a,h]anthracene	1	105.4343	0	100	105	58	142
Benzo[g,h,i]perylene	1	108.1394	0	100	108	57	138

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: WMB113532

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M000424.D	AD41889-001(T)(MSD)	12/18/2023 7:47:00 PM
Duplicate(If applicable):	13M000423.D	AD41889-001(T)(MS)	12/18/2023 7:25:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
1,4-Dioxane	1	66.7389	68.9206	3.2	58
Pyridine	1	20.6926	25.4636	21	143
N-Nitrosodimethylamine	1	84.725	85.0827	0.42	40
Benzaldehyde	1	63.9986	60.8315	5.1	92
Aniline	1	42.796	44.8323	4.6	138
Pentachloroethane	1	81.8091	87.2349	6.4	79
bis(2-Chloroethyl)ether	1	90.9597	91.2822	0.35	42
Phenol	1	83.1416	81.8646	1.5	86
2-Chlorophenol	1	99.8667	101.6236	1.7	47
N-Decane	1	70.9501	78.2588	9.8	59
1,3-Dichlorobenzene	1	86.6063	91.9467	6	90
1,4-Dichlorobenzene	1	88.6851	90.8973	2.5	88
1,2-Dichlorobenzene	1	89.4897	90.9203	1.6	74
Benzyl alcohol	1	107.2918	102.3613	4.7	35
bis(2-chloroisopropyl)ether	1	76.0589	74.2474	2.4	48
2-Methylphenol	1	100.008	98.064	2	34
Acetophenone	1	94.6569	92.6711	2.1	30
Hexachloroethane	1	86.7232	90.8362	4.6	88
N-Nitroso-di-n-propylamine	1	95.0008	88.8159	6.7	56
3&4-Methylphenol	1	99.8974	96.8011	3.1	28
Nitrobenzene	1	98.854	98.5528	0.31	38
Isophorone	1	89.207	87.5341	1.9	35
2-Nitrophenol	1	108.8453	108.0754	0.71	41
2,4-Dimethylphenol	1	110.8122	108.9692	1.7	33
Benzoic Acid	1	119.829	112.9099	5.9	82
bis(2-Chloroethoxy)methane	1	100.5775	98.1557	2.4	44
2,4-Dichlorophenol	1	110.8688	110.9838	0.1	37
1,2,4-Trichlorobenzene	1	98.5614	98.9077	0.35	50
Naphthalene	**1**	**96.3944**	**95.8027**	**0.62**	**47**
4-Chloroaniline	1	100.0555	89.6285	11	85
Hexachlorobutadiene	1	93.3618	96.7298	3.5	58
Caprolactam	1	96.2563	94.8817	1.4	33
4-Chloro-3-methylphenol	1	108.9438	105.9995	2.7	28
2-Methylnaphthalene	1	108.7804	109.1952	0.38	38
1-Methylnaphthalene	1	106.3426	104.6025	1.6	32
1,1'-Biphenyl	1	98.5209	98.1884	0.34	31
1,2,4,5-Tetrachlorobenzene	1	94.4656	94.3224	0.15	32
Hexachlorocyclopentadiene	1	97.0893	93.5363	3.7	48
2,4,6-Trichlorophenol	1	115.4796	112.8911	2.3	62
2,4,5-Trichlorophenol	1	113.7822	112.1077	1.5	35
2-Chloronaphthalene	1	102.5199	101.2616	1.2	35
1,4-Dimethylnaphthalene	1	94.4198	93.5107	0.97	31
Diphenyl Ether	1	97.7529	98.4295	0.69	32
2-Nitroaniline	1	110.6832	107.5808	2.8	37
Coumarin	1	103.0083	100.0207	2.9	97
Acenaphthylene	1	99.2683	97.2925	2	41
Dimethylphthalate	1	101.2923	99.2694	2	108
2,6-Dinitrotoluene	1	107.9373	102.539	5.1	35
Acenaphthene	1	98.7007	96.7149	2	35
3-Nitroaniline	1	111.4381	104.7325	6.2	64
2,4-Dinitrophenol	1	97.8679	93.139	5	63
Dibenzofuran	1	107.8271	105.4943	2.2	36
2,4-Dinitrotoluene	1	111.9652	108.059	3.6	35
4-Nitrophenol	1	83.0878	79.2797	4.7	33
2,3,4,6-Tetrachlorophenol	1	112.3348	107.2066	4.7	36
Fluorene	1	103.9121	101.0705	2.8	34
4-Chlorophenyl-phenylether	1	105.8161	103.2575	2.4	33
Diethylphthalate	1	106.3623	103.9135	2.3	37
4-Nitroaniline	1	115.6653	111.9904	3.2	35
Atrazine	1	101.2013	100.6406	0.56	47
4,6-Dinitro-2-methylphenol	1	107.504	104.6017	2.7	46

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: WMB113532

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Nitrosodiphenylamine	1	88.0871	85.6487	2.8	37
1,2-Diphenylhydrazine	1	100.991	98.0489	3	36
4-Bromophenyl-phenylether	1	106.9102	105.2191	1.6	34
Hexachlorobenzene	1	105.8406	103.9343	1.8	34
N-Octadecane	1	98.3028	97.5735	0.74	31
Pentachlorophenol	1	118.5318	113.5954	4.3	32
Phenanthrene	1	106.1216	103.5016	2.5	33
Anthracene	**1**	**98.956**	**98.0604**	**0.91**	**34**
Carbazole	1	109.883	108.671	1.1	32
Di-n-butylphthalate	1	118.5884	113.8302	4.1	34
Fluoranthene	1	111.2798	108.1579	2.8	34
Pyrene	1	108.0066	105.0742	2.8	33
Benzidine	1	0	0	NA	213
Butylbenzylphthalate	1	116.7877	112.2323	4	34
3,3'-Dichlorobenzidine	1	80.2846	78.1132	2.7	126
Benzo[a]anthracene	**1**	**108.8077**	**105.6131**	**3**	**33**
Chrysene	1	103.165	98.838	4.3	32
bis(2-Ethylhexyl)phthalate	1	110.401	106.7564	3.4	33
Di-n-octylphthalate	1	111.5669	108.6241	2.7	36
Benzo[b]fluoranthene	**1**	**107.0546**	**105.2976**	**1.7**	**36**
Benzo[k]fluoranthene	1	103.3243	101.9833	1.3	20
Benzo[a]pyrene	**1**	**102.4632**	**100.7019**	**1.7**	**35**
Indeno[1,2,3-cd]pyrene	1	101.2477	99.2337	2	35
Dibenzo[a,h]anthracene	1	105.4343	104.3887	1	35
Benzo[g,h,i]perylene	1	108.1394	106.0947	1.9	35

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB113542

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M125930.D	WMB113542(MS)	12/19/2023 5:27:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8270E Matrix: Aqueous Units: ug/L QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	45.744	0	100	46	16	112
Pyridine	1	17.0158	0	100	17	10	131
N-Nitrosodimethylamine	1	56.7036	0	100	57	24	118
Benzaldehyde	1	69.5485	0	100	70	10	103
Aniline	1	44.8009	0	100	45	10	149
Pentachloroethane	1	78.6583	0	100	79	10	155
bis(2-Chloroethyl)ether	1	79.9319	0	100	80	42	118
Phenol	1	40.7734	0	100	41	19	121
2-Chlorophenol	1	82.7582	0	100	83	50	123
N-Decane	1	68.3296	0	100	68	25	129
1,3-Dichlorobenzene	1	80.4955	0	100	80	13	126
1,4-Dichlorobenzene	1	84.3792	0	100	84	13	133
1,2-Dichlorobenzene	1	83.3751	0	100	83	16	129
Benzyl alcohol	1	86.9821	0	100	87	33	150
bis(2-chloroisopropyl)ether	1	71.8543	0	100	72	28	119
2-Methylphenol	1	79.3577	0	100	79	50	128
Acetophenone	1	89.6936	0	100	90	47	132
Hexachloroethane	1	82.3006	0	100	82	19	132
N-Nitroso-di-n-propylamine	1	87.485	0	100	87	46	127
3&4-Methylphenol	1	72.8342	0	100	73	53	129
Nitrobenzene	1	89.4144	0	100	89	45	134
Isophorone	1	83.0686	0	100	83	48	121
2-Nitrophenol	1	93.2604	0	100	93	55	143
2,4-Dimethylphenol	1	99.5211	0	100	100	46	134
Benzoic Acid	1	35.9916	0	100	36	14	216
bis(2-Chloroethoxy)methane	1	89.2229	0	100	89	47	131
2,4-Dichlorophenol	1	92.0393	0	100	92	59	134
1,2,4-Trichlorobenzene	1	87.0988	0	100	87	32	135
Naphthalene	**1**	**85.1738**	**0**	**100**	**85**	**12**	**146**
4-Chloroaniline	1	80.005	0	100	80	10	161
Hexachlorobutadiene	1	84.786	0	100	85	24	136
Caprolactam	1	38.3031	0	100	38	10	155
4-Chloro-3-methylphenol	1	97.4389	0	100	97	62	142
2-Methylnaphthalene	1	97.8699	0	100	98	34	156
1-Methylnaphthalene	1	96.5383	0	100	97	44	149
1,1'-Biphenyl	1	91.9901	0	100	92	51	137
1,2,4,5-Tetrachlorobenzene	1	86.9802	0	100	87	52	131
Hexachlorocyclopentadiene	1	83.6992	0	100	84	24	137
2,4,6-Trichlorophenol	1	101.0985	0	100	101	66	142
2,4,5-Trichlorophenol	1	98.6141	0	100	99	65	143
2-Chloronaphthalene	1	91.0198	0	100	91	51	129
1,4-Dimethylnaphthalene	1	88.9298	0	100	89	50	137
Diphenyl Ether	1	89.6962	0	100	90	55	134
2-Nitroaniline	1	101.0908	0	100	101	45	165
Coumarin	1	98.3319	0	100	98	10	194
Acenaphthylene	1	90.6855	0	100	91	46	130
Dimethylphthalate	1	94.368	0	100	94	10	177
2,6-Dinitrotoluene	1	97.2142	0	100	97	55	135
Acenaphthene	1	89.2703	0	100	89	48	136
3-Nitroaniline	1	100.124	0	100	100	24	169
2,4-Dinitrophenol	1	77.6974	0	100	78	42	160
Dibenzofuran	1	95.3508	0	100	95	50	147
2,4-Dinitrotoluene	1	97.4899	0	100	97	55	136
4-Nitrophenol	1	49.8409	0	100	50	27	141
2,3,4,6-Tetrachlorophenol	1	102.8812	0	100	103	59	141
Fluorene	1	94.0673	0	100	94	53	132
4-Chlorophenyl-phenylether	1	94.3459	0	100	94	58	133
Diethylphthalate	1	97.3246	0	100	97	25	152
4-Nitroaniline	1	107.2239	0	100	107	33	166
Atrazine	1	94.2551	0	100	94	21	152
4,6-Dinitro-2-methylphenol	1	93.1641	0	100	93	58	158

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB113542

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	81.0647	0	100	81	44	122
1,2-Diphenylhydrazine	1	94.255	0	100	94	53	140
4-Bromophenyl-phenylether	1	96.9326	0	100	97	60	139
Hexachlorobenzene	1	95.0215	0	100	95	58	132
N-Octadecane	1	94.8686	0	100	95	53	157
Pentachlorophenol	1	107.5376	0	100	108	64	176
Phenanthrene	1	97.6201	0	100	98	56	136
Anthracene	**1**	**91.0899**	**0**	**100**	**91**	**59**	**131**
Carbazole	1	102.8542	0	100	103	53	159
Di-n-butylphthalate	1	103.145	0	100	103	60	140
Fluoranthene	1	99.0611	0	100	99	61	139
Pyrene	1	98.3976	0	100	98	58	133
Benzidine	1	2.7905	0	100	2.8*	10	43
Butylbenzylphthalate	1	109.6676	0	100	110	61	145
3,3'-Dichlorobenzidine	1	96.1438	0	100	96	10	145
Benzo[a]anthracene	**1**	**96.9902**	**0**	**100**	**97**	**56**	**122**
Chrysene	1	95.9474	0	100	96	58	136
bis(2-Ethylhexyl)phthalate	1	107.19	0	100	107	59	145
Di-n-octylphthalate	1	110.135	0	100	110	57	147
Benzo[b]fluoranthene	**1**	**100.4555**	**0**	**100**	**100**	**58**	**146**
Benzo[k]fluoranthene	1	91.6091	0	100	92	57	140
Benzo[a]pyrene	**1**	**93.2733**	**0**	**100**	**93**	**55**	**135**
Indeno[1,2,3-cd]pyrene	1	95.4935	0	100	95	59	147
Dibenzo[a,h]anthracene	1	99.9683	0	100	100	58	142
Benzo[g,h,i]perylene	1	100.9303	0	100	101	57	138

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB113542

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M125934.D	AD41988-001(T)(MS)	12/19/2023 7:00:00 PM
Non Spike(If applicable):	9M125932.D	AD41988-001(T)	12/19/2023 6:14:00 PM
Inst Blank(If applicable):			

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	62.008	0	100	62	16	112
Pyridine	1	46.9748	0	100	47	10	131
N-Nitrosodimethylamine	1	81.5811	0	100	82	24	118
Benzaldehyde	1	48.447	0	100	48	10	103
Aniline	1	56.1365	0	100	56	10	149
Pentachloroethane	1	74.2155	0	100	74	10	155
bis(2-Chloroethyl)ether	1	77.1771	0	100	77	42	118
Phenol	1	79.3071	0	100	79	19	121
2-Chlorophenol	1	88.2947	0	100	88	50	123
N-Decane	1	65.7367	0	100	66	25	129
1,3-Dichlorobenzene	1	78.8185	0	100	79	13	126
1,4-Dichlorobenzene	1	79.7357	0	100	80	13	133
1,2-Dichlorobenzene	1	80.4443	0	100	80	16	129
Benzyl alcohol	1	99.2554	0	100	99	33	150
bis(2-chloroisopropyl)ether	1	70.3324	0	100	70	28	119
2-Methylphenol	1	88.4471	0	100	88	50	128
Acetophenone	1	84.9231	0	100	85	47	132
Hexachloroethane	1	78.2228	0	100	78	19	132
N-Nitroso-di-n-propylamine	1	82.5924	0	100	83	46	127
3&4-Methylphenol	1	88.1047	0	100	88	53	129
Nitrobenzene	1	86.3334	0	100	86	45	134
Isophorone	1	79.9733	0	100	80	48	121
2-Nitrophenol	1	93.541	0	100	94	55	143
2,4-Dimethylphenol	1	101.4164	0	100	101	46	134
Benzoic Acid	1	99.0365	0	100	99	14	216
bis(2-Chloroethoxy)methane	1	88.2107	0	100	88	47	131
2,4-Dichlorophenol	1	92.7943	0	100	93	59	134
1,2,4-Trichlorobenzene	1	85.1851	0	100	85	32	135
Naphthalene	**1**	**79.1857**	**0**	**100**	**79**	**12**	**146**
4-Chloroaniline	1	80.0997	0	100	80	10	161
Hexachlorobutadiene	1	83.6528	0	100	84	24	136
Caprolactam	1	89.8951	0	100	90	10	155
4-Chloro-3-methylphenol	1	100.641	0	100	101	62	142
2-Methylnaphthalene	1	96.0747	0	100	96	34	156
1-Methylnaphthalene	1	93.9382	0	100	94	44	149
1,1'-Biphenyl	1	88.1346	0	100	88	51	137
1,2,4,5-Tetrachlorobenzene	1	81.9897	0	100	82	52	131
Hexachlorocyclopentadiene	1	78.2366	0	100	78	24	137
2,4,6-Trichlorophenol	1	96.3618	0	100	96	66	142
2,4,5-Trichlorophenol	1	99.3884	0	100	99	65	143
2-Chloronaphthalene	1	87.1521	0	100	87	51	129
1,4-Dimethylnaphthalene	1	82.6877	0	100	83	50	137
Diphenyl Ether	1	85.9129	0	100	86	55	134
2-Nitroaniline	1	96.7818	0	100	97	45	165
Coumarin	1	90.4371	0	100	90	10	194
Acenaphthylene	1	86.7072	0	100	87	46	130
Dimethylphthalate	1	89.7228	0	100	90	10	177
2,6-Dinitrotoluene	1	90.472	0	100	90	55	135
Acenaphthene	1	85.7643	0	100	86	48	136
3-Nitroaniline	1	96.3516	0	100	96	24	169
2,4-Dinitrophenol	1	63.6782	0	100	64	42	160
Dibenzofuran	1	91.7653	0	100	92	50	147
2,4-Dinitrotoluene	1	92.3297	0	100	92	55	136
4-Nitrophenol	1	89.1723	0	100	89	27	141
2,3,4,6-Tetrachlorophenol	1	98.8016	0	100	99	59	141
Fluorene	1	88.21	0	100	88	53	132
4-Chlorophenyl-phenylether	1	88.7552	0	100	89	58	133
Diethylphthalate	1	92.0168	0	100	92	25	152
4-Nitroaniline	1	103.3327	0	100	103	33	166
Atrazine	1	85.5993	0	100	86	21	152
4,6-Dinitro-2-methylphenol	1	72.3254	0	100	72	58	158

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB113542

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	76.4002	0	100	76	44	112
1,2-Diphenylhydrazine	1	89.2417	0	100	89	53	140
4-Bromophenyl-phenylether	1	90.8534	0	100	91	60	139
Hexachlorobenzene	1	88.7274	0	100	89	58	132
N-Octadecane	1	86.9068	0	100	87	53	157
Pentachlorophenol	1	99.8676	0	100	100	64	176
Phenanthrene	1	91.5496	0	100	92	56	136
Anthracene	**1**	**85.1932**	**0**	**100**	**85**	**59**	**131**
Carbazole	1	93.9589	0	100	94	53	149
Di-n-butylphthalate	1	97.7869	0	100	98	60	140
Fluoranthene	1	92.6079	0	100	93	61	139
Pyrene	1	92.9621	0	100	93	58	133
Benzidine	1	0	0	100	0*	10	43
Butylbenzylphthalate	1	103.5855	0	100	104	61	145
3,3'-Dichlorobenzidine	1	58.7947	0	100	59	10	145
Benzo[a]anthracene	**1**	**90.8004**	**0**	**100**	**91**	**56**	**122**
Chrysene	1	91.201	0	100	91	58	136
bis(2-Ethylhexyl)phthalate	1	99.3122	0	100	99	59	145
Di-n-octylphthalate	1	101.5165	0	100	102	57	147
Benzo[b]fluoranthene	**1**	**92.523**	**0**	**100**	**93**	**58**	**146**
Benzo[k]fluoranthene	1	91.4316	0	100	91	57	140
Benzo[a]pyrene	**1**	**87.6007**	**0**	**100**	**88**	**55**	**135**
Indeno[1,2,3-cd]pyrene	1	87.5736	0	100	88	59	147
Dibenzo[a,h]anthracene	1	91.4168	0	100	91	58	142
Benzo[g,h,i]perylene	1	91.6045	0	100	92	57	138

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB113542

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M125935.D	AD41988-001(T)(MSD)	12/19/2023 7:23:00 PM
Non Spike(If applicable):	9M125932.D	AD41988-001(T)	12/19/2023 6:14:00 PM
Inst Blank(If applicable):			

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	66.4666	0	100	66	16	112
Pyridine	1	30.6228	0	100	31	10	131
N-Nitrosodimethylamine	1	87.2589	0	100	87	24	118
Benzaldehyde	1	55.2825	0	100	55	10	103
Aniline	1	57.6668	0	100	58	10	149
Pentachloroethane	1	85.0598	0	100	85	10	155
bis(2-Chloroethyl)ether	1	90.4253	0	100	90	42	118
Phenol	1	84.0497	0	100	84	19	121
2-Chlorophenol	1	96.3974	0	100	96	50	123
N-Decane	1	75.4786	0	100	75	25	129
1,3-Dichlorobenzene	1	89.3142	0	100	89	13	126
1,4-Dichlorobenzene	1	90.5725	0	100	91	13	133
1,2-Dichlorobenzene	1	93.7142	0	100	94	16	129
Benzyl alcohol	1	109.3884	0	100	109	33	150
bis(2-chloroisopropyl)ether	1	80.3432	0	100	80	28	119
2-Methylphenol	1	100.7756	0	100	101	50	128
Acetophenone	1	97.0286	0	100	97	47	132
Hexachloroethane	1	92.3869	0	100	92	19	132
N-Nitroso-di-n-propylamine	1	95.0073	0	100	95	46	127
3&4-Methylphenol	1	97.0429	0	100	97	53	129
Nitrobenzene	1	98.9045	0	100	99	45	134
Isophorone	1	91.131	0	100	91	48	121
2-Nitrophenol	1	106.3715	0	100	106	55	143
2,4-Dimethylphenol	1	109.3456	0	100	109	46	134
Benzoic Acid	1	119.7621	0	100	120	14	216
bis(2-Chloroethoxy)methane	1	98.7923	0	100	99	47	131
2,4-Dichlorophenol	1	104.9538	0	100	105	59	134
1,2,4-Trichlorobenzene	1	97.4239	0	100	97	32	135
Naphthalene	**1**	**88.5284**	**0**	**100**	**89**	**12**	**146**
4-Chloroaniline	1	86.2361	0	100	86	10	161
Hexachlorobutadiene	1	95.9524	0	100	96	24	136
Caprolactam	1	98.5445	0	100	99	10	155
4-Chloro-3-methylphenol	1	109.5743	0	100	110	62	142
2-Methylnaphthalene	1	108.5913	0	100	109	34	156
1-Methylnaphthalene	1	118.4202	0	100	118	44	149
1,1'-Biphenyl	1	99.0513	0	100	99	51	137
1,2,4,5-Tetrachlorobenzene	1	94.1804	0	100	94	52	131
Hexachlorocyclopentadiene	1	91.2373	0	100	91	24	137
2,4,6-Trichlorophenol	1	109.5246	0	100	110	66	142
2,4,5-Trichlorophenol	1	112.3548	0	100	112	65	143
2-Chloronaphthalene	1	98.9617	0	100	99	51	129
1,4-Dimethylnaphthalene	1	93.4732	0	100	93	50	137
Diphenyl Ether	1	97.7077	0	100	98	55	134
2-Nitroaniline	1	111.1366	0	100	111	45	165
Coumarin	1	102.885	0	100	103	10	194
Acenaphthylene	1	98.1305	0	100	98	46	130
Dimethylphthalate	1	102.564	0	100	103	10	177
2,6-Dinitrotoluene	1	105.3535	0	100	105	55	135
Acenaphthene	1	99.3701	0	100	99	48	136
3-Nitroaniline	1	105.2498	0	100	105	24	169
2,4-Dinitrophenol	1	78.1829	0	100	78	42	160
Dibenzofuran	1	105.2661	0	100	105	50	147
2,4-Dinitrotoluene	1	106.3469	0	100	106	55	136
4-Nitrophenol	1	98.5265	0	100	99	27	141
2,3,4,6-Tetrachlorophenol	1	112.3231	0	100	112	59	141
Fluorene	1	102.1374	0	100	102	53	132
4-Chlorophenyl-phenylether	1	105.3556	0	100	105	58	133
Diethylphthalate	1	105.4408	0	100	105	25	152
4-Nitroaniline	1	113.0099	0	100	113	33	166
Atrazine	1	97.0089	0	100	97	21	152
4,6-Dinitro-2-methylphenol	1	90.1745	0	100	90	58	158

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB113542

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	88.1468	0	100	88	44	112
1,2-Diphenylhydrazine	1	102.4855	0	100	102	53	140
4-Bromophenyl-phenylether	1	105.3348	0	100	105	60	139
Hexachlorobenzene	1	103.6675	0	100	104	58	132
N-Octadecane	1	101.4761	0	100	101	53	157
Pentachlorophenol	1	117.9349	0	100	118	64	176
Phenanthrene	1	105.9341	0	100	106	56	136
Anthracene	**1**	**97.4077**	**0**	**100**	**97**	**59**	**131**
Carbazole	1	108.1674	0	100	108	58	136
Di-n-butylphthalate	1	111.9572	0	100	112	60	140
Fluoranthene	1	108.2614	0	100	108	61	139
Pyrene	1	106.8248	0	100	107	58	133
Benzidine	1	0	0	100	0*	10	43
Butylbenzylphthalate	1	119.4378	0	100	119	61	145
3,3'-Dichlorobenzidine	1	60.6484	0	100	61	10	145
Benzo[a]anthracene	**1**	**104.5973**	**0**	**100**	**105**	**56**	**122**
Chrysene	1	105.005	0	100	105	58	136
bis(2-Ethylhexyl)phthalate	1	114.1038	0	100	114	59	145
Di-n-octylphthalate	1	122.9707	0	100	123	57	147
Benzo[b]fluoranthene	**1**	**110.5658**	**0**	**100**	**111**	**58**	**146**
Benzo[k]fluoranthene	1	108.9835	0	100	109	57	140
Benzo[a]pyrene	**1**	**104.4574**	**0**	**100**	**104**	**55**	**135**
Indeno[1,2,3-cd]pyrene	1	102.7653	0	100	103	59	147
Dibenzo[a,h]anthracene	1	107.5901	0	100	108	58	142
Benzo[g,h,i]perylene	1	108.308	0	100	108	57	138

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: WMB113542

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M125935.D	AD41988-001(T)(MSD)	12/19/2023 7:23:00 PM
Duplicate(If applicable):	9M125934.D	AD41988-001(T)(MS)	12/19/2023 7:00:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
1,4-Dioxane	1	66.4666	62.008	6.9	58
Pyridine	1	30.6228	46.9748	42	143
N-Nitrosodimethylamine	1	87.2589	81.5811	6.7	40
Benzaldehyde	1	55.2825	48.447	13	92
Aniline	1	57.6668	56.1365	2.7	138
Pentachloroethane	1	85.0598	74.2155	14	79
bis(2-Chloroethyl)ether	1	90.4253	77.1771	16	42
Phenol	1	84.0497	79.3071	5.8	86
2-Chlorophenol	1	96.3974	88.2947	8.8	47
N-Decane	1	75.4786	65.7367	14	59
1,3-Dichlorobenzene	1	89.3142	78.8185	12	90
1,4-Dichlorobenzene	1	90.5725	79.7357	13	88
1,2-Dichlorobenzene	1	93.7142	80.4443	15	74
Benzyl alcohol	1	109.3884	99.2554	9.7	35
bis(2-chloroisopropyl)ether	1	80.3432	70.3324	13	48
2-Methylphenol	1	100.7756	88.4471	13	34
Acetophenone	1	97.0286	84.9231	13	30
Hexachloroethane	1	92.3869	78.2228	17	88
N-Nitroso-di-n-propylamine	1	95.0073	82.5924	14	56
3&4-Methylphenol	1	97.0429	88.1047	9.7	28
Nitrobenzene	1	98.9045	86.3334	14	38
Isophorone	1	91.131	79.9733	13	35
2-Nitrophenol	1	106.3715	93.541	13	41
2,4-Dimethylphenol	1	109.3456	101.4164	7.5	33
Benzoic Acid	1	119.7621	99.0365	19	82
bis(2-Chloroethoxy)methane	1	98.7923	88.2107	11	44
2,4-Dichlorophenol	1	104.9538	92.7943	12	37
1,2,4-Trichlorobenzene	1	97.4239	85.1851	13	50
Naphthalene	**1**	**88.5284**	**79.1857**	**11**	**47**
4-Chloroaniline	1	86.2361	80.0997	7.4	85
Hexachlorobutadiene	1	95.9524	83.6528	14	58
Caprolactam	1	98.5445	89.8951	9.2	33
4-Chloro-3-methylphenol	1	109.5743	100.641	8.5	28
2-Methylnaphthalene	1	108.5913	96.0747	12	38
1-Methylnaphthalene	1	118.4202	93.9382	23	32
1,1'-Biphenyl	1	99.0513	88.1346	12	31
1,2,4,5-Tetrachlorobenzene	1	94.1804	81.9897	14	32
Hexachlorocyclopentadiene	1	91.2373	78.2366	15	48
2,4,6-Trichlorophenol	1	109.5246	96.3618	13	62
2,4,5-Trichlorophenol	1	112.3548	99.3884	12	35
2-Chloronaphthalene	1	98.9617	87.1521	13	35
1,4-Dimethylnaphthalene	1	93.4732	82.6877	12	31
Diphenyl Ether	1	97.7077	85.9129	13	32
2-Nitroaniline	1	111.1366	96.7818	14	37
Coumarin	1	102.885	90.4371	13	97
Acenaphthylene	1	98.1305	86.7072	12	41
Dimethylphthalate	1	102.564	89.7228	13	108
2,6-Dinitrotoluene	1	105.3535	90.472	15	35
Acenaphthene	1	99.3701	85.7643	15	35
3-Nitroaniline	1	105.2498	96.3516	8.8	64
2,4-Dinitrophenol	1	78.1829	63.6782	20	63
Dibenzofuran	1	105.2661	91.7653	14	36
2,4-Dinitrotoluene	1	106.3469	92.3297	14	35
4-Nitrophenol	1	98.5265	89.1723	10	33
2,3,4,6-Tetrachlorophenol	1	112.3231	98.8016	13	36
Fluorene	1	102.1374	88.21	15	34
4-Chlorophenyl-phenylether	1	105.3556	88.7552	17	33
Diethylphthalate	1	105.4408	92.0168	14	37
4-Nitroaniline	1	113.0099	103.3327	8.9	35
Atrazine	1	97.0089	85.5993	12	47
4,6-Dinitro-2-methylphenol	1	90.1745	72.3254	22	46

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: WMB113542

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Nitrosodiphenylamine	1	88.1468	76.4002	14	37
1,2-Diphenylhydrazine	1	102.4855	89.2417	14	36
4-Bromophenyl-phenylether	1	105.3348	90.8534	15	34
Hexachlorobenzene	1	103.6675	88.7274	16	34
N-Octadecane	1	101.4761	86.9068	15	31
Pentachlorophenol	1	117.9349	99.8676	17	32
Phenanthrene	1	105.9341	91.5496	15	33
Anthracene	**1**	**97.4077**	**85.1932**	**13**	**34**
Carbazole	1	108.1674	93.9589	14	32
Di-n-butylphthalate	1	111.9572	97.7869	14	34
Fluoranthene	1	108.2614	92.6079	16	34
Pyrene	1	106.8248	92.9621	14	33
Benzidine	1	0	0	NA	213
Butylbenzylphthalate	1	119.4378	103.5855	14	34
3,3'-Dichlorobenzidine	1	60.6484	58.7947	3.1	126
Benzo[a]anthracene	**1**	**104.5973**	**90.8004**	**14**	**33**
Chrysene	1	105.005	91.201	14	32
bis(2-Ethylhexyl)phthalate	1	114.1038	99.3122	14	33
Di-n-octylphthalate	1	122.9707	101.5165	19	36
Benzo[b]fluoranthene	**1**	**110.5658**	**92.523**	**18**	**36**
Benzo[k]fluoranthene	1	108.9835	91.4316	18	20
Benzo[a]pyrene	**1**	**104.4574**	**87.6007**	**18**	**35**
Indeno[1,2,3-cd]pyrene	1	102.7653	87.5736	16	35
Dibenzo[a,h]anthracene	1	107.5901	91.4168	16	35
Benzo[g,h,i]perylene	1	108.308	91.6045	17	35

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB113572

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M133944.D	SMB113572(MS)	12/22/2023 4:25:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	18.0051	0	50	36	10	60
Pyridine	1	34.0081	0	50	68	13	107
N-Nitrosodimethylamine	1	41.4143	0	50	83	30	100
Benzaldehyde	1	32.953	0	50	66	10	121
Aniline	1	24.0892	0	50	48	10	96
Pentachloroethane	1	40.9505	0	50	82	19	125
bis(2-Chloroethyl)ether	1	40.3039	0	50	81	28	120
Phenol	1	88.8305	0	100	89	32	119
2-Chlorophenol	1	95.4883	0	100	95	33	124
N-Decane	1	30.292	0	50	61	10	142
1,3-Dichlorobenzene	1	41.9378	0	50	84	32	105
1,4-Dichlorobenzene	1	43.5	0	50	87	37	100
1,2-Dichlorobenzene	1	43.3114	0	50	87	29	108
Benzyl alcohol	1	49.2144	0	50	98	37	119
bis(2-chloroisopropyl)ether	1	34.7159	0	50	69	20	110
2-Methylphenol	1	95.9811	0	100	96	38	114
Acetophenone	1	42.9184	0	50	86	11	152
Hexachloroethane	1	43.0974	0	50	86	10	130
N-Nitroso-di-n-propylamine	1	38.9429	0	50	78	10	151
3&4-Methylphenol	1	94.3331	0	100	94	36	127
Nitrobenzene	1	47.4337	0	50	95	20	142
Isophorone	1	39.0804	0	50	78	10	164
2-Nitrophenol	1	108.2444	0	100	108	16	146
2,4-Dimethylphenol	1	115.3611	0	100	115	15	150
Benzoic Acid	1	111.7397	0	100	112	10	182
bis(2-Chloroethoxy)methane	1	45.54	0	50	91	26	131
2,4-Dichlorophenol	1	107.6685	0	100	108	20	146
1,2,4-Trichlorobenzene	1	47.4204	0	50	95	33	121
Naphthalene	**1**	**44.7933**	**0**	**50**	**90**	**10**	**153**
4-Chloroaniline	1	11.6479	0	50	23	10	112
Hexachlorobutadiene	1	44.5247	0	50	89	32	113
Caprolactam	1	29.7695	0	50	60	10	174
4-Chloro-3-methylphenol	1	111.7157	0	100	112	32	138
2-Methylnaphthalene	1	47.8739	0	50	96	11	153
1-Methylnaphthalene	1	48.2675	0	50	97	10	180
1,1'-Biphenyl	1	45.135	0	50	90	18	148
1,2,4,5-Tetrachlorobenzene	1	44.1778	0	50	88	31	124
Hexachlorocyclopentadiene	1	36.6324	0	50	73	10	103
2,4,6-Trichlorophenol	1	112.3507	0	100	112	32	137
2,4,5-Trichlorophenol	1	114.0155	0	100	114	36	131
2-Chloronaphthalene	1	47.5808	0	50	95	41	115
1,4-Dimethylnaphthalene	1	43.9926	0	50	88	10	205
Diphenyl Ether	1	45.0829	0	50	90	31	127
2-Nitroaniline	1	50.3646	0	50	101	32	142
Coumarin	1	48.6686	0	50	97	14	160
Acenaphthylene	1	47.912	0	50	96	26	133
Dimethylphthalate	1	48.5326	0	50	97	40	120
2,6-Dinitrotoluene	1	49.9059	0	50	100	18	148
Acenaphthene	1	47.1326	0	50	94	11	158
3-Nitroaniline	1	25.1005	0	50	50	14	137
2,4-Dinitrophenol	1	94.5648	0	100	95	10	128
Dibenzofuran	1	48.1852	0	50	96	10	170
2,4-Dinitrotoluene	1	49.8575	0	50	100	10	173
4-Nitrophenol	1	118.4414	0	100	118	23	140
2,3,4,6-Tetrachlorophenol	1	104.9562	0	100	105	26	127
Fluorene	1	48.1782	0	50	96	14	152
4-Chlorophenyl-phenylether	1	47.5934	0	50	95	40	121
Diethylphthalate	1	48.7296	0	50	97	40	119
4-Nitroaniline	1	47.9135	0	50	96	31	125
Atrazine	1	46.474	0	50	93	12	164
4,6-Dinitro-2-methylphenol	1	104.3909	0	100	104	10	146

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB113572

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	42.8828	0	50	86	10	172
1,2-Diphenylhydrazine	1	48.6763	0	50	97	24	144
4-Bromophenyl-phenylether	1	50.5168	0	50	101	26	148
Hexachlorobenzene	1	48.622	0	50	97	36	124
N-Octadecane	1	51.0273	0	50	102	10	186
Pentachlorophenol	1	105.5517	0	100	106	21	148
Phenanthrene	1	51.788	0	50	104	10	175
Anthracene	**1**	**51.6577**	**0**	**50**	**103**	**21**	**148**
Carbazole	1	52.761	0	50	106	36	137
Di-n-butylphthalate	1	55.3591	0	50	111	41	134
Fluoranthene	1	52.0542	0	50	104	10	186
Pyrene	1	49.41	0	50	99	10	196
Benzidine	1	2.6789	0	50	5.4*	10	77
Butylbenzylphthalate	1	53.7147	0	50	107	40	139
3,3'-Dichlorobenzidine	1	32.3812	0	50	65	10	110
Benzo[a]anthracene	**1**	**49.6736**	**0**	**50**	**99**	**13**	**142**
Chrysene	1	48.9117	0	50	98	11	161
bis(2-Ethylhexyl)phthalate	1	52.5249	0	50	105	34	156
Di-n-octylphthalate	1	53.6423	0	50	107	28	158
Benzo[b]fluoranthene	**1**	**52.1969**	**0**	**50**	**104**	**20**	**156**
Benzo[k]fluoranthene	1	50.9065	0	50	102	15	156
Benzo[a]pyrene	**1**	**51.2502**	**0**	**50**	**103**	**14**	**144**
Indeno[1,2,3-cd]pyrene	1	50.233	0	50	100	24	142
Dibenzo[a,h]anthracene	1	51.5264	0	50	103	29	132
Benzo[g,h,i]perylene	1	51.7191	0	50	103	12	142

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB113572

	Data File	Sample ID:	Analysis Date
Spike or Dup:	5M126660.D	AD41944-004(MS)	12/22/2023 6:57:00 PM
Non Spike(If applicable):	5M126659.D	AD41944-004	12/22/2023 6:34:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	22.2275	0	50	44	10	60
Pyridine	1	38.8939	0	50	78	13	107
N-Nitrosodimethylamine	1	43.412	0	50	87	30	100
Benzaldehyde	1	51.8765	0	50	104	10	121
Aniline	1	0	0	50	0*	10	96
Pentachloroethane	1	43.4613	0	50	87	19	125
bis(2-Chloroethyl)ether	1	34.8505	0	50	70	28	120
Phenol	1	99.8512	0	100	100	32	119
2-Chlorophenol	1	100.6985	0	100	101	33	124
N-Decane	1	26.2313	0	50	52	10	142
1,3-Dichlorobenzene	1	38.5469	0	50	77	32	105
1,4-Dichlorobenzene	1	38.0804	0	50	76	37	100
1,2-Dichlorobenzene	1	39.4354	0	50	79	29	108
Benzyl alcohol	1	41.1135	0	50	82	37	119
bis(2-chloroisopropyl)ether	1	25.6692	0	50	51	20	110
2-Methylphenol	1	98.2394	0	100	98	38	114
Acetophenone	1	45.1788	0	50	90	11	152
Hexachloroethane	1	41.5887	0	50	83	10	130
N-Nitroso-di-n-propylamine	1	41.7376	10.5824	50	62	10	151
3&4-Methylphenol	1	101.7341	0	100	102	36	127
Nitrobenzene	1	46.6649	0	50	93	20	142
Isophorone	1	38.7941	25.7152	50	26	10	164
2-Nitrophenol	1	98.562	0	100	99	16	146
2,4-Dimethylphenol	1	175.924	0	100	176*	15	150
Benzoic Acid	1	0	0	100	0*	10	182
bis(2-Chloroethoxy)methane	1	40.0695	0	50	80	26	131
2,4-Dichlorophenol	1	104.1524	0	100	104	20	146
1,2,4-Trichlorobenzene	1	45.0121	0	50	90	33	121
Naphthalene	**1**	**43.2205**	**0**	**50**	**86**	**10**	**153**
4-Chloroaniline	1	44.9111	0	50	90	10	112
Hexachlorobutadiene	1	49.3944	0	50	99	32	113
Caprolactam	1	50.6897	0	50	101	10	174
4-Chloro-3-methylphenol	1	116.9757	0	100	117	32	138
2-Methylnaphthalene	1	48.7728	0	50	98	11	153
1-Methylnaphthalene	1	49.6467	0	50	99	10	180
1,1'-Biphenyl	1	49.5558	0	50	99	18	148
1,2,4,5-Tetrachlorobenzene	1	46.3067	0	50	93	31	124
Hexachlorocyclopentadiene	1	0	0	50	0*	10	103
2,4,6-Trichlorophenol	1	99.4508	0	100	99	32	137
2,4,5-Trichlorophenol	1	102.2787	0	100	102	36	131
2-Chloronaphthalene	1	45.9085	0	50	92	41	115
1,4-Dimethylnaphthalene	1	48.8167	0	50	98	10	205
Diphenyl Ether	1	47.3126	0	50	95	31	127
2-Nitroaniline	1	59.7404	0	50	119	32	142
Coumarin	1	49.3519	0	50	99	14	160
Acenaphthylene	1	46.3935	0	50	93	26	133
Dimethylphthalate	1	47.0394	0	50	94	40	120
2,6-Dinitrotoluene	1	50.7939	0	50	102	18	148
Acenaphthene	1	47.2965	0	50	95	11	158
3-Nitroaniline	1	49.9866	0	50	100	14	137
2,4-Dinitrophenol	1	20.8124	0	100	21	10	128
Dibenzofuran	1	49.921	0	50	100	10	170
2,4-Dinitrotoluene	1	51.6395	13.9933	50	75	10	173
4-Nitrophenol	1	92.7912	0	100	93	23	140
2,3,4,6-Tetrachlorophenol	1	99.7268	0	100	100	26	127
Fluorene	1	47.6012	0	50	95	14	152
4-Chlorophenyl-phenylether	1	48.6749	0	50	97	40	121
Diethylphthalate	1	49.0469	0	50	98	40	119
4-Nitroaniline	1	50.9204	0	50	102	31	125
Atrazine	1	53.5458	0	50	107	12	164
4,6-Dinitro-2-methylphenol	1	36.5177	0	100	37	10	146

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB113572

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	42.0888	0	50	84	10	172
1,2-Diphenylhydrazine	1	52.3409	0	50	105	24	144
4-Bromophenyl-phenylether	1	52.9704	0	50	106	26	148
Hexachlorobenzene	1	52.7663	0	50	106	36	124
N-Octadecane	1	46.8383	0	50	94	10	186
Pentachlorophenol	1	69.3176	0	100	69	21	148
Phenanthrene	1	67.6921	7.5592	50	120	10	175
Anthracene	**1**	**55.0688**	**2.3115**	**50**	**106**	**21**	**148**
Carbazole	1	50.3753	0	50	101	36	137
Di-n-butylphthalate	1	55.0726	0.7719	50	109	41	134
Fluoranthene	1	76.95	13.4214	50	127	10	186
Pyrene	1	73.429	13.3184	50	120	10	196
Benzidine	1	19.1666	0	50	38	10	77
Butylbenzylphthalate	1	50.4261	0	50	101	40	139
3,3'-Dichlorobenzidine	1	54.6381	0	50	109	10	110
Benzo[a]anthracene	**1**	**57.898**	**7.9695**	**50**	**100**	**13**	**142**
Chrysene	1	58.0073	6.0546	50	104	11	161
bis(2-Ethylhexyl)phthalate	1	80.726	22.1914	50	117	34	156
Di-n-octylphthalate	1	51.6566	0	50	103	28	158
Benzo[b]fluoranthene	**1**	**65.6447**	**13.861**	**50**	**104**	**20**	**156**
Benzo[k]fluoranthene	1	56.2456	13.7842	50	85	15	156
Benzo[a]pyrene	**1**	**63.8944**	**9.5847**	**50**	**109**	**14**	**144**
Indeno[1,2,3-cd]pyrene	1	55.311	5.1227	50	100	24	142
Dibenzo[a,h]anthracene	1	50.7677	0	50	102	29	132
Benzo[g,h,i]perylene	1	57.9111	7.1628	50	101	12	142

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB113572

	Data File	Sample ID:	Analysis Date
Spike or Dup:	5M126661.D	AD41944-004(MSD)	12/22/2023 7:21:00 PM
Non Spike(If applicable):	5M126659.D	AD41944-004	12/22/2023 6:34:00 PM
Inst Blank(If applicable):			

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	17.3585	0	50	35	10	60
Pyridine	1	31.3922	0	50	63	13	107
N-Nitrosodimethylamine	1	35.4479	0	50	71	30	100
Benzaldehyde	1	47.0885	0	50	94	10	121
Aniline	1	37.5001	0	50	75	10	96
Pentachloroethane	1	37.2114	0	50	74	19	125
bis(2-Chloroethyl)ether	1	33.617	0	50	67	28	120
Phenol	1	97.9432	0	100	98	32	119
2-Chlorophenol	1	102.2265	0	100	102	33	124
N-Decane	1	21.9345	0	50	44	10	142
1,3-Dichlorobenzene	1	40.2457	0	50	80	32	105
1,4-Dichlorobenzene	1	38.1314	0	50	76	37	100
1,2-Dichlorobenzene	1	38.7629	0	50	78	29	208
Benzyl alcohol	1	41.0765	0	50	82	37	119
bis(2-chloroisopropyl)ether	1	24.7818	0	50	50	20	110
2-Methylphenol	1	98.652	0	100	99	38	114
Acetophenone	1	43.1568	0	50	86	11	152
Hexachloroethane	1	41.0966	0	50	82	10	130
N-Nitroso-di-n-propylamine	1	42.6345	10.5824	50	64	10	151
3&4-Methylphenol	1	104.2664	0	100	104	36	127
Nitrobenzene	1	48.2539	0	50	97	20	142
Isophorone	1	40.5545	25.7152	50	30	10	164
2-Nitrophenol	1	104.8184	0	100	105	16	146
2,4-Dimethylphenol	1	185.7649	0	100	186*	15	150
Benzoic Acid	1	0	0	100	0*	10	182
bis(2-Chloroethoxy)methane	1	42.2637	0	50	85	26	131
2,4-Dichlorophenol	1	114.8712	0	100	115	20	146
1,2,4-Trichlorobenzene	1	45.5898	0	50	91	33	121
Naphthalene	**1**	**44.8319**	**0**	**50**	**90**	**10**	**153**
4-Chloroaniline	1	46.0655	0	50	92	10	112
Hexachlorobutadiene	1	51.3512	0	50	103	32	113
Caprolactam	1	49.374	0	50	99	10	174
4-Chloro-3-methylphenol	1	123.2777	0	100	123	32	138
2-Methylnaphthalene	1	51.8009	0	50	104	11	153
1-Methylnaphthalene	1	49.5993	0	50	99	10	180
1,1'-Biphenyl	1	51.0865	0	50	102	18	148
1,2,4,5-Tetrachlorobenzene	1	45.6478	0	50	91	31	124
Hexachlorocyclopentadiene	1	0	0	50	0*	10	103
2,4,6-Trichlorophenol	1	109.7944	0	100	110	32	137
2,4,5-Trichlorophenol	1	116.4632	0	100	116	36	131
2-Chloronaphthalene	1	47.6408	0	50	95	41	115
1,4-Dimethylnaphthalene	1	48.7662	0	50	98	10	205
Diphenyl Ether	1	47.0755	0	50	94	31	127
2-Nitroaniline	1	62.5283	0	50	125	32	142
Coumarin	1	48.8707	0	50	98	14	160
Acenaphthylene	1	48.3362	0	50	97	26	133
Dimethylphthalate	1	50.5946	0	50	101	40	120
2,6-Dinitrotoluene	1	51.3879	0	50	103	18	148
Acenaphthene	1	48.9166	0	50	98	11	158
3-Nitroaniline	1	51.642	0	50	103	14	137
2,4-Dinitrophenol	1	24.4679	0	100	24	10	128
Dibenzofuran	1	50.7199	0	50	101	10	170
2,4-Dinitrotoluene	1	51.6409	13.9933	50	75	10	173
4-Nitrophenol	1	92.3449	0	100	92	23	140
2,3,4,6-Tetrachlorophenol	1	108.3034	0	100	108	26	126
Fluorene	1	51.0332	0	50	102	14	152
4-Chlorophenyl-phenylether	1	51.7304	0	50	103	40	121
Diethylphthalate	1	51.3615	0	50	103	40	119
4-Nitroaniline	1	51.1188	0	50	102	31	125
Atrazine	1	55.5615	0	50	111	12	164
4,6-Dinitro-2-methylphenol	1	41.9708	0	100	42	10	146

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB113572

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	44.577	0	50	89	10	172
1,2-Diphenylhydrazine	1	53.8735	0	50	108	24	144
4-Bromophenyl-phenylether	1	57.4323	0	50	115	26	148
Hexachlorobenzene	1	56.9289	0	50	114	36	124
N-Octadecane	1	48.454	0	50	97	10	186
Pentachlorophenol	1	81.0579	0	100	81	21	148
Phenanthrene	1	79.4374	7.5592	50	144	10	175
Anthracene	**1**	**61.5722**	**2.3115**	**50**	**119**	**21**	**148**
Carbazole	1	53.9794	0	50	108	36	137
Di-n-butylphthalate	1	58.4825	0.7719	50	115	41	134
Fluoranthene	1	91.2047	13.4214	50	156	10	186
Pyrene	1	80.2392	13.3184	50	134	10	196
Benzidine	1	16.7211	0	50	33	10	77
Butylbenzylphthalate	1	50.9703	0	50	102	40	139
3,3'-Dichlorobenzidine	1	57.0562	0	50	114*	10	110
Benzo[a]anthracene	**1**	**60.5179**	**7.9695**	**50**	**105**	**13**	**142**
Chrysene	1	60.5471	6.0546	50	109	11	161
bis(2-Ethylhexyl)phthalate	1	108.156	22.1914	50	172*	34	156
Di-n-octylphthalate	1	56.0089	0	50	112	28	158
Benzo[b]fluoranthene	**1**	**69.7106**	**13.861**	**50**	**112**	**20**	**156**
Benzo[k]fluoranthene	1	60.0948	13.7842	50	93	15	156
Benzo[a]pyrene	**1**	**71.8465**	**9.5847**	**50**	**125**	**14**	**144**
Indeno[1,2,3-cd]pyrene	1	63.6432	5.1227	50	117	24	142
Dibenzo[a,h]anthracene	1	57.9954	0	50	116	29	132
Benzo[g,h,i]perylene	1	70.3658	7.1628	50	126	12	142

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB113572

	Data File	Sample ID:	Analysis Date
Spike or Dup:	5M126661.D	AD41944-004(MSD)	12/22/2023 7:21:00 PM
Duplicate(If applicable):	5M126660.D	AD41944-004(MS)	12/22/2023 6:57:00 PM
Inst Blank(If applicable):			

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
1,4-Dioxane	1	17.3585	22.2275	25	62
Pyridine	1	31.3922	38.8939	21	78
N-Nitrosodimethylamine	1	35.4479	43.412	20	44
Benzaldehyde	1	47.0885	51.8765	9.7	44
Aniline	1	37.5001	0	200*	90
Pentachloroethane	1	37.2114	43.4613	15	54
bis(2-Chloroethyl)ether	1	33.617	34.8505	3.6	47
Phenol	1	97.9432	99.8512	1.9	46
2-Chlorophenol	1	102.2265	100.6985	1.5	47
N-Decane	1	21.9345	26.2313	18	62
1,3-Dichlorobenzene	1	40.2457	38.5469	4.3	45
1,4-Dichlorobenzene	1	38.1314	38.0804	0.13	40
1,2-Dichlorobenzene	1	38.7629	39.4354	1.7	40
Benzyl alcohol	1	41.0765	41.1135	0.09	49
bis(2-chloroisopropyl)ether	1	24.7818	25.6692	3.5	39
2-Methylphenol	1	98.652	98.2394	0.42	46
Acetophenone	1	43.1568	45.1788	4.6	50
Hexachloroethane	1	41.0966	41.5887	1.2	66
N-Nitroso-di-n-propylamine	1	42.6345	41.7376	2.1	47
3&4-Methylphenol	1	104.2664	101.7341	2.5	49
Nitrobenzene	1	48.2539	46.6649	3.3	48
Isophorone	1	40.5545	38.7941	4.4	47
2-Nitrophenol	1	104.8184	98.562	6.2	52
2,4-Dimethylphenol	1	185.7649	175.924	5.4	48
Benzoic Acid	1	0	0	NA	70
bis(2-Chloroethoxy)methane	1	42.2637	40.0695	5.3	45
2,4-Dichlorophenol	1	114.8712	104.1524	9.8	47
1,2,4-Trichlorobenzene	1	45.5898	45.0121	1.3	39
Naphthalene	**1**	**44.8319**	**43.2205**	**3.7**	**58**
4-Chloroaniline	1	46.0655	44.9111	2.5	75
Hexachlorobutadiene	1	51.3512	49.3944	3.9	40
Caprolactam	1	49.374	50.6897	2.6	41
4-Chloro-3-methylphenol	1	123.2777	116.9757	5.2	47
2-Methylnaphthalene	1	51.8009	48.7728	6	39
1-Methylnaphthalene	1	49.5993	49.6467	0.1	41
1,1'-Biphenyl	1	51.0865	49.5558	3	43
1,2,4,5-Tetrachlorobenzene	1	45.6478	46.3067	1.4	53
Hexachlorocyclopentadiene	1	0	0	NA	113
2,4,6-Trichlorophenol	1	109.7944	99.4508	9.9	63
2,4,5-Trichlorophenol	1	116.4632	102.2787	13	49
2-Chloronaphthalene	1	47.6408	45.9085	3.7	53
1,4-Dimethylnaphthalene	1	48.7662	48.8167	0.1	45
Diphenyl Ether	1	47.0755	47.3126	0.5	52
2-Nitroaniline	1	62.5283	59.7404	4.6	46
Coumarin	1	48.8707	49.3519	0.98	43
Acenaphthylene	1	48.3362	46.3935	4.1	48
Dimethylphthalate	1	50.5946	47.0394	7.3	49
2,6-Dinitrotoluene	1	51.3879	50.7939	1.2	49
Acenaphthene	1	48.9166	47.2965	3.4	39
3-Nitroaniline	1	51.642	49.9866	3.3	51
2,4-Dinitrophenol	1	24.4679	20.8124	16	88
Dibenzofuran	1	50.7199	49.921	1.6	45
2,4-Dinitrotoluene	1	51.6409	51.6395	0	47
4-Nitrophenol	1	92.3449	92.7912	0.48	53
2,3,4,6-Tetrachlorophenol	1	108.3034	99.7268	8.2	50
Fluorene	1	51.0332	47.6012	7	41
4-Chlorophenyl-phenylether	1	51.7304	48.6749	6.1	39
Diethylphthalate	1	51.3615	49.0469	4.6	46
4-Nitroaniline	1	51.1188	50.9204	0.39	47
Atrazine	1	55.5615	53.5458	3.7	59
4,6-Dinitro-2-methylphenol	1	41.9708	36.5177	14	100

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: SMB113572

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Nitrosodiphenylamine	1	44.577	42.0888	5.7	56
1,2-Diphenylhydrazine	1	53.8735	52.3409	2.9	45
4-Bromophenyl-phenylether	1	57.4323	52.9704	8.1	41
Hexachlorobenzene	1	56.9289	52.7663	7.6	54
N-Octadecane	1	48.454	46.8383	3.4	42
Pentachlorophenol	1	81.0579	69.3176	16	48
Phenanthrene	1	79.4374	67.6921	16	70
Anthracene	**1**	**61.5722**	**55.0688**	**11**	**47**
Carbazole	1	53.9794	50.3753	6.9	46
Di-n-butylphthalate	1	58.4825	55.0726	6	47
Fluoranthene	1	91.2047	76.95	17	63
Pyrene	1	80.2392	73.429	8.9	61
Benzidine	1	16.7211	19.1666	14	267
Butylbenzylphthalate	1	50.9703	50.4261	1.1	40
3,3'-Dichlorobenzidine	1	57.0562	54.6381	4.3	48
Benzo[a]anthracene	**1**	**60.5179**	**57.898**	**4.4**	**55**
Chrysene	1	60.5471	58.0073	4.3	54
bis(2-Ethylhexyl)phthalate	1	108.156	80.726	29	39
Di-n-octylphthalate	1	56.0089	51.6566	8.1	60
Benzo[b]fluoranthene	**1**	**69.7106**	**65.6447**	**6**	**64**
Benzo[k]fluoranthene	1	60.0948	56.2456	6.6	57
Benzo[a]pyrene	**1**	**71.8465**	**63.8944**	**12**	**58**
Indeno[1,2,3-cd]pyrene	1	63.6432	55.311	14	50
Dibenzo[a,h]anthracene	1	57.9954	50.7677	13	45
Benzo[g,h,i]perylene	1	70.3658	57.9111	19	48

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: WMB113532
Blank Data File: 9M125920.D
Matrix: Aqueous

Blank Analysis Date: 12/19/23 11:24
Blank Extraction Date: 12/18/23
(If Applicable)
Method: EPA 8270E

Sample Number	Data File	Analysis Date
AD41925-014	9M125921.D	12/19/23 11:47
AD41889-001(T)(M	13M000423.D	12/18/23 19:25
AD41889-001(T)	13M000422.D	12/18/23 19:03
WMB113532(MS)	13M000420.D	12/18/23 18:19
AD41889-001(T)(M	13M000424.D	12/18/23 19:47

FORM 4
Blank Summary

Blank Number: WMB113542
Blank Data File: 9M125931.D
Matrix: Aqueous

Blank Analysis Date: 12/19/23 17:50
Blank Extraction Date: 12/19/23
(If Applicable)
Method: EPA 8270E

Sample Number	Data File	Analysis Date
AD41925-013	7M133903.D	12/19/23 20:42
WMB113542(MS)	9M125930.D	12/19/23 17:27
AD41988-001(T)(M	9M125934.D	12/19/23 19:00
AD41988-001(T)(M	9M125935.D	12/19/23 19:23
AD41988-001(T)	9M125932.D	12/19/23 18:14

FORM 4
Blank Summary

Blank Number: SMB113572
Blank Data File: 5M126654.D
Matrix: Soil

Blank Analysis Date: 12/22/23 16:34
Blank Extraction Date: 12/22/23
(If Applicable)
Method: EPA 8270E

Sample Number	Data File	Analysis Date
AD41925-001(3X)	5M126657.D	12/22/23 17:46
AD41925-002	5M126658.D	12/22/23 18:10
AD41925-003	5M126663.D	12/22/23 20:09
AD41925-004	5M126664.D	12/22/23 20:33
AD41925-005(3X)	5M126662.D	12/22/23 19:45
AD41925-006	5M126665.D	12/22/23 20:57
AD41925-007	5M126666.D	12/22/23 21:21
AD41925-008	5M126667.D	12/22/23 21:44
AD41925-009	5M126668.D	12/22/23 22:08
AD41925-010	5M126669.D	12/22/23 22:32
AD41925-011	5M126670.D	12/22/23 22:56
AD41925-012	5M126671.D	12/22/23 23:20
AD41944-004	5M126659.D	12/22/23 18:34
AD41944-004(MS)	5M126660.D	12/22/23 18:57
AD41944-004(MSD	5M126661.D	12/22/23 19:21
SMB113572(MS)	7M133944.D	12/22/23 16:25

Form 5

Tune Name: CAL DFTPP **Data File:** 5M125266.D
Instrument: GCMS 5 **Analysis Date:** 10/19/23 10:01
Method: EPA 8270E

Tune Scan/Time Range: Average of 9.861 to 9.866 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	33.5	28472	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.1	35780	PASS
70	69	0.00	2	0.4	129	PASS
127	198	40	60	44.5	37848	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	85052	PASS
199	198	5	9	7.3	6167	PASS
275	198	10	30	23.8	20244	PASS
365	198	1	100	3.5	2945	PASS
441	443	0.01	100	70.4	7183	PASS
442	198	40	100	59.1	50224	PASS
443	442	17	23	20.3	10208	PASS

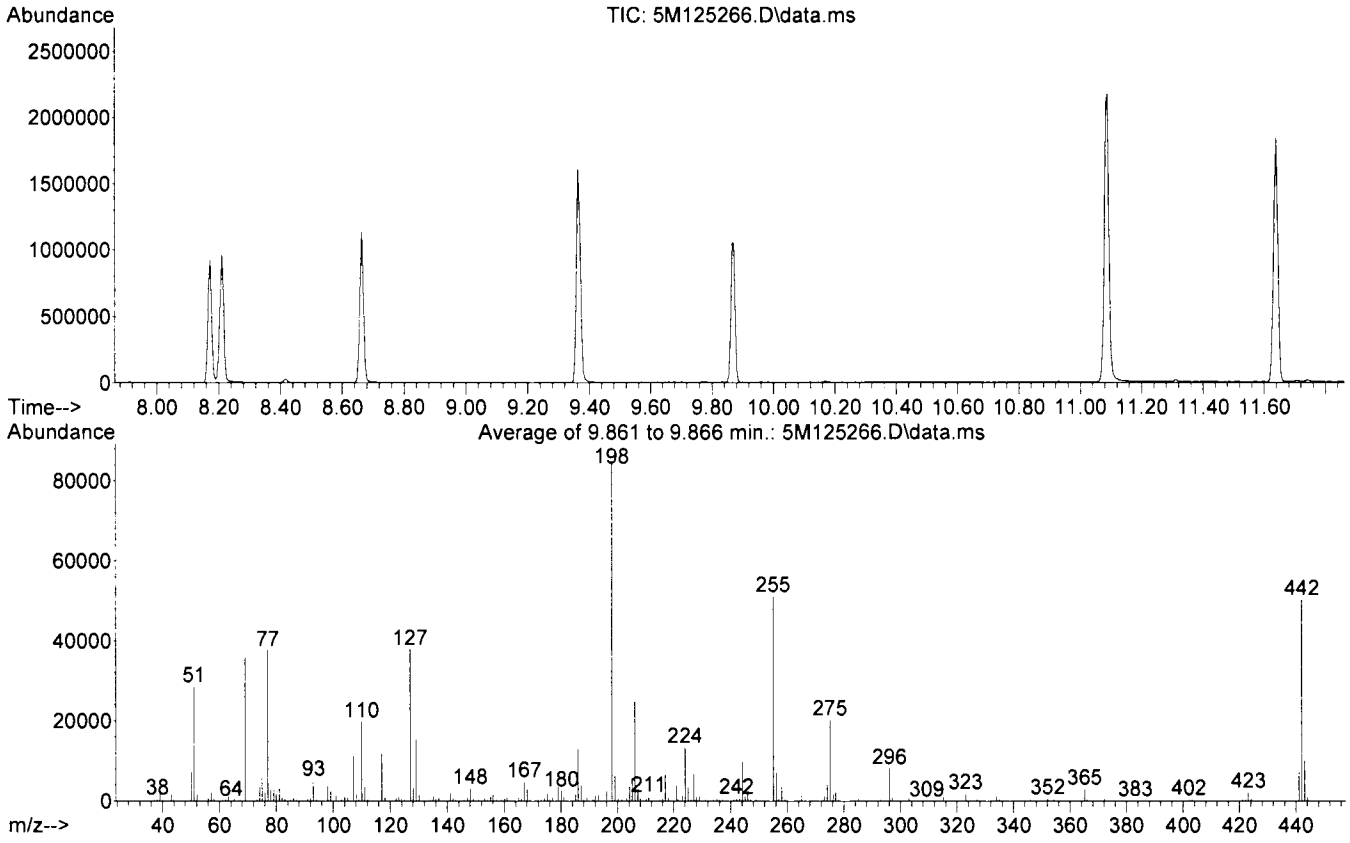
Data File	Sample Number	Analysis Date:
5M125267.D	CAL BNA@196PP	10/19/23 10:29
5M125268.D	CAL BNA@160PP	10/19/23 10:53
5M125269.D	CAL BNA@120PP	10/19/23 11:17
5M125270.D	CAL BNA@80PPM	10/19/23 11:40
5M125271.D	CAL BNA@50PPM	10/19/23 12:05
5M125272.D	CAL BNA@10PPM	10/19/23 12:29
5M125273.D	CAL BNA@2PPM	10/19/23 12:52
5M125274.D	CAL BNA@0.5PP	10/19/23 13:17
5M125275.D	CAL BNA@20PPM	10/19/23 13:40
5M125276.D	ICV BNA@50PPM	10/19/23 14:05
5M125277.D	BNA@50PPM	10/19/23 14:35
5M125278.D	BNA@50PPM	10/19/23 14:59

DFTPP

Data Path : G:\GcMsData\2023\GCMS_5\Data\10-19-23\
Data File : 5M125266.D
Acq On : 19 Oct 2023 10:01
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2023\GCMS_5\METHODQT\5M_1018.M
Title : @GCMS_5,mg,625,8270
Last Update : Wed Oct 18 14:59:20 2023



Spectrum Information: Average of 9.861 to 9.866 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	33.5	28472	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.1	35780	PASS
70	69	0.00	2	0.4	129	PASS
127	198	40	60	44.5	37848	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	85052	PASS
199	198	5	9	7.3	6167	PASS
275	198	10	30	23.8	20244	PASS
365	198	1	100	3.5	2945	PASS
441	443	0.01	100	70.4	7183	PASS
442	198	40	100	59.1	50224	PASS
443	442	17	23	20.3	10208	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 9
Data File: 9M125863.D
Analysis Date: 12/17/23 11:16
Method: EPA 8270E

Tune Scan/Time Range: Scan 1300

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	39.4	29680	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.8	29976	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	48.4	36456	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	75352	PASS
199	198	5	9	6.3	4762	PASS
275	198	10	30	25.3	19040	PASS
365	198	1	100	2.9	2221	PASS
441	443	0.01	100	77.5	8025	PASS
442	198	40	100	68.3	51488	PASS
443	442	17	23	20.1	10356	PASS

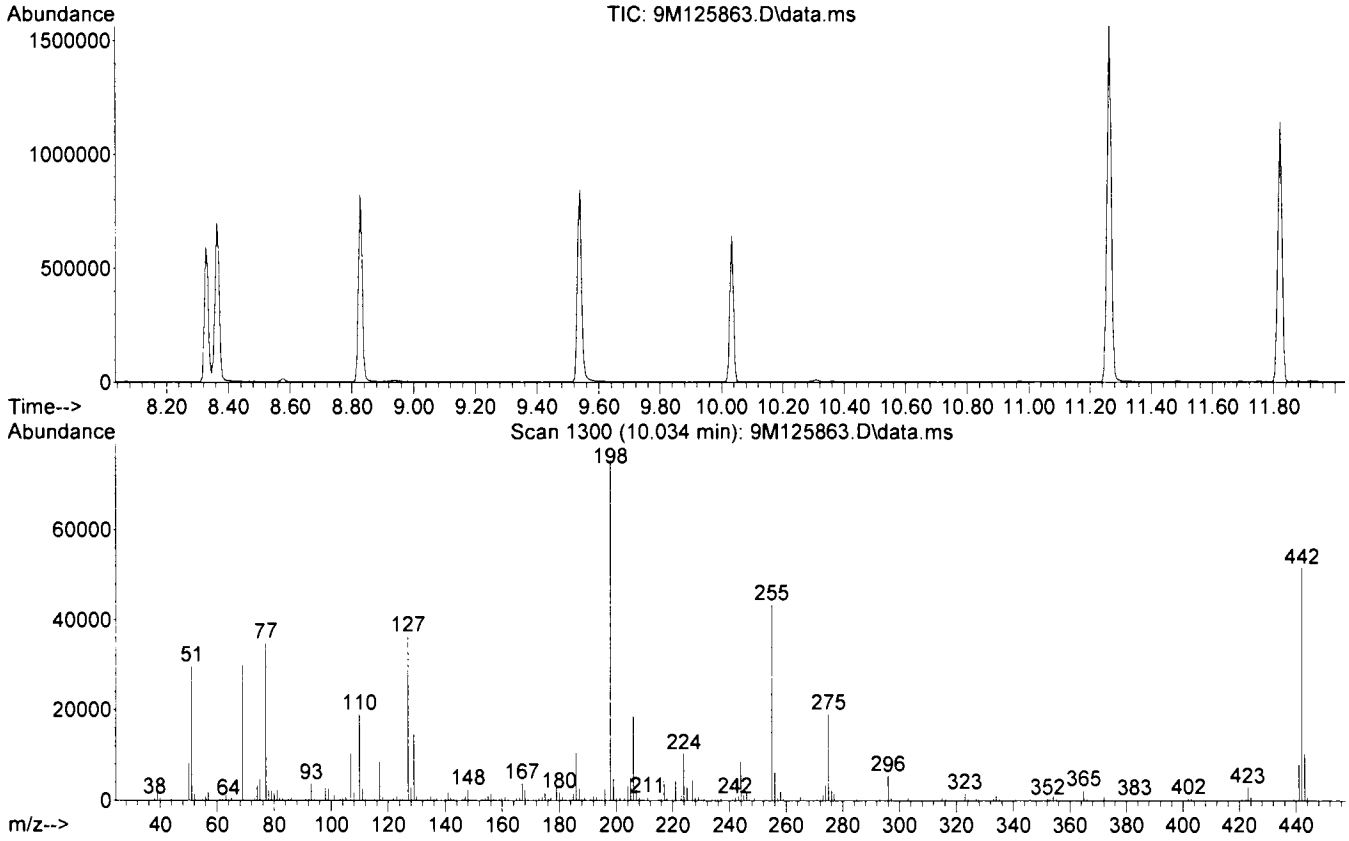
Data File	Sample Number	Analysis Date:
9M125864.D	CAL BNA 196PPM	12/17/23 13:17
9M125865.D	CAL BNA 160PPM	12/17/23 13:40
9M125866.D	CAL BNA 120PPM	12/17/23 14:03
9M125867.D	CAL BNA 80PPM	12/17/23 14:29
9M125868.D	CAL BNA 50PPM	12/17/23 14:52
9M125869.D	CAL BNA 20PPM	12/17/23 15:15
9M125870.D	CAL BNA 10PPM	12/17/23 15:38
9M125871.D	CAL BNA 2PPM	12/17/23 16:01
9M125872.D	CAL BNA 0.5PPM	12/17/23 16:24
9M125873.D	BNA 50PPM	12/17/23 17:04
9M125874.D	ICV BNA 50PPM	12/17/23 17:52
9M125875.D	BNA 50PPM	12/17/23 18:15

DFTPP

Data Path : G:\GcMsData\2023\GCMS_9\Data\12-17-23\
Data File : 9M125863.D
Acq On : 17 Dec 2023 11:16
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2023\GCMS_9\METHODQT\9M_1213.M
Title : @GCMS_9,mg,625,8270
Last Update : Wed Dec 13 15:05:21 2023



Spectrum Information: Scan 1300

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.4	29680	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.8	29976	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	48.4	36456	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	75352	PASS
199	198	5	9	6.3	4762	PASS
275	198	10	30	25.3	19040	PASS
365	198	1	100	2.9	2221	PASS
441	443	0.01	100	77.5	8025	PASS
442	198	40	100	68.3	51488	PASS
443	442	17	23	20.1	10356	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 7
Data File: 7M133816.D
Analysis Date: 12/17/23 11:16
Method: EPA 8270E

Tune Scan/Time Range: Scan 1235

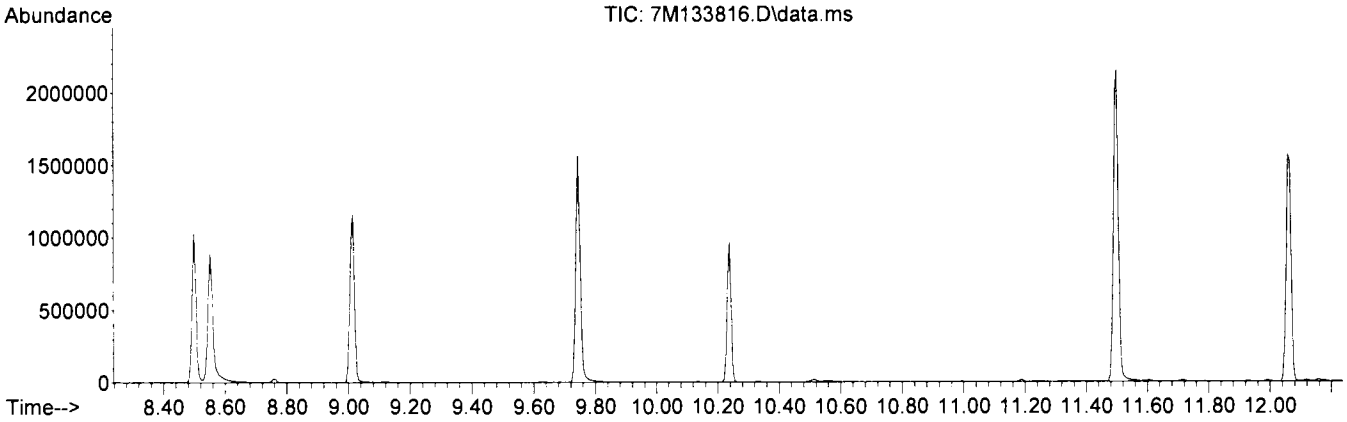
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	30.8	36160	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	35.6	41848	PASS
70	69	0.00	2	0.7	287	PASS
127	198	40	60	46.9	55072	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	117392	PASS
199	198	5	9	6.2	7224	PASS
275	198	10	30	23.8	27952	PASS
365	198	1	100	2.9	3408	PASS
441	443	0.01	100	82.5	12705	PASS
442	198	40	100	71.9	84416	PASS
443	442	17	23	18.2	15399	PASS

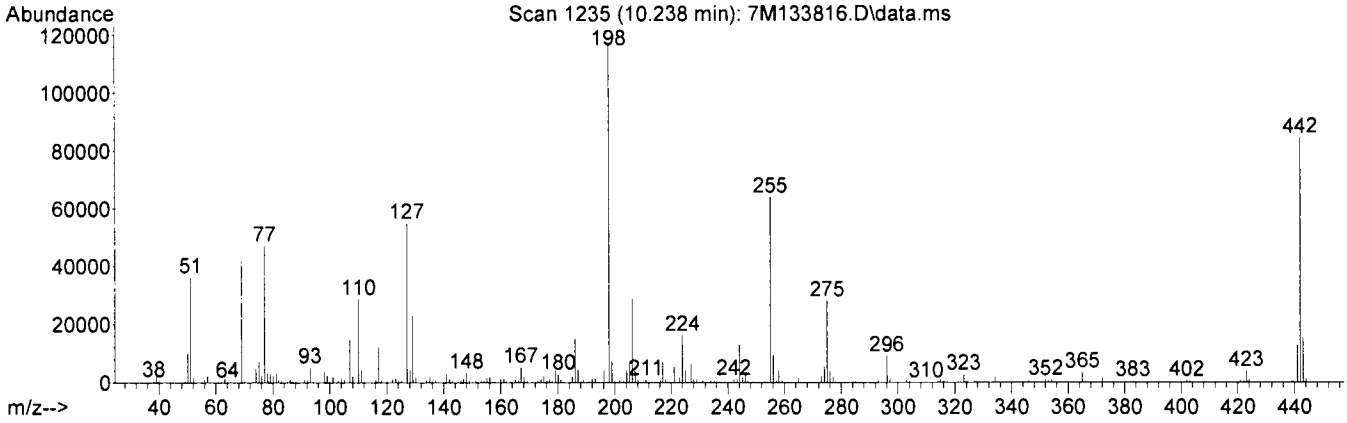
Data File	Sample Number	Analysis Date:
7M133817.D	CAL BNA 196PPM	12/17/23 13:25
7M133818.D	CAL BNA 160PPM	12/17/23 13:48
7M133819.D	CAL BNA 120PPM	12/17/23 14:12
7M133820.D	CAL BNA 80PPM	12/17/23 14:36
7M133821.D	CAL BNA 50PPM	12/17/23 15:00
7M133822.D	CAL BNA 20PPM	12/17/23 15:24
7M133823.D	CAL BNA 10PPM	12/17/23 15:48
7M133824.D	CAL BNA 2PPM	12/17/23 16:12
7M133825.D	CAL BNA 0.5PPM	12/17/23 16:36
7M133826.D	BNA 50PPM	12/17/23 17:06
7M133827.D	ICV BNA 50PPM	12/17/23 17:55
7M133828.D	BNA 50PPM	12/17/23 18:18

Data Path : G:\GcMsData\2023\GCMS_7\Data\12-17-23\
Data File : 7M133816.D
Acq On : 17 Dec 2023 11:16
Operator : AH/JB/KT
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2023\GCMS_7\METHODQT\7M_1213.M
Title : @GCMS_7,mg,625,8270
Last Update : Wed Dec 13 14:33:09 2023





Spectrum Information: Scan 1235

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	30.8	36160	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	35.6	41848	PASS
70	69	0.00	2	0.7	287	PASS
127	198	40	60	46.9	55072	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	117392	PASS
199	198	5	9	6.2	7224	PASS
275	198	10	30	23.8	27952	PASS
365	198	1	100	2.9	3408	PASS
441	443	0.01	100	82.5	12705	PASS
442	198	40	100	71.9	84416	PASS
443	442	17	23	18.2	15399	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 13
Data File: 13M000393.
Analysis Date: 12/17/23 11:16
Method: EPA 8270E

Tune Scan/Time Range: Scan 1017

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	39.1	37704	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	38.1	36744	PASS
70	69	0.00	2	0.6	213	PASS
127	198	40	60	54.5	52528	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	96456	PASS
199	198	5	9	6.6	6366	PASS
275	198	10	30	22.4	21560	PASS
365	198	1	100	2.7	2642	PASS
441	443	0.01	100	73.6	8674	PASS
442	198	40	100	56.0	54024	PASS
443	442	17	23	21.8	11788	PASS

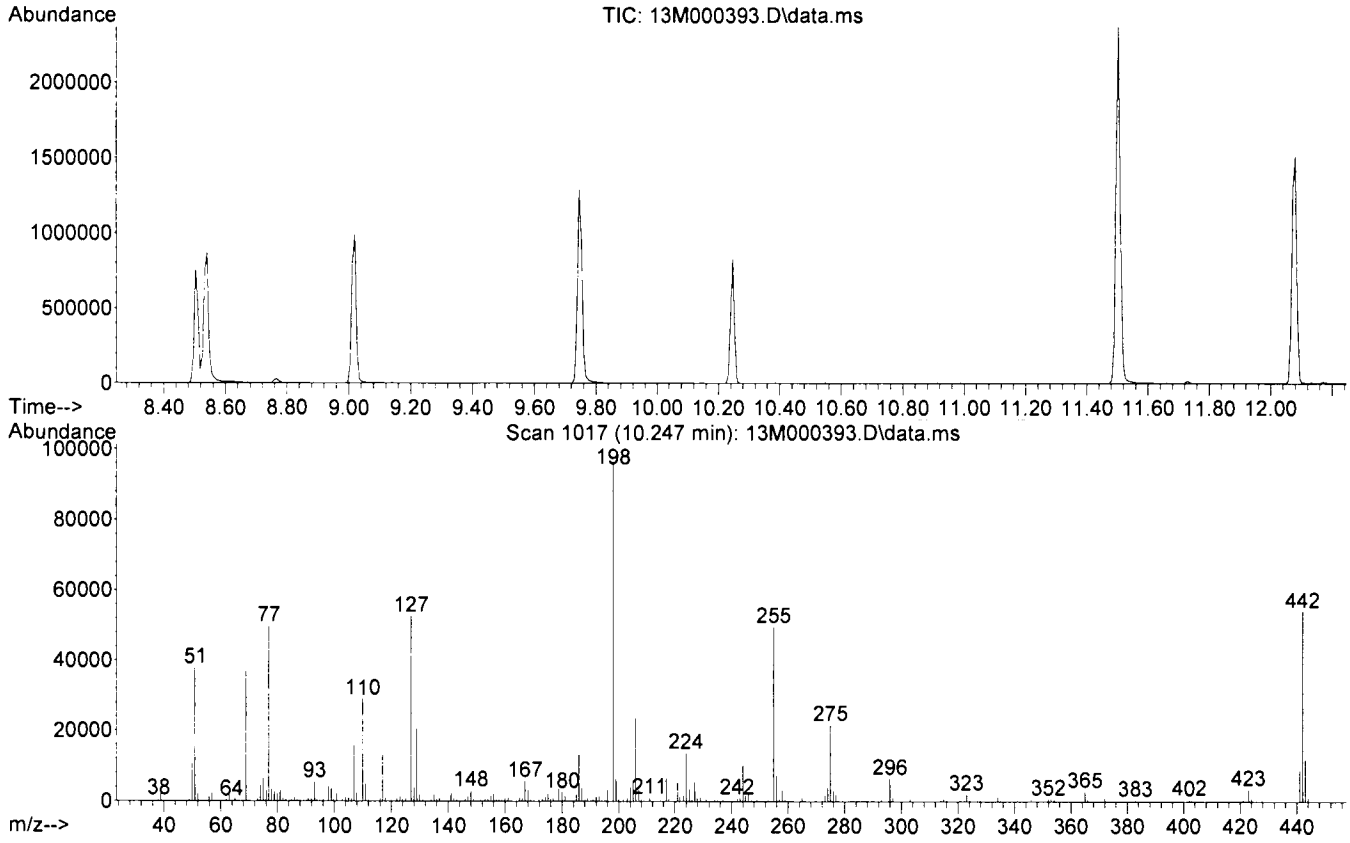
Data File	Sample Number	Analysis Date:
13M000394.D	CAL BNA196PPM	12/17/23 13:03
13M000395.D	CAL BNA 160PPM	12/17/23 13:25
13M000396.D	CAL BNA 120PPM	12/17/23 13:47
13M000397.D	CAL BNA 80PPM	12/17/23 14:09
13M000398.D	CAL BNA 50PPM	12/17/23 14:31
13M000399.D	CAL BNA 20PPM	12/17/23 14:53
13M000400.D	CAL BNA10PPM	12/17/23 15:14
13M000401.D	CAL BNA 2PPM	12/17/23 15:36
13M000402.D	CAL BNA 0.5PPM	12/17/23 15:58
13M000403.D	BNA 50PPM	12/17/23 16:52
13M000404.D	ICV BNA 50PPM	12/17/23 17:41
13M000406.D	TEST	12/17/23 19:01
13M000407.D	MBS-1	12/17/23 19:47
13M000408.D	MBS-2	12/17/23 20:08
13M000409.D	MBS-3	12/17/23 20:30
13M000410.D	MBS-4	12/17/23 20:52
13M000411.D	MBS-5	12/17/23 21:14
13M000412.D	WMB113510	12/17/23 21:36

DFTPP

Data Path : G:\GcMsData\2023\GCMS_13\Data\12-17-23\
Data File : 13M000393.D
Acq On : 17 Dec 2023 11:16
Operator : AH/JB/KT
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2023\GCMS_13\METHODQT\13M_1213.M
Title : @GCMS_13,mg,625,8270
Last Update : Wed Dec 13 13:26:56 2023



Spectrum Information: Scan 1017

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.1	37704	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	38.1	36744	PASS
70	69	0.00	2	0.6	213	PASS
127	198	40	60	54.5	52528	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	96456	PASS
199	198	5	9	6.6	6366	PASS
275	198	10	30	22.4	21560	PASS
365	198	1	100	2.7	2642	PASS
441	443	0.01	100	73.6	8674	PASS
442	198	40	100	56.0	54024	PASS
443	442	17	23	21.8	11788	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 13
Data File: 13M000413.
Analysis Date: 12/18/23 12:03
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.246 to 10.254 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	39.3	30232	PASS
68	69	0.00	2	1.7	505	PASS
69	198	0.00	100	38.5	29600	PASS
70	69	0.00	2	0.7	193	PASS
127	198	40	60	56.3	43288	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	76848	PASS
199	198	5	9	6.9	5293	PASS
275	198	10	30	22.2	17065	PASS
365	198	1	100	2.8	2160	PASS
441	443	0.01	100	76.0	7001	PASS
442	198	40	100	59.3	45552	PASS
443	442	17	23	20.2	9215	PASS

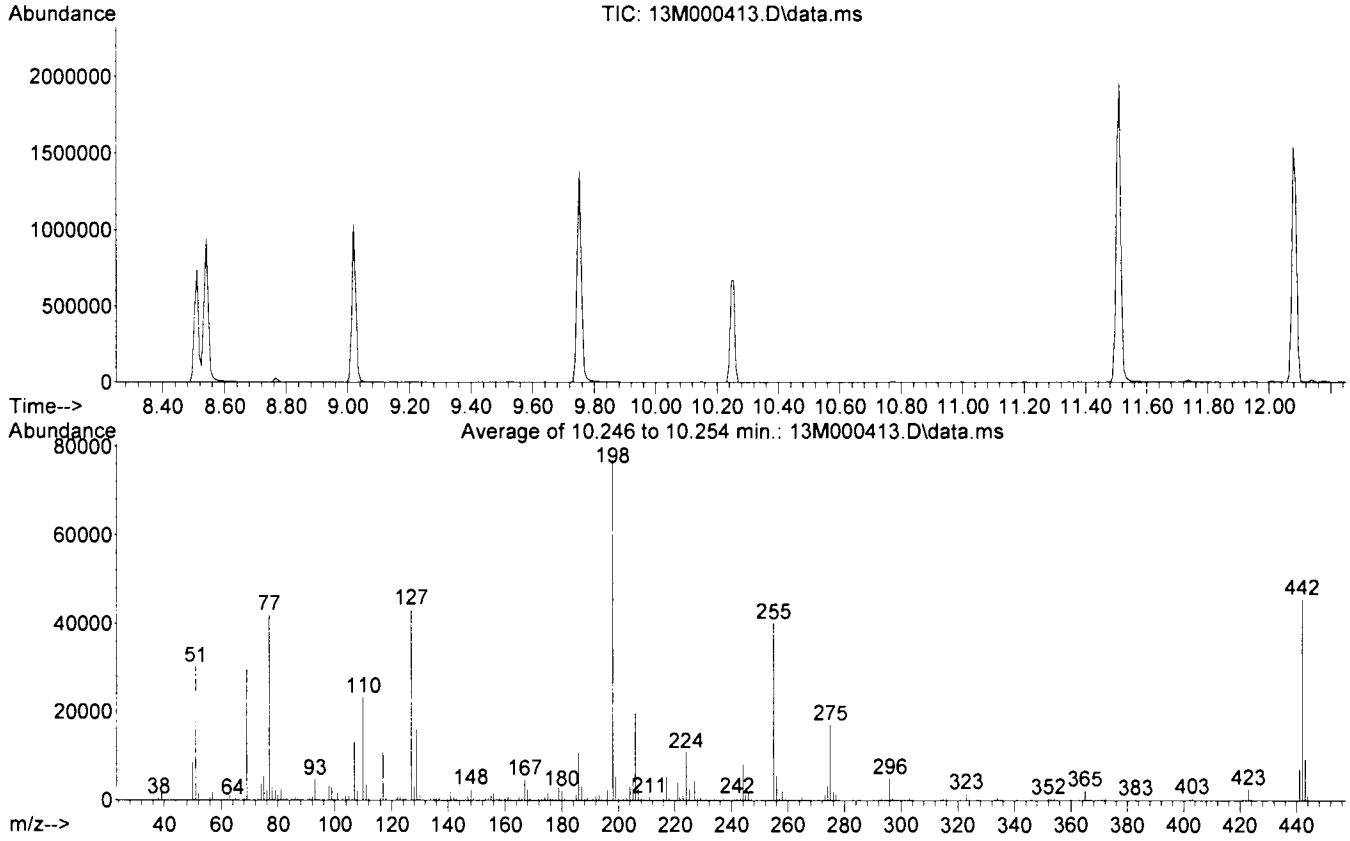
Data File	Sample Number	Analysis Date:
13M000414.D	CAL BNA 50PPM	12/18/23 12:27
13M000415.D	MBS-1	12/18/23 12:51
13M000416.D	MBS-2	12/18/23 13:13
13M000417.D	MBS-3	12/18/23 13:36
13M000418.D	MBS-4	12/18/23 13:58
13M000419.D	MBS-5	12/18/23 14:20
13M000420.D	WMB113532(MS)	12/18/23 18:19
13M000421.D	WMB113532	12/18/23 18:41
13M000422.D	AD41889-001(T)	12/18/23 19:03
13M000423.D	AD41889-001(T)(M	12/18/23 19:25
13M000424.D	AD41889-001(T)(M	12/18/23 19:47
13M000425.D	AD41889-004(T)	12/18/23 20:09
13M000426.D	AD41889-007(T)	12/18/23 20:31
13M000427.D	EF1 V-408776(12/1	12/18/23 20:53
13M000428.D	AD41956-001	12/18/23 21:15
13M000429.D	AD41896-001	12/18/23 21:37
13M000430.D	AD41883-001	12/18/23 21:58
13M000431.D	AD41883-002	12/18/23 22:20
13M000432.D	AD41883-003	12/18/23 22:42
13M000433.D	AD41883-004	12/18/23 23:04
13M000434.D	AD41883-005	12/18/23 23:26
13M000435.D	AD41900-001	12/18/23 23:48
13M000436.D	AD41900-002	12/19/23 00:10
13M000437.D	AD41900-003	12/19/23 00:32
13M000438.D	AD41895-017	12/19/23 00:54
13M000439.D	AD41916-002	12/19/23 01:16
13M000440.D	AD41945-001	12/19/23 01:38
13M000441.D	AD41921-001	12/19/23 02:00
13M000442.D	AD41925-014	12/19/23 02:22

DFTPP

Data Path : G:\GcMsData\2023\GCMS_13\Data\12-18-23\
Data File : 13M000413.D
Acq On : 18 Dec 2023 12:03
Operator : AH/JB/KT
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2023\GCMS_13\METHODQT\13M_1214.M
Title : @GCMS_13,mg,625,8270
Last Update : Sun Dec 17 17:23:29 2023



Spectrum Information: Average of 10.246 to 10.254 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.3	30232	PASS
68	69	0.00	2	1.7	505	PASS
69	198	0.00	100	38.5	29600	PASS
70	69	0.00	2	0.7	193	PASS
127	198	40	60	56.3	43288	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	76848	PASS
199	198	5	9	6.9	5293	PASS
275	198	10	30	22.2	17065	PASS
365	198	1	100	2.8	2160	PASS
441	443	0.01	100	76.0	7001	PASS
442	198	40	100	59.3	45552	PASS
443	442	17	23	20.2	9215	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 9M125917.D
Instrument: GCMS 9 **Analysis Date:** 12/19/23 10:13
Method: EPA 8270E
Tune Scan/Time Range: Average of 10.028 to 10.033 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	38.4	28192	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	37.8	27788	PASS
70	69	0.00	2	0.3	79	PASS
127	198	40	60	45.7	33552	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	73492	PASS
199	198	5	9	6.9	5059	PASS
275	198	10	30	24.5	18040	PASS
365	198	1	100	2.9	2152	PASS
441	443	0.01	100	79.5	8779	PASS
442	198	40	100	72.6	53352	PASS
443	442	17	23	20.7	11041	PASS

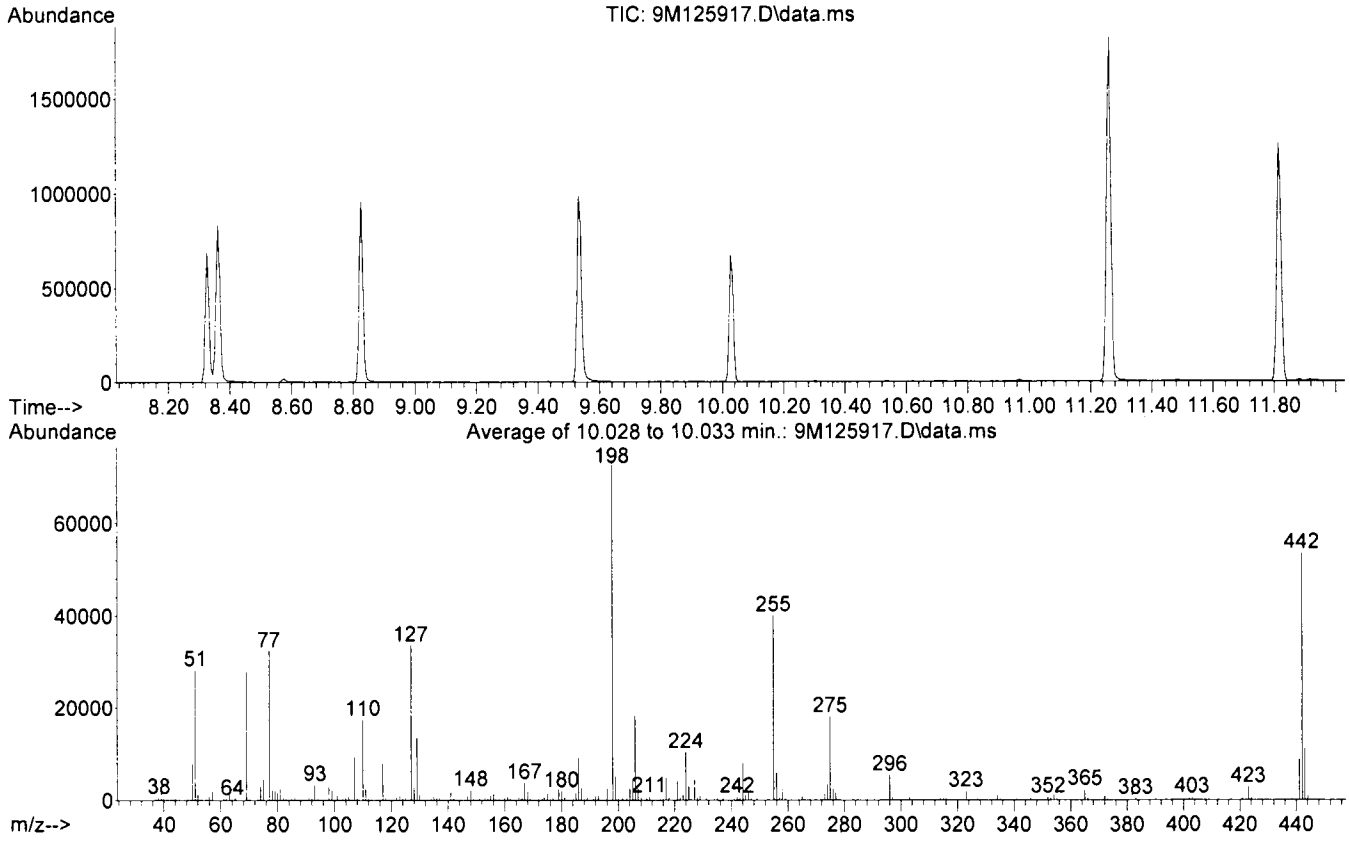
Data File	Sample Number	Analysis Date:
9M125918.D	CAL BNA 50PPM	12/19/23 10:37
9M125919.D	WMB113534	12/19/23 11:00
9M125920.D	WMB113532	12/19/23 11:24
9M125921.D	AD41925-014	12/19/23 11:47
9M125922.D	AD41893-003(30X)	12/19/23 12:10
9M125923.D	AD41900-002	12/19/23 12:33
9M125924.D	AD41900-003	12/19/23 12:57
9M125925.D	AD41895-017	12/19/23 13:20
9M125926.D	AD41916-002	12/19/23 13:44
9M125927.D	AD41945-001	12/19/23 14:07
9M125928.D	AD41921-001	12/19/23 14:30
9M125929.D	AD41893-001(30X)	12/19/23 15:53
9M125930.D	WMB113542(MS)	12/19/23 17:27
9M125931.D	WMB113542	12/19/23 17:50
9M125932.D	AD41988-001(T)	12/19/23 18:14
9M125933.D	AD41923-010(T)(R)	12/19/23 18:37
9M125934.D	AD41988-001(T)(M	12/19/23 19:00
9M125935.D	AD41988-001(T)(M	12/19/23 19:23
9M125936.D	AD41988-004(T)	12/19/23 19:47
9M125937.D	AD41988-007(T)	12/19/23 20:10
9M125938.D	AD41988-010(T)	12/19/23 20:33
9M125939.D	AD41988-013(T)	12/19/23 20:56
9M125940.D	AD41988-019(T)	12/19/23 21:20
9M125941.D	AD41988-016(T)	12/19/23 21:43
9M125942.D	EF1 V-409413(12/1	12/19/23 22:06

DFTPP

Data Path : G:\GcMsData\2023\GCMS_9\Data\12-19-23\
Data File : 9M125917.D
Acq On : 19 Dec 2023 10:13
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2023\GCMS_9\METHODQT\9M_1217.M
Title : @GCMS_9,mg,625,8270
Last Update : Sun Dec 17 18:34:56 2023



Spectrum Information: Average of 10.028 to 10.033 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	38.4	28192	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	37.8	27788	PASS
70	69	0.00	2	0.3	79	PASS
127	198	40	60	45.7	33552	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	73492	PASS
199	198	5	9	6.9	5059	PASS
275	198	10	30	24.5	18040	PASS
365	198	1	100	2.9	2152	PASS
441	443	0.01	100	79.5	8779	PASS
442	198	40	100	72.6	53352	PASS
443	442	17	23	20.7	11041	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 7M133885.D
Instrument: GCMS 7 **Analysis Date:** 12/19/23 12:21
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.232 to 10.238 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	35.1	32184	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	40.6	37216	PASS
70	69	0.00	2	0.5	195	PASS
127	198	40	60	52.0	47712	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	91708	PASS
199	198	5	9	7.2	6589	PASS
275	198	10	30	23.9	21905	PASS
365	198	1	100	2.7	2488	PASS
441	443	0.01	100	80.0	9208	PASS
442	198	40	100	63.0	57740	PASS
443	442	17	23	19.9	11511	PASS

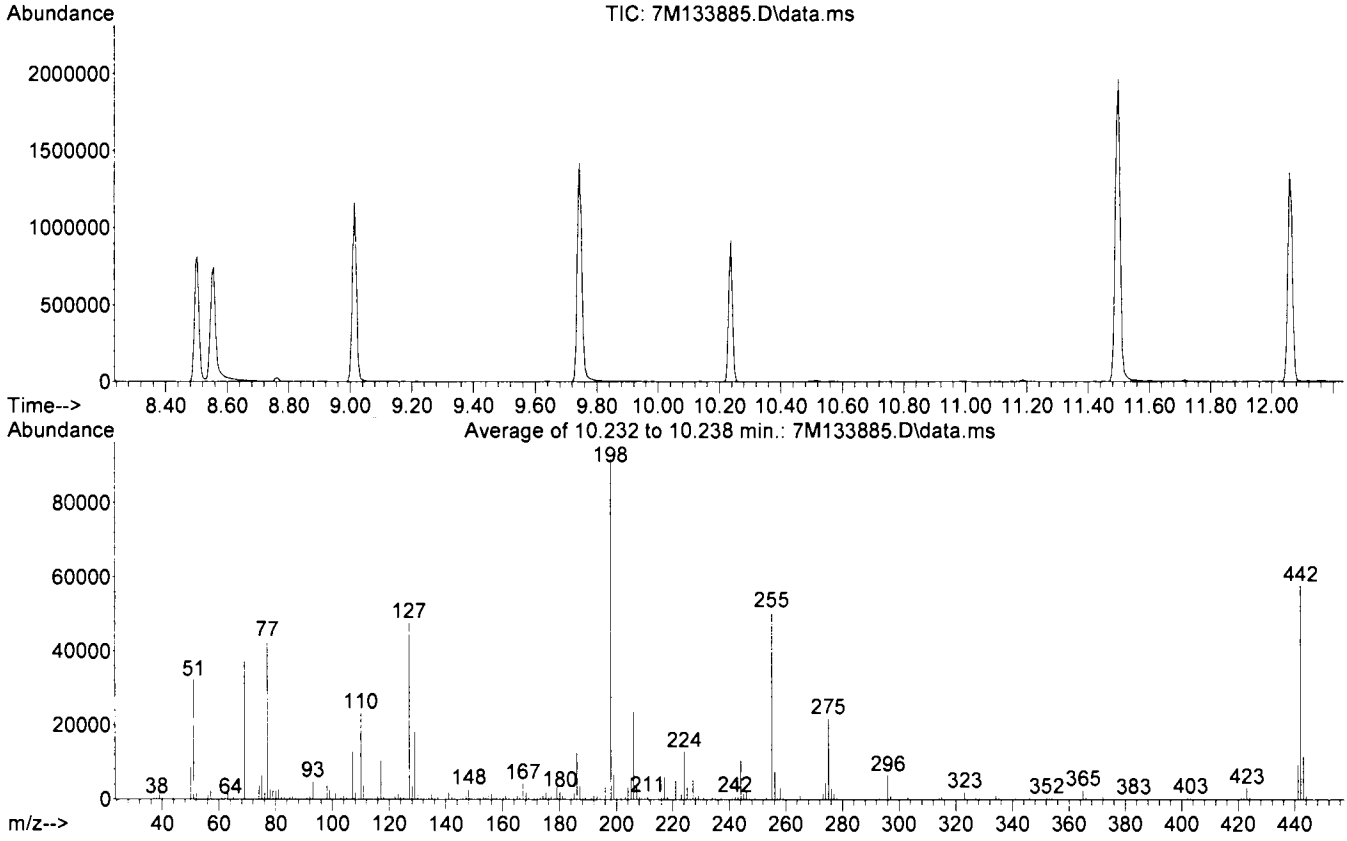
Data File	Sample Number	Analysis Date:
7M133886.D	CAL BNA 50PPM	12/19/23 12:48
7M133887.D	OMB113537(MS)	12/19/23 13:16
7M133888.D	OMB113537	12/19/23 13:39
7M133889.D	MBS-1	12/19/23 14:03
7M133890.D	MBS-2	12/19/23 14:27
7M133891.D	MBS-3	12/19/23 14:51
7M133892.D	MBS-4	12/19/23 15:14
7M133893.D	SMB113541(MS)	12/19/23 16:21
7M133894.D	SMB113541	12/19/23 16:44
7M133895.D	AD41891-004	12/19/23 17:33
7M133896.D	AD41891-008	12/19/23 17:57
7M133897.D	AD41939-001	12/19/23 18:20
7M133898.D	AD41941-003	12/19/23 18:44
7M133899.D	AD41960-001	12/19/23 19:07
7M133900.D	AD41964-001	12/19/23 19:31
7M133901.D	AD41933-002	12/19/23 19:54
7M133902.D	AD41933-001	12/19/23 20:18
7M133903.D	AD41925-013	12/19/23 20:42
7M133904.D	AD41918-002	12/19/23 21:05
7M133905.D	AD41943-034	12/19/23 21:29
7M133906.D	AD41943-036	12/19/23 21:53

DFTPP

Data Path : G:\GcMsData\2023\GCMS_7\Data\12-19-23\
Data File : 7M133885.D
Acq On : 19 Dec 2023 12:21
Operator : AH/JB/KT
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2023\GCMS_7\METHODQT\7M_1217.M
Title : @GCMS_7,mg,625,8270
Last Update : Sun Dec 17 19:15:23 2023



Spectrum Information: Average of 10.232 to 10.238 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.1	32184	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	40.6	37216	PASS
70	69	0.00	2	0.5	195	PASS
127	198	40	60	52.0	47712	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	91708	PASS
199	198	5	9	7.2	6589	PASS
275	198	10	30	23.9	21905	PASS
365	198	1	100	2.7	2488	PASS
441	443	0.01	100	80.0	9208	PASS
442	198	40	100	63.0	57740	PASS
443	442	17	23	19.9	11511	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 7
Data File: 7M133931.D
Analysis Date: 12/22/23 10:21
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.238 to 10.244 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	40.6	25516	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	46.6	29284	PASS
70	69	0.00	2	0.7	211	PASS
127	198	40	60	53.8	33760	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	62792	PASS
199	198	5	9	7.3	4596	PASS
275	198	10	30	22.3	14030	PASS
365	198	1	100	2.4	1508	PASS
441	443	0.01	100	76.2	4885	PASS
442	198	40	100	48.9	30731	PASS
443	442	17	23	20.9	6410	PASS

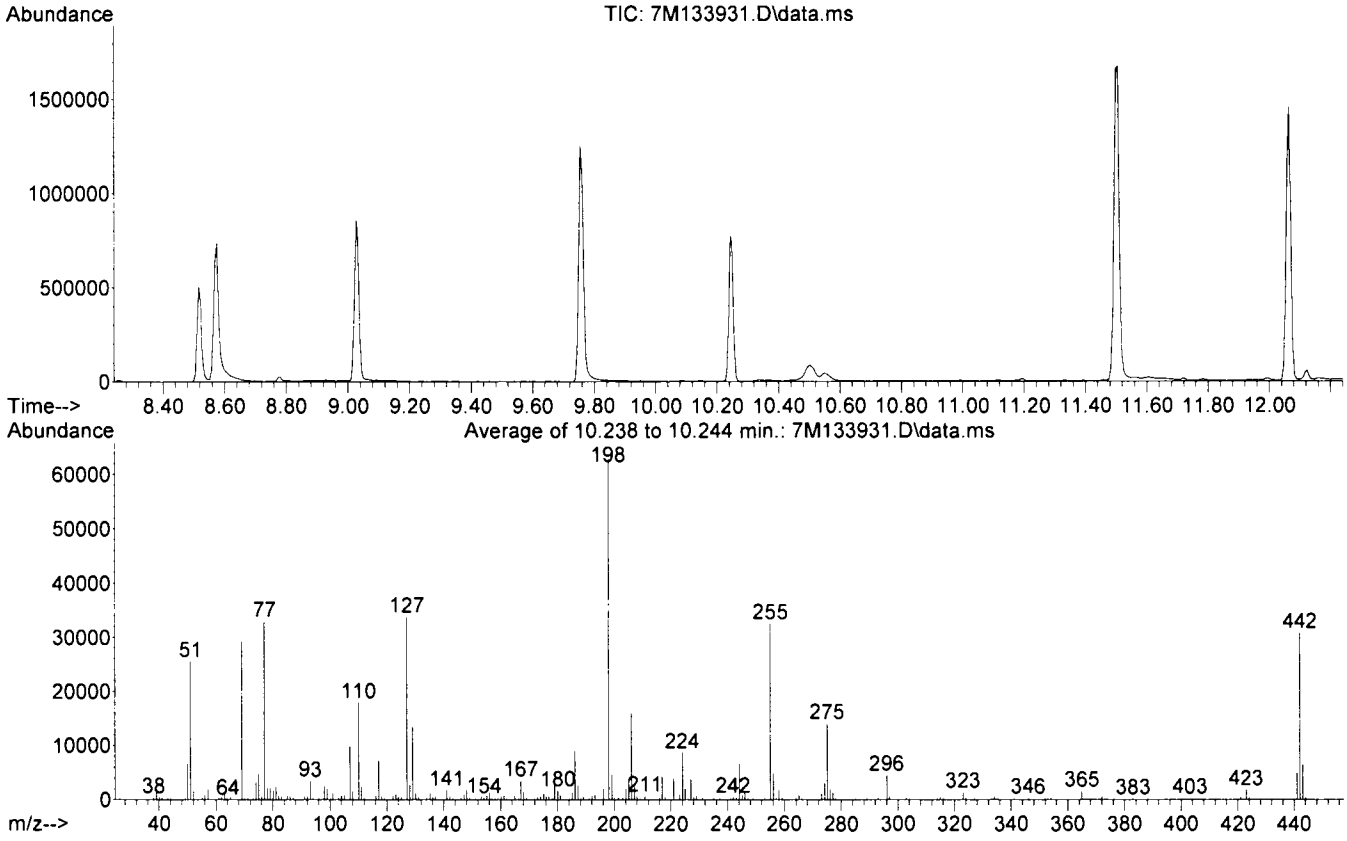
Data File	Sample Number	Analysis Date:
7M133932.D	CAL BNA 50PPM	12/22/23 10:44
7M133933.D	TEST	12/22/23 11:08
7M133934.D	WMB113490(MS)	12/22/23 11:41
7M133935.D	WMB113490	12/22/23 12:05
7M133936.D	AD41800-009	12/22/23 12:29
7M133937.D	AD41800-001	12/22/23 12:53
7M133938.D	AD41800-003(10X)	12/22/23 13:17
7M133939.D	AD41800-004(10X)	12/22/23 13:40
7M133940.D	AD41800-006	12/22/23 14:04
7M133941.D	AD41800-007	12/22/23 14:28
7M133942.D	AD41800-001(MS)	12/22/23 14:52
7M133943.D	AD41800-001(MSD	12/22/23 15:16
7M133944.D	SMB113572(MS)	12/22/23 16:25
7M133945.D	SMB113572	12/22/23 16:48

DFTPP

Data Path : G:\GcMsData\2023\GCMS_7\Data\12-22-23\
Data File : 7M133931.D
Acq On : 22 Dec 2023 10:21
Operator : AH/JB/KT
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2023\GCMS_7\METHODQT\7M_1217.M
Title : @GCMS_7,mg,625,8270
Last Update : Sun Dec 17 19:15:23 2023



Spectrum Information: Average of 10.238 to 10.244 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	40.6	25516	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	46.6	29284	PASS
70	69	0.00	2	0.7	211	PASS
127	198	40	60	53.8	33760	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	62792	PASS
199	198	5	9	7.3	4596	PASS
275	198	10	30	22.3	14030	PASS
365	198	1	100	2.4	1508	PASS
441	443	0.01	100	76.2	4885	PASS
442	198	40	100	48.9	30731	PASS
443	442	17	23	20.9	6410	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 5M126650.D
Instrument: GCMS 5 **Analysis Date:** 12/22/23 14:12
Method: EPA 8270E

Tune Scan/Time Range: Average of 9.831 to 9.841 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	37.9	11501	PASS
68	69	0.00	2	1.6	238	PASS
69	198	0.00	100	48.3	14677	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	43.4	13179	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	30374	PASS
199	198	5	9	7.5	2263	PASS
275	198	10	30	26.9	8173	PASS
365	198	1	100	3.6	1083	PASS
441	443	0.01	100	61.9	2049	PASS
442	198	40	100	51.3	15595	PASS
443	442	17	23	21.2	3308	PASS

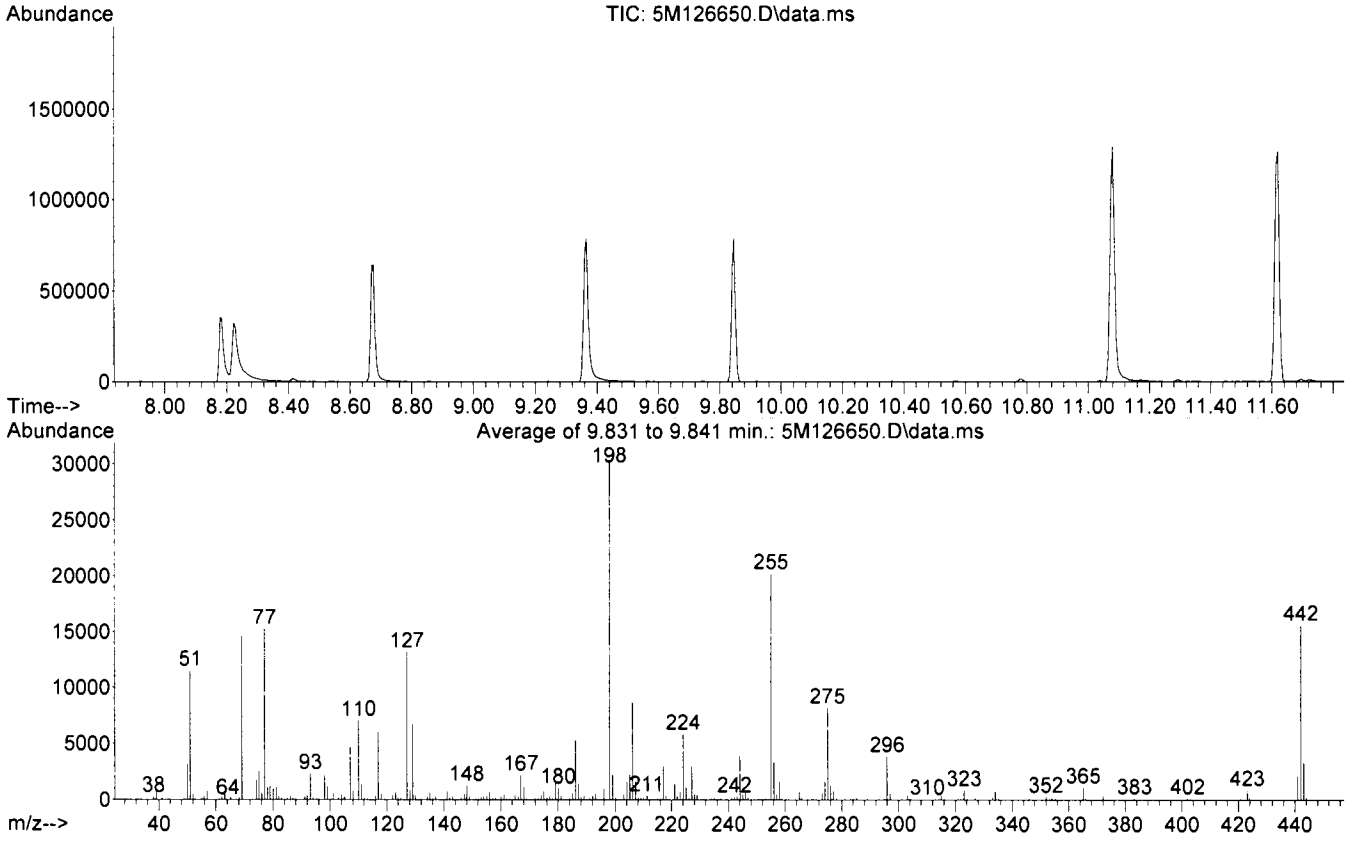
Data File	Sample Number	Analysis Date:
5M126651.D	TEST	12/22/23 15:08
5M126652.D	CAL BNA 50PPM	12/22/23 15:39
5M126653.D	CAL BNA 50PPM	12/22/23 16:03
5M126654.D	SMB113572	12/22/23 16:34
5M126655.D	AD41812-004(5X)	12/22/23 16:58
5M126656.D	AD41812-005(5X)	12/22/23 17:22
5M126657.D	AD41925-001(3X)	12/22/23 17:46
5M126658.D	AD41925-002	12/22/23 18:10
5M126659.D	AD41944-004	12/22/23 18:34
5M126660.D	AD41944-004(MS)	12/22/23 18:57
5M126661.D	AD41944-004(MSD	12/22/23 19:21
5M126662.D	AD41925-005(3X)	12/22/23 19:45
5M126663.D	AD41925-003	12/22/23 20:09
5M126664.D	AD41925-004	12/22/23 20:33
5M126665.D	AD41925-006	12/22/23 20:57
5M126666.D	AD41925-007	12/22/23 21:21
5M126667.D	AD41925-008	12/22/23 21:44
5M126668.D	AD41925-009	12/22/23 22:08
5M126669.D	AD41925-010	12/22/23 22:32
5M126670.D	AD41925-011	12/22/23 22:56
5M126671.D	AD41925-012	12/22/23 23:20
5M126672.D	AD41974-001	12/22/23 23:44
5M126673.D	AD42062-001	12/23/23 00:08

DFTPP

Data Path : G:\GcMsData\2023\GCMS_5\Data\12-2223\
Data File : 5M126650.D
Acq On : 22 Dec 2023 14:12
Operator : AH/JB/KT
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2023\GCMS_5\METHODQT\5M_1019.M
Title : @GCMS_5,mg,625,8270
Last Update : Fri Oct 20 09:38:00 2023



Spectrum Information: Average of 9.831 to 9.841 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.9	11501	PASS
68	69	0.00	2	1.6	238	PASS
69	198	0.00	100	48.3	14677	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	43.4	13179	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	30374	PASS
199	198	5	9	7.5	2263	PASS
275	198	10	30	26.9	8173	PASS
365	198	1	100	3.6	1083	PASS
441	443	0.01	100	61.9	2049	PASS
442	198	40	100	51.3	15595	PASS
443	442	17	23	21.2	3308	PASS

3121329 0270

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_5

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	5M125271.D	CAL BNA@50PPM	10/19/23 12:05	2	5M125273.D	CAL BNA@2PPM	10/19/23 12:52
3	5M125272.D	CAL BNA@10PPM	10/19/23 12:29	4	5M125275.D	CAL BNA@20PPM	10/19/23 13:40
5	5M125270.D	CAL BNA@80PPM	10/19/23 11:40	6	5M125269.D	CAL BNA@120PPM	10/19/23 11:17
7	5M125268.D	CAL BNA@160PPM	10/19/23 10:53	8	5M125267.D	CAL BNA@196PPM	10/19/23 10:29
9	5M125274.D	CAL BNA@0.5PPM	10/19/23 13:17				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Avg	0.9450	0.6383	0.8743	1.0582	0.9491	0.9313	0.9454	1.0047	0.5755	0.880	2.48	0.998	0.999	19		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	1.8212	1.3101	1.5159	1.8086	1.8272	1.8409	2.0732	2.1782	-----	1.80	2.90	0.992	0.999	15		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.2158	1.3631	1.0850	1.2265	1.2480	1.2854	1.4445	1.4874	-----	1.29	2.84	0.993	0.999	10		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	1.4077	1.4243	1.2034	1.3176	1.4051	1.4402	1.6263	1.6377	-----	1.43	4.50	0.995	0.999	10		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Qua	1.0954	1.0705	0.8054	0.9519	0.8183	0.6934	0.6559	0.4943	-----	0.823	5.33	0.934	0.990	25	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	1.8958	1.9775	1.4783	1.8011	1.7982	1.7723	1.9795	1.9066	1.8480	1.83	5.43	0.998	0.998	8.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.5434	0.5653	0.4806	0.5096	0.4821	0.4980	0.5625	0.5450	-----	0.523	5.46	0.995	0.997	6.7	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	1.5352	1.8984	1.3485	1.5092	1.3994	1.3572	1.5880	1.4879	1.9327	1.56	5.49	0.994	0.995	14	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	1.7736	1.8369	1.5759	1.7487	1.7436	1.7294	1.9888	1.9270	-----	1.79	5.39	0.995	0.997	7.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	2.0774	2.2921	1.7958	2.0734	2.0324	1.9568	2.3094	2.2012	-----	2.09	5.40	0.995	0.997	8.3	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	1.7326	1.7061	1.4652	1.5965	1.5749	1.5437	1.6505	1.6667	-----	1.62	5.52	0.998	0.999	5.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	1.4536	1.6071	1.3103	1.3990	1.3104	1.2589	1.3829	1.3446	-----	1.38	5.58	0.997	0.998	7.9	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	2.0865	2.3536	1.7944	1.9640	1.9198	1.8309	2.0435	2.0194	-----	2.00	5.66	0.997	0.997	8.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.4194	1.5985	1.3714	1.3675	1.4309	1.4090	1.4134	1.5026	-----	1.44	5.72	0.998	0.999	5.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.4316	1.4554	1.2727	1.3009	1.4326	1.3195	1.3210	1.4212	-----	1.37	5.85	0.997	0.997	5.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.7790	0.7112	0.6412	0.6823	0.7972	0.7415	0.7698	0.7902	-----	0.739	5.82	0.999	0.999	7.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.0436	1.1360	1.0857	1.0457	1.1398	1.0690	1.0767	1.0905	-----	1.09	5.93	0.999	0.999	3.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.0249	0.9813	0.9161	0.9282	1.0146	0.9775	1.0019	1.0208	0.9459	0.979	5.91	0.999	1.00	4.2	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.4371	1.5443	1.4119	1.4388	1.5652	1.5053	1.5044	1.5893	-----	1.50	6.04	0.999	0.999	4.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.4911	0.4993	0.4705	0.4860	0.5312	0.4984	0.4772	0.5351	-----	0.499	6.12	0.994	0.995	4.7	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.7786	0.8031	0.7221	0.7699	0.8542	0.8243	0.8176	0.8728	0.7810	0.803	6.04	0.998	0.999	5.7	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	0.9697	1.0109	0.9359	0.9855	1.0731	1.0252	1.0163	1.0846	0.9901	1.01	6.04	0.998	0.999	4.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1412	0.1131	0.1228	0.1303	0.1479	0.1425	0.1366	0.1512	-----	0.136	6.16	0.998	0.998	9.5		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3439	0.3371	0.3067	0.3330	0.3530	0.3353	0.3262	0.3567	-----	0.337	6.17	0.996	0.997	4.7	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.5849	0.5665	0.5528	0.5808	0.6496	0.6218	0.6022	0.6613	-----	0.603	6.36	0.996	0.997	6.5	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1741	0.1344	0.1502	0.1664	0.2016	0.1862	0.1789	0.1968	-----	0.174	6.43	0.997	0.997	13	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.2302	0.2114	0.1958	0.2203	0.2512	0.2303	0.2176	0.2409	0.2165	0.224	6.45	0.995	0.995	7.4	0.20 a	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.2094	-----	0.1021	0.1191	0.2512	0.2572	0.2488	0.2795	-----	0.210	6.52	0.994	0.996	34		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.3170	0.3563	0.3251	0.3271	0.3734	0.3427	0.3252	0.3587	-----	0.341	6.53	0.995	0.995	5.9	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.3179	0.2752	0.2622	0.2987	0.3505	0.3207	0.3044	0.3365	0.2505	0.302	6.61	0.995	0.995	11	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.3565	0.3989	0.3398	0.3751	0.4123	0.3783	0.3698	0.3971	-----	0.379	6.67	0.997	0.997	6.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	0.9413	1.0392	0.8905	0.9443	0.9424	0.9215	0.9098	0.9644	1.1791	0.970	6.74	0.999	0.999	9.2	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.3439	0.3340	0.2883	0.3437	0.3706	0.3332	0.2964	0.3125	0.3179	0.327	6.77	0.992	0.995	7.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.2413	0.2674	0.2153	0.2321	0.2613	0.2534	0.2469	0.2771	-----	0.249	6.83	0.994	0.996	8.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.0906	0.0575	0.0730	0.0831	0.1012	0.1048	0.0991	0.1063	-----	0.0895	7.04	0.998	0.998	19	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2703	0.2360	0.2444	0.2683	0.3018	0.2980	0.2834	0.3027	-----	0.276	7.13	0.998	0.999	9.3	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.6651	0.6835	0.6376	0.6790	0.7439	0.7586	0.6476	0.7108	-----	0.691	7.26	0.992	0.993	6.3	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.5838	0.6608	0.5998	0.6301	0.6541	0.6980	0.6057	0.6566	-----	0.636	7.34	0.994	0.994	6.0	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	0.6282	0.6721	0.6187	0.6579	0.7033	0.7348	0.6269	0.6890	-----	0.666	7.26	0.996	0.996	6.2		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.8431	0.8710	0.7697	0.8367	0.8686	0.8973	0.8259	0.8894	-----	0.850	7.63	0.997	0.997	4.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.6174	0.7479	0.5786	0.6562	0.6429	0.7306	0.7132	0.7470	-----	0.679	7.39	0.997	0.999	9.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.445

Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

3121329 0271

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_5

Level #	Data File:	Cal Identifier:	Analysis Date/Time	Level #	Data File:	Cal Identifier:	Analysis Date/Time
1	5M125271.D	CAL BNA@50PPM	10/19/23 12:05	2	5M125273.D	CAL BNA@2PPM	10/19/23 12:52
3	5M125272.D	CAL BNA@10PPM	10/19/23 12:29	4	5M125275.D	CAL BNA@20PPM	10/19/23 13:40
5	5M125270.D	CAL BNA@80PPM	10/19/23 11:40	6	5M125269.D	CAL BNA@120PPM	10/19/23 11:17
7	5M125268.D	CAL BNA@160PPM	10/19/23 10:53	8	5M125267.D	CAL BNA@196PPM	10/19/23 10:29
9	5M125274.D	CAL BNA@0.5PPM	10/19/23 13:17				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Avg	0.2462	0.2171	0.2196	0.2489	0.2822	0.3161	0.3045	0.3217	-----	0.270	7.38	0.996	0.998	16	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.3655	0.3011	0.3295	0.3705	0.3391	0.4331	0.4267	0.4590	-----	0.378	7.48	0.991	0.997	15	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.4110	0.3587	0.3309	0.3892	0.3697	0.4451	0.4388	0.4284	-----	0.396	7.51	0.996	0.997	10	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.2070	1.3816	1.1902	1.2800	1.2256	1.3672	1.3470	1.3821	-----	1.30	7.55	0.997	0.999	6.3		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.0926	1.1853	1.0170	1.1152	1.0692	1.1708	1.0881	1.1515	-----	1.11	7.65	0.998	0.998	5.1	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	0.7696	0.8667	0.7500	0.8174	0.7872	0.8189	0.7479	0.8325	-----	0.799	7.93	0.995	0.996	5.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	0.7696	0.8667	0.7500	0.8174	0.7872	0.8189	0.7479	0.8325	-----	0.799	7.93	0.995	0.996	5.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.7332	0.8493	0.7289	0.8144	0.7921	0.8657	0.8098	0.8403	-----	0.804	7.72	0.998	0.998	6.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.3402	0.3069	0.3003	0.3370	0.3425	0.3648	0.3479	0.3711	-----	0.339	7.73	0.998	0.999	7.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.3768	0.3657	0.3464	0.3904	0.3837	0.4131	0.3574	0.3978	-----	0.379	7.92	0.993	0.993	5.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.6089	1.6703	1.4535	1.6420	1.6094	1.7488	1.5361	1.6796	-----	1.62	8.01	0.995	0.995	5.6	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.2473	1.3505	1.1613	1.2700	1.2823	1.3562	1.2176	1.3446	-----	1.28	7.88	0.995	0.996	5.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.2599	0.2314	0.2446	0.2774	0.2755	0.2831	0.2638	0.2937	-----	0.266	7.94	0.995	0.996	7.8	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.0473	1.1190	0.9901	1.0387	1.0314	1.0767	1.0644	1.1078	-----	1.06	8.16	0.999	1.00	4.0	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.2729	0.2494	0.2210	0.2646	0.2733	0.2698	0.2637	0.2640	-----	0.260	8.08	1.00	1.00	6.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1797	-----	0.0845	0.1173	0.1891	0.2246	0.2180	0.2317	-----	0.178	8.17	0.996	0.998	32	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.6283	1.7837	1.4118	1.5833	1.6075	1.6511	1.5598	1.6483	1.9935	1.65	8.31	0.999	0.999	9.7	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Avg	0.3925	0.2817	0.3169	0.3667	0.3912	0.4157	0.4021	0.4203	-----	0.373	8.28	0.999	0.999	13	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Avg	0.2254	0.1271	0.1755	0.2028	0.2245	0.2434	0.2370	0.2400	-----	0.209	8.21	0.999	0.999	19	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3816	0.2791	0.3051	0.3431	0.3723	0.4074	0.3943	0.4164	-----	0.362	8.42	0.998	0.999	14	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.3004	1.3072	1.1359	1.2805	1.2372	1.3562	1.2864	1.3741	-----	1.28	8.63	0.997	0.998	5.8	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.6806	0.6808	0.5948	0.6593	0.6446	0.7496	0.7167	0.7856	-----	0.689	8.62	0.994	0.998	8.8	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.2696	1.2153	1.0885	1.2041	1.1816	1.3387	1.1989	1.3138	-----	1.23	8.50	0.995	0.995	6.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.2969	0.2181	0.2220	0.2821	0.2826	0.2998	0.2912	0.3113	-----	0.276	8.64	0.998	0.999	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.3741	0.3588	0.3294	0.3973	0.3991	0.4190	0.4151	0.4341	-----	0.391	9.26	0.998	0.999	8.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.1362	-----	0.0817	0.0948	0.1326	0.1381	0.1414	0.1488	-----	0.125	8.66	0.998	0.999	21	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.5552	0.5649	0.4940	0.4992	0.4850	0.5431	0.5630	0.5837	-----	0.536	8.73	0.996	0.999	7.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Avg	0.1312	0.0881	0.0921	0.0934	0.1030	0.1202	0.1128	0.1249	-----	0.108	8.86	0.992	0.994	15		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.6145	0.6143	0.5737	0.5711	0.5558	0.6107	0.6243	0.6559	-----	0.603	8.78	0.997	0.999	5.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2214	0.2108	0.1827	0.1936	0.2108	0.2361	0.2202	0.2438	-----	0.215	9.11	0.995	0.997	9.4	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2610	0.2645	0.2151	0.2131	0.2415	0.2321	0.2385	0.2586	-----	0.241	9.17	0.995	0.997	8.3	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.2699	0.2366	0.2347	0.2680	0.2765	0.2804	0.2608	0.2824	-----	0.264	9.44	0.997	0.997	7.1	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Qua	0.1482	-----	0.0981	0.1273	0.1662	0.1673	0.1775	0.1822	-----	0.152	9.36	0.998	1.00	20	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.0429	1.0219	0.8842	0.9400	0.8843	0.9976	1.0028	1.0268	-----	0.975	9.60	0.997	0.998	6.5	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.0438	0.9365	0.8594	0.9651	0.9862	0.9660	0.9322	1.0181	-----	0.963	9.66	0.996	0.997	5.9	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	0.9928	0.8355	0.7878	0.9198	0.9344	0.8586	0.8811	0.9586	-----	0.896	9.82	0.995	0.996	7.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Avg	1.1898	0.7606	0.8437	1.0258	1.1001	1.0503	1.0499	1.1622	0.7648	0.994	10.21	0.995	0.996	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.1317	1.0747	0.9891	1.1691	1.1697	1.2785	1.1602	1.2798	-----	1.16	10.92	0.995	0.996	8.4	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.2232	1.2047	1.0645	1.1692	1.2026	1.3440	1.2617	1.2921	-----	1.22	11.19	0.998	0.998	6.9	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Avg	0.4711	0.4280	0.2946	0.3972	0.4145	0.3918	0.3373	0.3280	-----	0.383	11.08	0.979	0.997	15		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.8633	0.8624	0.7509	0.8524	0.8473	0.8858	0.8346	0.9169	-----	0.852	11.37	0.996	0.997	5.6		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.445

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

3121329 0272

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_5

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	5M125271.D	CAL BNA@50PPM	10/19/23 12:05	2	5M125273.D	CAL BNA@2PPM	10/19/23 12:52
3	5M125272.D	CAL BNA@10PPM	10/19/23 12:29	4	5M125275.D	CAL BNA@20PPM	10/19/23 13:40
5	5M125270.D	CAL BNA@80PPM	10/19/23 11:40	6	5M125269.D	CAL BNA@120PPM	10/19/23 11:17
7	5M125268.D	CAL BNA@160PPM	10/19/23 10:53	8	5M125267.D	CAL BNA@196PPM	10/19/23 10:29
9	5M125274.D	CAL BNA@0.5PPM	10/19/23 13:17				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2860	0.2827	0.2394	0.2723	0.2783	0.2953	0.2875	0.3177	-----	0.282	11.31	0.995	0.998	7.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4507	0.3670	0.3666	0.3871	0.4517	0.5034	0.4412	0.5044	-----	0.434	11.71	0.995	0.996	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Qua	0.4721	0.2676	0.3375	0.3680	0.4772	0.5366	0.4800	0.5269	-----	0.433	11.97	0.995	0.995	22	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.4100	0.2870	0.3167	0.3387	0.4070	0.4762	0.4107	0.4662	-----	0.389	12.07	0.991	0.992	18		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Avg	0.4219	0.3431	0.3108	0.3649	0.4271	0.4618	0.4232	0.4172	-----	0.396	12.58	0.996	0.998	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.2506	1.3033	1.1151	1.2065	1.2701	1.3305	1.2696	1.3338	-----	1.26	12.61	0.999	0.999	5.7	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.1617	1.2091	1.0115	1.0656	1.1516	1.2368	1.1807	1.3235	-----	1.17	12.65	0.994	0.997	8.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Avg	0.6470	0.4269	0.4884	0.5329	0.6484	0.6869	0.6257	0.6982	-----	0.594	12.67	0.995	0.996	17	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Qua	1.1473	0.5844	0.7751	0.9621	1.1116	1.1805	1.1953	1.3165	-----	1.03	13.41	0.994	0.999	24	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.2282	1.1165	1.0234	1.1933	1.1818	1.2286	1.1530	1.3053	-----	1.18	13.81	0.997	0.998	7.2	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.2309	1.1285	1.0815	1.2386	1.0783	1.1777	1.1880	1.3698	-----	1.19	13.85	0.987	0.996	8.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.1304	0.9910	0.9299	1.0862	1.1035	1.1509	1.1201	1.2635	-----	1.10	14.16	0.996	0.998	9.2	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.6581	1.1749	1.1644	1.4165	1.3299	1.4755	1.3221	1.5305	-----	1.38	15.46	0.993	0.993	12	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.3504	0.9552	0.9395	1.1763	1.0866	1.2132	1.0900	1.2385	-----	1.13	15.49	0.991	0.991	12	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	1.2675	0.9624	0.9077	1.0589	0.9694	1.1701	1.0904	1.1803	-----	1.08	15.82	0.993	0.994	12	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 9.445
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

3121329 0273

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_13

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	13M000398.D	CAL BNA 50PPM	12/17/23 14:31	2	13M000401.D	CAL BNA 2PPM	12/17/23 15:36
3	13M000400.D	CAL BNA10PPM	12/17/23 15:14	4	13M000399.D	CAL BNA 20PPM	12/17/23 14:53
5	13M000397.D	CAL BNA 80PPM	12/17/23 14:09	6	13M000396.D	CAL BNA 120PPM	12/17/23 13:47
7	13M000395.D	CAL BNA 160PPM	12/17/23 13:25	8	13M000394.D	CAL BNA196PPM	12/17/23 13:03
9	13M000402.D	CAL BNA 0.5PPM	12/17/23 15:58				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Avg	0.9448	1.1173	0.9507	1.1288	0.9282	0.9434	0.9294	0.8917	1.1797	1.00	2.89	0.999	0.999	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	2.0175	1.5756	1.9999	2.1110	2.0321	2.0035	2.0025	1.9295	-----	1.96	3.35	0.999	1.00	8.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.1642	1.0117	1.1271	1.2285	1.1499	1.1882	1.1605	1.1310	-----	1.15	3.29	0.999	1.00	5.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.5008	2.2657	2.4150	2.6039	2.5249	2.5765	2.5475	2.4331	-----	2.48	4.81	0.999	0.999	4.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	1.7646	1.5562	1.7057	1.8257	1.7562	1.7616	1.7430	1.6517	-----	1.72	5.63	0.999	1.00	4.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	3.7300	3.3904	3.7096	3.9521	3.7445	3.8377	3.7377	3.5513	4.4297	3.79	5.72	0.998	0.999	7.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.9135	0.9716	0.9425	0.9931	0.9377	0.9575	0.9416	0.8929	-----	0.944	5.76	0.998	0.999	3.3	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	2.6116	2.6302	2.6957	2.8116	2.6342	2.6078	2.5782	2.4256	3.6172	2.73	5.77	0.998	0.999	13	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	3.1112	2.6594	2.9833	3.2860	3.1503	3.2305	3.1902	3.0255	-----	3.08	5.67	0.998	0.999	6.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.3385	3.0360	3.3085	3.5447	3.3775	3.4518	3.3722	3.2677	-----	3.34	5.68	0.999	1.00	4.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.4214	2.2108	2.3493	2.5288	2.4355	2.4519	2.4077	2.2678	-----	2.38	5.82	0.999	1.00	4.3	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	1.8415	1.8455	1.8217	1.9249	1.8036	1.8513	1.8317	1.8301	-----	1.84	5.85	1.00	1.00	2.0	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	2.6030	2.6723	2.6920	2.7690	2.5798	2.6294	2.5613	2.3844	-----	2.61	5.95	0.996	0.999	4.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.4383	1.4754	1.4597	1.5363	1.4113	1.4102	1.4274	1.3672	-----	1.44	6.01	0.999	0.999	3.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.3360	1.3992	1.3966	1.4294	1.3288	1.3487	1.3365	1.2893	-----	1.36	6.14	0.999	1.00	3.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.9454	0.7650	0.8996	0.9683	0.9266	0.9502	0.9613	0.9272	-----	0.918	6.10	1.00	1.00	7.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	0.9738	0.9498	0.9668	1.0394	0.9395	0.9519	0.9608	0.9581	-----	0.968	6.21	1.00	1.00	3.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.3047	1.0204	1.2592	1.3672	1.2734	1.3018	1.2839	1.2286	1.5340	1.29	6.19	0.999	1.00	10	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	2.0588	1.8455	2.0411	2.1973	2.0593	2.1263	2.1564	2.0771	-----	2.07	6.32	0.999	0.999	5.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.6183	0.6413	0.6145	0.6488	0.6104	0.6151	0.6073	0.5876	-----	0.618	6.41	0.999	1.00	3.1	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.7572	0.6705	0.7081	0.7668	0.7457	0.7799	0.8086	0.7995	0.6227	0.740	6.32	0.999	1.00	8.3	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.3969	1.0932	1.3213	1.4313	1.3895	1.4536	1.4672	1.4163	1.2833	1.36	6.31	0.999	0.999	8.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1745	0.1420	0.1650	0.1776	0.1735	0.1786	0.1790	0.1732	-----	0.170	6.45	1.00	1.00	7.2		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3183	0.2887	0.3079	0.3293	0.3145	0.3170	0.3198	0.3149	-----	0.314	6.46	1.00	1.00	3.8	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6252	0.5430	0.5965	0.6441	0.6209	0.6350	0.6326	0.6214	-----	0.615	6.64	1.00	1.00	5.2	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1819	0.1398	0.1653	0.1751	0.1837	0.1878	0.1880	0.1814	-----	0.175	6.71	1.00	1.00	9.2	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.3333	0.2662	0.3197	0.3444	0.3321	0.3344	0.3415	0.3336	0.3261	0.326	6.72	1.00	1.00	7.2	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.2489	-----	0.1501	0.2033	0.2707	0.2915	0.3022	0.2929	-----	0.251	6.77	0.999	0.999	22		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.4251	0.4054	0.4307	0.4519	0.4262	0.4373	0.4386	0.4253	-----	0.430	6.80	0.999	1.00	3.1	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.2746	0.1918	0.2546	0.2785	0.2754	0.2791	0.2816	0.2748	0.2373	0.261	6.89	1.00	1.00	11	0.20 a	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.2941	0.2961	0.3062	0.3150	0.2932	0.2981	0.3036	0.2943	-----	0.300	6.95	1.00	1.00	2.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	1.0181	1.0589	1.0874	1.1166	1.0307	1.0488	1.0564	1.0169	1.3936	1.09	7.02	0.999	0.999	11	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.4198	0.3505	0.4138	0.4373	0.4146	0.4160	0.4202	0.3930	0.4263	0.410	7.05	0.999	0.999	6.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1586	0.1555	0.1623	0.1612	0.1576	0.1597	0.1610	0.1545	-----	0.159	7.11	0.999	0.999	1.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.1341	0.0879	0.1190	0.1361	0.1361	0.1377	0.1392	0.1345	-----	0.128	7.33	0.999	1.00	14	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.3050	0.2366	0.2812	0.3109	0.3048	0.3094	0.3095	0.3030	-----	0.295	7.42	1.00	1.00	8.6	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.6711	0.6467	0.6874	0.7029	0.6643	0.6811	0.6878	0.6675	-----	0.676	7.57	1.00	1.00	2.6	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6179	0.5734	0.6297	0.6479	0.6159	0.6254	0.6316	0.6036	-----	0.618	7.65	0.999	0.999	3.6	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	0.6425	0.6100	0.6563	0.6738	0.6381	0.6514	0.6580	0.6337	-----	0.646	7.57	0.999	0.999	3.0		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.8107	0.7866	0.8369	0.8504	0.8043	0.8089	0.8247	0.7774	-----	0.813	7.95	0.998	0.999	3.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.5529	0.5321	0.5633	0.5628	0.5448	0.5600	0.5648	0.5703	-----	0.556	7.70	1.00	1.00	2.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 7.328
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

3121329 0274

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_13

Level #	Data File:	Cal Identifier:	Analysis Date/Time	Level #	Data File:	Cal Identifier:	Analysis Date/Time
1	13M000398.D	CAL BNA 50PPM	12/17/23 14:31	2	13M000401.D	CAL BNA 2PPM	12/17/23 15:36
3	13M000400.D	CAL BNA10PPM	12/17/23 15:14	4	13M000399.D	CAL BNA 20PPM	12/17/23 14:53
5	13M000397.D	CAL BNA 80PPM	12/17/23 14:09	6	13M000396.D	CAL BNA 120PPM	12/17/23 13:47
7	13M000395.D	CAL BNA 160PPM	12/17/23 13:25	8	13M000394.D	CAL BNA196PPM	12/17/23 13:03
9	13M000402.D	CAL BNA 0.5PPM	12/17/23 15:58				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Qua	0.2800	0.1705	0.2360	0.2712	0.2902	0.3065	0.3102	0.3170	-----	0.273	7.69	0.998	1.00	18	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.3470	0.2019	0.3022	0.3276	0.3439	0.3524	0.3538	0.3553	-----	0.323	7.78	1.00	1.00	16	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.3558	0.2605	0.3447	0.3670	0.3569	0.3704	0.3726	0.3693	-----	0.350	7.82	1.00	1.00	11	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.3283	1.2964	1.3182	1.3780	1.3115	1.3088	1.3209	1.3043	-----	1.32	7.86	1.00	1.00	1.9		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.0871	0.9943	1.0776	1.1351	1.0662	1.0726	1.0809	1.0748	-----	1.07	7.97	1.00	1.00	3.6	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	0.9140	0.8316	0.9475	0.9575	0.9082	0.9285	0.9424	0.9496	-----	0.922	8.26	1.00	1.00	4.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	0.9140	0.8316	0.9475	0.9575	0.9082	0.9285	0.9424	0.9496	-----	0.922	8.26	1.00	1.00	4.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8041	0.7607	0.8101	0.8450	0.7873	0.8101	0.8112	0.8018	-----	0.804	8.03	1.00	1.00	3.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.3247	0.2241	0.2909	0.3220	0.3212	0.3290	0.3354	0.3369	-----	0.311	8.05	1.00	1.00	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4567	0.3659	0.4582	0.4662	0.4478	0.4665	0.4686	0.4728	-----	0.450	8.24	1.00	1.00	7.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.7126	1.4780	1.6897	1.7761	1.6686	1.6923	1.6856	1.6731	-----	1.67	8.34	1.00	1.00	5.1	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.2006	1.0673	1.2088	1.2476	1.1896	1.2088	1.2057	1.1914	-----	1.19	8.20	1.00	1.00	4.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.2924	0.1882	0.2653	0.3089	0.2889	0.3031	0.3100	0.3099	-----	0.283	8.26	0.999	1.00	15	0.20 a	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.1179	1.1138	1.1442	1.1499	1.0982	1.1268	1.1261	1.1115	-----	1.12	8.50	1.00	1.00	1.5	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3252	0.2218	0.3047	0.3304	0.3201	0.3240	0.3228	0.3166	-----	0.308	8.41	1.00	1.00	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1428	-----	0.0866	0.1184	0.1566	0.1732	0.1778	0.1768	-----	0.148	8.50	0.999	0.999	23	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.5382	1.5405	1.5670	1.5989	1.5005	1.5156	1.5048	1.4966	2.0564	1.59	8.65	1.00	1.00	11	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Avg	0.3730	0.2449	0.3266	0.3760	0.3722	0.3767	0.3777	0.3730	-----	0.353	8.62	1.00	1.00	13	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Qua	0.1921	0.0739	0.1289	0.1845	0.1872	0.1949	0.1949	0.1942	-----	0.169	8.53	1.00	1.00	26	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.2874	0.1861	0.2589	0.2823	0.2857	0.2908	0.2880	0.2841	-----	0.270	8.76	1.00	1.00	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.2570	1.1740	1.2712	1.2994	1.2479	1.2969	1.2826	1.2575	-----	1.26	8.98	1.00	1.00	3.2	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.5791	0.5374	0.5840	0.6013	0.5686	0.5819	0.5834	0.5756	-----	0.576	8.97	1.00	1.00	3.2	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.1934	1.0611	1.1847	1.2381	1.1920	1.2068	1.1950	1.1840	-----	1.18	8.84	1.00	1.00	4.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.3615	0.2101	0.3238	0.3482	0.3581	0.3643	0.3659	0.3546	-----	0.336	8.98	0.999	1.00	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.3472	0.2548	0.3197	0.3444	0.3439	0.3563	0.3589	0.3495	-----	0.334	9.62	1.00	1.00	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Avg	0.1192	-----	0.0866	0.1032	0.1219	0.1306	0.1298	0.1273	-----	0.117	9.01	0.999	0.999	14	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6275	0.5398	0.6119	0.6341	0.6170	0.6293	0.6244	0.6168	-----	0.613	9.09	1.00	1.00	5.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Avg	0.0923	0.0571	0.0795	0.0917	0.0938	0.0966	0.0977	0.0960	-----	0.0882	9.22	1.00	1.00	16		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.7780	0.6346	0.7633	0.8037	0.7626	0.7858	0.7753	0.7680	-----	0.759	9.13	1.00	1.00	6.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.1819	0.1570	0.1794	0.1872	0.1835	0.1859	0.1912	0.1874	-----	0.182	9.47	1.00	1.00	5.8	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.1875	0.1886	0.1924	0.1986	0.1901	0.1922	0.1941	0.1902	-----	0.192	9.54	1.00	1.00	1.8	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.3367	0.2605	0.3103	0.3271	0.3312	0.3515	0.3562	0.3703	-----	0.331	9.80	0.998	1.00	10	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Avg	0.1201	-----	0.0839	0.1063	0.1253	0.1316	0.1324	0.1322	-----	0.119	9.75	1.00	1.00	15	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.0232	1.0169	1.0574	1.0744	1.0060	1.0276	1.0140	1.0000	-----	1.03	9.98	1.00	1.00	2.5	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.0336	0.9053	1.0078	1.0867	1.0412	1.0629	1.0505	1.0325	-----	1.03	10.04	1.00	1.00	5.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	0.9818	0.8142	0.9744	1.0217	0.9820	0.9936	0.9948	0.9690	-----	0.966	10.21	1.00	1.00	6.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Avg	1.1772	0.8350	1.0498	1.1474	1.1943	1.2282	1.2278	1.2289	1.0381	1.13	10.59	1.00	1.00	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.0562	0.8829	0.9910	1.0717	1.0658	1.0926	1.0978	1.0722	-----	1.04	11.34	1.00	1.00	6.9	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.3156	1.1576	1.2845	1.3933	1.2871	1.3133	1.2720	1.2545	-----	1.28	11.61	0.999	1.00	5.2	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Avg	0.7721	0.5150	0.6681	0.7667	0.7789	0.7938	0.7736	0.7668	-----	0.729	11.50	1.00	1.00	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.9052	0.8576	0.8691	0.9389	0.8881	0.8962	0.8715	0.8609	-----	0.886	11.79	0.999	1.00	3.1		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags
a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.328
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

3121329 0275

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_13

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	13M000398.D	CAL BNA 50PPM	12/17/23 14:31	2	13M000401.D	CAL BNA 2PPM	12/17/23 15:36
3	13M000400.D	CAL BNA10PPM	12/17/23 15:14	4	13M000399.D	CAL BNA 20PPM	12/17/23 14:53
5	13M000397.D	CAL BNA 80PPM	12/17/23 14:09	6	13M000396.D	CAL BNA 120PPM	12/17/23 13:47
7	13M000395.D	CAL BNA 160PPM	12/17/23 13:25	8	13M000394.D	CAL BNA196PPM	12/17/23 13:03
9	13M000402.D	CAL BNA 0.5PPM	12/17/23 15:58				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2516	0.2380	0.2446	0.2615	0.2521	0.2655	0.2614	0.2603	-----	0.254	11.72	1.00	1.00	3.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4251	0.3264	0.3803	0.4336	0.4201	0.4437	0.4363	0.4257	-----	0.411	12.12	1.00	1.00	9.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Avg	0.6052	0.3848	0.5189	0.5932	0.6106	0.6348	0.6263	0.6156	-----	0.574	12.38	1.00	1.00	15	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.3805	0.2373	0.3348	0.3832	0.3932	0.4059	0.4036	0.3908	-----	0.366	12.49	0.999	0.999	15		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Avg	0.4386	0.3031	0.3883	0.4339	0.4420	0.4571	0.4402	0.4250	-----	0.416	13.01	0.998	0.999	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.1993	1.1054	1.1789	1.2697	1.1809	1.2275	1.1890	1.1499	-----	1.19	13.04	0.999	0.999	4.1	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.1686	1.1584	1.1892	1.2596	1.1524	1.1600	1.1442	1.0963	-----	1.17	13.09	0.999	1.00	4.0	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Avg	0.9035	0.5924	0.7767	0.8839	0.9097	0.9290	0.9319	0.9123	-----	0.855	13.08	1.00	1.00	14	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Avg	1.4764	0.8788	1.2322	1.4351	1.5061	1.5560	1.5808	1.5504	-----	1.40	13.84	1.00	1.00	17	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.1879	1.0192	1.0933	1.1494	1.1574	1.2696	1.1743	1.1285	-----	1.15	14.29	0.998	0.998	6.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.1723	1.0988	1.1894	1.2581	1.1653	1.1233	1.1865	1.1569	-----	1.17	14.32	0.999	0.999	4.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.0688	0.8931	1.0598	1.1092	1.1072	1.1183	1.0985	1.0706	-----	1.07	14.67	0.999	1.00	6.9	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.2990	1.1667	1.2425	1.3262	1.3124	1.3512	1.3514	1.3108	-----	1.30	16.18	1.00	1.00	4.8	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.0654	0.9446	1.0072	1.0874	1.0706	1.0976	1.0994	1.0865	-----	1.06	16.20	1.00	1.00	5.1	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	0.9931	0.9250	0.9650	1.0104	0.9941	1.0050	1.0099	0.9732	-----	0.984	16.60	0.999	1.00	3.0	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 7.328
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

3121329 0276

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_9

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	9M125868.D	CAL BNA 50PPM	12/17/23 14:52	2	9M125871.D	CAL BNA 2PPM	12/17/23 16:01
3	9M125870.D	CAL BNA 10PPM	12/17/23 15:38	4	9M125869.D	CAL BNA 20PPM	12/17/23 15:15
5	9M125867.D	CAL BNA 80PPM	12/17/23 14:29	6	9M125866.D	CAL BNA 120PPM	12/17/23 14:03
7	9M125865.D	CAL BNA 160PPM	12/17/23 13:40	8	9M125864.D	CAL BNA 196PPM	12/17/23 13:17
9	9M125872.D	CAL BNA 0.5PPM	12/17/23 16:24				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Avg	1.0208	1.3347	1.1244	1.0906	1.0097	1.0129	0.9831	0.9349	1.2199	1.08	2.67	0.998	1.00	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	2.2685	2.0495	2.2990	2.3373	2.2955	2.2457	2.2319	2.1058	-----	2.23	3.12	0.998	0.999	4.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.4537	1.2834	1.3858	1.4783	1.4368	1.4310	1.4182	1.3453	-----	1.40	3.06	0.999	1.00	4.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.2513	2.1090	2.3148	2.3271	2.2327	2.2086	2.1682	2.0282	-----	2.21	4.65	0.997	0.999	4.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	1.9486	1.9505	1.9814	2.0456	1.9037	1.9089	1.8436	1.6783	-----	1.91	5.47	0.996	0.999	5.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	3.2945	3.1200	3.4977	3.4866	3.2656	3.1764	3.0488	2.8571	4.2893	3.34	5.56	0.996	1.00	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.8054	0.7961	0.8908	0.8329	0.7708	0.7587	0.7245	0.6709	-----	0.781	5.61	0.994	0.999	8.6	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	2.1899	2.3411	2.3708	2.3742	2.1046	2.0007	1.9017	1.7825	3.0837	2.24	5.62	0.994	1.00	17	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	2.7931	2.6236	2.8731	2.9468	2.7888	2.7283	2.6229	2.4540	-----	2.73	5.53	0.995	1.00	5.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.0344	2.9497	3.2092	3.2053	2.9849	2.9305	2.8010	2.5801	-----	2.96	5.54	0.993	0.999	7.0	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.2720	2.3983	2.5218	2.4666	2.2271	2.1464	2.0858	1.9113	-----	2.25	5.66	0.994	0.999	9.1	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	2.6346	2.6272	2.8756	2.8169	2.5814	2.4801	2.4037	2.1697	-----	2.57	5.71	0.992	0.999	8.8	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	2.4375	2.5668	2.7444	2.6701	2.4172	2.3182	2.2472	2.0521	-----	2.43	5.80	0.993	0.999	9.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.3990	1.4104	1.4540	1.5077	1.3932	1.4098	1.3754	1.3436	-----	1.41	5.86	0.999	1.00	3.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.3247	1.4028	1.3881	1.3969	1.3243	1.3230	1.2709	1.2407	-----	1.33	5.99	0.999	1.00	4.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.8254	0.7003	0.7902	0.8567	0.8370	0.8454	0.8168	0.7923	-----	0.808	5.96	0.999	1.00	6.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.7156	1.7160	1.8018	1.8548	1.7101	1.7095	1.6362	1.6149	-----	1.72	6.07	0.999	1.00	4.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.1286	1.0553	1.1745	1.1996	1.1440	1.1385	1.1042	1.0908	1.4277	1.16	6.05	0.999	1.00	9.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.7234	1.7374	1.8179	1.8190	1.7184	1.6981	1.6240	1.6051	-----	1.72	6.17	0.999	1.00	4.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5239	0.5420	0.5560	0.5622	0.5308	0.5304	0.5197	0.5078	-----	0.534	6.26	0.999	1.00	3.4	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.8827	0.7763	0.8766	0.9316	0.8826	0.8740	0.8302	0.8142	1.0916	0.884	6.17	0.998	1.00	10	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.2152	1.1675	1.2141	1.2763	1.2070	1.1771	1.1389	1.1139	1.4584	1.22	6.17	0.999	1.00	8.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1691	0.1678	0.1875	0.1750	0.1682	0.1673	0.1660	0.1593	-----	0.170	6.30	0.999	1.00	4.9		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3355	0.3161	0.3541	0.3505	0.3393	0.3303	0.3336	0.3148	-----	0.334	6.32	0.998	0.999	4.2	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6359	0.5537	0.6254	0.6568	0.6245	0.6357	0.6308	0.5998	-----	0.620	6.50	0.998	0.999	5.0	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1831	0.1702	0.1791	0.1889	0.1848	0.1847	0.1854	0.1777	-----	0.182	6.56	1.00	1.00	3.2	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.2990	0.2671	0.3007	0.3045	0.2977	0.2945	0.2955	0.2837	0.3212	0.296	6.59	0.999	1.00	5.0	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.1385	-----	0.0398	0.0901	0.1625	0.1900	0.1980	0.1890	-----	0.144	6.65	0.996	0.996	41		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.3858	0.3744	0.3969	0.4037	0.3814	0.3769	0.3716	0.3555	-----	0.381	6.66	0.998	1.00	4.0	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.2806	0.2395	0.2764	0.2876	0.2811	0.2750	0.2764	0.2673	0.3428	0.281	6.75	0.999	1.00	9.6	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.3101	0.3145	0.3153	0.3262	0.3040	0.2990	0.2978	0.2825	-----	0.306	6.81	0.998	1.00	4.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	1.0216	1.0936	1.0824	1.0780	1.0131	0.9905	0.9910	0.9279	1.3645	1.06	6.87	0.998	0.999	12	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.3962	0.4960	0.3932	0.4178	0.3857	0.3757	0.3651	0.3513	0.5191	0.411	6.91	0.998	1.00	14	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1775	0.1871	0.1817	0.1843	0.1771	0.1752	0.1749	0.1655	-----	0.178	6.96	0.998	0.999	3.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.1079	0.0785	0.0913	0.1059	0.1090	0.1079	0.1103	0.1127	-----	0.103	7.18	1.00	1.00	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2756	0.2315	0.2631	0.2757	0.2729	0.2744	0.2741	0.2610	-----	0.266	7.27	0.999	0.999	5.7	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.6748	0.6507	0.6985	0.7137	0.6731	0.6668	0.6605	0.6253	-----	0.670	7.41	0.998	1.00	4.1	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6187	0.6244	0.6423	0.6396	0.6049	0.6092	0.5955	0.5683	-----	0.613	7.49	0.998	1.00	4.0	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	0.6450	0.6353	0.6690	0.6789	0.6395	0.6368	0.6300	0.5962	-----	0.641	7.41	0.998	0.999	3.9		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.8142	0.7857	0.8471	0.8588	0.7942	0.7845	0.7895	0.7470	-----	0.803	7.78	0.998	0.999	4.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.6152	0.5773	0.6203	0.6506	0.5981	0.5886	0.5854	0.5493	-----	0.598	7.54	0.997	0.999	5.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 6.947

Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

3121329 0277

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_9

Level #	Data File:	Cal Identifier:	Analysis Date/Time	Level #	Data File:	Cal Identifier:	Analysis Date/Time
1	9M125868.D	CAL BNA 50PPM	12/17/23 14:52	2	9M125871.D	CAL BNA 2PPM	12/17/23 16:01
3	9M125870.D	CAL BNA 10PPM	12/17/23 15:38	4	9M125869.D	CAL BNA 20PPM	12/17/23 15:15
5	9M125867.D	CAL BNA 80PPM	12/17/23 14:29	6	9M125866.D	CAL BNA 120PPM	12/17/23 14:03
7	9M125865.D	CAL BNA 160PPM	12/17/23 13:40	8	9M125864.D	CAL BNA 196PPM	12/17/23 13:17
9	9M125872.D	CAL BNA 0.5PPM	12/17/23 16:24				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Avg	0.3326	0.1876	0.2716	0.3241	0.3417	0.3436	0.3516	0.3337	-----	0.311	7.53	0.999	0.999	18	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.3431	0.2887	0.3381	0.3551	0.3529	0.3490	0.3470	0.3269	-----	0.338	7.63	0.998	0.999	6.4	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.3780	0.3082	0.3655	0.3919	0.3792	0.3676	0.3666	0.3508	-----	0.364	7.66	0.999	1.00	7.0	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.3837	1.3649	1.4194	1.4438	1.3760	1.3229	1.3342	1.2617	-----	1.36	7.70	0.999	1.00	4.2		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.0844	1.1005	1.1382	1.1683	1.0839	1.0575	1.0398	0.9716	-----	1.08	7.81	0.998	1.00	5.6	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	0.8700	0.8907	0.9075	0.9437	0.8629	0.8192	0.8272	0.7610	-----	0.860	8.09	0.997	0.999	6.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	0.8700	0.8907	0.9075	0.9437	0.8629	0.8192	0.8272	0.7610	-----	0.860	8.09	0.997	0.999	6.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8138	0.7727	0.8486	0.8702	0.8115	0.7866	0.7824	0.7369	-----	0.803	7.87	0.998	1.00	5.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.3900	0.3605	0.3855	0.4050	0.3843	0.3675	0.3711	0.3505	-----	0.377	7.89	0.998	0.999	4.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4243	0.3708	0.4414	0.4515	0.4201	0.4087	0.4066	0.3852	-----	0.414	8.07	0.998	1.00	6.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.6474	1.6053	1.7049	1.7694	1.6581	1.6200	1.5902	1.4801	-----	1.63	8.16	0.997	1.00	5.2	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.2093	1.1446	1.2324	1.2652	1.1973	1.1483	1.1565	1.0905	-----	1.18	8.03	0.998	0.999	4.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.2686	0.2457	0.2708	0.2909	0.2705	0.2625	0.2581	0.2447	-----	0.264	8.09	0.998	1.00	5.7	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.1035	1.0717	1.1381	1.2149	1.1132	1.0820	1.0708	1.0099	-----	1.10	8.32	0.998	1.00	5.4	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3040	0.2718	0.3109	0.3275	0.3084	0.3012	0.3003	0.2865	-----	0.301	8.23	0.999	1.00	5.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1463	-----	0.0822	0.1227	0.1625	0.1673	0.1763	0.1682	-----	0.147	8.33	0.998	0.998	23	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.5263	1.5773	1.6153	1.6780	1.5191	1.4705	1.4688	1.3913	2.4291	1.63	8.47	0.998	1.00	19	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Avg	0.3773	0.2923	0.3599	0.3879	0.3751	0.3668	0.3727	0.3570	-----	0.361	8.45	0.999	1.00	8.2	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Avg	0.2230	0.1657	0.2035	0.2280	0.2285	0.2233	0.2168	0.2164	-----	0.213	8.36	0.999	1.00	9.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3122	0.2131	0.2826	0.3168	0.3128	0.3116	0.3091	0.2932	-----	0.294	8.57	0.998	1.00	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.2482	1.2085	1.2692	1.3385	1.2250	1.2039	1.2049	1.1321	-----	1.23	8.79	0.998	0.999	4.9	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.6161	0.5859	0.6262	0.6532	0.6016	0.5975	0.5977	0.5659	-----	0.606	8.78	0.999	1.00	4.4	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.1487	1.0936	1.1839	1.2002	1.1535	1.1186	1.1267	1.0682	-----	1.14	8.66	0.998	0.999	3.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.3268	0.2395	0.3067	0.3407	0.3212	0.3198	0.3220	0.3004	-----	0.310	8.80	0.997	0.999	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.3646	0.3273	0.3523	0.3919	0.3763	0.3646	0.3707	0.3502	-----	0.362	9.42	0.998	0.999	5.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Avg	0.1243	-----	0.0960	0.1185	0.1257	0.1323	0.1340	0.1301	-----	0.123	8.83	0.999	0.999	11	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.5945	0.5725	0.6184	0.6424	0.5908	0.5930	0.5760	0.5601	-----	0.594	8.89	0.999	1.00	4.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Avg	0.1060	0.0755	0.1005	0.1090	0.1053	0.1088	0.1063	0.1046	-----	0.102	9.03	1.00	1.00	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.7387	0.7092	0.7771	0.8050	0.6648	0.7362	0.7142	0.6954	-----	0.730	8.94	0.998	0.998	6.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2051	0.2050	0.2079	0.2147	0.2010	0.2052	0.1989	0.1928	-----	0.204	9.27	0.999	1.00	3.2	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2190	0.2259	0.2227	0.2313	0.2141	0.2194	0.2132	0.2094	-----	0.219	9.34	0.999	1.00	3.3	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.4606	0.4206	0.4452	0.4800	0.4577	0.4629	0.4470	0.4315	-----	0.451	9.60	0.998	1.00	4.2	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Avg	0.1249	-----	0.0818	0.1098	0.1273	0.1381	0.1378	0.1343	-----	0.122	9.54	0.999	0.999	17	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	0.9909	1.0489	1.0374	1.0552	0.9870	1.0016	0.9576	0.9361	-----	1.00	9.77	0.999	1.00	4.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.0250	1.0173	1.0502	1.1125	1.0277	1.0288	1.0006	0.9764	-----	1.03	9.83	0.999	1.00	3.9	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	0.9543	0.9307	0.9640	1.0221	0.9505	0.9565	0.9335	0.9061	-----	0.952	10.00	0.999	1.00	3.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Avg	1.1340	0.9368	1.0727	1.1488	1.1374	1.1514	1.1172	1.0932	1.2706	1.12	10.37	0.999	1.00	7.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.1621	1.0963	1.1615	1.2241	1.1724	1.1716	1.1520	1.1379	-----	1.16	11.10	1.00	1.00	3.1	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.2228	1.1913	1.2741	1.3199	1.2147	1.2477	1.2197	1.2005	-----	1.24	11.37	1.00	1.00	3.5	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Avg	0.7327	0.5293	0.6595	0.7202	0.7425	0.7596	0.7419	0.7253	-----	0.701	11.26	0.999	1.00	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.8874	0.8757	0.9108	0.9375	0.8817	0.8934	0.8962	0.9072	-----	0.899	11.55	1.00	1.00	2.2		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags
a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 6.947
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M125868.D	CAL BNA 50PPM	12/17/23 14:52	2	9M125871.D	CAL BNA 2PPM	12/17/23 16:01
3	9M125870.D	CAL BNA 10PPM	12/17/23 15:38	4	9M125869.D	CAL BNA 20PPM	12/17/23 15:15
5	9M125867.D	CAL BNA 80PPM	12/17/23 14:29	6	9M125866.D	CAL BNA 120PPM	12/17/23 14:03
7	9M125865.D	CAL BNA 160PPM	12/17/23 13:40	8	9M125864.D	CAL BNA 196PPM	12/17/23 13:17
9	9M125872.D	CAL BNA 0.5PPM	12/17/23 16:24				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2442	0.2495	0.2482	0.2707	0.2467	0.2532	0.2497	0.2533	-----	0.252	11.49	1.00	1.00	3.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4299	0.3671	0.4251	0.4476	0.4402	0.4505	0.4427	0.4382	-----	0.430	11.89	1.00	1.00	6.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Avg	0.5115	0.3839	0.4486	0.5030	0.5175	0.5253	0.5311	0.5266	-----	0.493	12.14	1.00	1.00	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.3892	0.2848	0.3668	0.3978	0.3900	0.3973	0.3884	0.3855	-----	0.375	12.24	1.00	1.00	10		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Avg	0.4327	0.3290	0.3963	0.4407	0.4286	0.4443	0.4394	0.4263	-----	0.417	12.76	0.999	1.00	9.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.1660	1.1313	1.1869	1.2405	1.1677	1.1792	1.1527	1.1402	-----	1.17	12.79	1.00	1.00	2.9	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.1028	1.0742	1.1711	1.1741	1.0510	1.0701	1.0455	1.0192	-----	1.09	12.83	0.999	1.00	5.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Avg	0.7009	0.4699	0.6262	0.7112	0.6985	0.7149	0.7073	0.6879	-----	0.665	12.83	0.999	1.00	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Avg	1.1646	0.7654	1.0128	1.1689	1.2292	1.2598	1.2621	1.2210	-----	1.14	13.58	0.999	0.999	15	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.1257	1.0484	1.0794	1.1592	1.1244	1.1969	1.1371	1.1265	-----	1.12	14.00	0.999	0.999	4.0	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.1061	1.1225	1.2158	1.2761	1.1690	1.0854	1.0906	1.0508	-----	1.14	14.03	0.998	0.999	6.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.0625	0.9663	1.0253	1.1422	1.0929	1.0825	1.0454	1.0387	-----	1.06	14.36	0.999	1.00	4.9	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.2519	1.0943	1.2177	1.3070	1.2247	1.2238	1.1899	1.2424	-----	1.22	15.74	0.999	0.999	5.0	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	0.9921	0.8658	0.9840	1.0454	0.9742	0.9720	0.9325	0.9713	-----	0.967	15.76	0.999	0.999	5.3	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	0.9537	0.8500	0.9480	1.0209	0.9303	0.9173	0.8901	0.9359	-----	0.931	16.12	0.999	0.999	5.3	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 6.947
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M133821.D	CAL BNA 50PPM	12/17/23 15:00	2	7M133824.D	CAL BNA 2PPM	12/17/23 16:12
3	7M133823.D	CAL BNA 10PPM	12/17/23 15:48	4	7M133822.D	CAL BNA 20PPM	12/17/23 15:24
5	7M133820.D	CAL BNA 80PPM	12/17/23 14:36	6	7M133819.D	CAL BNA 120PPM	12/17/23 14:12
7	7M133818.D	CAL BNA 160PPM	12/17/23 13:48	8	7M133817.D	CAL BNA 196PPM	12/17/23 13:25
9	7M133825.D	CAL BNA 0.5PPM	12/17/23 16:36				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Avg	1.0176	1.0349	1.0498	1.0626	1.0033	0.9680	0.9638	0.9484	1.2400	1.03	3.40	0.999	1.00	8.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	2.4006	1.8248	2.3941	2.4907	2.3669	2.3273	2.2895	2.1805	1.2882	2.17	3.76	0.998	1.00	18		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
N-Nitrosodimethylamin	1	0	Avg	1.5037	1.3972	1.4673	1.5795	1.5048	1.4830	1.4608	1.4256	-----	1.48	3.70	0.999	1.00	3.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.5510	2.1871	2.5388	2.5528	2.5473	2.4863	2.4712	2.3036	-----	2.45	4.97	0.998	1.00	5.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	2.1247	2.0514	2.2453	2.2541	2.0529	1.9984	1.9251	1.7830	-----	2.05	5.70	0.995	1.00	7.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	3.7038	3.4527	3.7755	3.9350	3.5740	3.3964	3.2547	2.9559	4.4960	3.62	5.78	0.991	1.00	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.8919	0.9492	0.9558	0.9588	0.8653	0.8154	0.7915	0.6935	-----	0.865	5.82	0.986	0.998	11	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	2.3637	2.5511	2.5119	2.5553	2.2611	2.1229	2.0224	1.8512	3.4647	2.41	5.83	0.991	1.00	19	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	3.0948	2.8813	3.1860	3.2235	3.0419	2.9619	2.8423	2.6249	-----	2.98	5.74	0.994	0.999	6.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.3902	3.2573	3.5877	3.6054	3.3247	3.1633	3.0334	2.7660	-----	3.27	5.74	0.991	0.999	8.6	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.5383	2.5422	2.6498	2.7261	2.4701	2.3684	2.2788	2.0850	-----	2.46	5.87	0.994	1.00	8.4	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	2.2178	2.4694	2.4908	2.5512	2.1402	2.0092	1.9224	1.7429	-----	2.19	5.90	0.990	0.999	13	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	2.7813	2.9586	3.0380	3.0750	2.7306	2.6110	2.5180	2.2561	-----	2.75	6.00	0.990	0.999	10		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.4453	1.4543	1.4679	1.5447	1.3925	1.3934	1.3749	1.3160	-----	1.42	6.05	0.999	1.00	4.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.4031	1.2908	1.4102	1.4641	1.3274	1.3199	1.2950	1.2392	-----	1.34	6.17	0.998	1.00	5.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.8309	0.6318	0.7588	0.8177	0.7971	0.8224	0.8113	0.7992	-----	0.784	6.14	1.00	1.00	8.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.3146	1.3818	1.3741	1.4146	1.2452	1.2191	1.2041	1.1653	-----	1.29	6.24	0.999	1.00	7.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.1812	1.1724	1.2025	1.2454	1.1537	1.1396	1.1215	1.0699	1.2810	1.17	6.22	0.998	1.00	5.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.8239	1.7990	1.9135	1.9510	1.7185	1.6933	1.6672	1.5708	-----	1.77	6.34	0.997	1.00	7.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5518	0.5342	0.5345	0.5545	0.5134	0.5270	0.5172	0.5019	-----	0.529	6.43	0.999	1.00	3.5	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.8688	0.8425	0.8797	0.9229	0.8171	0.7984	0.7800	0.7476	1.0665	0.858	6.34	0.998	1.00	11	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.2655	1.1390	1.2421	1.3394	1.2110	1.1991	1.1828	1.1290	1.5298	1.25	6.33	0.998	1.00	9.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1674	0.1564	0.1658	0.1768	0.1674	0.1640	0.1614	0.1588	-----	0.165	6.46	0.999	1.00	3.8		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3223	0.3226	0.3338	0.3438	0.3150	0.3107	0.3018	0.2931	-----	0.318	6.48	0.999	1.00	5.2	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6211	0.6022	0.6332	0.6542	0.6130	0.6051	0.5945	0.5829	-----	0.613	6.65	0.999	1.00	3.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1923	0.1499	0.1970	0.2007	0.1927	0.1912	0.1890	0.1821	-----	0.187	6.71	0.999	1.00	8.5	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.2987	0.2697	0.3085	0.3186	0.2887	0.2865	0.2806	0.2697	0.3089	0.292	6.73	0.999	1.00	6.0	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Avg	0.2457	-----	0.1892	0.2252	0.2556	0.2688	0.2706	0.2627	-----	0.245	6.80	0.999	0.999	12		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.3640	0.3590	0.3820	0.3907	0.3562	0.3495	0.3410	0.3291	-----	0.359	6.80	0.998	1.00	5.6	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.2825	0.2394	0.2886	0.3009	0.2818	0.2827	0.2770	0.2620	0.2659	0.276	6.89	0.999	1.00	6.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.3029	0.2987	0.3177	0.3201	0.2999	0.2966	0.2938	0.2760	-----	0.301	6.96	0.998	0.999	4.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	0.9813	1.0036	1.0288	1.0560	0.9591	0.9408	0.9164	0.8740	1.3072	1.01	7.02	0.998	1.00	12	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.3891	0.3572	0.4057	0.4210	0.3841	0.3812	0.3679	0.3513	0.4493	0.390	7.06	0.998	1.00	8.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1685	0.1704	0.1719	0.1797	0.1689	0.1689	0.1665	0.1593	-----	0.169	7.11	0.999	1.00	3.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.1159	0.0948	0.1138	0.1222	0.1013	0.1014	0.1012	0.1061	-----	0.107	7.33	0.998	0.998	8.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2839	0.2243	0.2747	0.2929	0.2827	0.2824	0.2783	0.2687	-----	0.274	7.42	0.999	1.00	7.7	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.6769	0.6865	0.7143	0.7242	0.6769	0.6666	0.6541	0.6173	-----	0.677	7.56	0.997	1.00	5.0	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6172	0.6071	0.6535	0.6652	0.6147	0.6031	0.5876	0.5554	-----	0.613	7.64	0.997	1.00	5.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	0.6452	0.6468	0.6814	0.6944	0.6441	0.6346	0.6206	0.5864	-----	0.644	7.56	0.997	1.00	5.2		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.8192	0.8277	0.8536	0.8802	0.8057	0.8018	0.7915	0.7444	-----	0.816	7.93	0.998	0.999	5.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.5396	0.5326	0.5652	0.5793	0.5382	0.5218	0.5138	0.4900	-----	0.535	7.69	0.998	1.00	5.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 6.610
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_7

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	7M133821.D	CAL BNA 50PPM	12/17/23 15:00	2	7M133824.D	CAL BNA 2PPM	12/17/23 16:12
3	7M133823.D	CAL BNA 10PPM	12/17/23 15:48	4	7M133822.D	CAL BNA 20PPM	12/17/23 15:24
5	7M133820.D	CAL BNA 80PPM	12/17/23 14:36	6	7M133819.D	CAL BNA 120PPM	12/17/23 14:12
7	7M133818.D	CAL BNA 160PPM	12/17/23 13:48	8	7M133817.D	CAL BNA 196PPM	12/17/23 13:25
9	7M133825.D	CAL BNA 0.5PPM	12/17/23 16:36				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Qua	0.2900	0.1390	0.2336	0.2728	0.3078	0.3095	0.3158	0.3042	-----	0.272	7.68	0.999	0.999	22	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.3483	0.2921	0.3480	0.3656	0.3529	0.3550	0.3477	0.3364	-----	0.343	7.78	0.999	1.00	6.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.3782	0.2917	0.3825	0.3917	0.3808	0.3788	0.3699	0.3585	-----	0.367	7.82	0.999	1.00	8.7	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.3072	1.2849	1.3541	1.4085	1.2996	1.2579	1.2334	1.1957	-----	1.29	7.85	0.998	1.00	5.2		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.0484	1.0703	1.1032	1.1526	1.0489	1.0031	0.9851	0.9378	-----	1.04	7.96	0.997	1.00	6.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	0.8278	0.8773	0.9033	0.9353	0.8223	0.7977	0.7730	0.7407	-----	0.835	8.25	0.998	1.00	8.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	0.8278	0.8773	0.9033	0.9353	0.8223	0.7977	0.7730	0.7407	-----	0.835	8.25	0.997	1.00	8.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.7772	0.8012	0.8425	0.8545	0.7706	0.7544	0.7385	0.7018	-----	0.780	8.02	0.998	1.00	6.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.3333	0.2977	0.3505	0.3634	0.3274	0.3211	0.3113	0.3036	-----	0.326	8.04	0.999	1.00	7.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4406	0.4173	0.4849	0.4917	0.4396	0.4253	0.4108	0.3940	-----	0.438	8.23	0.997	1.00	7.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.6356	1.6531	1.7453	1.7949	1.6242	1.5744	1.5358	1.4721	-----	1.63	8.33	0.998	1.00	6.5	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.2389	1.2171	1.3128	1.3538	1.2512	1.2100	1.1824	1.1510	-----	1.24	8.18	0.999	1.00	5.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.2888	0.2574	0.3015	0.3081	0.2876	0.2805	0.2712	0.2576	-----	0.282	8.25	0.997	1.00	6.7	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.0565	1.0609	1.1189	1.1331	1.0533	1.0327	1.0041	0.9670	-----	1.05	8.49	0.998	1.00	5.2	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3149	0.2859	0.3394	0.3457	0.3192	0.3106	0.2993	0.2919	-----	0.313	8.41	0.998	1.00	6.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Avg	0.1695	-----	0.1056	0.1490	0.1816	0.1858	0.1900	0.1891	-----	0.167	8.50	1.00	1.00	18	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.5407	1.5338	1.6530	1.6764	1.5362	1.4866	1.4376	1.3752	1.9533	1.58	8.65	0.997	1.00	11	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Avg	0.4000	0.2961	0.3931	0.4255	0.4094	0.4035	0.3957	0.3875	-----	0.389	8.62	0.999	1.00	10	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Avg	0.1887	0.1702	0.1651	0.1924	0.1969	0.1929	0.2078	0.2056	-----	0.190	8.55	0.999	0.999	8.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3219	0.2761	0.3263	0.3449	0.3243	0.3249	0.3253	0.3161	-----	0.320	8.75	1.00	1.00	6.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.2431	1.2122	1.3046	1.3631	1.2446	1.2105	1.1719	1.1300	-----	1.24	8.97	0.998	1.00	5.9	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.5986	0.5761	0.6167	0.6438	0.6147	0.6102	0.6027	0.5891	-----	0.607	8.96	0.999	1.00	3.3	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.2522	1.1463	1.2831	1.3282	1.2387	1.2130	1.1921	1.1623	-----	1.23	8.83	0.999	1.00	5.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.3457	0.2509	0.3528	0.3651	0.3431	0.3339	0.3304	0.3239	-----	0.331	9.00	0.999	1.00	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.3773	0.3186	0.3821	0.4077	0.3879	0.3853	0.3714	0.3636	-----	0.374	9.62	0.999	1.00	6.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Avg	0.1328	-----	0.1083	0.1314	0.1359	0.1351	0.1354	0.1298	-----	0.130	9.01	0.999	1.00	7.5	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.5827	0.5477	0.6169	0.6134	0.5700	0.5550	0.5417	0.5237	-----	0.569	9.07	0.998	1.00	5.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Avg	0.1093	0.0874	0.1028	0.1098	0.1142	0.1128	0.1157	0.1114	-----	0.108	9.22	0.999	0.999	8.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.6816	0.6436	0.6629	0.6855	0.6711	0.6424	0.6232	0.5963	-----	0.651	9.12	0.997	1.00	4.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.1949	0.1761	0.1883	0.2043	0.2009	0.1984	0.1995	0.1914	-----	0.194	9.46	0.999	1.00	4.6	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2150	0.2031	0.2085	0.2246	0.2180	0.2163	0.2178	0.2082	-----	0.214	9.53	0.999	0.999	3.2	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.3563	0.3526	0.3668	0.3898	0.3504	0.3372	0.3248	0.3191	-----	0.350	9.79	0.998	1.00	6.5	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Avg	0.1429	-----	0.1091	0.1332	0.1537	0.1516	0.1564	0.1511	-----	0.143	9.74	0.999	0.999	12	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	0.9644	0.9753	1.0044	1.0106	0.9496	0.9241	0.9007	0.8719	-----	0.950	9.98	0.998	1.00	5.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	0.9853	0.9898	1.0119	1.0712	0.9778	0.9489	0.9324	0.8939	-----	0.976	10.04	0.998	1.00	5.5	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	0.9494	0.9017	0.9598	1.0043	0.9410	0.9149	0.8971	0.8620	-----	0.929	10.21	0.998	1.00	4.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Avg	1.1944	1.0483	1.1921	1.2395	1.2150	1.1629	1.1460	1.1040	1.2458	1.17	10.58	0.999	1.00	5.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.1279	0.9826	1.1016	1.1659	1.1280	1.0997	1.0873	1.0425	-----	1.09	11.34	0.998	1.00	5.2	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.2582	1.2348	1.3079	1.3428	1.2439	1.2469	1.2333	1.1831	-----	1.26	11.60	0.999	1.00	3.9	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Avg	0.7605	0.6088	0.6815	0.7629	0.7506	0.7542	0.7420	0.7262	-----	0.723	11.49	0.999	1.00	7.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.9337	0.9071	0.9261	0.9640	0.9348	0.9502	0.9516	0.9448	-----	0.939	11.78	1.00	1.00	1.9		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 6.610

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M133821.D	CAL BNA 50PPM	12/17/23 15:00	2	7M133824.D	CAL BNA 2PPM	12/17/23 16:12
3	7M133823.D	CAL BNA 10PPM	12/17/23 15:48	4	7M133822.D	CAL BNA 20PPM	12/17/23 15:24
5	7M133820.D	CAL BNA 80PPM	12/17/23 14:36	6	7M133819.D	CAL BNA 120PPM	12/17/23 14:12
7	7M133818.D	CAL BNA 160PPM	12/17/23 13:48	8	7M133817.D	CAL BNA 196PPM	12/17/23 13:25
9	7M133825.D	CAL BNA 0.5PPM	12/17/23 16:36				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2685	0.2657	0.2767	0.2799	0.2689	0.2711	0.2717	0.2677	-----	0.271	11.71	1.00	1.00	1.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4616	0.4281	0.4579	0.4696	0.4732	0.4837	0.4816	0.4682	-----	0.466	12.12	1.00	1.00	3.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Avg	0.5997	0.4975	0.5807	0.6121	0.6082	0.6121	0.6032	0.5928	-----	0.588	12.37	1.00	1.00	6.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.3998	0.3304	0.3863	0.4147	0.4037	0.3983	0.3995	0.3839	-----	0.390	12.48	0.999	1.00	6.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Avg	0.4655	0.4200	0.4472	0.4735	0.4750	0.4779	0.4692	0.4511	-----	0.460	13.01	0.999	1.00	4.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.1795	1.2281	1.2158	1.2271	1.1664	1.1713	1.1569	1.1318	-----	1.18	13.04	1.00	1.00	3.0	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.0544	1.1386	1.0833	1.1055	1.0432	1.0483	1.0222	0.9993	-----	1.06	13.08	0.999	1.00	4.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Avg	0.8056	0.7449	0.8291	0.8383	0.7888	0.7899	0.7745	0.7540	-----	0.791	13.06	0.999	1.00	4.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Avg	1.4471	1.2325	1.4000	1.4937	1.4457	1.4281	1.3927	1.3588	-----	1.40	13.82	0.999	1.00	5.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.1366	1.0198	1.2105	1.2145	1.1527	1.1618	1.1911	1.1342	-----	1.15	14.28	0.999	0.999	5.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.1481	1.1711	1.1159	1.1867	1.0973	1.0388	0.9732	1.0039	-----	1.09	14.31	0.997	0.998	7.2	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.0832	0.9935	1.0825	1.1356	1.0746	1.0606	1.0548	1.0306	-----	1.06	14.67	1.00	1.00	3.9	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.2965	1.1670	1.2665	1.3380	1.2907	1.2722	1.2704	1.2498	-----	1.27	16.22	1.00	1.00	3.9	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.0467	0.9405	1.0304	1.0874	1.0313	1.0121	1.0028	0.9969	-----	1.02	16.24	1.00	1.00	4.2	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	0.9986	0.8901	0.9608	1.0294	0.9908	0.9782	0.9555	0.9572	-----	0.970	16.64	1.00	1.00	4.2	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 6.610
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL BNA 50PPM **Data File:** 13M000414.D **Instrument:** GCMS 13

Cont Calibration Date/Time 12/18/2023 12:27:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.85	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.88	47.77	50	**		1.002	0.957	4.46	
Pyridine	1	0		3.35	50.29	50	**		1.959	1.971	0.59	
N-Nitrosodimethylamine	1	0		3.29	50.74	50	**		1.145	1.162	1.48	
2-Fluorophenol	1	0	S	4.81	50.93	50	**		2.483	2.530	1.86	
Benzaldehyde	1	0		5.62	51.32	50	20	0.01	1.721	1.766	2.64	
Aniline	1	0		5.71	49.55	50	**		3.787	3.753	0.90	
Pentachloroethane	1	0		5.76	49.61	50	**	0.05	0.944	0.937	0.78	
bis(2-Chloroethyl)ether	1	0		5.77	48.12	50	20	0.7	2.735	2.632	3.76	
Phenol-d5	1	0	S	5.67	51.54	50	**		3.080	3.174	3.08	
Phenol	1	0		5.68	51.11	50	20	0.8	3.337	3.411	2.21	
2-Chlorophenol	1	0		5.82	51.98	50	20	0.8	2.384	2.478	3.95	
N-Decane	1	0		5.85	49.11	50	**	0.05	1.844	1.811	1.79	
1,3-Dichlorobenzene	1	0		5.95	50.47	50	**		2.611	2.636	0.93	
1,4-Dichlorobenzene-d4	1	0	I	6.00	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		6.01	49.71	50	20		1.441	1.432	0.58	
1,2-Dichlorobenzene	1	0		6.13	50.00	50	**		1.358	1.358	0.01	
Benzyl alcohol	1	0		6.10	50.79	50	**		0.918	0.932	1.57	
bis(2-chloroisopropyl)ether	1	0		6.21	49.86	50	20	0.01	0.968	0.965	0.28	
2-Methylphenol	1	0		6.19	50.16	50	20	0.7	1.286	1.290	0.31	
Acetophenone	1	0		6.32	49.50	50	20	0.01	2.070	2.050	1.00	
Hexachloroethane	1	0		6.41	50.05	50	20	0.3	0.618	0.619	0.11	
N-Nitroso-di-n-propylamine	1	0		6.32	50.45	50	20	0.5	0.740	0.747	0.90	
3&4-Methylphenol	1	0		6.31	50.81	50	20		1.361	1.383	1.61	
Naphthalene-d8	1	0	I	7.01	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.45	25.68	25	**		0.170	0.175	2.72	
Nitrobenzene	1	0		6.46	49.94	50	20	0.2	0.314	0.313	0.12	
Isophorone	1	0		6.64	50.54	50	20	0.4	0.615	0.622	1.08	
2-Nitrophenol	1	0		6.71	51.53	50	20	0.1	0.175	0.181	3.06	
2,4-Dimethylphenol	1	0		6.72	50.72	50	20	0.2	0.326	0.330	1.45	
Benzoic Acid	1	0		6.77	43.25	50	**		0.251	0.232	13.51	
bis(2-Chloroethoxy)methane	1	0		6.80	50.08	50	20	0.3	0.430	0.431	0.17	
2,4-Dichlorophenol	1	0		6.89	52.38	50	20	0.2	0.261	0.273	4.76	
1,2,4-Trichlorobenzene	1	0		6.95	50.14	50	**		0.300	0.301	0.28	
Naphthalene	1	0		7.02	48.55	50	20	0.7	1.092	1.060	2.89	
4-Chloroaniline	1	0		7.05	51.30	50	20	0.01	0.410	0.421	2.60	
Hexachlorobutadiene	1	0		7.11	50.34	50	20	0.01	0.159	0.160	0.67	
Caprolactam	1	0		7.33	51.68	50	20	0.01	0.128	0.132	3.36	
4-Chloro-3-methylphenol	1	0		7.42	51.79	50	20	0.2	0.295	0.306	3.58	
2-Methylnaphthalene	1	0		7.57	51.07	50	**	0.4	0.676	0.691	2.13	
1-Methylnaphthalene	1	0		7.65	50.84	50	**	0.4	0.618	0.629	1.68	
Methylnaphthalenes	1	0		7.57	102.44	50	**			1.323	104.87	
1,1'-Biphenyl	1	0		7.95	50.88	50	20	0.01	0.813	0.827	1.77	
Acenaphthene-d10	1	0	I	8.47	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.70	49.69	50	20	0.01	0.556	0.553	0.62	
Hexachlorocyclopentadiene	1	0		7.69	50.12	50	20	0.05	0.273	0.280	0.23	
2,4,6-Trichlorophenol	1	0		7.79	52.76	50	20	0.2	0.323	0.341	5.52	
2,4,5-Trichlorophenol	1	0		7.82	50.90	50	20	0.2	0.350	0.356	1.79	
2-Fluorobiphenyl	1	0	S	7.86	25.37	25	**		1.321	1.340	1.48	
2-Chloronaphthalene	1	0		7.98	50.47	50	20	0.8	1.074	1.084	0.93	
1,4-Dimethylnaphthalene	1	0		8.26	50.32	50	**		0.922	0.928	0.64	
Dimethylnaphthalenes	1	0		8.26	50.32	50	20			0.928	0.64	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA 50PPM **Data File:** 13M000414.D **Instrument:** GCMS 13

Cont Calibration Date/Time 12/18/2023 12:27:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		8.04	50.84	50	**		0.804	0.817	1.67	
2-Nitroaniline	1	0		8.05	51.64	50	20	0.01	0.311	0.321	3.29	
Coumarin	1	0		8.24	51.41		**		0.450			
Acenaphthylene	1	0		8.35	51.14	50	20	0.9	1.672	1.710	2.27	
Dimethylphthalate	1	0		8.20	51.13	50	20	0.01	1.190	1.217	2.25	
2,6-Dinitrotoluene	1	0		8.26	51.18	50	20	0.2	0.283	0.290	2.36	
Acenaphthene	1	0		8.50	50.04	50	20	0.9	1.124	1.125	0.08	
3-Nitroaniline	1	0		8.41	53.33	50	20	0.01	0.308	0.329	6.66	
2,4-Dinitrophenol	1	0		8.50	45.30	50	20	0.2	0.148	0.140	9.40	
Dibenzofuran	1	0		8.66	48.12	50	20	0.8	1.591	1.531	3.76	
2,4-Dinitrotoluene	1	0		8.62	52.55	50	20	0.2	0.353	0.371	5.10	
4-Nitrophenol	1	0		8.53	48.66	50	20	0.01	0.169	0.185	2.69	
2,3,4,6-Tetrachlorophenol	1	0		8.77	52.34	50	20	0.01	0.270	0.283	4.68	
Fluorene	1	0		8.99	49.95	50	20	0.9	1.261	1.260	0.10	
4-Chlorophenyl-phenylether	1	0		8.97	50.22	50	20	0.4	0.576	0.579	0.44	
Diethylphthalate	1	0		8.85	50.20	50	20	0.01	1.182	1.187	0.39	
4-Nitroaniline	1	0		8.99	52.67	50	20	0.01	0.336	0.354	5.34	
Atrazine	1	0		9.63	51.40	50	20	0.01	0.334	0.344	2.81	
Phenanthrene-d10	1	0	I	9.97	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		9.02	47.52	50	20	0.01	0.117	0.111	4.96	
n-Nitrosodiphenylamine	1	0		9.09	50.16	50	20	0.01	0.613	0.615	0.32	
2,4,6-Tribromophenol	1	0	S	9.23	51.22	50	**		0.088	0.090	2.44	
1,2-Diphenylhydrazine	1	0		9.13	49.45	50	**		0.759	0.751	1.10	
4-Bromophenyl-phenylether	1	0		9.48	48.88	50	20	0.1	0.182	0.178	2.25	
Hexachlorobenzene	1	0		9.54	49.54	50	20	0.1	0.192	0.190	0.92	
N-Octadecane	1	0		9.81	48.46	50	**	0.05	0.331	0.320	3.08	
Pentachlorophenol	1	0		9.75	49.63	50	20	0.05	0.119	0.118	0.74	
Phenanthrene	1	0		9.99	48.89	50	20	0.7	1.028	1.005	2.21	
Anthracene	1	0		10.05	49.95	50	20	0.7	1.028	1.027	0.10	
Carbazole	1	0		10.22	50.28	50	20	0.01	0.966	0.972	0.55	
Di-n-butylphthalate	1	0		10.60	51.32	50	20	0.01	1.125	1.155	2.65	
Fluoranthene	1	0		11.35	49.97	50	20	0.6	1.041	1.041	0.06	
Chrysene-d12	1	0	I	13.07	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.62	51.18	50	20	0.6	1.285	1.315	2.35	
Benzidine	1	0		11.50	51.30	50	**		0.729	0.748	2.61	
Terphenyl-d14	1	0	S	11.80	25.10	25	**		0.886	0.890	0.42	
4,4'-DDE	1	0		11.73	49.62		**		0.254			
4,4'-DDD	1	0		12.14	51.40		**		0.411			
Butylbenzylphthalate	1	0		12.39	51.67	50	20	0.01	0.574	0.593	3.34	
4,4'-DDT	1	0		12.50	51.15		**		0.366			
3,3'-Dichlorobenzidine	1	0		13.03	51.27	50	20	0.01	0.416	0.427	2.54	
Benzo[a]anthracene	1	0		13.06	54.88	50	20	0.8	1.188	1.304	9.77	
Chrysene	1	0		13.10	45.69	50	20	0.7	1.166	1.066	8.61	
bis(2-Ethylhexyl)phthalate	1	0		13.09	51.03	50	20	0.01	0.855	0.873	2.07	
Perylene-d12	1	0	I	14.75	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.85	51.41	50	20	0.01	1.402	1.442	2.82	
Benzo[b]fluoranthene	1	0		14.30	51.91	50	20	0.7	1.148	1.191	3.83	
Benzo[k]fluoranthene	1	0		14.33	48.76	50	20	0.7	1.169	1.140	2.49	
Benzo[a]pyrene	1	0		14.68	51.12	50	20	0.7	1.066	1.090	2.24	
Indeno[1,2,3-cd]pyrene	1	0		16.20	49.69	50	20	0.5	1.295	1.287	0.62	
Dibenzo[a,h]anthracene	1	0		16.22	50.20	50	20	0.4	1.057	1.062	0.39	
Benzo[g,h,i]perylene	1	0		16.62	50.05	50	20	0.5	0.985	0.985	0.10	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA 50PPM **Data File:** 13M000414.D **Instrument:** GCMS 13

Cont Calibration Date/Time 12/18/2023 12:27:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.646	0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.922	0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA 50PPM **Data File:** 9M125918.D **Instrument:** GCMS 9

Cont Calibration Date/Time 12/19/2023 10:37:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.63	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.66	46.28	50	**		1.081	1.001	7.44	
Pyridine	1	0		3.12	48.56	50	**		2.229	2.165	2.89	
N-Nitrosodimethylamine	1	0		3.06	48.71	50	**		1.404	1.368	2.59	
2-Fluorophenol	1	0	S	4.65	49.82	50	**		2.205	2.197	0.35	
Benzaldehyde	1	0		5.47	49.18	50	20	0.01	1.908	1.876	1.64	
Aniline	1	0		5.56	48.91	50	**		3.337	3.265	2.18	
Pentachloroethane	1	0		5.60	50.59	50	**	0.05	0.781	0.790	1.17	
bis(2-Chloroethyl)ether	1	0		5.62	47.93	50	20	0.7	2.239	2.146	4.13	
Phenol-d5	1	0	S	5.53	50.53	50	**		2.729	2.758	1.06	
Phenol	1	0		5.54	50.97	50	20	0.8	2.962	3.019	1.94	
2-Chlorophenol	1	0		5.66	50.54	50	20	0.8	2.254	2.278	1.09	
N-Decane	1	0		5.71	49.87	50	**	0.05	2.574	2.567	0.26	
1,3-Dichlorobenzene	1	0		5.80	51.27	50	**		2.432	2.493	2.53	
1,4-Dichlorobenzene-d4	1	0	I	5.85	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.86	51.42	50	20		1.412	1.452	2.83	
1,2-Dichlorobenzene	1	0		5.99	50.58	50	**		1.334	1.350	1.17	
Benzyl alcohol	1	0		5.96	52.49	50	**		0.808	0.848	4.98	
bis(2-chloroisopropyl)ether	1	0		6.07	49.57	50	20	0.01	1.720	1.705	0.87	
2-Methylphenol	1	0		6.05	49.41	50	20	0.7	1.163	1.149	1.19	
Acetophenone	1	0		6.17	51.28	50	20	0.01	1.718	1.762	2.56	
Hexachloroethane	1	0		6.26	51.13	50	20	0.3	0.534	0.546	2.27	
N-Nitroso-di-n-propylamine	1	0		6.17	51.07	50	20	0.5	0.884	0.903	2.15	
3&4-Methylphenol	1	0		6.17	49.99	50	20		1.219	1.218	0.02	
Naphthalene-d8	1	0	I	6.86	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.30	24.74	25	**		0.170	0.168	1.03	
Nitrobenzene	1	0		6.31	50.01	50	20	0.2	0.334	0.334	0.02	
Isophorone	1	0		6.50	50.57	50	20	0.4	0.620	0.627	1.14	
2-Nitrophenol	1	0		6.56	50.99	50	20	0.1	0.182	0.185	1.99	
2,4-Dimethylphenol	1	0		6.59	49.82	50	20	0.2	0.296	0.295	0.36	
Benzoic Acid	1	0		6.65	35.28	50	**		0.144	0.113	29.43	
bis(2-Chloroethoxy)methane	1	0		6.66	48.95	50	20	0.3	0.381	0.373	2.10	
2,4-Dichlorophenol	1	0		6.74	50.07	50	20	0.2	0.281	0.281	0.14	
1,2,4-Trichlorobenzene	1	0		6.81	49.97	50	**		0.306	0.306	0.06	
Naphthalene	1	0		6.87	48.71	50	20	0.7	1.063	1.035	2.58	
4-Chloroaniline	1	0		6.91	47.44	50	20	0.01	0.411	0.390	5.13	
Hexachlorobutadiene	1	0		6.96	50.84	50	20	0.01	0.178	0.181	1.68	
Caprolactam	1	0		7.17	51.45	50	20	0.01	0.103	0.106	2.90	
4-Chloro-3-methylphenol	1	0		7.27	51.27	50	20	0.2	0.266	0.273	2.53	
2-Methylnaphthalene	1	0		7.41	50.12	50	**	0.4	0.670	0.672	0.24	
1-Methylnaphthalene	1	0		7.49	50.29	50	**	0.4	0.613	0.617	0.59	
Methylnaphthalenes	1	0		7.41	101.27	50	**			1.299	102.54	
1,1'-Biphenyl	1	0		7.78	50.28	50	20	0.01	0.803	0.807	0.55	
Acenaphthene-d10	1	0	I	8.29	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.54	51.66	50	20	0.01	0.598	0.618	3.32	
Hexachlorocyclopentadiene	1	0		7.53	48.16	50	20	0.05	0.311	0.299	3.68	
2,4,6-Trichlorophenol	1	0		7.63	56.40	50	20	0.2	0.338	0.381	12.80	
2,4,5-Trichlorophenol	1	0		7.66	48.25	50	20	0.2	0.364	0.351	3.49	
2-Fluorobiphenyl	1	0	S	7.70	25.27	25	**		1.363	1.378	1.08	
2-Chloronaphthalene	1	0		7.81	51.13	50	20	0.8	1.081	1.105	2.27	
1,4-Dimethylnaphthalene	1	0		8.09	50.29	50	**		0.860	0.865	0.58	
Dimethylnaphthalenes	1	0		8.09	50.29	50	20			0.865	0.58	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA 50PPM **Data File:** 9M125918.D **Instrument:** GCMS 9

Cont Calibration Date/Time 12/19/2023 10:37:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.87	51.09	50	**		0.803	0.820	2.18	
2-Nitroaniline	1	0		7.89	50.83	50	20	0.01	0.377	0.383	1.65	
Coumarin	1	0		8.07	52.15		**		0.414			
Acenaphthylene	1	0		8.16	51.11	50	20	0.9	1.634	1.671	2.21	
Dimethylphthalate	1	0		8.03	50.71	50	20	0.01	1.181	1.197	1.43	
2,6-Dinitrotoluene	1	0		8.09	52.42	50	20	0.2	0.264	0.277	4.85	
Acenaphthene	1	0		8.32	50.54	50	20	0.9	1.101	1.112	1.08	
3-Nitroaniline	1	0		8.23	52.09	50	20	0.01	0.301	0.314	4.17	
2,4-Dinitrophenol	1	0		8.33	44.38	50	20	0.2	0.147	0.141	11.24	
Dibenzofuran	1	0		8.47	47.49	50	20	0.8	1.631	1.549	5.02	
2,4-Dinitrotoluene	1	0		8.45	52.28	50	20	0.2	0.361	0.378	4.55	
4-Nitrophenol	1	0		8.36	51.98	50	20	0.01	0.213	0.222	3.95	
2,3,4,6-Tetrachlorophenol	1	0		8.57	52.63	50	20	0.01	0.294	0.309	5.25	
Fluorene	1	0		8.79	51.75	50	20	0.9	1.229	1.272	3.50	
4-Chlorophenyl-phenylether	1	0		8.78	50.66	50	20	0.4	0.606	0.614	1.31	
Diethylphthalate	1	0		8.66	50.65	50	20	0.01	1.137	1.152	1.31	
4-Nitroaniline	1	0		8.80	54.15	50	20	0.01	0.310	0.335	8.31	
Atrazine	1	0		9.42	52.17	50	20	0.01	0.362	0.378	4.34	
Phenanthrene-d10	1	0	I	9.75	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.83	48.36	50	20	0.01	0.123	0.119	3.27	
n-Nitrosodiphenylamine	1	0		8.89	50.02	50	20	0.01	0.594	0.594	0.03	
2,4,6-Tribromophenol	1	0	S	9.03	51.91	50	**		0.102	0.106	3.81	
1,2-Diphenylhydrazine	1	0		8.94	45.87	50	**		0.730	0.670	8.27	
4-Bromophenyl-phenylether	1	0		9.27	49.82	50	20	0.1	0.204	0.203	0.36	
Hexachlorobenzene	1	0		9.34	49.40	50	20	0.1	0.219	0.217	1.19	
N-Octadecane	1	0		9.60	48.07	50	**	0.05	0.451	0.433	3.86	
Pentachlorophenol	1	0		9.54	48.41	50	20	0.05	0.122	0.118	3.19	
Phenanthrene	1	0		9.77	50.01	50	20	0.7	1.002	1.002	0.01	
Anthracene	1	0		9.83	49.59	50	20	0.7	1.030	1.021	0.82	
Carbazole	1	0		10.00	50.52	50	20	0.01	0.952	0.962	1.03	
Di-n-butylphthalate	1	0		10.37	50.21	50	20	0.01	1.118	1.123	0.41	
Fluoranthene	1	0		11.10	50.17	50	20	0.6	1.160	1.164	0.34	
Chrysene-d12	1	0	I	12.80	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.37	50.34	50	20	0.6	1.236	1.245	0.67	
Benzidine	1	0		11.26	51.19	50	**		0.701	0.718	2.37	
Terphenyl-d14	1	0	S	11.55	24.86	25	**		0.899	0.894	0.54	
4,4'-DDE	1	0		11.49	49.82		**		0.252			
4,4'-DDD	1	0		11.89	50.61		**		0.430			
Butylbenzylphthalate	1	0		12.14	51.49	50	20	0.01	0.493	0.508	2.97	
4,4'-DDT	1	0		12.24	51.84		**		0.375			
3,3'-Dichlorobenzidine	1	0		12.76	51.64	50	20	0.01	0.417	0.431	3.28	
Benzo[a]anthracene	1	0		12.79	50.11	50	20	0.8	1.171	1.173	0.21	
Chrysene	1	0		12.83	52.03	50	20	0.7	1.089	1.133	4.06	
bis(2-Ethylhexyl)phthalate	1	0		12.83	53.56	50	20	0.01	0.665	0.712	7.11	
Perylene-d12	1	0	I	14.42	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.58	51.99	50	20	0.01	1.136	1.181	3.99	
Benzo[b]fluoranthene	1	0		14.00	51.04	50	20	0.7	1.125	1.148	2.08	
Benzo[k]fluoranthene	1	0		14.03	49.43	50	20	0.7	1.140	1.127	1.15	
Benzo[a]pyrene	1	0		14.36	51.43	50	20	0.7	1.057	1.087	2.85	
Indeno[1,2,3-cd]pyrene	1	0		15.74	50.36	50	20	0.5	1.219	1.228	0.72	
Dibenzo[a,h]anthracene	1	0		15.76	49.88	50	20	0.4	0.967	0.965	0.24	
Benzo[g,h,i]perylene	1	0		16.12	48.89	50	20	0.5	0.931	0.910	2.23	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA 50PPM **Data File:** 9M125918.D **Instrument:** GCMS 9

Cont Calibration Date/Time 12/19/2023 10:37:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.641	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.860	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA 50PPM **Data File:** 7M133886.D **Instrument:** GCMS 7

Cont Calibration Date/Time 12/19/2023 12:48:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	3.37	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		3.40	48.50	50	**		1.032	1.001	3.01	
Pyridine	1	0		3.76	52.81	50	**		2.174	2.296	5.62	
N-Nitrosodimethylamine	1	0		3.70	50.31	50	**		1.478	1.487	0.63	
2-Fluorophenol	1	0	S	4.96	49.97	50	**		2.455	2.453	0.07	
Benzaldehyde	1	0		5.70	49.97	50	20	0.01	2.054	2.053	0.07	
Aniline	1	0		5.78	49.04	50	**		3.616	3.547	1.91	
Pentachloroethane	1	0		5.82	49.22	50	**	0.05	0.865	0.852	1.55	
bis(2-Chloroethyl)ether	1	0		5.82	47.33	50	20	0.7	2.412	2.283	5.33	
Phenol-d5	1	0	S	5.73	50.95	50	**		2.982	3.039	1.91	
Phenol	1	0		5.74	50.40	50	20	0.8	3.266	3.292	0.81	
2-Chlorophenol	1	0		5.87	51.01	50	20	0.8	2.457	2.507	2.03	
N-Decane	1	0		5.90	46.97	50	**	0.05	2.193	2.060	6.07	
1,3-Dichlorobenzene	1	0		5.99	49.35	50	**		2.746	2.710	1.30	
1,4-Dichlorobenzene-d4	1	0	I	6.04	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		6.05	50.58	50	20		1.424	1.440	1.17	
1,2-Dichlorobenzene	1	0		6.17	50.34	50	**		1.344	1.353	0.68	
Benzyl alcohol	1	0		6.14	52.50	50	**		0.784	0.823	5.01	
bis(2-chloroisopropyl)ether	1	0		6.23	47.91	50	20	0.01	1.290	1.236	4.19	
2-Methylphenol	1	0		6.22	51.18	50	20	0.7	1.174	1.202	2.35	
Acetophenone	1	0		6.34	52.06	50	20	0.01	1.767	1.840	4.12	
Hexachloroethane	1	0		6.43	50.85	50	20	0.3	0.529	0.538	1.71	
N-Nitroso-di-n-propylamine	1	0		6.34	49.37	50	20	0.5	0.858	0.847	1.25	
3&4-Methylphenol	1	0		6.33	50.20	50	20		1.249	1.254	0.39	
Naphthalene-d8	1	0	I	7.01	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.46	25.28	25	**		0.165	0.167	1.13	
Nitrobenzene	1	0		6.47	51.00	50	20	0.2	0.318	0.324	2.00	
Isophorone	1	0		6.65	50.74	50	20	0.4	0.613	0.622	1.47	
2-Nitrophenol	1	0		6.71	53.00	50	20	0.1	0.187	0.198	6.01	
2,4-Dimethylphenol	1	0		6.73	50.40	50	20	0.2	0.292	0.295	0.80	
Benzoic Acid	1	0		6.80	45.17	50	**		0.245	0.222	9.65	
bis(2-Chloroethoxy)methane	1	0		6.80	50.65	50	20	0.3	0.359	0.364	1.30	
2,4-Dichlorophenol	1	0		6.89	52.33	50	20	0.2	0.276	0.289	4.67	
1,2,4-Trichlorobenzene	1	0		6.96	49.92	50	**		0.301	0.300	0.17	
Naphthalene	1	0		7.02	48.85	50	20	0.7	1.008	0.984	2.30	
4-Chloroaniline	1	0		7.05	51.03	50	20	0.01	0.390	0.398	2.07	
Hexachlorobutadiene	1	0		7.11	50.59	50	20	0.01	0.169	0.171	1.17	
Caprolactam	1	0		7.33	47.62	50	20	0.01	0.107	0.102	4.75	
4-Chloro-3-methylphenol	1	0		7.42	51.91	50	20	0.2	0.274	0.284	3.81	
2-Methylnaphthalene	1	0		7.56	51.05	50	**	0.4	0.677	0.691	2.11	
1-Methylnaphthalene	1	0		7.64	51.33	50	**	0.4	0.613	0.629	2.67	
Methylnaphthalenes	1	0		7.56	102.84	50	**			1.325	105.69	
1,1'-Biphenyl	1	0		7.93	51.57	50	20	0.01	0.816	0.841	3.15	
Acenaphthene-d10	1	0	I	8.45	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.69	50.18	50	20	0.01	0.535	0.537	0.37	
Hexachlorocyclopentadiene	1	0		7.68	45.86	50	20	0.05	0.272	0.267	8.28	
2,4,6-Trichlorophenol	1	0		7.78	50.24	50	20	0.2	0.343	0.345	0.48	
2,4,5-Trichlorophenol	1	0		7.82	44.87	50	20	0.2	0.367	0.329	10.26	
2-Fluorobiphenyl	1	0	S	7.85	25.13	25	**		1.293	1.300	0.53	
2-Chloronaphthalene	1	0		7.96	50.15	50	20	0.8	1.044	1.047	0.31	
1,4-Dimethylnaphthalene	1	0		8.25	49.34	50	**		0.835	0.824	1.32	
Dimethylnaphthalenes	1	0		8.25	49.34	50	20			0.824	1.32	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA 50PPM **Data File:** 7M133886.D **Instrument:** GCMS 7

Cont Calibration Date/Time 12/19/2023 12:48:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		8.02	49.26	50	**		0.780	0.769	1.49	
2-Nitroaniline	1	0		8.04	50.41	50	20	0.01	0.326	0.329	0.82	
Coumarin	1	0		8.23	50.05		**		0.438			
Acenaphthylene	1	0		8.33	49.36	50	20	0.9	1.629	1.609	1.28	
Dimethylphthalate	1	0		8.18	50.97	50	20	0.01	1.240	1.264	1.93	
2,6-Dinitrotoluene	1	0		8.25	52.12	50	20	0.2	0.282	0.294	4.23	
Acenaphthene	1	0		8.49	49.29	50	20	0.9	1.053	1.038	1.41	
3-Nitroaniline	1	0		8.41	50.08	50	20	0.01	0.313	0.314	0.16	
2,4-Dinitrophenol	1	0		8.50	52.91	50	20	0.2	0.167	0.177	5.82	
Dibenzofuran	1	0		8.65	49.10	50	20	0.8	1.577	1.549	1.80	
2,4-Dinitrotoluene	1	0		8.62	52.66	50	20	0.2	0.389	0.410	5.31	
4-Nitrophenol	1	0		8.55	47.23	50	20	0.01	0.190	0.179	5.54	
2,3,4,6-Tetrachlorophenol	1	0		8.75	50.32	50	20	0.01	0.320	0.322	0.64	
Fluorene	1	0		8.97	51.08	50	20	0.9	1.235	1.262	2.15	
4-Chlorophenyl-phenylether	1	0		8.96	50.02	50	20	0.4	0.607	0.607	0.04	
Diethylphthalate	1	0		8.83	50.68	50	20	0.01	1.227	1.244	1.36	
4-Nitroaniline	1	0		9.00	51.94	50	20	0.01	0.331	0.344	3.88	
Atrazine	1	0		9.62	51.75	50	20	0.01	0.374	0.387	3.49	
Phenanthrene-d10	1	0	I	9.96	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		9.02	52.59	50	20	0.01	0.130	0.137	5.17	
n-Nitrosodiphenylamine	1	0		9.07	50.89	50	20	0.01	0.569	0.579	1.79	
2,4,6-Tribromophenol	1	0	S	9.22	49.42	50	**		0.108	0.107	1.15	
1,2-Diphenylhydrazine	1	0		9.12	51.12	50	**		0.651	0.665	2.24	
4-Bromophenyl-phenylether	1	0		9.46	50.37	50	20	0.1	0.194	0.196	0.74	
Hexachlorobenzene	1	0		9.53	49.63	50	20	0.1	0.214	0.212	0.74	
N-Octadecane	1	0		9.79	48.96	50	**	0.05	0.350	0.342	2.09	
Pentachlorophenol	1	0		9.74	49.97	50	20	0.05	0.143	0.143	0.05	
Phenanthrene	1	0		9.98	50.38	50	20	0.7	0.950	0.957	0.77	
Anthracene	1	0		10.04	50.58	50	20	0.7	0.976	0.988	1.15	
Carbazole	1	0		10.21	51.11	50	20	0.01	0.929	0.949	2.22	
Di-n-butylphthalate	1	0		10.58	50.91	50	20	0.01	1.172	1.193	1.82	
Fluoranthene	1	0		11.34	52.32	50	20	0.6	1.092	1.143	4.63	
Chrysene-d12	1	0	I	13.05	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.61	50.92	50	20	0.6	1.256	1.280	1.84	
Benzidine	1	0		11.49	49.96	50	**		0.723	0.723	0.08	
Terphenyl-d14	1	0	S	11.78	25.10	25	**		0.939	0.943	0.39	
4,4'-DDE	1	0		11.71	49.77		**		0.271			
4,4'-DDD	1	0		12.12	51.45		**		0.466			
Butylbenzylphthalate	1	0		12.37	50.64	50	20	0.01	0.588	0.596	1.29	
4,4'-DDT	1	0		12.48	53.00		**		0.390			
3,3'-Dichlorobenzidine	1	0		13.01	49.98	50	20	0.01	0.460	0.460	0.03	
Benzo[a]anthracene	1	0		13.04	50.76	50	20	0.8	1.185	1.203	1.51	
Chrysene	1	0		13.09	50.21	50	20	0.7	1.062	1.066	0.42	
bis(2-Ethylhexyl)phthalate	1	0		13.06	50.87	50	20	0.01	0.791	0.805	1.75	
Perylene-d12	1	0	I	14.74	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.82	50.17	50	20	0.01	1.400	1.405	0.34	
Benzo[b]fluoranthene	1	0		14.28	51.06	50	20	0.7	1.153	1.177	2.13	
Benzo[k]fluoranthene	1	0		14.32	51.10	50	20	0.7	1.092	1.116	2.20	
Benzo[a]pyrene	1	0		14.67	50.99	50	20	0.7	1.064	1.086	1.98	
Indeno[1,2,3-cd]pyrene	1	0		16.22	51.31	50	20	0.5	1.269	1.302	2.63	
Dibenzo[a,h]anthracene	1	0		16.24	51.01	50	20	0.4	1.019	1.039	2.02	
Benzo[g,h,i]perylene	1	0		16.65	50.66	50	20	0.5	0.970	0.983	1.32	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA 50PPM **Data File:** 7M133886.D **Instrument:** GCMS 7

Cont Calibration Date/Time 12/19/2023 12:48:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.644	0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.835	0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA 50PPM **Data File:** 7M133932.D **Instrument:** GCMS 7

Cont Calibration Date/Time 12/22/2023 10:44:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	3.36	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		3.39	46.81	50	**		1.032	0.966	6.39	
Pyridine	1	0		3.75	51.88	50	**		2.174	2.255	3.75	
N-Nitrosodimethylamine	1	0		3.70	50.92	50	**		1.478	1.505	1.85	
2-Fluorophenol	1	0	S	4.96	51.69	50	**		2.455	2.538	3.37	
Benzaldehyde	1	0		5.69	51.15	50	20	0.01	2.054	2.102	2.30	
Aniline	1	0		5.78	49.23	50	**		3.616	3.560	1.55	
Pentachloroethane	1	0		5.81	49.14	50	**	0.05	0.865	0.850	1.72	
bis(2-Chloroethyl)ether	1	0		5.82	48.46	50	20	0.7	2.412	2.337	3.08	
Phenol-d5	1	0	S	5.73	51.99	50	**		2.982	3.101	3.97	
Phenol	1	0		5.74	51.33	50	20	0.8	3.266	3.353	2.65	
2-Chlorophenol	1	0		5.87	51.36	50	20	0.8	2.457	2.524	2.72	
N-Decane	1	0		5.90	48.40	50	**	0.05	2.193	2.123	3.21	
1,3-Dichlorobenzene	1	0		5.99	50.39	50	**		2.746	2.767	0.78	
1,4-Dichlorobenzene-d4	1	0	I	6.04	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		6.05	48.97	50	20		1.424	1.394	2.07	
1,2-Dichlorobenzene	1	0		6.17	49.98	50	**		1.344	1.343	0.03	
Benzyl alcohol	1	0		6.14	52.72	50	**		0.784	0.826	5.44	
bis(2-chloroisopropyl)ether	1	0		6.23	47.54	50	20	0.01	1.290	1.226	4.92	
2-Methylphenol	1	0		6.22	49.23	50	20	0.7	1.174	1.156	1.55	
Acetophenone	1	0		6.34	50.22	50	20	0.01	1.767	1.775	0.44	
Hexachloroethane	1	0		6.43	50.67	50	20	0.3	0.529	0.536	1.33	
N-Nitroso-di-n-propylamine	1	0		6.34	48.98	50	20	0.5	0.858	0.841	2.04	
3&4-Methylphenol	1	0		6.33	49.54	50	20		1.249	1.237	0.93	
Naphthalene-d8	1	0	I	7.01	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.46	25.51	25	**		0.165	0.168	2.02	
Nitrobenzene	1	0		6.48	50.53	50	20	0.2	0.318	0.321	1.06	
Isophorone	1	0		6.65	50.52	50	20	0.4	0.613	0.620	1.04	
2-Nitrophenol	1	0		6.71	52.08	50	20	0.1	0.187	0.195	4.16	
2,4-Dimethylphenol	1	0		6.73	49.91	50	20	0.2	0.292	0.292	0.19	
Benzoic Acid	1	0		6.80	45.85	50	**		0.245	0.225	8.30	
bis(2-Chloroethoxy)methane	1	0		6.80	49.54	50	20	0.3	0.359	0.356	0.93	
2,4-Dichlorophenol	1	0		6.89	51.59	50	20	0.2	0.276	0.284	3.17	
1,2,4-Trichlorobenzene	1	0		6.96	50.42	50	**		0.301	0.303	0.83	
Naphthalene	1	0		7.02	47.59	50	20	0.7	1.008	0.959	4.81	
4-Chloroaniline	1	0		7.06	49.40	50	20	0.01	0.390	0.385	1.20	
Hexachlorobutadiene	1	0		7.11	49.59	50	20	0.01	0.169	0.168	0.83	
Caprolactam	1	0		7.34	47.95	50	20	0.01	0.107	0.103	4.10	
4-Chloro-3-methylphenol	1	0		7.42	50.98	50	20	0.2	0.274	0.279	1.97	
2-Methylnaphthalene	1	0		7.56	50.16	50	**	0.4	0.677	0.679	0.31	
1-Methylnaphthalene	1	0		7.64	50.21	50	**	0.4	0.613	0.616	0.43	
Methylnaphthalenes	1	0		7.56	100.59	50	**			1.296	101.18	
1,1'-Biphenyl	1	0		7.94	50.22	50	20	0.01	0.816	0.819	0.44	
Acenaphthene-d10	1	0	I	8.46	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.69	49.47	50	20	0.01	0.535	0.529	1.06	
Hexachlorocyclopentadiene	1	0		7.68	39.90	50	20	0.05	0.272	0.232	20.19	
2,4,6-Trichlorophenol	1	0		7.78	51.41	50	20	0.2	0.343	0.353	2.81	
2,4,5-Trichlorophenol	1	0		7.82	51.51	50	20	0.2	0.367	0.378	3.02	
2-Fluorobiphenyl	1	0	S	7.85	24.97	25	**		1.293	1.291	0.13	
2-Chloronaphthalene	1	0		7.96	49.79	50	20	0.8	1.044	1.039	0.43	
1,4-Dimethylnaphthalene	1	0		8.25	49.28	50	**		0.835	0.823	1.44	
Dimethylnaphthalenes	1	0		8.25	49.28	50	20			0.823	1.44	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA 50PPM **Data File:** 7M133932.D **Instrument:** GCMS 7

Cont Calibration Date/Time 12/22/2023 10:44:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		8.02	49.00	50	**		0.780	0.765	2.00	
2-Nitroaniline	1	0		8.05	51.58	50	20	0.01	0.326	0.336	3.16	
Coumarin	1	0		8.23	50.01		**		0.438			
Acenaphthylene	1	0		8.33	49.68	50	20	0.9	1.629	1.619	0.64	
Dimethylphthalate	1	0		8.19	50.87	50	20	0.01	1.240	1.261	1.73	
2,6-Dinitrotoluene	1	0		8.25	50.46	50	20	0.2	0.282	0.284	0.92	
Acenaphthene	1	0		8.49	49.58	50	20	0.9	1.053	1.045	0.83	
3-Nitroaniline	1	0		8.41	51.15	50	20	0.01	0.313	0.321	2.30	
2,4-Dinitrophenol	1	0		8.50	35.44	50	20	0.2	0.167	0.119	29.12	C1
Dibenzofuran	1	0		8.65	48.10	50	20	0.8	1.577	1.517	3.80	
2,4-Dinitrotoluene	1	0		8.62	52.87	50	20	0.2	0.389	0.411	5.74	
4-Nitrophenol	1	0		8.55	48.46	50	20	0.01	0.190	0.184	3.07	
2,3,4,6-Tetrachlorophenol	1	0		8.76	49.83	50	20	0.01	0.320	0.319	0.34	
Fluorene	1	0		8.97	50.18	50	20	0.9	1.235	1.240	0.36	
4-Chlorophenyl-phenylether	1	0		8.96	49.92	50	20	0.4	0.607	0.606	0.15	
Diethylphthalate	1	0		8.83	50.83	50	20	0.01	1.227	1.247	1.65	
4-Nitroaniline	1	0		9.00	52.55	50	20	0.01	0.331	0.348	5.10	
Atrazine	1	0		9.62	51.42	50	20	0.01	0.374	0.385	2.83	
Phenanthrene-d10	1	0	I	9.96	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		9.02	42.54	50	20	0.01	0.130	0.110	14.93	
n-Nitrosodiphenylamine	1	0		9.08	50.90	50	20	0.01	0.569	0.579	1.79	
2,4,6-Tribromophenol	1	0	S	9.22	49.33	50	**		0.108	0.107	1.34	
1,2-Diphenylhydrazine	1	0		9.12	51.52	50	**		0.651	0.671	3.04	
4-Bromophenyl-phenylether	1	0		9.46	50.12	50	20	0.1	0.194	0.195	0.24	
Hexachlorobenzene	1	0		9.53	48.83	50	20	0.1	0.214	0.209	2.35	
N-Octadecane	1	0		9.79	51.06	50	**	0.05	0.350	0.357	2.12	
Pentachlorophenol	1	0		9.74	50.12	50	20	0.05	0.143	0.143	0.24	
Phenanthrene	1	0		9.99	49.70	50	20	0.7	0.950	0.944	0.60	
Anthracene	1	0		10.04	49.98	50	20	0.7	0.976	0.976	0.04	
Carbazole	1	0		10.21	50.58	50	20	0.01	0.929	0.940	1.15	
Di-n-butylphthalate	1	0		10.58	51.79	50	20	0.01	1.172	1.214	3.58	
Fluoranthene	1	0		11.34	51.00	50	20	0.6	1.092	1.114	2.00	
Chrysene-d12	1	0	I	13.05	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.60	51.63	50	20	0.6	1.256	1.297	3.27	
Benzidine	1	0		11.49	50.05	50	**		0.723	0.724	0.10	
Terphenyl-d14	1	0	S	11.78	25.69	25	**		0.939	0.965	2.75	
4,4'-DDE	1	0		11.71	52.07		**		0.271			
4,4'-DDD	1	0		12.12	52.47		**		0.466			
Butylbenzylphthalate	1	0		12.37	53.69	50	20	0.01	0.588	0.632	7.39	
4,4'-DDT	1	0		12.48	49.36		**		0.390			
3,3'-Dichlorobenzidine	1	0		13.01	52.56	50	20	0.01	0.460	0.484	5.13	
Benzo[a]anthracene	1	0		13.04	50.77	50	20	0.8	1.185	1.203	1.53	
Chrysene	1	0		13.09	49.81	50	20	0.7	1.062	1.058	0.37	
bis(2-Ethylhexyl)phthalate	1	0		13.06	52.43	50	20	0.01	0.791	0.829	4.86	
Perylene-d12	1	0	I	14.74	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.82	54.19	50	20	0.01	1.400	1.517	8.38	
Benzo[b]fluoranthene	1	0		14.28	51.48	50	20	0.7	1.153	1.187	2.97	
Benzo[k]fluoranthene	1	0		14.32	50.20	50	20	0.7	1.092	1.096	0.40	
Benzo[a]pyrene	1	0		14.67	50.28	50	20	0.7	1.064	1.070	0.56	
Indeno[1,2,3-cd]pyrene	1	0		16.22	49.21	50	20	0.5	1.269	1.249	1.57	
Dibenzo[a,h]anthracene	1	0		16.24	49.48	50	20	0.4	1.019	1.008	1.04	
Benzo[g,h,i]perylene	1	0		16.65	49.00	50	20	0.5	0.970	0.951	2.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA 50PPM **Data File:** 7M133932.D **Instrument:** GCMS 7

Cont Calibration Date/Time 12/22/2023 10:44:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.644	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.835	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA 50PPM **Data File:** 5M126653.D **Instrument:** GCMS 5

Cont Calibration Date/Time 12/22/2023 4:03:00 P Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.44	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.46	56.08	50	**		0.880	0.987	12.17	
Pyridine	1	0		2.91	53.61	50	**		1.797	1.927	7.23	
N-Nitrosodimethylamine	1	0		2.84	57.67	50	**		1.295	1.493	15.34	
2-Fluorophenol	1	0	S	4.49	54.58	50	**		1.433	1.564	9.15	
Benzaldehyde	1	0		5.33	54.74	50	20	0.01	0.823	1.012	9.48	
Aniline	1	0		5.42	50.73	50	**		1.829	1.855	1.47	
Pentachloroethane	1	0		5.45	56.81	50	**	0.05	0.523	0.595	13.61	
bis(2-Chloroethyl)ether	1	0		5.48	50.99	50	20	0.7	1.562	1.593	1.97	
Phenol-d5	1	0	S	5.39	54.22	50	**		1.791	1.942	8.43	
Phenol	1	0		5.40	59.22	50	20	0.8	2.092	2.478	18.45	
2-Chlorophenol	1	0		5.51	57.45	50	20	0.8	1.617	1.858	14.90	
N-Decane	1	0		5.55	42.92	50	**	0.05	1.383	1.188	14.16	
1,3-Dichlorobenzene	1	0		5.65	56.84	50	**		2.002	2.276	13.69	
1,4-Dichlorobenzene-d4	1	0	I	5.70	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.71	46.26	50	20		1.439	1.332	7.47	
1,2-Dichlorobenzene	1	0		5.83	45.62	50	**		1.369	1.249	8.76	
Benzyl alcohol	1	0		5.82	44.16	50	**		0.739	0.653	11.68	
bis(2-chloroisopropyl)ether	1	0		5.92	34.06	50	20	0.01	1.086	0.740	31.87	C1
2-Methylphenol	1	0		5.91	46.30	50	20	0.7	0.979	0.907	7.41	
Acetophenone	1	0		6.03	52.10	50	20	0.01	1.500	1.563	4.20	
Hexachloroethane	1	0		6.11	49.71	50	20	0.3	0.499	0.496	0.58	
N-Nitroso-di-n-propylamine	1	0		6.03	50.67	50	20	0.5	0.803	0.813	1.34	
3&4-Methylphenol	1	0		6.04	48.66	50	20		1.010	0.983	2.69	
Naphthalene-d8	1	0	I	6.71	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.16	27.51	25	**		0.136	0.149	10.04	
Nitrobenzene	1	0		6.17	55.10	50	20	0.2	0.337	0.371	10.21	
Isophorone	1	0		6.35	55.23	50	20	0.4	0.603	0.666	10.47	
2-Nitrophenol	1	0		6.42	57.74	50	20	0.1	0.174	0.200	15.49	
2,4-Dimethylphenol	1	0		6.45	56.33	50	20	0.2	0.224	0.252	12.65	
Benzoic Acid	1	0		6.53	35.73	50	**		0.210	0.154	28.55	
bis(2-Chloroethoxy)methane	1	0		6.52	47.44	50	20	0.3	0.341	0.323	5.12	
2,4-Dichlorophenol	1	0		6.60	58.48	50	20	0.2	0.302	0.353	16.96	
1,2,4-Trichlorobenzene	1	0		6.66	56.31	50	**		0.379	0.426	12.62	
Naphthalene	1	0		6.72	48.85	50	20	0.7	0.970	0.948	2.31	
4-Chloroaniline	1	0		6.76	50.39	50	20	0.01	0.327	0.329	0.77	
Hexachlorobutadiene	1	0		6.81	60.56	50	20	0.01	0.249	0.302	21.13	C1
Caprolactam	1	0		7.05	54.34	50	20	0.01	0.090	0.097	8.68	
4-Chloro-3-methylphenol	1	0		7.13	57.77	50	20	0.2	0.276	0.318	15.54	
2-Methylnaphthalene	1	0		7.25	53.17	50	**	0.4	0.691	0.735	6.33	
1-Methylnaphthalene	1	0		7.33	53.73	50	**	0.4	0.636	0.684	7.47	
Methylnaphthalenes	1	0		7.33	106.77	50	**			1.423	113.55	
1,1'-Biphenyl	1	0		7.62	55.38	50	20	0.01	0.850	0.942	10.75	
Acenaphthene-d10	1	0	I	8.12	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.38	54.45	50	20	0.01	0.679	0.740	8.91	
Hexachlorocyclopentadiene	1	0		7.37	5.12	50	20	0.05	0.270	0.028	89.75	C1
2,4,6-Trichlorophenol	1	0		7.48	54.24	50	20	0.2	0.378	0.410	8.47	
2,4,5-Trichlorophenol	1	0		7.52	56.89	50	20	0.2	0.397	0.451	13.77	
2-Fluorobiphenyl	1	0	S	7.53	25.60	25	**		1.298	1.329	2.40	
2-Chloronaphthalene	1	0		7.65	50.80	50	20	0.8	1.111	1.129	1.59	
1,4-Dimethylnaphthalene	1	0		7.92	52.89	50	**		0.799	0.845	5.79	
Dimethylnaphthalenes	1	0		7.92	52.89	50	20			0.845	5.79	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA 50PPM **Data File:** 5M126653.D **Instrument:** GCMS 5

Cont Calibration Date/Time 12/22/2023 4:03:00 P Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.70	54.40	50	**		0.804	0.875	8.80	
2-Nitroaniline	1	0		7.73	62.50	50	20	0.01	0.339	0.424	25.00	C1
Coumarin	1	0		7.91	50.30		**		0.379			
Acenaphthylene	1	0		8.00	48.31	50	20	0.9	1.619	1.564	3.38	
Dimethylphthalate	1	0		7.86	54.25	50	20	0.01	1.279	1.387	8.50	
2,6-Dinitrotoluene	1	0		7.93	55.13	50	20	0.2	0.266	0.294	10.26	
Acenaphthene	1	0		8.15	48.60	50	20	0.9	1.059	1.030	2.81	
3-Nitroaniline	1	0		8.08	52.36	50	20	0.01	0.260	0.272	4.72	
2,4-Dinitrophenol	1	0		8.19	41.75	50	20	0.2	0.178	0.140	16.50	
Dibenzofuran	1	0		8.30	49.47	50	20	0.8	1.652	1.634	1.06	
2,4-Dinitrotoluene	1	0		8.29	55.79	50	20	0.2	0.373	0.417	11.58	
4-Nitrophenol	1	0		8.23	39.45	50	20	0.01	0.210	0.165	21.09	C1
2,3,4,6-Tetrachlorophenol	1	0		8.41	53.98	50	20	0.01	0.362	0.391	7.95	
Fluorene	1	0		8.62	52.85	50	20	0.9	1.285	1.358	5.69	
4-Chlorophenyl-phenylether	1	0		8.61	54.22	50	20	0.4	0.689	0.747	8.45	
Diethylphthalate	1	0		8.48	54.28	50	20	0.01	1.226	1.331	8.56	
4-Nitroaniline	1	0		8.64	51.15	50	20	0.01	0.276	0.282	2.29	
Atrazine	1	0		9.25	51.61	50	20	0.01	0.391	0.403	3.22	
Phenanthrene-d10	1	0	I	9.57	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.68	42.58	50	20	0.01	0.125	0.108	14.83	
n-Nitrosodiphenylamine	1	0		8.72	51.29	50	20	0.01	0.536	0.550	2.58	
2,4,6-Tribromophenol	1	0	S	8.85	57.00	50	**		0.108	0.123	14.00	
1,2-Diphenylhydrazine	1	0		8.76	47.98	50	**		0.603	0.578	4.04	
4-Bromophenyl-phenylether	1	0		9.09	56.22	50	20	0.1	0.215	0.242	12.44	
Hexachlorobenzene	1	0		9.16	57.00	50	20	0.1	0.241	0.274	13.99	
N-Octadecane	1	0		9.42	41.03	50	**	0.05	0.264	0.216	17.95	
Pentachlorophenol	1	0		9.37	39.85	50	20	0.05	0.152	0.122	20.30	
Phenanthrene	1	0		9.59	49.27	50	20	0.7	0.975	0.961	1.45	
Anthracene	1	0		9.65	51.20	50	20	0.7	0.963	0.986	2.39	
Carbazole	1	0		9.82	47.79	50	20	0.01	0.896	0.856	4.43	
Di-n-butylphthalate	1	0		10.19	53.96	50	20	0.01	0.994	1.073	7.91	
Fluoranthene	1	0		10.92	52.01	50	20	0.6	1.157	1.203	4.02	
Chrysene-d12	1	0	I	12.62	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.18	45.97	50	20	0.6	1.220	1.122	8.05	
Benzidine	1	0		11.08	33.77	50	**		0.383	0.259	32.46	
Terphenyl-d14	1	0	S	11.36	24.18	25	**		0.852	0.824	3.30	
4,4'-DDE	1	0		11.29	51.14		**		0.282			
4,4'-DDD	1	0		11.70	51.34		**		0.434			
Butylbenzylphthalate	1	0		11.95	48.10	50	20	0.01	0.433	0.458	3.81	
4,4'-DDT	1	0		12.05	52.52		**		0.389			
3,3'-Dichlorobenzidine	1	0		12.58	57.82	50	20	0.01	0.396	0.458	15.63	
Benzo[a]anthracene	1	0		12.61	47.86	50	20	0.8	1.260	1.206	4.28	
Chrysene	1	0		12.65	48.50	50	20	0.7	1.168	1.133	3.00	
bis(2-Ethylhexyl)phthalate	1	0		12.64	56.06	50	20	0.01	0.594	0.666	12.11	
Perylene-d12	1	0	I	14.23	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.38	54.20	50	20	0.01	1.034	1.153	8.39	
Benzo[b]fluoranthene	1	0		13.83	53.83	50	20	0.7	1.179	1.269	7.67	
Benzo[k]fluoranthene	1	0		13.85	48.85	50	20	0.7	1.187	1.159	2.30	
Benzo[a]pyrene	1	0		14.17	51.82	50	20	0.7	1.097	1.137	3.64	
Indeno[1,2,3-cd]pyrene	1	0		15.51	51.32	50	20	0.5	1.384	1.421	2.64	
Dibenzo[a,h]anthracene	1	0		15.51	52.21	50	20	0.4	1.131	1.181	4.42	
Benzo[g,h,i]perylene	1	0		15.87	48.85	50	20	0.5	1.076	1.051	2.30	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA 50PPM **Data File:** 5M126653.D **Instrument:** GCMS 5

Cont Calibration Date/Time 12/22/2023 4:03:00 P Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.799	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.666	0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

FORM8

Internal Standard Areas

Evaluation Std Data File: 5M125271.D Method: EPA 8270E

Analysis Date/Time: 10/19/23 12:05

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	66937	2.45	94172	5.71	333085	6.72	217510	8.13	391590	9.58	364243	12.62	359909	14.22
Eval File Area Limit:	33468-133874		47086-188344		166542-666170		108755-435020		195795-783180		182122-728486		179954-719818	
Eval File Rt Limit:	1.95-2.95		5.21-6.21		6.22-7.22		7.63-8.63		9.08-10.08		12.12-13.12		13.72-14.72	

Data File	Sample#													
5M125267.D	CAL BNA@196PPM	59209	2.44	79834	5.71	281592	6.72	182713	8.13	364600	9.58	357998	12.63	346792	14.23
5M125268.D	CAL BNA@160PPM	59460	2.45	87732	5.71	319765	6.72	198114	8.13	394385	9.58	398665	12.62	403419	14.22
5M125269.D	CAL BNA@120PPM	65539	2.44	86174	5.71	303445	6.72	199469	8.14	406932	9.58	374214	12.62	379012	14.22
5M125270.D	CAL BNA@80PPM	66156	2.45	87695	5.71	308106	6.72	218925	8.13	425679	9.58	378542	12.62	444666	14.22
5M125271.D	CAL BNA@50PPM	66937	2.45	94172	5.71	333085	6.72	217510	8.13	391590	9.58	364243	12.62	359909	14.22
5M125272.D	CAL BNA@10PPM	65501	2.45	88137	5.70	314994	6.72	202735	8.13	397332	9.57	391154	12.61	373655	14.21
5M125273.D	CAL BNA@2PPM	59185	2.44	92686	5.70	325624	6.72	202112	8.13	401410	9.57	378494	12.61	382634	14.21
5M125274.D	CAL BNA@0.5PPM	56708	2.45	92187	5.70	329581	6.72	238013	8.13	461977	9.57	434727	12.61	439973	14.21
5M125275.D	CAL BNA@20PPM	64287	2.44	92470	5.70	316054	6.72	196230	8.13	428015	9.57	442815	12.61	417067	14.21
5M125276.D	ICV BNA@50PPM	58836	2.45	80272	5.71	279322	6.72	176530	8.13	364136	9.58	428287	12.62	374430	14.22
5M125277.D	BNA@50PPM	61319	2.44	80028	5.71	267273	6.72	166836	8.13	328403	9.58	329083	12.62	328826	14.22
5M125278.D	BNA@50PPM	54214	2.45	79239	5.71	285926	6.72	184629	8.13	405796	9.57	378229	12.62	400604	14.22

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 13M000398.D Method: EPA 8270E

Analysis Date/Time: 12/17/23 14:31

Lab File ID: CAL BNA 50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	53709	2.85	98757	6.00	367788	7.01	206220	8.47	353006	9.96	303001	13.06	287211	14.74
Eval File Area Limit:	26854-107418		49378-197514		183894-735576		103110-412440		176503-706012		151500-606002		143606-574422	
Eval File Rt Limit:	2.35-3.35		5.5-6.5		6.51-7.51		7.97-8.97		9.46-10.46		12.56-13.56		14.24-15.24	

Data File	Sample#													
13M000394.D	CAL BNA196PPM	64201	2.85	113001	6.00	395216	7.01	210625	8.47	357350	9.97	321489	13.07	303145	14.75
13M000395.D	CAL BNA 160PPM	53901	2.85	98338	6.00	352593	7.01	196975	8.47	336265	9.96	301232	13.07	284074	14.74
13M000396.D	CAL BNA 120PPM	51324	2.85	95366	6.00	348124	7.01	193563	8.47	329661	9.96	288451	13.07	277689	14.74
13M000397.D	CAL BNA 80PPM	52605	2.85	98264	6.00	361256	7.01	203174	8.47	346485	9.96	300741	13.06	286796	14.74
13M000398.D	CAL BNA 50PPM	53709	2.85	98757	6.00	367788	7.01	206220	8.47	353006	9.96	303001	13.06	287211	14.74
13M000399.D	CAL BNA 20PPM	51931	2.85	96359	6.00	365347	7.01	207008	8.47	358371	9.96	296892	13.06	287214	14.74
13M000400.D	CAL BNA10PPM	50069	2.85	93545	6.00	352676	7.01	202828	8.47	350762	9.96	295488	13.06	282544	14.74
13M000401.D	CAL BNA 2PPM	51356	2.85	96078	6.00	360281	7.01	207867	8.47	357726	9.96	288093	13.06	276789	14.74
13M000402.D	CAL BNA 0.5PPM	48147	2.85	90947	6.00	341150	7.01	196451	8.47	338305	9.96	266833	13.06	260261	14.74
13M000403.D	BNA 50PPM	49137	2.84	91540	6.00	340027	7.01	190683	8.47	323893	9.97	279629	13.07	264640	14.74
13M000404.D	ICV BNA 50PPM	45749	2.85	87055	6.00	324001	7.01	181626	8.47	312306	9.97	266089	13.07	249912	14.75
13M000406.D	TEST	55809	2.85	104018	6.00	387214	7.01	214353	8.47	370455	9.97	318084	13.07	301932	14.75
13M000407.D	MBS-1	55683	2.85	101685	6.00	363295	7.01	202331	8.47	348360	9.97	299280	13.07	285585	14.75
13M000408.D	MBS-2	48249	2.85	89662	6.00	328015	7.01	183540	8.47	311461	9.96	277385	13.06	258444	14.74
13M000409.D	MBS-3	49215	2.85	90463	6.00	338557	7.01	188503	8.47	324057	9.96	284012	13.06	264592	14.74
13M000410.D	MBS-4	45418	2.85	83490	6.00	309741	7.01	174409	8.47	296416	9.96	255878	13.06	243846	14.74
13M000411.D	MBS-5	51742	2.85	95420	6.00	355801	7.01	198224	8.47	340929	9.96	294812	13.06	277395	14.74
13M000412.D	WMB113510	53256	2.85	98745	6.00	374084	7.01	211320	8.47	370694	9.96	301380	13.06	288417	14.74

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 9M125868.D Method: EPA 8270E

Analysis Date/Time: 12/17/23 14:52

Lab File ID: CAL BNA 50PPM

		I1		I2		I3		I4		I5		I6		I7	
		Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:		41332	2.63	73394	5.85	265613	6.86	148808	8.29	262429	9.75	253151	12.80	253055	14.42
Eval File Area Limit:		20666-82664		36697-146788		132806-531226		74404-297616		131214-524858		126576-506302		126528-506110	
Eval File Rt Limit:		2.13-3.13		5.35-6.35		6.36-7.36		7.79-8.79		9.25-10.25		12.3-13.3		13.92-14.92	
Data File	Sample#														
9M125864.D	CAL BNA 196PPM	43298	2.63	66659	5.85	247484	6.86	141185	8.29	246824	9.75	228507	12.81	236219	14.43
9M125865.D	CAL BNA 160PPM	40460	2.63	67133	5.85	244359	6.86	138778	8.29	248749	9.75	234523	12.80	236665	14.42
9M125866.D	CAL BNA 120PPM	40245	2.63	67539	5.85	251445	6.86	142396	8.29	246739	9.75	236821	12.80	235828	14.42
9M125867.D	CAL BNA 80PPM	40317	2.63	68772	5.85	254834	6.86	140670	8.29	253144	9.75	243238	12.80	239015	14.42
9M125868.D	CAL BNA 50PPM	41332	2.63	73394	5.85	265613	6.86	148808	8.29	262429	9.75	253151	12.80	253055	14.42
9M125869.D	CAL BNA 20PPM	41950	2.63	74997	5.85	279121	6.86	153998	8.29	268203	9.75	260558	12.80	251851	14.42
9M125870.D	CAL BNA 10PPM	41097	2.63	76816	5.85	282081	6.86	159298	8.29	277697	9.75	263289	12.80	256377	14.42
9M125871.D	CAL BNA 2PPM	44038	2.63	81279	5.85	302933	6.86	168978	8.29	291905	9.75	279611	12.80	271363	14.42
9M125872.D	CAL BNA 0.5PPM	39018	2.63	73065	5.85	270455	6.86	153505	8.29	265434	9.75	245515	12.80	239247	14.42
9M125873.D	BNA 50PPM	37269	2.63	66570	5.85	242708	6.86	136053	8.29	237855	9.75	221604	12.80	224587	14.42
9M125874.D	ICV BNA 50PPM	37270	2.63	66932	5.85	242794	6.86	134748	8.29	240065	9.75	230701	12.80	224995	14.42
9M125875.D	BNA 50PPM	38309	2.63	68109	5.85	247181	6.86	137891	8.29	245889	9.75	238090	12.80	238581	14.42

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

3121329 0300

FORM8

Internal Standard Areas

Evaluation Std Data File: 7M133821.D Method: EPA 8270E

Analysis Date/Time: 12/17/23 15:00

Lab File ID: CAL BNA 50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	46088	3.37	88363	6.04	351651	7.01	208989	8.45	385513	9.96	343126	13.05	347027	14.74
Eval File Area Limit:	23044-92176		44182-176726		175826-703302		104494-417978		192756-771026		171563-686252		173514-694054	
Eval File Rt Limit:	2.87-3.87		5.54-6.54		6.51-7.51		7.95-8.95		9.46-10.46		12.55-13.55		14.24-15.24	

Data File	Sample#													
7M133817.D	CAL BNA 196PPM	51875	3.37	87743	6.04	341364	7.01	205487	8.46	390708	9.97	331552	13.07	350107	14.75
7M133818.D	CAL BNA 160PPM	47819	3.37	87486	6.04	343476	7.01	207013	8.46	388819	9.96	330962	13.06	350473	14.74
7M133819.D	CAL BNA 120PPM	46018	3.37	86096	6.04	333657	7.01	200881	8.46	379774	9.96	325174	13.06	342086	14.74
7M133820.D	CAL BNA 80PPM	45603	3.37	88965	6.04	341407	7.01	201826	8.46	376421	9.96	335101	13.05	342178	14.74
7M133821.D	CAL BNA 50PPM	46088	3.37	88363	6.04	351651	7.01	208989	8.45	385513	9.96	343126	13.05	347027	14.74
7M133822.D	CAL BNA 20PPM	47756	3.37	95180	6.04	371066	7.01	218563	8.45	406842	9.95	369360	13.05	364986	14.74
7M133823.D	CAL BNA 10PPM	47460	3.37	97856	6.04	379192	7.01	224159	8.45	416430	9.95	367071	13.05	362644	14.74
7M133824.D	CAL BNA 2PPM	49955	3.37	99608	6.04	397826	7.01	239546	8.45	435430	9.95	382702	13.05	375730	14.74
7M133825.D	CAL BNA 0.5PPM	46387	3.37	93238	6.04	370301	7.01	226359	8.45	403593	9.95	356841	13.05	347844	14.74
7M133826.D	BNA 50PPM	43998	3.37	82439	6.04	316549	7.01	184564	8.46	340905	9.96	307884	13.05	309970	14.74
7M133827.D	ICV BNA 50PPM	43073	3.37	84059	6.04	321358	7.01	187397	8.46	344374	9.96	307842	13.06	312676	14.74
7M133828.D	BNA 50PPM	42058	3.37	83921	6.04	320714	7.01	192768	8.45	354649	9.96	320263	13.05	323853	14.74

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

3121329 0301

FORM8

Internal Standard Areas

Evaluation Std Data File: 13M000414.D Method: EPA 8270E

Analysis Date/Time: 12/18/23 12:27

Lab File ID: CAL BNA 50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	54488	2.85	102146	6.00	377180	7.01	212210	8.47	370746	9.97	315761	13.07	297258	14.75
Eval File Area Limit:	27244-108976		51073-204292		188590-754360		106105-424420		185373-741492		157880-631522		148629-594516	
Eval File Rt Limit:	2.35-3.35		5.5-6.5		6.51-7.51		7.97-8.97		9.47-10.47		12.57-13.57		14.25-15.25	

Data File Sample#														
13M000415.D MBS-1	50032	2.85	94338	6.00	353240	7.01	197245	8.47	327451	9.97	291308	13.07	274063	14.75
13M000416.D MBS-2	52571	2.85	98936	6.00	366587	7.01	206371	8.47	346788	9.96	305883	13.07	286601	14.75
13M000417.D MBS-3	49795	2.85	92023	6.00	342786	7.01	192396	8.47	327510	9.96	284009	13.07	268244	14.75
13M000418.D MBS-4	54747	2.85	101384	6.00	372645	7.01	207517	8.47	353897	9.96	308895	13.07	292585	14.75
13M000419.D MBS-5	51479	2.85	93190	6.00	344936	7.01	195939	8.47	328090	9.96	287575	13.07	269829	14.75
13M000420.D WMB113532(MS)	54545	2.84	99532	6.00	369102	7.01	206289	8.47	348447	9.97	291013	13.07	270652	14.75
13M000421.D WMB113532	52207	2.85	94695	6.00	355339	7.01	201252	8.47	348448	9.96	280704	13.06	266928	14.74
13M000422.D AD41889-001(T)	46674	2.85	87159	6.00	317810	7.01	182670	8.47	313617	9.96	247849	13.06	241306	14.74
13M000423.D AD41889-001(T)(MS)	42740	2.86	80765	6.00	289335	7.01	161230	8.47	275825	9.96	238046	13.07	228097	14.74
13M000424.D AD41889-001(T)(MSD	46289	2.85	84847	6.00	312352	7.01	173601	8.47	297090	9.96	255643	13.07	247840	14.74
13M000425.D AD41889-004(T)	43857	2.85	81606	6.00	304347	7.01	168402	8.47	297865	9.96	234607	13.06	227690	14.74
13M000426.D AD41889-007(T)	47078	2.85	85393	6.00	320579	7.01	181087	8.47	314966	9.96	247544	13.06	238611	14.74
13M000427.D EF1 V-408776(12/14)	46569	2.86	85104	6.00	321574	7.01	182405	8.47	320437	9.96	252893	13.06	240404	14.74
13M000428.D AD41956-001	45590	2.85	84672	6.00	312295	7.01	175510	8.47	308250	9.96	241766	13.06	234570	14.74
13M000430.D AD41883-001	43631	2.85	77915	6.00	293437	7.01	167545	8.47	275617	9.96	236373	13.06	228731	14.74
13M000431.D AD41883-002	46721	2.85	85762	6.00	321254	7.01	180794	8.47	305176	9.96	256366	13.06	249924	14.74
13M000432.D AD41883-003	51151	2.85	95237	6.00	344256	7.01	199890	8.47	345819	9.96	276368	13.06	268546	14.74
13M000433.D AD41883-004	46966	2.85	84815	6.00	319744	7.01	186054	8.47	316725	9.96	252058	13.06	242805	14.74
13M000434.D AD41883-005	45281	2.85	83443	6.00	311244	7.01	179966	8.47	288099	9.96	244677	13.06	245596	14.74
13M000435.D AD41900-001	45481	2.85	84038	6.00	311079	7.01	179385	8.47	308775	9.96	247884	13.06	238657	14.74
13M000436.D AD41900-002	45565	2.85	79228	6.00	298578	7.01	170632	8.47	296259	9.96	238603	13.06	230580	14.74
13M000437.D AD41900-003	51216	2.85	93108	6.00	346629	7.01	199482	8.47	345211	9.96	280068	13.06	270249	14.74
13M000438.D AD41895-017	47993	2.84	87907	6.00	329080	7.01	190626	8.47	326330	9.96	265918	13.06	261855	14.74
13M000439.D AD41916-002	48484	2.85	87520	6.00	329053	7.01	191392	8.47	327064	9.96	263208	13.06	257727	14.74
13M000440.D AD41945-001	44878	2.85	81748	6.00	309760	7.01	175840	8.47	307790	9.96	249443	13.06	239753	14.74
13M000441.D AD41921-001	44838	2.85	80425	6.00	300936	7.01	171061	8.47	299126	9.96	244321	13.06	237446	14.74
13M000442.D AD41925-014	42035	2.85	78796	6.00	287069	7.01	164834	8.47	285231	9.96	236069	13.06	228973	14.74

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

3121329 0302

FORM8

Internal Standard Areas

Evaluation Std Data File: 9M125918.D Method: EPA 8270E

Analysis Date/Time: 12/19/23 10:37

Lab File ID: CAL BNA 50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	42637	2.63	72874	5.85	275343	6.86	153058	8.29	277312	9.75	266104	12.80	267268	14.42
Eval File Area Limit:	21318-85274		36437-145748		137672-550686		76529-306116		138656-554624		133052-532208		133634-534536	
Eval File Rt Limit:	2.13-3.13		5.35-6.35		6.36-7.36		7.79-8.79		9.25-10.25		12.3-13.3		13.92-14.92	

Data File	Sample#													
9M125919.D	WMB113534	46936	2.63	86785	5.85	319844	6.85	180249	8.29	318058	9.75	298877	12.80	290041	14.42
9M125920.D	WMB113532	46393	2.63	86529	5.85	318873	6.85	176870	8.29	313663	9.75	293243	12.80	286675	14.42
9M125921.D	AD41925-014	38070	2.63	71745	5.85	266146	6.85	147440	8.29	256886	9.75	242347	12.79	236404	14.42
9M125922.D	AD41893-003(30X)(T)	43036	2.63	79766	5.85	296600	6.86	176399	8.29	311589	9.75	298012	12.80	289394	14.42
9M125923.D	AD41900-002	38608	2.63	64541	5.85	241484	6.86	141047	8.29	241575	9.75	230946	12.79	221571	14.42
9M125924.D	AD41900-003	45156	2.63	80406	5.85	293661	6.86	169989	8.29	295715	9.75	274601	12.80	267385	14.42
9M125925.D	AD41895-017	44533	2.63	79883	5.85	299273	6.85	169195	8.29	288345	9.75	268052	12.80	262299	14.42
9M125926.D	AD41916-002	43549	2.63	81440	5.85	304266	6.85	172501	8.29	291116	9.75	270083	12.80	261292	14.42
9M125927.D	AD41945-001	39864	2.63	73272	5.85	280340	6.85	156795	8.29	269652	9.75	247035	12.80	242323	14.42
9M125928.D	AD41921-001	38972	2.63	71338	5.85	265713	6.85	148064	8.29	256093	9.75	237182	12.80	230114	14.42
9M125929.D	AD41893-001(30X)(T)	41496	2.63	76004	5.85	285509	6.86	161231	8.29	272855	9.75	255166	12.80	245935	14.43
9M125930.D	WMB113542(MS)	39994	2.63	67043	5.85	247624	6.86	137133	8.29	241651	9.75	228678	12.80	221935	14.42
9M125931.D	WMB113542	38920	2.63	70876	5.85	263190	6.85	147801	8.29	251355	9.75	226193	12.79	215219	14.42
9M125932.D	AD41988-001(T)	39423	2.64	70848	5.85	267877	6.85	151845	8.29	256774	9.75	237635	12.79	221052	14.42
9M125933.D	AD41923-010(T)(R)	39572	2.63	71743	5.85	270740	6.85	154434	8.29	262549	9.75	239896	12.79	226734	14.42
9M125934.D	AD41988-001(T)(MS)	40309	2.64	69909	5.85	258465	6.86	147267	8.29	259613	9.75	244357	12.80	236525	14.42
9M125935.D	AD41988-001(T)(MSD	42799	2.64	71318	5.85	268699	6.86	150300	8.29	263623	9.75	250204	12.80	235487	14.42
9M125936.D	AD41988-004(T)	39453	2.64	71039	5.85	267879	6.85	148394	8.29	260442	9.75	240101	12.79	222613	14.42
9M125937.D	AD41988-007(T)	38182	2.63	69694	5.85	256533	6.85	147832	8.29	255097	9.75	229647	12.79	217581	14.42
9M125938.D	AD41988-010(T)	38317	2.63	70983	5.85	263631	6.85	149227	8.29	255497	9.75	235451	12.79	221646	14.42
9M125939.D	AD41988-013(T)	39155	2.64	70795	5.85	264872	6.85	151567	8.29	259146	9.75	235356	12.79	219132	14.42
9M125940.D	AD41988-019(T)	41537	2.65	74240	5.85	275638	6.86	158027	8.29	271135	9.75	248738	12.79	233607	14.42
9M125941.D	AD41988-016(T)	38307	2.64	68832	5.85	259560	6.85	145848	8.29	247094	9.75	227694	12.79	214756	14.42
9M125942.D	EF1 V-409413(12/16)	37742	2.64	69438	5.85	259939	6.85	149292	8.29	253455	9.75	233755	12.79	217411	14.42

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

3121329 0303

FORM8

Internal Standard Areas

Evaluation Std Data File: 7M133886.D Method: EPA 8270E

Analysis Date/Time: 12/19/23 12:48

Lab File ID: CAL BNA 50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	42049	3.37	79656	6.04	314299	7.01	193441	8.45	358935	9.96	319384	13.05	322287	14.74
Eval File Area Limit:	21024-84098		39828-159312		157150-628598		96720-386882		179468-717870		159692-638768		161144-644574	
Eval File Rt Limit:	2.87-3.87		5.54-6.54		6.51-7.51		7.95-8.95		9.46-10.46		12.55-13.55		14.24-15.24	

Data File	Sample#													
7M133887.D	OMB113537(MS)	33536	3.37	73529	6.04	285265	7.01	179719	8.45	325787	9.96	294555	13.05	290862	14.74
7M133888.D	OMB113537	36600	3.37	75125	6.04	304937	7.00	191469	8.45	350997	9.95	312383	13.05	300616	14.74
7M133889.D	MBS-1	30730	3.37	68218	6.04	269016	7.01	165912	8.45	308606	9.96	274783	13.05	257979	14.74
7M133890.D	MBS-2	32069	3.37	70047	6.04	275267	7.01	168857	8.45	315722	9.96	276289	13.05	263729	14.74
7M133891.D	MBS-3	32075	3.37	71392	6.04	285456	7.01	173383	8.45	324607	9.96	283679	13.05	271681	14.74
7M133892.D	MBS-4	32095	3.37	71592	6.04	281418	7.01	173187	8.45	322129	9.96	285634	13.05	272364	14.74
7M133893.D	SMB113541(MS)	28822	3.36	60291	6.04	233335	7.01	143464	8.46	265808	9.96	245075	13.05	242881	14.75
7M133894.D	SMB113541	30126	3.36	62486	6.03	243561	7.00	151012	8.45	285700	9.95	256029	13.05	244274	14.73
7M133895.D	AD41891-004	34399	3.37	71103	6.04	264051	7.01	163106	8.45	308301	9.96	278083	13.05	266759	14.74
7M133896.D	AD41891-008	36792	3.37	69659	6.04	269262	7.01	171485	8.45	319237	9.95	291032	13.05	275796	14.74
7M133898.D	AD41941-003	33956	3.37	70779	6.04	262517	7.00	155977	8.45	282417	9.95	270482	13.05	267488	14.73
7M133900.D	AD41964-001	28600	3.37	60780	6.04	229464	7.00	139448	8.45	264512	9.95	241928	13.05	234274	14.73
7M133901.D	AD41933-002	33710	3.37	71214	6.04	283207	7.00	172449	8.45	313578	9.95	269772	13.05	255415	14.73
7M133902.D	AD41933-001	33037	3.37	69234	6.04	280950	7.00	169704	8.45	305208	9.95	263000	13.05	255458	14.73
7M133903.D	AD41925-013	34441	3.37	71864	6.04	281196	7.00	166085	8.45	285669	9.95	251071	13.05	247244	14.73
7M133905.D	AD41943-034	31693	3.37	74380	6.04	297196	7.01	176727	8.45	312406	9.95	254240	13.05	237514	14.73
7M133906.D	AD41943-036	33227	3.37	78114	6.04	309613	7.01	185392	8.45	327502	9.95	275196	13.05	259728	14.74

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

3121329 0304

FORM8

Internal Standard Areas

Evaluation Std Data File: 7M133932.D Method: EPA 8270E

Analysis Date/Time: 12/22/23 10:44

Lab File ID: CAL BNA 50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	45289	3.36	88320	6.04	343270	7.01	206259	8.46	383846	9.96	333004	13.05	334236	14.74
Eval File Area Limit:	22644-90578		44160-176640		171635-686540		103130-412518		191923-767692		166502-666008		167118-668472	
Eval File Rt Limit:	2.86-3.86		5.54-6.54		6.51-7.51		7.96-8.96		9.46-10.46		12.55-13.55		14.24-15.24	

Data File	Sample#													
7M133933.D	TEST	38792	3.36	78414	6.04	306292	7.01	182355	8.45	337507	9.96	292208	13.05	293466	14.74
7M133934.D	WMB113490(MS)	46156	3.36	103744	6.04	412386	7.01	242389	8.46	453591	9.96	388895	13.06	389033	14.75
7M133935.D	WMB113490	40731	3.36	88527	6.04	351599	7.01	210861	8.45	386469	9.95	333322	13.05	319939	14.74
7M133936.D	AD41800-009	55141	3.36	110362	6.04	434818	7.01	263534	8.45	482112	9.95	414628	13.05	401886	14.74
7M133937.D	AD41800-001	36890	3.36	78670	6.04	306332	7.01	180642	8.45	321882	9.95	282556	13.05	271030	14.74
7M133938.D	AD41800-003(10X)	43128	3.36	86689	6.04	319766	7.01	169092	8.45	320982	9.96	316994	13.05	315852	14.74
7M133939.D	AD41800-004(10X)	43072	3.36	88483	6.04	339743	7.01	196581	8.45	345929	9.95	317222	13.05	311644	14.74
7M133940.D	AD41800-006	45145	3.36	91928	6.04	353581	7.01	206639	8.45	364942	9.95	311554	13.05	293339	14.74
7M133941.D	AD41800-007	42057	3.36	92976	6.04	365299	7.01	206016	8.45	361013	9.95	288504	13.05	283083	14.74
7M133942.D	AD41800-001(MS)	38369	3.36	87549	6.04	347373	7.01	204604	8.45	376129	9.96	309804	13.05	313214	14.74
7M133943.D	AD41800-001(MSD)	38618	3.36	84514	6.04	326810	7.01	191668	8.45	359746	9.96	301112	13.05	301332	14.74
7M133944.D	SMB113572(MS)	40627	3.36	77227	6.04	284385	7.01	164505	8.46	286131	9.96	262266	13.06	265429	14.75
7M133945.D	SMB113572	34356	3.36	69045	6.04	269593	7.01	153470	8.45	268549	9.95	235565	13.05	228115	14.74

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

3121329 0305

FORM8

Internal Standard Areas

Evaluation Std Data File: 5M126653.D Method: EPA 8270E

Analysis Date/Time: 12/22/23 16:03

Lab File ID: CAL BNA 50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	38696	2.44	66055	5.70	213051	6.71	146489	8.12	312339	9.57	346999	12.62	347984	14.23
Eval File Area Limit:	19348-77392		33028-132110		106526-426102		73244-292978		156170-624678		173500-693998		173992-695968	
Eval File Rt Limit:	1.94-2.94		5.2-6.2		6.21-7.21		7.62-8.62		9.07-10.07		12.12-13.12		13.73-14.73	

Data File	Sample#													
5M126651.D	TEST	32509	2.43	54214	5.70	181023	6.71	121444	8.12	253206	9.57	282647	12.62	289544	14.23
5M126654.D	SMB113572	29186	2.42	42344	5.70	145255	6.71	99128	8.12	196094	9.57	198234	12.62	192517	14.24
5M126655.D	AD41812-004(5X)	33282	2.44	51240	5.70	174033	6.71	121139	8.12	237346	9.56	234858	12.61	235398	14.23
5M126656.D	AD41812-005(5X)	36281	2.45	53917	5.70	174023	6.71	122422	8.12	245522	9.56	231853	12.61	234947	14.23
5M126657.D	AD41925-001(3X)	36134	2.43	55183	5.70	183911	6.71	120871	8.12	238958	9.56	238470	12.62	235821	14.23
5M126658.D	AD41925-002	29510	2.42	45332	5.70	160954	6.71	105940	8.12	206491	9.56	197285	12.61	201461	14.23
5M126659.D	AD41944-004	30861	2.42	46955	5.70	158907	6.71	108127	8.12	209219	9.56	199124	12.61	201634	14.23
5M126660.D	AD41944-004(MS)	31030	2.43	47394	5.70	161299	6.71	106515	8.12	211610	9.56	209161	12.62	221081	14.23
5M126661.D	AD41944-004(MSD)	31265	2.43	47214	5.70	153975	6.71	104892	8.12	205590	9.56	211772	12.62	216939	14.23
5M126662.D	AD41925-005(3X)	34016	2.45	49814	5.70	173647	6.71	111812	8.12	223621	9.56	216196	12.62	219258	14.23
5M126663.D	AD41925-003	28622	2.42	43668	5.70	148673	6.71	98102	8.12	192954	9.56	182076	12.61	193988	14.23
5M126664.D	AD41925-004	31907	2.43	48011	5.70	159060	6.71	110086	8.12	217216	9.56	204790	12.61	201478	14.23
5M126665.D	AD41925-006	31823	2.41	47986	5.70	162729	6.71	109517	8.12	216870	9.56	202733	12.61	204710	14.23
5M126666.D	AD41925-007	30431	2.42	51069	5.70	169105	6.71	112971	8.12	215045	9.56	212043	12.61	215802	14.23
5M126667.D	AD41925-008	29666	2.42	47964	5.70	162739	6.71	108489	8.12	213937	9.56	203067	12.61	205562	14.23
5M126668.D	AD41925-009	32033	2.43	48711	5.70	169482	6.71	113866	8.12	226425	9.56	212491	12.61	213149	14.23
5M126669.D	AD41925-010	30636	2.44	48723	5.70	167121	6.71	105942	8.12	204240	9.56	202216	12.62	220488	14.24
5M126670.D	AD41925-011	31106	2.42	49027	5.70	158942	6.71	107540	8.12	202886	9.56	196240	12.61	202604	14.23
5M126671.D	AD41925-012	30656	2.43	48594	5.70	163993	6.71	110420	8.12	206240	9.56	203459	12.61	200649	14.23
5M126672.D	AD41974-001	28822	2.43	47824	5.70	154202	6.71	105199	8.12	203586	9.56	191848	12.61	194727	14.23
5M126673.D	AD42062-001	28876	2.43	44273	5.70	147639	6.71	101430	8.12	204566	9.56	197612	12.61	190091	14.23

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

Wet Chemistry Data

Hampton-Clarke Wet Chem Form1 Analysis Summary
% Solids

TestGroupName: % Solids SM2540G **Project #: 3121329**

TestGroup: %SOLIDS

Lab#	Client SampleID	Matrix	Dilution:	Result	Units:	RL	Prep Date	Analysis Date	Received Date	Collect Date
AD41925-001	PESRM-T30-01-S	Soil/Terracore	1	62	Percent			12/15/23	12/13/23	12/12/23
AD41925-002	PESRM-T30-02-S	Soil/Terracore	1	72	Percent			12/15/23	12/13/23	12/12/23
AD41925-003	PESRM-T30-03-S	Soil/Terracore	1	71	Percent			12/15/23	12/13/23	12/12/23
AD41925-004	PESRM-T30-04-S	Soil/Terracore	1	78	Percent			12/15/23	12/13/23	12/12/23
AD41925-005	PESRM-T30-05-S	Soil/Terracore	1	65	Percent			12/15/23	12/13/23	12/12/23
AD41925-006	PESRM-T30-06-S	Soil/Terracore	1	72	Percent			12/15/23	12/13/23	12/12/23
AD41925-007	PESRM-T30-07-S	Soil/Terracore	1	73	Percent			12/15/23	12/13/23	12/12/23
AD41925-008	PESRM-T30-08-S	Soil/Terracore	1	73	Percent			12/15/23	12/13/23	12/12/23
AD41925-009	PESRM-T30-09-S	Soil/Terracore	1	76	Percent			12/15/23	12/13/23	12/12/23
AD41925-010	PESRM-T30-10-S	Soil/Terracore	1	73	Percent			12/15/23	12/13/23	12/12/23
AD41925-011	PESRM-T30-11-S	Soil/Terracore	1	77	Percent			12/15/23	12/13/23	12/12/23
AD41925-012	PESRM-T30-DUP-	Soil/Terracore	1	74	Percent			12/15/23	12/13/23	12/12/23

% Solids Report

Analysis Type: SOLIDS-SS
BatchID: SOLIDS-SS-15832

QcType	SampleID:	Rounded Result	Raw Result	Units	Tare Weight	Wet Weight	Dry Weight	Analysis Date	Analyzed By	QC RPD	Rpd Limit
DUP	AD41938-006	89	89.35484	Percent	1.36	10.66	9.66	12/15/23	kwilson	0.41	10
Sample	AD41925-001	62	61.60000	Percent	1.36	3.86	2.90	12/15/23	kwilson		
Sample	AD41925-002	72	72.43067	Percent	1.36	7.49	5.80	12/15/23	kwilson		
Sample	AD41925-003	71	71.15750	Percent	1.36	11.90	8.86	12/15/23	kwilson		
Sample	AD41925-004	78	78.09984	Percent	1.36	13.78	11.05	12/15/23	kwilson		
Sample	AD41925-005	65	64.53975	Percent	1.36	10.92	7.53	12/15/23	kwilson		
Sample	AD41925-006	72	72.08122	Percent	1.36	9.24	7.03	12/15/23	kwilson		
Sample	AD41925-007	73	73.10980	Percent	1.36	16.57	12.48	12/15/23	kwilson		
Sample	AD41925-008	73	72.67997	Percent	1.36	12.89	9.74	12/15/23	kwilson		
Sample	AD41925-009	76	76.19590	Percent	1.36	10.14	8.05	12/15/23	kwilson		
Sample	AD41925-010	73	72.60274	Percent	1.36	7.20	5.60	12/15/23	kwilson		
Sample	AD41925-011	77	76.82403	Percent	1.37	17.68	13.90	12/15/23	kwilson		
Sample	AD41925-012	74	73.60802	Percent	1.36	10.34	7.97	12/15/23	kwilson		
Sample	AD41938-006	90	89.71774	Percent	1.36	11.28	10.26	12/15/23	kwilson		
Sample	AD41938-007	90	89.61892	Percent	1.36	8.97	8.18	12/15/23	kwilson		
Sample	AD41938-008	86	86.26263	Percent	1.35	6.30	5.62	12/15/23	kwilson		
Sample	AD41938-009	86	86.15635	Percent	1.36	7.50	6.65	12/15/23	kwilson		
Sample	AD41941-001	96	95.69584	Percent	1.36	8.33	8.03	12/15/23	kwilson		
Sample	AD41944-001	85	85.44118	Percent	1.36	8.16	7.17	12/15/23	kwilson		
Sample	AD41944-002	88	87.66603	Percent	1.36	6.63	5.98	12/15/23	kwilson		
Sample	AD41944-004	88	87.59279	Percent	1.36	10.79	9.61	12/15/23	kwilson		

* - Indicates Failed Rpd Criteria

Hampton-Clarke
Analytical & Field Services

Last Page of Report

Hampton-Clarke Report Of Analysis

Client: Ramboll Americas Engineering Solutions **HC Project #:** 4040902

Project: HRP PESRM Tank 30 Closure

Sample ID: PESRM-T30-12 **Collection Date: 4/8/2024**
Lab#: AD43735-001 **Receipt Date: 4/8/2024**
Matrix: Soil/Terracore

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**57**

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
Anthracene	1	mg/kg	0.058	ND
Benzo[a]anthracene	**1**	**mg/kg**	**0.058**	**0.30**
Benzo[a]pyrene	**1**	**mg/kg**	**0.058**	**0.32**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.058**	**0.50**
Benzo[g,h,i]perylene	**1**	**mg/kg**	**0.016**	**0.17**
Chrysene	**1**	**mg/kg**	**0.058**	**0.38**
Fluorene	1	mg/kg	0.058	ND
Naphthalene	**1**	**mg/kg**	**0.015**	**0.073**
Phenanthrene	**1**	**mg/kg**	**0.058**	**0.27**
Pyrene	**1**	**mg/kg**	**0.058**	**0.53**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	0.769	mg/kg	0.0013	ND
1,3,5-Trimethylbenzene	0.769	mg/kg	0.0013	ND
Benzene	0.769	mg/kg	0.0013	ND
Ethylbenzene	0.769	mg/kg	0.0013	ND
Isopropylbenzene	0.769	mg/kg	0.0013	ND
Methyl-t-butyl ether	0.769	mg/kg	0.0013	ND
Toluene	0.769	mg/kg	0.0013	ND

Sample ID: PESRM-T30-13 | **Collection Date: 4/8/2024**
Lab#: AD43735-002 | **Receipt Date: 4/8/2024**
Matrix: Soil/Terracore

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**66**

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
Anthracene	1	mg/kg	0.051	ND
Benzo[a]anthracene	1	mg/kg	0.051	ND
Benzo[a]pyrene	1	mg/kg	0.051	ND
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.051**	**0.058**
Benzo[g,h,i]perylene	1	mg/kg	0.051	ND
Chrysene	1	mg/kg	0.051	ND
Fluorene	1	mg/kg	0.051	ND
Naphthalene	1	mg/kg	0.013	ND
Phenanthrene	1	mg/kg	0.051	ND
Pyrene	**1**	**mg/kg**	**0.051**	**0.064**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	0.796	mg/kg	0.0012	ND
1,3,5-Trimethylbenzene	0.796	mg/kg	0.0012	ND
Benzene	0.796	mg/kg	0.0012	ND
Ethylbenzene	0.796	mg/kg	0.0012	ND
Isopropylbenzene	0.796	mg/kg	0.0012	ND
Methyl-t-butyl ether	0.796	mg/kg	0.0012	ND
Toluene	0.796	mg/kg	0.0012	ND

Sample ID: PESRM-T30-14 | **Collection Date: 4/8/2024**
Lab#: AD43735-003 | **Receipt Date: 4/8/2024**
Matrix: Soil/Terracore

%Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**67**

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
Anthracene	1	mg/kg	0.050	ND
Benzo[a]anthracene	**1**	**mg/kg**	**0.050**	**0.11**
Benzo[a]pyrene	**1**	**mg/kg**	**0.050**	**0.11**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.050**	**0.17**
Benzo[g,h,i]perylene	**1**	**mg/kg**	**0.013**	**0.087**
Chrysene	**1**	**mg/kg**	**0.050**	**0.12**
Fluorene	1	mg/kg	0.050	ND
Naphthalene	1	mg/kg	0.012	ND
Phenanthrene	**1**	**mg/kg**	**0.050**	**0.059**
Pyrene	**1**	**mg/kg**	**0.050**	**0.17**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	0.485	mg/kg	0.00072	ND
1,3,5-Trimethylbenzene	0.485	mg/kg	0.00072	ND
Benzene	0.485	mg/kg	0.00072	ND
Ethylbenzene	0.485	mg/kg	0.00072	ND
Isopropylbenzene	0.485	mg/kg	0.00072	ND
Methyl-t-butyl ether	0.485	mg/kg	0.00072	ND
Toluene	0.485	mg/kg	0.00072	ND

Sample ID: PESRM-T30-15 | **Collection Date: 4/8/2024**
Lab#: AD43735-004 | **Receipt Date: 4/8/2024**
Matrix: Soil/Terracore

%Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**60**

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
Anthracene	1	mg/kg	0.056	ND
Benzo[a]anthracene	**1**	**mg/kg**	**0.056**	**0.14**
Benzo[a]pyrene	**1**	**mg/kg**	**0.056**	**0.21**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.056**	**0.32**
Benzo[g,h,i]perylene	**1**	**mg/kg**	**0.056**	**0.20**
Chrysene	**1**	**mg/kg**	**0.056**	**0.19**
Fluorene	1	mg/kg	0.056	ND
Naphthalene	1	mg/kg	0.014	ND
Phenanthrene	**1**	**mg/kg**	**0.056**	**0.092**
Pyrene	**1**	**mg/kg**	**0.056**	**0.18**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	0.686	mg/kg	0.0011	ND
1,3,5-Trimethylbenzene	0.686	mg/kg	0.0011	ND
Benzene	0.686	mg/kg	0.0011	ND
Ethylbenzene	0.686	mg/kg	0.0011	ND
Isopropylbenzene	0.686	mg/kg	0.0011	ND
Methyl-t-butyl ether	0.686	mg/kg	0.0011	ND
Toluene	0.686	mg/kg	0.0011	ND

Sample ID: PESRM-T30-16 | **Collection Date: 4/8/2024**
Lab#: AD43735-005 | **Receipt Date: 4/8/2024**
Matrix: Soil/Terracore

%Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**67**

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
Anthracene	1	mg/kg	0.050	ND
Benzo[a]anthracene	**1**	**mg/kg**	**0.050**	**0.096**
Benzo[a]pyrene	**1**	**mg/kg**	**0.050**	**0.091**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.050**	**0.14**
Benzo[g,h,i]perylene	**1**	**mg/kg**	**0.050**	**0.071**
Chrysene	**1**	**mg/kg**	**0.050**	**0.12**
Fluorene	1	mg/kg	0.050	ND
Naphthalene	1	mg/kg	0.012	ND
Phenanthrene	**1**	**mg/kg**	**0.050**	**0.12**
Pyrene	**1**	**mg/kg**	**0.050**	**0.21**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	0.822	mg/kg	0.0012	ND
1,3,5-Trimethylbenzene	0.822	mg/kg	0.0012	ND
Benzene	0.822	mg/kg	0.0012	ND
Ethylbenzene	0.822	mg/kg	0.0012	ND
Isopropylbenzene	0.822	mg/kg	0.0012	ND
Methyl-t-butyl ether	0.822	mg/kg	0.0012	ND
Toluene	0.822	mg/kg	0.0012	ND

Sample ID: PESRM-T30-17 | **Collection Date: 4/8/2024**
Lab#: AD43735-006 | **Receipt Date: 4/8/2024**
Matrix: Soil/Terracore

%Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**65**

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
Anthracene	1	mg/kg	0.051	ND
Benzo[a]anthracene	1	mg/kg	0.051	ND
Benzo[a]pyrene	1	mg/kg	0.051	ND
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.051**	**0.073**
Benzo[g,h,i]perylene	1	mg/kg	0.051	ND
Chrysene	**1**	**mg/kg**	**0.051**	**0.057**
Fluorene	1	mg/kg	0.051	ND
Naphthalene	**1**	**mg/kg**	**0.013**	**0.084**
Phenanthrene	**1**	**mg/kg**	**0.051**	**0.073**
Pyrene	**1**	**mg/kg**	**0.051**	**0.070**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	**0.893**	**mg/kg**	**0.0014**	**0.17**
1,3,5-Trimethylbenzene	**0.893**	**mg/kg**	**0.0014**	**0.011**
Benzene	**0.893**	**mg/kg**	**0.0014**	**0.0028**
Ethylbenzene	**0.893**	**mg/kg**	**0.0014**	**0.0029**
Isopropylbenzene	**0.893**	**mg/kg**	**0.0014**	**0.041**
Methyl-t-butyl ether	0.893	mg/kg	0.0014	ND
Toluene	**0.893**	**mg/kg**	**0.0014**	**0.0029**

Sample ID: PESRM-T30-DUP-01 | **Collection Date: 4/8/2024**
Lab#: AD43735-007 | **Receipt Date: 4/8/2024**
Matrix: Soil/Terracore

%Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**66**

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
Anthracene	1	mg/kg	0.051	ND
Benzo[a]anthracene	1	mg/kg	0.051	ND
Benzo[a]pyrene	1	mg/kg	0.051	ND
Benzo[b]fluoranthene	1	mg/kg	0.051	ND
Benzo[g,h,i]perylene	1	mg/kg	0.051	ND
Chrysene	1	mg/kg	0.051	ND
Fluorene	1	mg/kg	0.051	ND
Naphthalene	**1**	**mg/kg**	**0.013**	**0.063**
Phenanthrene	1	mg/kg	0.051	ND
Pyrene	1	mg/kg	0.051	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	**0.865**	**mg/kg**	**0.0013**	**0.050**
1,3,5-Trimethylbenzene	**0.865**	**mg/kg**	**0.0013**	**0.0039**
Benzene	**0.865**	**mg/kg**	**0.0013**	**0.0023**
Ethylbenzene	**0.865**	**mg/kg**	**0.0013**	**0.0015**
Isopropylbenzene	**0.865**	**mg/kg**	**0.0013**	**0.018**
Methyl-t-butyl ether	0.865	mg/kg	0.0013	ND
Toluene	**0.865**	**mg/kg**	**0.0013**	**0.0035**

Sample ID: PESRM-T30-EQUIP-01 **Collection Date: 4/8/2024**
Lab#: AD43735-008 **Receipt Date: 4/8/2024**
Matrix: Aqueous

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
Anthracene	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Phenanthrene	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	ND
1,3,5-Trimethylbenzene	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
Toluene	1	ug/l	1.0	ND

Sample ID: TB-01-240408 **Collection Date: 4/8/2024**
Lab#: AD43735-009 **Receipt Date: 4/8/2024**
Matrix: Aqueous

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	ND
1,3,5-Trimethylbenzene	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
Toluene	1	ug/l	1.0	ND

Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 US Highway 46 and 2 Madison Road, Fairfield, New Jersey 07004

Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458

Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054

Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992

A Women-Owned, Disadvantaged, Small Business Enterprise

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 4040902

Page 1 of 1

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%) *	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%) *	Reduced:	EnviroData
3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
8 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other:		Other: Ramboll

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: Ramboll

Address: 4245 North Fairfax Drive, Arlington, VA 22203 Suite 700

1b) Email/Cell/Fax/Ph: TCarroll@ramboll.com

1c) Send Invoice to: TCarroll@ramboll.com

1d) Send Report to: TCarroll@ramboll.com

Project Information

2a) Project: HRP PESRM Tank 30 Pipe Sampling

2b) Project Mgr: Taylor Carroll

2c) Project Location (City/State): Philadelphia, PA

2d) Quote/PO # (If Applicable):

FOR LAB USE ONLY

Batch# AD43135

===> Check If Contingent ===>

<=== Check If Contingent <===

Matrix Codes

DW - Drinking Water; S - Soil; A - Air; GW - Ground Water; SL - Sludge; WW - Waste Water; OL - Oil; OT - Other (please specify under item 9, Comments)

7) Analysis (specify methods & parameter lists)

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	VOCs	SVOCs	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
001	PESRM-T30-12	S	4/8/24	1030		X	X	X	2	3							
002	PESRM-T30-13	S	4/8/24	1230		X	X	X	2	3							
003	PESRM-T30-14	S	4/8/24	1100		X	X	X	2	3							
004	PESRM-T30-15	S	4/8/24	1130		X	X	X	2	3							
005	PESRM-T30-16	S	4/8/24	1300		X	X	X	2	3							
006	PESRM-T30-17	S	4/8/24	1330		X	X	X	2	3							
007	PESRM-T30-DUP-01	S	4/8/24	1335		X	X	X	2	3							
009	PESRM-T30-EQUIP-01	AQ	4/8/24	1550		X	X	X	2	3			3				
009	TB-01-240408	AQ	4/8/24	—			X						3				

10) Relinquished by:	Accepted by:	Date	Time
		4/8/24	1658
		4/9/24	0815
		4/9/24	1040

11) Sampler (print name): Cynthia Ting and Kyle Walker Date: 4/8/24

Additional Notes

Use select compound list only

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):

- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:

- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:

- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 2.0 °C

Please note NUMBERED items. If not completed your analytical work may be delayed.

A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#