MOVE YOUR ENVIRONMENT FORWARD

December 11, 2023

Mr. John Piseck, Jr.
Executive Director
Herkimer County Industrial Development Agency
420 E. German Street, Suite 101A
Herkimer, New York 13350

RE: Final Groundwater Sampling Program Results, Former Duofold Facility, 7 Spruce Street, Ilion New York (HRP Project #HER1510.P2) (BF Cooperative Agreement #BF-96240822)

Dear Mr. Piseck:

HRP Associates, Inc. (HRP) completed a Remedial Investigation Report (RIR) in 2020 to further characterize environmental Site conditions following previous Phase II investigations completed in 2015 and 2017. This results letter was prepared to summarize the results of the Groundwater Sampling Program at the Former Duofold Facility (referred to hereinafter as "the Site") located at 7 Spruce St, Ilion, New York. The 12.23-acre Site includes three contiguous parcels (120.29-1-63, 120.29-2-74.1, and 120.29-1-26) and is occupied by three industrial buildings of varying sizes. The Site has been utilized for various industrial purposes between approximately 1907 and 2001. The Site location is depicted in **Figure 1**.

The purpose of the Groundwater Sampling Program is to collect groundwater data to comply with requirements to enter the Brownfields Cleanup Program (BCP).

This report describes geology and hydrogeology of the study area, field activities, and results from groundwater sampling. Investigation work described herein was conducted in September of 2023. The work was completed in general accordance with the Site-Specific Quality Assurance Project Plan (QAPP) dated August 25, 2023.

Geology and Hydrogeology

The Site and surrounding area are relatively flat and lie at an elevation of approximately 400 ft above mean sea level (amsl). Regional topography slopes generally north towards the Mohawk River which is located approximately 800 feet from the Site.

According to the Surficial Geologic Map of New York, Hudson Mohawk Sheet, surficial geology on-Site is classified as outwash sand and gravel. Previous Site investigations indicated that fill materials were encountered at depths varying from form of 0 to 6.5 ft below grade throughout the Site, underlain by native lake deposited sediment, then predominantly sand and gravel. Depth to bedrock is unknown as previous investigations advanced borings to a maximum depth of 20 feet below grade, and bedrock was not encountered during investigation.

According to the Geologic Map of New York, Hudson Mohawk Sheet, underlying bedrock is the Hamilton group. The Hamilton Group is described by the United States Geological Survey (USGS) as Middle Devonian siltstone, mudstone, and sandstone.

Groundwater at the Site is generally shallow and was measured at approximately six to eight feet below grade during the remedial investigation (RI) completed on November 30, 2020. The groundwater gradient at the Site is 0.0011 ft/ft to the east-northeast towards the Mohawk River.

The nearest known water supply well is a Federal USGS Well located approximately 1/4 to 1/2 mile north-northeast of the Site. No water supply wells were reported by the Village of Ilion within 1.0 mile of the Site. Potable water at the Site is provided by a public water supply.

Field Activities

Monitoring Well Sampling

HRP mobilized to the Site on September 29, 2023, to collect groundwater samples from three existing monitoring wells. The monitoring wells were installed during the 2015 Phase ll Investigation completed by Nature's Way Environmental Consultants and Contractors Inc. The locations of the sampled wells are depicted in **Figure 2**.

Groundwater samples were collected in general accordance with U.S. Environmental Protection Agency (EPA) low flow guidelines and as described in the Site-specific QAPP. Low flow sampling logs are included in **Attachment A**. Groundwater samples were collected from MW-1, MW-10, and MW-12. In addition to the Site samples, the following samples were collected for quality assurance and quality control (QA/QC) purposes:

- One duplicate sample from MW-1;
- One matrix spike and matrix spike duplicate from MW-1; and
- One field blank and one rinsate blank.

All samples collected were analyzed for 1,4-Dioxane via EPA Method 8270 SIM and and PFAS via EPA Draft method 1633 by an Environmental Laboratory Accreditation Program (ELAP) certified laboratory, with the exception of MW-12, which was not analyzed for 1,4-Dioxane because the bottle broke in transit.

Findings

Observations

During the low-flow sampling event, no visual or olfactory observations such as sheen or odor was observed in groundwater purged from MW-1, MW-10, or MW-12.

Groundwater

1,4-Dioxane was not detected in MW-1 and MW-10 and was not analyzed in MW-12. Groundwater analytical results indicate PFAS was detected at concentrations exceeding laboratory reporting limits in

all three wells, but not exceeding NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Class GA Criteria in any of the wells with the exception of MW-12, where perfluorooctane sulfonic acid (PFOS) was detected at a concentration of 3.25 nanograms per liter.

Groundwater analytical results are presented in **Table 1** and are depicted in **Figure 2**. Laboratory analytical results are included in **Attachment B**.

Data Validation and Usability

Analytical data obtained during this investigation were validated to evaluate the usability of the data. Data Usability Summary Reports (DUSR) are provided in **Attachment C**. The DUSR indicates which data are subject to limitations and identifies certain data that are flagged as rejected and should not be used. All data returned from the validator were considered acceptable. There were no data qualified as rejected (R) or estimated.

Conclusions

Based on the results of the Groundwater Sampling Program, concentrations of PFAS are present in the on-site groundwater exceeding NYSDEC TOGS standards. Exposure pathways to the groundwater on Site is limited due to the current use of the Site. In the event of Site redevelopment, a Site Management Plan may need to be developed to protect potential receptors during redevelopment and future use.

If you have any questions or require additional information, please feel free to contact HRP at (518) 877-7101.

Sincerely,

HRP Associates, Inc.

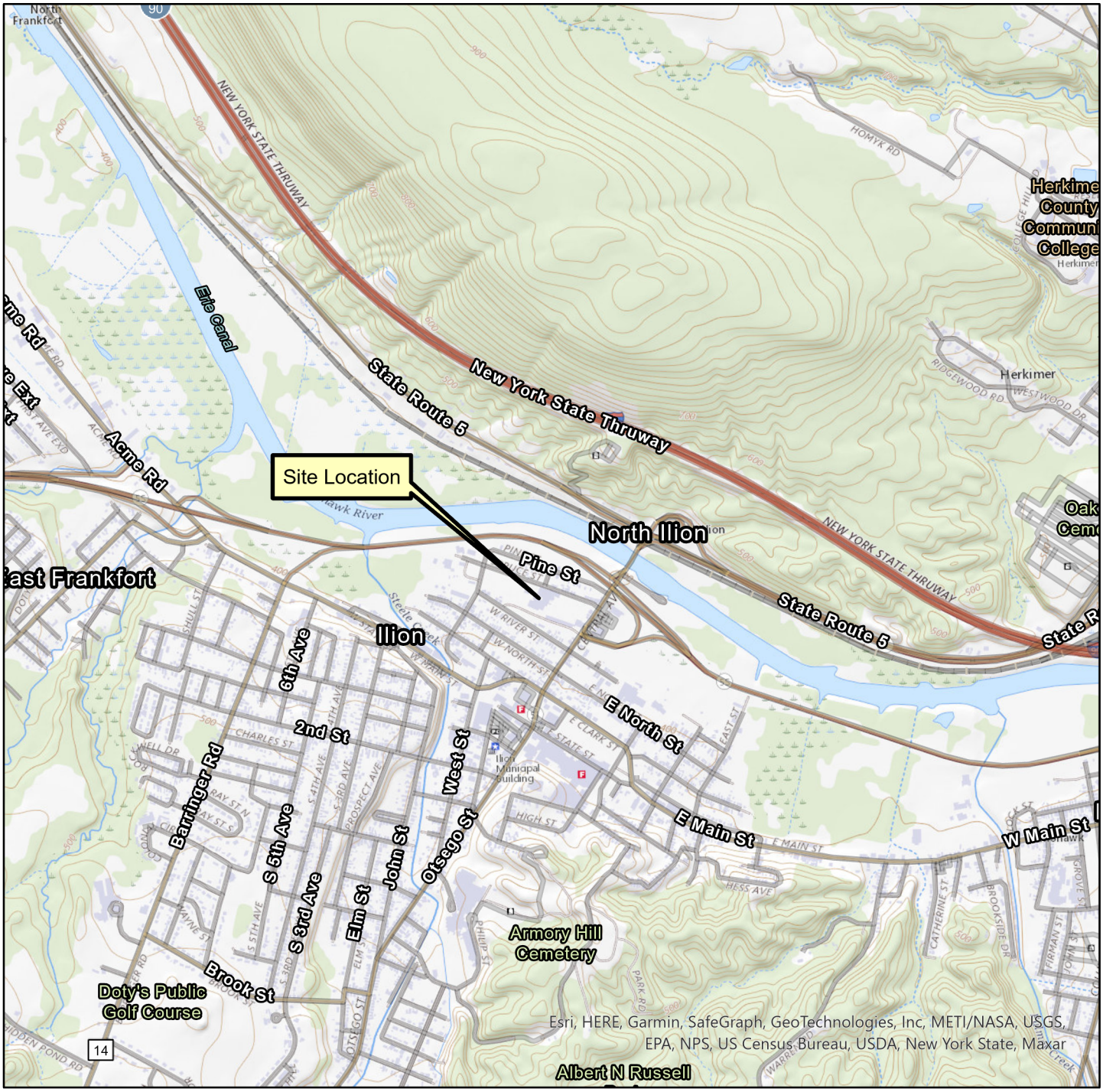
Leah Topping
Project Consultant

David Stoll, P.G.
Project Manager

Attachments:

Figures
Table
Attachment A – Low Flow Logs
Attachment B – Laboratory Analytical Reports
Attachment C– Data Usability Summary Reports (DUSRs) - *not included*

FIGURES



0 500 1,000 2,000 3,000 4,000 5,000 6,000 7,000 8,000

Feet

1:24,000

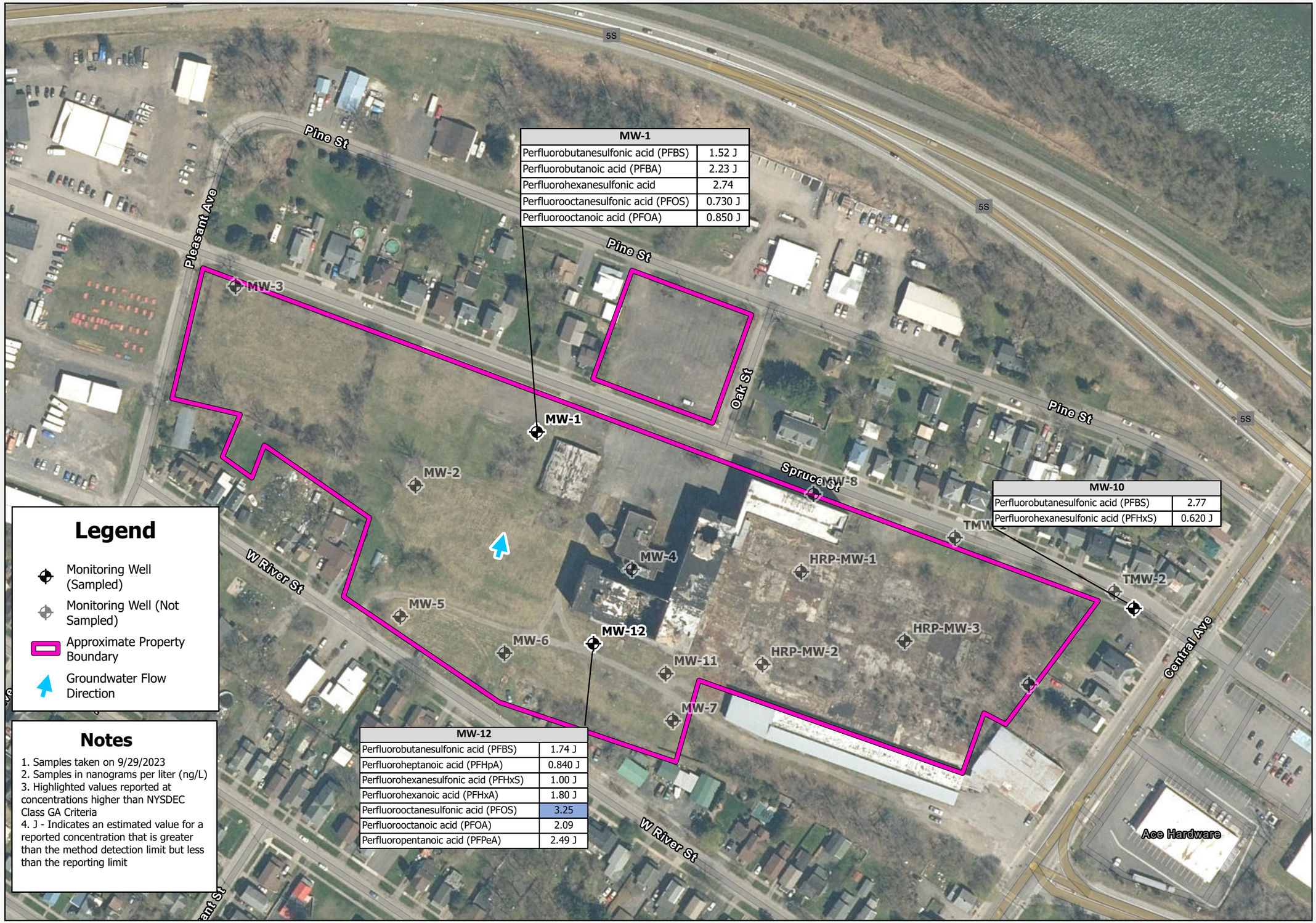
N

USGS Quadrangle Information
Quad ID: 42078-G3
Name: Attica, New York
Date Rev: 1976
Date Pub: 1979

Figure 1
Site Location
Former Duofold Facility
7 Spruce St, Ilion, New York
HRP # 1510.P2
Scale 1" = 2,000'

HRP
MOVE YOUR ENVIRONMENT FORWARD
ONE FAIRCHILD SQUARE
SUITE 110
CLIFTON PARK, NY 12065
(518) 877-7101
HRPASSOCIATES.COM

Path: S:\Data\H\HERCO - HERKIMER COUNTY IDA\VARIOUS LOCATIONS\HER1510P2 - EPA Brownfield Grant\WP\Duofold\GIS\PFAS Sampling.aprx



MW-1	
Perfluorobutanesulfonic acid (PFBS)	1.52 J
Perfluorobutanoic acid (PFBA)	2.23 J
Perfluorohexanesulfonic acid	2.74
Perfluorooctanesulfonic acid (PFOS)	0.730 J
Perfluorooctanoic acid (PFOA)	0.850 J

MW-10	
Perfluorobutanesulfonic acid (PFBS)	2.77
Perfluorohexanesulfonic acid (PFHxS)	0.620 J

MW-12	
Perfluorobutanesulfonic acid (PFBS)	1.74 J
Perfluoroheptanoic acid (PFHpA)	0.840 J
Perfluorohexanesulfonic acid (PFHxS)	1.00 J
Perfluorohexanoic acid (PFHxA)	1.80 J
Perfluorooctanesulfonic acid (PFOS)	3.25
Perfluorooctanoic acid (PFOA)	2.09
Perfluoropentanoic acid (PFPeA)	2.49 J

HRP
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SUITE 110
CLIFTON PARK, NY 12065
(518) 877-7101
HRPASSOCIATES.COM

North

0 50 100 200 Feet

Revisions					
No.					
Date					

Designed By:	Drawn By:	Reviewed By:
LLT	LLT	CG

Issue Date:	Project No:	Sheet Size:
11/3/2023	HER1510.P2	11x17

Supplemental Phase II Groundwater Sampling Results (Detections Only)

Former Duofold Facility
7 Spruce Street
Ilion, New York

Figure No.

2

TABLE

Table 1
Groundwater Laboratory Analytical Results (Detections Only)
Perfluoralkyl Substances (PFAS)
Former Duofold Facility
7 Spruce Street, Ilion, New York

Sample ID:	**NYDEC Class GA**	**MW-1 (DUP)**	**MW-1**	**MW-10**	**MW-12**
Date Collected:	**Criteria**	09/27/2023	09/27/2023	09/27/2023	09/27/2023
PFAS Compounds (ng/l)					
Perfluorobutanesulfonic acid (PFBS)	NP	**1.73 J**	**1.52 J**	**2.77**	**1.74 J**
Perfluorobutanoic acid (PFBA)	NP	**2.20 J**	**2.23 J**	< 7.61	< 7.85
Perfluoroheptanoic acid (PFHpA)	NP	< 1.94	< 1.95	< 1.90	**0.840 J**
Perfluorohexanesulfonic acid (PFHxS)	NP	**2.83**	**2.74**	**0.620 J**	**1.00 J**
Perfluorohexanoic acid (PFHxA)	NP	**0.550 J**	< 1.95	< 1.90	**1.80 J**
Perfluorooctanesulfonic acid (PFOS)	2.7	**0.690 J**	**0.730 J**	< 1.90	**3.25**
Perfluorooctanoic acid (PFOA)	6.7	**0.870 J**	**0.850 J**	< 1.90	**2.09**
Perfluoropentanoic acid (PFPeA)	NP	< 3.89	< 3.89	< 3.81	**2.49 J**
1,4-Dioxane (ug/l)					
		No detections			NA

Legend	
<1	Parameter not detcted above the laboratory reporting limit
1	Parameter reported at a concentrations greater than NYSDEC Class GA Criteria
1	Parameter reported above the laboratory reporting limit but below the appilicable regulatory

Notes:
ng/l = nanograms per liter
NA = Not Analyzed
NP = not promulgated/ no applicable cleanup criteria
NYSDEC = New York State Department of Environmental Conservation
J = The analyte is present but is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
ug/l = micrograms per liter

ATTACHMENT A
Low Flow Logs

HRP Associates, Inc.

Low-Flow Sampling Log

PAGE: 1 OF 1
SAMPLE DATE: 4/27/23
TOTAL # WELLS: 3

Client Name:	NYSDEC	Sample Pump:	Peristaltic Pump
Project Location:	Former Dutfold Facility	Tubing Type:	HDPE .17"ID x 1/4"OD
Sampler(s):	R. Lewandowski	Monitoring Equipment:	Horiba
Well I.D.	MW-1	Screen Setting (ft btoc):	5 to 15
Well Diameter (inches):	2	Tubing Intake (ft btoc):	~10
Total Depth (ft btoc):	14.20	Comments:	Collected 1,4-Dioxane + PFAS Collected MS/MSD + DUP-1_4.27.23
Depth to Water (ft btoc):	6.57		
Well Condition:	Good		

Time (minutes)	Depth to Water (ft btoc)	Evacuation Rate (mL/min)	Water Quality Monitoring Parameters: Temperature (°C)	DO mg/L	Conductivity mS/cm ~~µS/cm~~	pH	ORP (mV)	Turbidity NTU
0457 0	6.57	250	16.48	4.01	1.07	8.06	70	45.5
3	6.59		16.14	3.20	1.05	7.93	50	44.9
6	6.60		15.79	2.87	1.02	7.27	66	44.2
9	6.60		15.20	2.62	1.06	7.04	72	42.0
12	6.60		15.17	2.42	0.999	6.68	80	41.1
15	6.60		14.83	2.33	0.999	6.50	89	36.2
18	6.60	↓	14.82	2.29	0.998	6.42	91	35.5
21	6.60	250	14.85	2.24	0.998	6.40	91	35.0

Stabilization of Parameters (stabilization achieved for three consecutive measurements)

Time FROM	Time TO	Depth to Water (ft btoc)	Evacuation Rate (mL/min)	Temperature (°C)	DO mg/L	Conductivity mS/cm ~~µS/cm~~	pH	ORP (mV)	Turbidity NTU
15	18	0	250	0.07%	2.18%	0.10%	0.08	2	1.97%
18	21	0	250	0.20%	2.23%	0	0.02	0	1.49%
15	21	0	250	0.13%	4.92%	0.10%	0.10	2	3.43%
Recommended Stabilization		± 0.3	100-500	± 3%	± 10%	± 3%	± 0.1	± 10	± 10%
Stabilization: (Yes/No)		Y	Y	Y	Y	Y	Y	Y	Y

Sample Time: 1018 Reviewed By: _____

ft btoc	feet below top of casing	NTU	Nephelometric Turbidity Units	°C	Degrees Celsius
ml/min	milliliters per minute	mg/l	milligrams per liter	mv	millivolts
µs/cm	microseimons per centimeter				

HRP Associates, Inc.

Low-Flow Sampling Log

PAGE: 1 OF 1

SAMPLE DATE: 9/27/23

TOTAL # WELLS: 3

Client Name:	NYSDEC	Sample Pump:	Peristaltic Pump
Project Location:	Former Dyofold Facility	Tubing Type:	HDPE .17"ID x 1/4"OD
Sampler(s):	R. Lewandowski	Monitoring Equipment:	Horiba
Well I.D.	MW-10	Screen Setting (ft btoc):	5 to 15
Well Diameter (inches):	2	Tubing Intake (ft btoc):	~10
Total Depth (ft btoc):	14.31	Comments:	Sampled for 1,4-Dioxane and PFAS
Depth to Water (ft btoc):	6.28		

Well Condition: Good water pooled in road box

Time (minutes)	Depth to Water (ft btoc)	Evacuation Rate (mL/min)	Water Quality Monitoring Parameters: Temperature (°C)	DO mg/L	Conductivity ~~µS/cm~~ mS/cm	pH	ORP (mV)	Turbidity NTU
1218 0	6.28	250	24.85	4.09	1.32	7.06	56	188
3	6.35		24.12	1.78	1.32	6.62	58	187
6	6.35		21.10	1.95	1.33	6.58	47	28.4
9	6.35		20.81	0.90	1.33	6.28	33	20.7
12	6.35		21.25	0.84	1.38	6.19	21	20.0
15	6.35		21.13	0.78	1.28	6.17	6	9.8
18	6.35		20.94	0.74	1.18	6.19	-1	4.5
21	6.35	↓	20.93	0.73	1.17	6.18	-3	3.3
24	6.35	250	20.95	0.72	1.17	6.17	-6	4.1

Stabilization of Parameters (stabilization achieved for three consecutive measurements)

Time FROM	Time TO	Depth to Water (ft btoc)	Evacuation Rate (mL/min)	Temperature (°C)	DO mg/L	Conductivity ~~µS/cm~~ mS/cm	pH	ORP (mV)	Turbidity NTU
18	21	0	250	0.05%	1.37%	0.85%	0.01	2	<5
21	24	0	250	0.10%	1.38%	0%	0.01	3	<5
18	24	0	250	0.05%	2.78%	0.85%	0.02	5	<5
Recommended Stabilization		± 0.3	100-500	± 3%	± 10%	± 3%	± 0.1	± 10	± 10%
Stabilization: (Yes/No)		Y	Y	Y	Y	Y	Y	Y	Y

Sample Time: 1242 Reviewed By: RL

ft btoc	feet below top of casing	NTU	Nephelometric Turbidity Units	°C	Degrees Celsius
ml/min	milliliters per minute	mg/l	milligrams per liter	mv	millivolts
µs/cm	microseimons per centimeter				

HRP Associates, Inc.

Low-Flow Sampling Log

PAGE: 1 OF 1
SAMPLE DATE: 9/27/23
TOTAL # WELLS: 3

Client Name:	NYSDEC	Sample Pump:	Peristaltic Pump
Project Location:	Former Dutchold Facility	Tubing Type:	HDPE .17"ID x 1/4"OD
Sampler(s):	R. Lewandowski	Monitoring Equipment:	Horiba
Well I.D.	MW-12	Screen Setting (ft btoc):	5 to 15
Well Diameter (inches):	2	Tubing Intake (ft btoc):	~9
Total Depth (ft btoc):	12.85	Comments:	Sampled for 1,4-Dioxane and PFAS
Depth to Water (ft btoc):	7.40		
Well Condition:	Good		

Time (minutes)	Depth to Water (ft btoc)	Evacuation Rate (mL/min)	Water Quality Monitoring Parameters: Temperature (°C)	DO mg/L	Conductivity ~~µs/cm~~ mS/cm	pH	ORP (mV)	Turbidity NTU
0	7.40	250	19.65	10.22	1.04	7.13	69	55.0
3	7.42	↓	18.23	9.67	1.04	6.94	74	54.9
6	7.42		17.93	9.45	1.04	6.86	76	25.2
9	7.42		17.60	9.00	1.05	6.73	80	5.0
12	7.42		17.57	8.95	1.05	6.67	82	2.6
15	7.42		17.58	8.75	1.05	6.61	85	1.0
18	7.42	250	17.59	8.60	1.05	6.58	85	0.5
(RL) ~~21~~	~~7.42~~							

Stabilization of Parameters (stabilization achieved for three consecutive measurements)

Time FROM	Time TO	Depth to Water (ft btoc)	Evacuation Rate (mL/min)	Temperature (°C)	DO mg/L	Conductivity ~~µs/cm~~ mS/cm	pH	ORP (mV)	Turbidity NTU
12	15	0	250	0.06%	2.29%	0	0.06	3	45
15	18	0	250	0.06%	1.74%	0	0.03	6	45
12	18	0	250	0.11%	4.07%	0	0.09	3	45
Recommended Stabilization		± 0.3	100-500	± 3%	± 10%	± 3%	± 0.1	± 10	± 10%
Stabilization: (Yes/No)		Y	Y	Y	Y	Y	Y	Y	Y

Sample Time: 1130 Reviewed By: RL

ft btoc	feet below top of casing	NTU	Nephelometric Turbidity Units	°C	Degrees Celsius
ml/min	milliliters per minute	mg/l	milligrams per liter	mv	millivolts
µs/cm	microseimons per centimeter				

ATTACHMENT B
Laboratory Analytical 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: Former Duofold Facility

Client PO: HER1510.P2

Report To: HRP Associates. Inc.
1 Fairchild Square
Suite 110
Clifton Park, NY
Attn: Valerie Collins

Received Date: 9/28/2023

Report Date: 10/20/2023

Deliverables: NYSDEC-CatB

Lab ID: AD40586

Lab Project No: 3092819

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 - 3092819

SDG Narrative

HC Case Narrative

Client: HRP Associates, Inc. **HC Project:** 3092819
Project: Former Duofolf Facility

Hampton-Clarke (HC) received the following samples on 9/28/2023:

Client ID	HC Sample ID	Matrix	Analysis
MW-1_9.27.23	AD40586-001	Aqueous	Base Neutrals (8270E), Base Neutrals (SIM) (8270E SIM)
MW-12_9.27.23	AD40586-002	Aqueous	Not analyzed
MW-10_9.27.23	AD40586-003	Aqueous	Base Neutrals (8270E), Base Neutrals (SIM) (8270E SIM)
RB-1_9.27.23	AD40586-004	Aqueous	Base Neutrals (8270E), Base Neutrals (SIM) (8270E SIM)
FB-1_9.27.23	AD40586-005	Aqueous	Base Neutrals (8270E), Base Neutrals (SIM) (8270E SIM)
DUP-1_9.27.23	AD40586-006	Aqueous	Base Neutrals (8270E), Base Neutrals (SIM) (8270E SIM)

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.

Base Neutral/Acid Extractable Analysis:

The Method Blank Spike for batch 110959 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.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Sean Berls
Quality Assurance Officer

Or

Jean Revolus
Laboratory Director

10/20/23
Date

Reporting Limit Definitions

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.

Data Package Summary Forms

HC Report of Analysis

Client: HRP Associates. Inc.
Project: Former Duofold Facility

HC Project #: 3092819

Sample ID: MW-1_9.27.23
Lab#: AD40586-001
Matrix: Aqueous

Collection Date: 9/27/2023
Receipt Date: 9/28/2023

Base Neutrals (SIM) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.10	ND

Sample ID: MW-10_9.27.23
Lab#: AD40586-003
Matrix: Aqueous

Collection Date: 9/27/2023
Receipt Date: 9/28/2023

Base Neutrals (SIM) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.10	ND

Sample ID: RB-1_9.27.23
Lab#: AD40586-004
Matrix: Aqueous

Collection Date: 9/27/2023
Receipt Date: 9/28/2023

Base Neutrals (SIM) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.10	ND

Sample ID: FB-1_9.27.23
Lab#: AD40586-005
Matrix: Aqueous

Collection Date: 9/27/2023
Receipt Date: 9/28/2023

Base Neutrals (SIM) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.10	ND

Sample ID: DUP-1_9.27.23
Lab#: AD40586-006
Matrix: Aqueous

Collection Date: 9/27/2023
Receipt Date: 9/28/2023

Base Neutrals (SIM) 8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.10	ND

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD40586-001
Client Id: MW-1_9.27.23
Data File: 9M124829.D
Analysis Date: 10/03/23 14:56
Date Rec/Extracted: 09/28/23-10/02/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 960ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.52	U				

Worksheet #: 710763

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.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD40586-001
Client Id: MW-1_9.27.23
Data File: 12M68475.D
Analysis Date: 10/03/23 15:19
Date Rec/Extracted: 09/28/23-10/02/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 960ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 710765

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.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD40586-003
Client Id: MW-10_9.27.23
Data File: 9M124830.D
Analysis Date: 10/03/23 15:19
Date Rec/Extracted: 09/28/23-10/02/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U				

Worksheet #: 710763

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.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD40586-003
Client Id: MW-10_9.27.23
Data File: 12M68476.D
Analysis Date: 10/03/23 15:41
Date Rec/Extracted: 09/28/23-10/02/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 710765

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.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD40586-004
Client Id: RB-1_9.27.23
Data File: 9M124831.D
Analysis Date: 10/03/23 15:43
Date Rec/Extracted: 09/28/23-10/02/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U				

Worksheet #: 710763

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.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD40586-004
Client Id: RB-1_9.27.23
Data File: 12M68477.D
Analysis Date: 10/03/23 16:02
Date Rec/Extracted: 09/28/23-10/02/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 710765

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.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD40586-005
Client Id: FB-1_9.27.23
Data File: 9M124832.D
Analysis Date: 10/03/23 16:06
Date Rec/Extracted: 09/28/23-10/02/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U				

Worksheet #: 710763

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.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD40586-005
Client Id: FB-1_9.27.23
Data File: 12M68478.D
Analysis Date: 10/03/23 16:24
Date Rec/Extracted: 09/28/23-10/02/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 710765

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.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD40586-006
Client Id: DUP-1_9.27.23
Data File: 9M124833.D
Analysis Date: 10/03/23 16:29
Date Rec/Extracted: 09/28/23-10/02/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U				

Worksheet #: 710763

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.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD40586-006
Client Id: DUP-1_9.27.23
Data File: 12M68479.D
Analysis Date: 10/03/23 16:45
Date Rec/Extracted: 09/28/23-10/02/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 710765

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.

Chain of Custody Forms

3092819 0022

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

175 US Highway 46, STE D and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787
Service Center: 137-C 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): 3092819

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)	[X] 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: 1 Fairchild Sq.; Clifton Park, NY
Address: HRP Associates
1b) Email/Cell/Fax/Ph: 518-877-7101
1c) Send Invoice to: ~~Cassy.Boose~~ ValerieCollins@HRPAssociates.com
1d) Send Report to:

Project Information

2a) Project: Former Duofold Facility
2b) Project Mgr: Valerie Collins
2c) Project Location (City/State): 7 Spruce St, Ilion, NY
2d) Quote/PO # (If Applicable): HER1510.P2

FOR LAB USE ONLY

Batch #: AD40586

===> 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)	1,4-Dioxane	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
001	MW-1-9.27.23	GW	9/27/23	10:18		X	X	3								
002	MW-12-9.27.23	GW		1130		X	X	1								
003	MW-10-9.27.23	GW		1242		X	X	1								
004	RB-1-9.27.23	OT		1300		X	X	1								Lab Prov. Jed water Used
005	FB-1-9.27.23	OT		1310		X	X	1								
006	DUP-1-9.27.23	GW	9/27/23	—		X	X	1								

10) Relinquished by:	Accepted by:	Date	Time
[signature]	FEDEX	~~9/27/23~~ 9/28/23	1545
FEDEX	[signature] ~~HER 1510.P2~~	9/28/23	14:12

11) Sampler (print name): Date:

Additional Notes Low Volume for 1,4-Dioxane. Please avoid Lab QA/QC w/ 1,4-Dioxane Samples. Please send a copy of all data to Ted.Will@HRPAssociates.com

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

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

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

Cooler Temperature: 2.7

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 AD40586 Entered By: maxwell
Date Entered 9/28/2023 3:24:00 PM

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	Yes	Are the COC seals intact?
4	T-461	<--- Thermometer ID. Please specify the Temperature inside the container (in degC). 2.7
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: Limited Volume for the following sample MW-10,RB-1,FB-1,DUP-1 MW-12-9.27.23 1-1L Amber Received broken
11	Yes	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?

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD40586-001	09/28/23 14:00	MAXW	0	M	Received
AD40586-001	09/28/23 15:23	MAXW	0	M	Login
AD40586-001	09/28/23 15:31	R12	1	A	NONE
AD40586-001	10/02/23 18:36	JN	1	A	BN/BNA
AD40586-001	09/28/23 15:31	R12	2	A	NONE
AD40586-001	09/28/23 15:31	R12	3	A	NONE
AD40586-002	09/28/23 14:00	MAXW	0	M	Received
AD40586-002	09/28/23 15:23	MAXW	0	M	Login
AD40586-003	09/28/23 14:00	MAXW	0	M	Received
AD40586-003	09/28/23 15:23	MAXW	0	M	Login
AD40586-003	09/28/23 15:31	R12	1	A	NONE
AD40586-003	10/02/23 18:36	JN	1	A	BN/BNA
AD40586-003	10/02/23 21:04	R12	1	A	NONE
AD40586-004	09/28/23 14:00	MAXW	0	M	Received
AD40586-004	09/28/23 15:23	MAXW	0	M	Login
AD40586-004	09/28/23 15:31	R12	1	A	NONE
AD40586-004	10/02/23 18:36	JN	1	A	BN/BNA
AD40586-004	10/02/23 21:04	R12	1	A	NONE
AD40586-005	09/28/23 14:00	MAXW	0	M	Received
AD40586-005	09/28/23 15:23	MAXW	0	M	Login
AD40586-005	09/28/23 15:31	R12	1	A	NONE
AD40586-005	10/02/23 18:36	JN	1	A	BN/BNA
AD40586-005	10/02/23 21:04	R12	1	A	NONE
AD40586-006	09/28/23 14:00	MAXW	0	M	Received
AD40586-006	09/28/23 15:23	MAXW	0	M	Login
AD40586-006	09/28/23 15:31	R12	1	A	NONE
AD40586-006	10/02/23 18:36	JN	1	A	BN/BNA
AD40586-006	10/02/23 21:04	R12	1	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

GC/MS Base Neutral/Acid Extractable Data

GC/MS Base Neutral/Acid Extractable Data
QC Summary

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
9M124823.D	WMB110959	A	10/03/23 12:37	1		NA	NA	100	108	NA	124
9M124829.D	AD40586-001	A	10/03/23 14:56	1		NA	NA	95	99	NA	123
9M124830.D	AD40586-003	A	10/03/23 15:19	1		NA	NA	87	93	NA	113
9M124831.D	AD40586-004	A	10/03/23 15:43	1		NA	NA	90	93	NA	110
9M124832.D	AD40586-005	A	10/03/23 16:06	1		NA	NA	82	89	NA	106
9M124833.D	AD40586-006	A	10/03/23 16:29	1		NA	NA	78	83	NA	107
9M124822.D	WMB110959(MS)	A	10/03/23 12:13	1		NA	NA	93	92	NA	121
9M124824.D	AD40498-001(T)	A	10/03/23 13:00	1		NA	NA	74	77	NA	96
9M124825.D	AD40498-001(T)(MS)	A	10/03/23 13:23	1		NA	NA	94	99	NA	116
9M124826.D	AD40498-001(T)(MSD)	A	10/03/23 13:46	1		NA	NA	86	97	NA	117

Flags: SD=Surrogate diluted out

*=Surrogate out

Method: EPA 8270E

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: WMB110959

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M124822.D	WMB110959(MS)	10/3/2023 12:13:00 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**	**24.6433**	**0**	**100**	**25**	**16**	**112**
Pyridine	1	41.8058	0	100	42	10	131
N-Nitrosodimethylamine	1	26.6834	0	100	27	24	118
Benzaldehyde	1	65.9948	0	100	66	10	103
Aniline	1	82.2657	0	100	82	10	149
Pentachloroethane	1	7.0146	0	100	7*	10	155
bis(2-Chloroethyl)ether	1	73.1233	0	100	73	42	118
N-Decane	1	60.4446	0	100	60	25	129
1,3-Dichlorobenzene	1	74.7333	0	100	75	13	126
1,4-Dichlorobenzene	1	72.5325	0	100	73	13	133
1,2-Dichlorobenzene	1	73.4857	0	100	73	16	129
Benzyl alcohol	1	48.9397	0	100	49	33	150
bis(2-chloroisopropyl)ether	1	61.3914	0	100	61	28	119
Acetophenone	1	82.7269	0	100	83	47	132
Hexachloroethane	1	72.9969	0	100	73	19	132
N-Nitroso-di-n-propylamine	1	75.7699	0	100	76	46	127
Nitrobenzene	1	77.3099	0	100	77	45	134
Isophorone	1	72.7454	0	100	73	48	121
bis(2-Chloroethoxy)methane	1	82.166	0	100	82	47	131
1,2,4-Trichlorobenzene	1	86.5963	0	100	87	32	135
Naphthalene	1	80.466	0	100	80	12	146
4-Chloroaniline	1	94.4493	0	100	94	10	161
Hexachlorobutadiene	1	83.2056	0	100	83	24	136
Caprolactam	1	13.8969	0	100	14	10	155
2-Methylnaphthalene	1	88.9114	0	100	89	34	156
1-Methylnaphthalene	1	92.2002	0	100	92	44	149
1,1'-Biphenyl	1	92.6493	0	100	93	51	137
1,2,4,5-Tetrachlorobenzene	1	91.7314	0	100	92	52	131
Hexachlorocyclopentadiene	1	120.8368	0	100	121	24	137
2-Chloronaphthalene	1	89.4471	0	100	89	51	129
1,4-Dimethylnaphthalene	1	86.789	0	100	87	50	137
Diphenyl Ether	1	96.866	0	100	97	55	134
2-Nitroaniline	1	88.3847	0	100	88	45	165
Coumarin	1	0	0	100	0*	10	194
Acenaphthylene	1	88.7153	0	100	89	46	130
Dimethylphthalate	1	74.4627	0	100	74	10	177
2,6-Dinitrotoluene	1	95.7744	0	100	96	55	135
Acenaphthene	1	87.8924	0	100	88	48	136
3-Nitroaniline	1	99.8148	0	100	100	24	169
Dibenzofuran	1	92.3637	0	100	92	50	147
2,4-Dinitrotoluene	1	100.1801	0	100	100	55	136
Fluorene	1	93.2208	0	100	93	53	132
4-Chlorophenyl-phenylether	1	98.1423	0	100	98	58	133
Diethylphthalate	1	95.2934	0	100	95	25	152
4-Nitroaniline	1	91.6867	0	100	92	33	166
Atrazine	1	105.7502	0	100	106	21	152
n-Nitrosodiphenylamine	1	79.2951	0	100	79	44	122
1,2-Diphenylhydrazine	1	82.7897	0	100	83	53	140
4-Bromophenyl-phenylether	1	101.0144	0	100	101	60	139
Hexachlorobenzene	1	102.165	0	100	102	58	132
N-Octadecane	1	88.4492	0	100	88	53	157
Phenanthrene	1	98.1156	0	100	98	56	136
Anthracene	1	89.2958	0	100	89	59	131
Carbazole	1	99.7795	0	100	100	53	159
Di-n-butylphthalate	1	104.1912	0	100	104	60	140
Fluoranthene	1	99.7579	0	100	100	61	139
Pyrene	1	97.9528	0	100	98	58	133
Benzidine	1	19.7326	0	100	20	10	43
Butylbenzylphthalate	1	107.8089	0	100	108	61	145
3,3'-Dichlorobenzidine	1	115.8611	0	100	116	10	145
Benzo[a]anthracene	1	99.7306	0	100	100	56	122

* - 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: WMB110959

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chrysene	1	98.2766	0	100	98	58	136
bis(2-Ethylhexyl)phthalate	1	100.2385	0	100	100	59	145
Di-n-octylphthalate	1	95.8414	0	100	96	57	147
Benzo[b]fluoranthene	1	107.8008	0	100	108	58	146
Benzo[k]fluoranthene	1	98.2205	0	100	98	57	140
Benzo[a]pyrene	1	103.1834	0	100	103	55	135
Indeno[1,2,3-cd]pyrene	1	98.516	0	100	99	59	147
Dibenzo[a,h]anthracene	1	102.2249	0	100	102	58	142
Benzo[g,h,i]perylene	1	99.7667	0	100	100	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: WMB110959

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M124825.D	AD40498-001(T)(MS)	10/3/2023 1:23:00 PM
Non Spike(If applicable):	9M124824.D	AD40498-001(T)	10/3/2023 1:00:00 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**	**62.9106**	**0**	**100**	**63**	**16**	**112**
Pyridine	1	72.0746	0	100	72	10	131
N-Nitrosodimethylamine	1	71.491	0	100	71	24	118
Benzaldehyde	1	51.5413	0	100	52	10	103
Aniline	1	102.3785	0	100	102	10	149
Pentachloroethane	1	12.5413	0	100	13	10	155
bis(2-Chloroethyl)ether	1	84.8773	0	100	85	42	118
N-Decane	1	68.3053	0	100	68	25	129
1,3-Dichlorobenzene	1	85.2818	0	100	85	13	126
1,4-Dichlorobenzene	1	82.2817	0	100	82	13	133
1,2-Dichlorobenzene	1	82.8288	0	100	83	16	129
Benzyl alcohol	1	85.9698	0	100	86	33	150
bis(2-chloroisopropyl)ether	1	68.1177	0	100	68	28	119
Acetophenone	1	88.2742	0	100	88	47	132
Hexachloroethane	1	83.6075	0	100	84	19	132
N-Nitroso-di-n-propylamine	1	81.4986	0	100	81	46	127
Nitrobenzene	1	85.5102	0	100	86	45	134
Isophorone	1	80.0216	0	100	80	48	121
bis(2-Chloroethoxy)methane	1	88.7072	0	100	89	47	131
1,2,4-Trichlorobenzene	1	97.1476	0	100	97	32	135
Naphthalene	1	90.6486	0.6814	100	90	12	146
4-Chloroaniline	1	103.3438	0	100	103	10	161
Hexachlorobutadiene	1	95.3467	0	100	95	24	136
Caprolactam	1	67.4333	0	100	67	10	155
2-Methylnaphthalene	1	93.9665	0	100	94	34	156
1-Methylnaphthalene	1	92.606	0	100	93	44	149
1,1'-Biphenyl	1	93.2377	0	100	93	51	137
1,2,4,5-Tetrachlorobenzene	1	94.3939	0	100	94	52	131
Hexachlorocyclopentadiene	1	128.3553	0	100	128	24	137
2-Chloronaphthalene	1	94.7771	0	100	95	51	129
1,4-Dimethylnaphthalene	1	87.4256	0	100	87	50	137
Diphenyl Ether	1	98.3403	0	100	98	55	134
2-Nitroaniline	1	87.2781	0	100	87	45	165
Coumarin	1	13.7126	0	100	14	10	194
Acenaphthylene	1	94.5744	0	100	95	46	130
Dimethylphthalate	1	34.8515	0	100	35	10	177
2,6-Dinitrotoluene	1	97.6545	0	100	98	55	135
Acenaphthene	1	92.235	0	100	92	48	136
3-Nitroaniline	1	102.6371	0	100	103	24	169
Dibenzofuran	1	95.2834	0	100	95	50	147
2,4-Dinitrotoluene	1	103.2917	0	100	103	55	136
Fluorene	1	99.2177	0	100	99	53	132
4-Chlorophenyl-phenylether	1	102.8713	0	100	103	58	133
Diethylphthalate	1	93.6503	0	100	94	25	152
4-Nitroaniline	1	98.6167	0	100	99	33	166
Atrazine	1	108.8076	0	100	109	21	152
n-Nitrosodiphenylamine	1	83.6433	0	100	84	44	112
1,2-Diphenylhydrazine	1	92.1992	0	100	92	53	140
4-Bromophenyl-phenylether	1	104.1828	0	100	104	60	139
Hexachlorobenzene	1	104.0266	0	100	104	58	132
N-Octadecane	1	86.934	0	100	87	53	157
Phenanthrene	1	99.7479	0	100	100	56	136
Anthracene	1	93.5902	0	100	94	59	131
Carbazole	1	99.0756	0	100	99	53	149
Di-n-butylphthalate	1	107.4689	0	100	107	60	140
Fluoranthene	1	104.5653	0	100	105	61	139
Pyrene	1	99.6862	0	100	100	58	133
Benzidine	1	26.6603	0	100	27	10	43
Butylbenzylphthalate	1	108.5551	0	100	109	61	145
3,3'-Dichlorobenzidine	1	119.8025	0	100	120	10	145
Benzo[a]anthracene	1	102.547	0	100	103	56	122

* - 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: WMB110959

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chrysene	1	97.2595	0	100	97	58	136
bis(2-Ethylhexyl)phthalate	1	101.1516	0	100	101	59	145
Di-n-octylphthalate	1	98.517	0	100	99	57	147
Benzo[b]fluoranthene	1	108.7082	0	100	109	58	146
Benzo[k]fluoranthene	1	99.9189	0	100	100	57	140
Benzo[a]pyrene	1	106.3952	0	100	106	55	135
Indeno[1,2,3-cd]pyrene	1	101.3761	0	100	101	59	147
Dibenzo[a,h]anthracene	1	104.2501	0	100	104	58	142
Benzo[g,h,i]perylene	1	100.8258	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: WMB110959

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M124826.D	AD40498-001(T)(MSD)	10/3/2023 1:46:00 PM
Non Spike(If applicable):	9M124824.D	AD40498-001(T)	10/3/2023 1:00:00 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**	**53.1887**	**0**	**100**	**53**	**16**	**112**
Pyridine	1	62.5987	0	100	63	10	131
N-Nitrosodimethylamine	1	63.0645	0	100	63	24	118
Benzaldehyde	1	52.3127	0	100	52	10	103
Aniline	1	93.9506	0	100	94	10	149
Pentachloroethane	1	12.3505	0	100	12	10	155
bis(2-Chloroethyl)ether	1	77.8667	0	100	78	42	118
N-Decane	1	60.394	0	100	60	25	129
1,3-Dichlorobenzene	1	78.1904	0	100	78	13	126
1,4-Dichlorobenzene	1	76.7452	0	100	77	13	133
1,2-Dichlorobenzene	1	77.4591	0	100	77	16	129
Benzyl alcohol	1	81.337	0	100	81	33	150
bis(2-chloroisopropyl)ether	1	63.7731	0	100	64	28	119
Acetophenone	1	82.1401	0	100	82	47	132
Hexachloroethane	1	76.9878	0	100	77	19	132
N-Nitroso-di-n-propylamine	1	79.1842	0	100	79	46	127
Nitrobenzene	1	82.3564	0	100	82	45	134
Isophorone	1	77.6992	0	100	78	48	121
bis(2-Chloroethoxy)methane	1	86.8744	0	100	87	47	131
1,2,4-Trichlorobenzene	1	91.1465	0	100	91	32	135
Naphthalene	1	85.5516	0.6814	100	85	12	146
4-Chloroaniline	1	97.8475	0	100	98	10	161
Hexachlorobutadiene	1	88.6679	0	100	89	24	136
Caprolactam	1	65.5975	0	100	66	10	155
2-Methylnaphthalene	1	89.2038	0	100	89	34	156
1-Methylnaphthalene	1	88.9896	0	100	89	44	149
1,1'-Biphenyl	1	90.0247	0	100	90	51	137
1,2,4,5-Tetrachlorobenzene	1	90.7914	0	100	91	52	131
Hexachlorocyclopentadiene	1	124.2276	0	100	124	24	137
2-Chloronaphthalene	1	91.3411	0	100	91	51	129
1,4-Dimethylnaphthalene	1	85.1231	0	100	85	50	137
Diphenyl Ether	1	94.9144	0	100	95	55	134
2-Nitroaniline	1	88.0331	0	100	88	45	165
Coumarin	1	13.4223	0	100	13	10	194
Acenaphthylene	1	94.1945	0	100	94	46	130
Dimethylphthalate	1	50.1765	0	100	50	10	177
2,6-Dinitrotoluene	1	98.6051	0	100	99	55	135
Acenaphthene	1	92.4585	0	100	92	48	136
3-Nitroaniline	1	103.4078	0	100	103	24	169
Dibenzofuran	1	94.1609	0	100	94	50	147
2,4-Dinitrotoluene	1	102.7676	0	100	103	55	136
Fluorene	1	98.0035	0	100	98	53	132
4-Chlorophenyl-phenylether	1	101.4647	0	100	101	58	133
Diethylphthalate	1	96.4946	0	100	96	25	152
4-Nitroaniline	1	97.8717	0	100	98	33	166
Atrazine	1	106.8376	0	100	107	21	152
n-Nitrosodiphenylamine	1	86.3139	0	100	86	44	112
1,2-Diphenylhydrazine	1	94.6299	0	100	95	53	140
4-Bromophenyl-phenylether	1	105.4772	0	100	105	60	139
Hexachlorobenzene	1	107.2993	0	100	107	58	132
N-Octadecane	1	88.8852	0	100	89	53	157
Phenanthrene	1	103.5298	0	100	104	56	136
Anthracene	1	96.7019	0	100	97	59	131
Carbazole	1	99.4944	0	100	99	58	136
Di-n-butylphthalate	1	109.6566	0	100	110	60	140
Fluoranthene	1	107.6262	0	100	108	61	139
Pyrene	1	100.9001	0	100	101	58	133
Benzidine	1	26.4215	0	100	26	10	43
Butylbenzylphthalate	1	111.5637	0	100	112	61	145
3,3'-Dichlorobenzidine	1	123.8474	0	100	124	10	145
Benzo[a]anthracene	1	104.1619	0	100	104	56	122

* - 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: WMB110959

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chrysene	1	99.6842	0	100	100	58	136
bis(2-Ethylhexyl)phthalate	1	104.899	0	100	105	59	145
Di-n-octylphthalate	1	102.692	0	100	103	57	147
Benzo[b]fluoranthene	1	113.4693	0	100	113	58	146
Benzo[k]fluoranthene	1	99.1908	0	100	99	57	140
Benzo[a]pyrene	1	108.1798	0	100	108	55	135
Indeno[1,2,3-cd]pyrene	1	102.7414	0	100	103	59	147
Dibenzo[a,h]anthracene	1	106.5139	0	100	107	58	142
Benzo[g,h,i]perylene	1	102.1578	0	100	102	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: WMB110959

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M124826.D	AD40498-001(T)(MSD)	10/3/2023 1:46:00 PM
Duplicate(If applicable):	9M124825.D	AD40498-001(T)(MS)	10/3/2023 1:23:00 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**	**53.1887**	**62.9106**	**17**	**58**
Pyridine	1	62.5987	72.0746	14	143
N-Nitrosodimethylamine	1	63.0645	71.491	13	40
Benzaldehyde	1	52.3127	51.5413	1.5	92
Aniline	1	93.9506	102.3785	8.6	138
Pentachloroethane	1	12.3505	12.5413	1.5	79
bis(2-Chloroethyl)ether	1	77.8667	84.8773	8.6	42
N-Decane	1	60.394	68.3053	12	59
1,3-Dichlorobenzene	1	78.1904	85.2818	8.7	90
1,4-Dichlorobenzene	1	76.7452	82.2817	7	88
1,2-Dichlorobenzene	1	77.4591	82.8288	6.7	74
Benzyl alcohol	1	81.337	85.9698	5.5	35
bis(2-chloroisopropyl)ether	1	63.7731	68.1177	6.6	48
Acetophenone	1	82.1401	88.2742	7.2	30
Hexachloroethane	1	76.9878	83.6075	8.2	88
N-Nitroso-di-n-propylamine	1	79.1842	81.4986	2.9	56
Nitrobenzene	1	82.3564	85.5102	3.8	38
Isophorone	1	77.6992	80.0216	2.9	35
bis(2-Chloroethoxy)methane	1	86.8744	88.7072	2.1	44
1,2,4-Trichlorobenzene	1	91.1465	97.1476	6.4	50
Naphthalene	1	85.5516	90.6486	5.8	47
4-Chloroaniline	1	97.8475	103.3438	5.5	85
Hexachlorobutadiene	1	88.6679	95.3467	7.3	58
Caprolactam	1	65.5975	67.4333	2.8	33
2-Methylnaphthalene	1	89.2038	93.9665	5.2	38
1-Methylnaphthalene	1	88.9896	92.606	4	32
1,1'-Biphenyl	1	90.0247	93.2377	3.5	31
1,2,4,5-Tetrachlorobenzene	1	90.7914	94.3939	3.9	32
Hexachlorocyclopentadiene	1	124.2276	128.3553	3.3	48
2-Chloronaphthalene	1	91.3411	94.7771	3.7	35
1,4-Dimethylnaphthalene	1	85.1231	87.4256	2.7	31
Diphenyl Ether	1	94.9144	98.3403	3.5	32
2-Nitroaniline	1	88.0331	87.2781	0.86	37
Coumarin	1	13.4223	13.7126	2.1	97
Acenaphthylene	1	94.1945	94.5744	0.4	41
Dimethylphthalate	1	50.1765	34.8515	36	108
2,6-Dinitrotoluene	1	98.6051	97.6545	0.97	35
Acenaphthene	1	92.4585	92.235	0.24	35
3-Nitroaniline	1	103.4078	102.6371	0.75	64
Dibenzofuran	1	94.1609	95.2834	1.2	36
2,4-Dinitrotoluene	1	102.7676	103.2917	0.51	35
Fluorene	1	98.0035	99.2177	1.2	34
4-Chlorophenyl-phenylether	1	101.4647	102.8713	1.4	33
Diethylphthalate	1	96.4946	93.6503	3	37
4-Nitroaniline	1	97.8717	98.6167	0.76	35
Atrazine	1	106.8376	108.8076	1.8	47
n-Nitrosodiphenylamine	1	86.3139	83.6433	3.1	37
1,2-Diphenylhydrazine	1	94.6299	92.1992	2.6	36
4-Bromophenyl-phenylether	1	105.4772	104.1828	1.2	34
Hexachlorobenzene	1	107.2993	104.0266	3.1	34
N-Octadecane	1	88.8852	86.934	2.2	31
Phenanthrene	1	103.5298	99.7479	3.7	33
Anthracene	1	96.7019	93.5902	3.3	34
Carbazole	1	99.4944	99.0756	0.42	32
Di-n-butylphthalate	1	109.6566	107.4689	2	34
Fluoranthene	1	107.6262	104.5653	2.9	34
Pyrene	1	100.9001	99.6862	1.2	33
Benzidine	1	26.4215	26.6603	0.9	213
Butylbenzylphthalate	1	111.5637	108.5551	2.7	34
3,3'-Dichlorobenzidine	1	123.8474	119.8025	3.3	126
Benzo[a]anthracene	1	104.1619	102.547	1.6	33

* - 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: WMB110959

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chrysene	1	99.6842	97.2595	2.5	32
bis(2-Ethylhexyl)phthalate	1	104.899	101.1516	3.6	33
Di-n-octylphthalate	1	102.692	98.517	4.1	36
Benzo[b]fluoranthene	1	113.4693	108.7082	4.3	36
Benzo[k]fluoranthene	1	99.1908	99.9189	0.73	20
Benzo[a]pyrene	1	108.1798	106.3952	1.7	35
Indeno[1,2,3-cd]pyrene	1	102.7414	101.3761	1.3	35
Dibenzo[a,h]anthracene	1	106.5139	104.2501	2.1	35
Benzo[g,h,i]perylene	1	102.1578	100.8258	1.3	35

* - 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: WMB110959
Blank Data File: 9M124823.D
Matrix: Aqueous

Blank Analysis Date: 10/03/23 12:37
Blank Extraction Date: 10/02/23
(If Applicable)
Method: EPA 8270E

Sample Number	Data File	Analysis Date
AD40586-001	9M124829.D	10/03/23 14:56
AD40586-003	9M124830.D	10/03/23 15:19
AD40586-004	9M124831.D	10/03/23 15:43
AD40586-005	9M124832.D	10/03/23 16:06
AD40586-006	9M124833.D	10/03/23 16:29
AD40498-001(T)(M	9M124826.D	10/03/23 13:46
AD40498-001(T)(M	9M124825.D	10/03/23 13:23
AD40498-001(T)	9M124824.D	10/03/23 13:00
WMB110959(MS)	9M124822.D	10/03/23 12:13

FORM 4
Blank Summary

Blank Number: WMB110959
Blank Data File: 12M68469.D
Matrix: Aqueous

Blank Analysis Date: 10/03/23 13:11
Blank Extraction Date: 10/02/23
(If Applicable)
Method: EPA8270E SIM

Sample Number	Data File	Analysis Date
AD40586-001	12M68475.D	10/03/23 15:19
AD40586-003	12M68476.D	10/03/23 15:41
AD40586-004	12M68477.D	10/03/23 16:02
AD40586-005	12M68478.D	10/03/23 16:24
AD40586-006	12M68479.D	10/03/23 16:45

Form 5

Tune Name: CAL DFTPP **Data File:** 9M124630.D
Instrument: GCMS 9 **Analysis Date:** 09/07/23 10:40
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.175 to 10.181 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	47.2	13206	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	49.1	13743	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	54.2	15180	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	28000	PASS
199	198	5	9	7.3	2041	PASS
275	198	10	30	24.3	6805	PASS
365	198	1	100	2.6	741	PASS
441	443	0.01	100	73.6	2662	PASS
442	198	40	100	61.3	17161	PASS
443	442	17	23	21.1	3619	PASS

Data File	Sample Number	Analysis Date:
9M124631.D	CAL BNA@50PPM	09/07/23 11:03
9M124632.D	CAL BNA@196PP	09/07/23 11:26
9M124633.D	CAL BNA@160PP	09/07/23 11:50
9M124634.D	CAL BNA@120PP	09/07/23 12:13
9M124635.D	CAL BNA@80PPM	09/07/23 12:36
9M124636.D	CAL BNA@10PPM	09/07/23 13:00
9M124637.D	CAL BNA@2PPM	09/07/23 13:23
9M124638.D	CAL BNA@0.5PP	09/07/23 13:46
9M124639.D	CAL BNA@20PPM	09/07/23 14:10
9M124640.D	CAL BNA@50PPM	09/07/23 14:33
9M124641.D	ICV BNA@50PPM	09/07/23 15:02
9M124642.D	WMB110804(MS)	09/07/23 15:42
9M124643.D	SMB110788(MS)	09/07/23 16:21
9M124644.D	SMB110788	09/07/23 16:44

Form 5

Tune Name: CAL DFTPP **Data File:** 12M68242.D
Instrument: GCMS 12Sm **Analysis Date:** 09/20/23 08:06
Method: EPA8270E SIM

Tune Scan/Time Range: Average of 9.903 to 9.919 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	37.1	69068	PASS
68	69	0.00	2	1.5	1050	PASS
69	198	0.00	100	38.1	70840	PASS
70	69	0.00	2	0.5	357	PASS
127	198	40	60	49.1	91322	PASS
197	198	0.00	1	0.4	821	PASS
198	198	100	100	100.0	186162	PASS
199	198	5	9	6.6	12371	PASS
275	198	10	30	23.6	43921	PASS
365	198	1	100	2.8	5274	PASS
441	443	0.01	100	74.2	17726	PASS
442	198	40	100	62.4	116186	PASS
443	442	17	23	20.6	23891	PASS

Data File	Sample Number	Analysis Date:
12M68243.D	SIM@5PPM	09/20/23 08:24
12M68244.D	CAL SIM@0.2PPM	09/20/23 08:47
12M68245.D	CAL SIM@0.1PPM	09/20/23 09:13
12M68246.D	SIM@0.02PPM	09/20/23 09:34
12M68247.D	SIM@0.5PPM	09/20/23 09:55
12M68248.D	CAL SIM@1PPM	09/20/23 10:17
12M68249.D	CAL SIM@10PPM	09/20/23 10:38
12M68250.D	CAL SIM@19.6PP	09/20/23 11:00
12M68251.D	CAL SIM@5PPM	09/20/23 11:21
12M68252.D	SIM@0.5PPM	09/20/23 11:54
12M68253.D	SIM@0.02PPM	09/20/23 12:40
12M68254.D	CAL SIM@0.5PPM	09/20/23 13:02
12M68255.D	CAL SIM@0.02PP	09/20/23 13:25
12M68256.D	ICV SIM@1PPM	09/20/23 13:47

Form 5

Tune Name: CAL DFTPP **Data File:** 9M124815.D
Instrument: GCMS 9 **Analysis Date:** 10/03/23 09:14
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.148 to 10.154 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	37.7	20356	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	40.7	21996	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	48.2	26036	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	54004	PASS
199	198	5	9	7.0	3773	PASS
275	198	10	30	25.6	13837	PASS
365	198	1	100	3.4	1827	PASS
441	443	0.01	100	73.9	5775	PASS
442	198	40	100	70.4	38024	PASS
443	442	17	23	20.6	7815	PASS

Data File	Sample Number	Analysis Date:
9M124816.D	CAL BNA@50PPM	10/03/23 09:37
9M124822.D	WMB110959(MS)	10/03/23 12:13
9M124823.D	WMB110959	10/03/23 12:37
9M124824.D	AD40498-001(T)	10/03/23 13:00
9M124825.D	AD40498-001(T)(M	10/03/23 13:23
9M124826.D	AD40498-001(T)(M	10/03/23 13:46
9M124827.D	AD40453-003(T)	10/03/23 14:09
9M124828.D	EF-SPLP V-401790	10/03/23 14:32
9M124829.D	AD40586-001	10/03/23 14:56
9M124830.D	AD40586-003	10/03/23 15:19
9M124831.D	AD40586-004	10/03/23 15:43
9M124832.D	AD40586-005	10/03/23 16:06
9M124833.D	AD40586-006	10/03/23 16:29
9M124834.D	AD40587-001	10/03/23 16:52
9M124835.D	AD40626-009	10/03/23 17:15
9M124836.D	AD40626-010	10/03/23 17:57
9M124837.D	AD40625-001	10/03/23 18:19
9M124838.D	AD40625-002	10/03/23 18:42
9M124839.D	AD40625-003	10/03/23 19:05
9M124840.D	AD40625-004	10/03/23 19:28

Form 5

Tune Name: CAL DFTPP **Data File:** 12M68458.D
Instrument: GCMS 12Sm **Analysis Date:** 10/03/23 09:05
Method: EPA8270E SIM

Tune Scan/Time Range: Average of 9.898 to 9.919 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	34.8	49097	PASS
68	69	0.00	2	1.4	713	PASS
69	198	0.00	100	36.5	51484	PASS
70	69	0.00	2	0.5	255	PASS
127	198	40	60	48.0	67580	PASS
197	198	0.00	1	0.3	439	PASS
198	198	100	100	100.0	140920	PASS
199	198	5	9	6.9	9709	PASS
275	198	10	30	24.7	34814	PASS
365	198	1	100	3.0	4270	PASS
441	443	0.01	100	79.7	15575	PASS
442	198	40	100	72.2	101786	PASS
443	442	17	23	19.2	19540	PASS

Data File	Sample Number	Analysis Date:
12M68459.D	CAL SIM@5PPM	10/03/23 09:27
12M68460.D	SIM@5PPM	10/03/23 09:49
12M68461.D	TCDD STD@5PPM	10/03/23 10:11
12M68469.D	WMB110959	10/03/23 13:11
12M68470.D	OMB110950	10/03/23 13:32
12M68471.D	AD40581-001(5X)	10/03/23 13:54
12M68472.D	AD40570-001	10/03/23 14:15
12M68473.D	AD40570-002	10/03/23 14:36
12M68474.D	AD40558-001	10/03/23 14:58
12M68475.D	AD40586-001	10/03/23 15:19
12M68476.D	AD40586-003	10/03/23 15:41
12M68477.D	AD40586-004	10/03/23 16:02
12M68478.D	AD40586-005	10/03/23 16:24
12M68479.D	AD40586-006	10/03/23 16:45
12M68480.D	AD40587-001	10/03/23 17:06
12M68481.D	AD40626-009	10/03/23 17:27
12M68482.D	AD40626-010	10/03/23 17:48
12M68483.D	AD40625-001	10/03/23 18:09
12M68484.D	AD40625-002	10/03/23 18:31
12M68485.D	AD40625-003	10/03/23 18:52
12M68486.D	AD40625-004	10/03/23 19:13
12M68487.D	AD40498-001(T)	10/03/23 19:34
12M68488.D	AD40453-003(T)	10/03/23 19:56
12M68489.D	EF-SPLP V-401790	10/03/23 20:17

3092819 0042

FORM8

Internal Standard Areas

Evaluation Std Data File: 9M124640.D Method: EPA 8270E

Analysis Date/Time: 09/07/23 14:33

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:	31491	3.31	53955	6.00	204186	6.97	113643	8.40	194190	9.88	189221	12.95	178254	14.62
Eval File Area Limit:	15746-62982		26978-107910		102093-408372		56822-227286		97095-388380		94610-378442		89127-356508	
Eval File Rt Limit:	2.81-3.81		5.5-6.5		6.47-7.47		7.9-8.9		9.38-10.38		12.45-13.45		14.12-15.12	

Data File	Sample#													
9M124632.D	CAL BNA@196PPM	27702	3.31	46186	6.00	179337	6.97	101612	8.41	175636	9.89	176489	12.96	167286	14.60
9M124633.D	CAL BNA@160PPM	30523	3.31	48926	6.00	188435	6.97	105475	8.41	184408	9.88	177231	12.96	165990	14.62
9M124634.D	CAL BNA@120PPM	30296	3.31	50294	6.00	188115	6.97	102244	8.41	180274	9.88	175987	12.95	169144	14.61
9M124635.D	CAL BNA@80PPM	32970	3.31	53982	6.00	206441	6.97	111532	8.41	191169	9.89	185445	12.96	180395	14.66
9M124636.D	CAL BNA@10PPM	33216	3.32	58109	6.00	222122	6.97	121650	8.40	209955	9.88	196939	12.94	188003	14.61
9M124637.D	CAL BNA@2PPM	35541	3.31	62546	6.00	239827	6.97	131643	8.41	224242	9.88	211373	12.94	204004	14.61
9M124638.D	CAL BNA@0.5PPM	34082	3.31	60235	6.00	231110	6.97	127032	8.41	217978	9.88	201643	12.95	195094	14.63
9M124639.D	CAL BNA@20PPM	31101	3.31	55384	6.00	209572	6.97	113840	8.41	198973	9.88	188268	12.95	179643	14.61
9M124640.D	CAL BNA@50PPM	31491	3.31	53955	6.00	204186	6.97	113643	8.40	194190	9.88	189221	12.95	178254	14.62
9M124641.D	ICV BNA@50PPM	31223	3.31	53798	6.00	205744	6.98	111934	8.42	193235	9.89	182762	12.96	175551	14.65
9M124642.D	WMB110804(MS)	36605	3.31	60467	6.00	228917	6.98	122865	8.42	216810	9.90	201966	12.96	188541	14.63
9M124643.D	SMB110788(MS)	33638	3.30	54476	6.00	212664	6.98	118105	8.42	201189	9.89	191903	12.95	179939	14.64
9M124644.D	SMB110788	32301	3.30	54091	6.00	213069	6.97	118626	8.41	205165	9.88	186174	12.94	175653	14.60

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.

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FORM8

Internal Standard Areas

Evaluation Std Data File: 12M68251.D Method: EPA8270E SIM

Analysis Date/Time: 09/20/23 11:21

Lab File ID: CAL SIM@5PPM

	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:	28009	2.51	22638	5.75	103133	6.76	54205	8.17	101633	9.62	53092	12.67	44166	14.29
Eval File Area Limit:	14004-56018		11319-45276		51566-206266		27102-108410		50816-203266		26546-106184		22083-88332	
Eval File Rt Limit:	2.01-3.01		5.25-6.25		6.26-7.26		7.67-8.67		9.12-10.12		12.17-13.17		13.79-14.79	

Data File	Sample#													
12M68243.D	SIM@5PPM	41885	2.52	32902	5.75	149382	6.76	78303	8.18	150124	9.62	72092	12.67	64626	14.29
12M68244.D	CAL SIM@0.2PPM	25934	2.51	22833	5.75	100863	6.76	56507	8.18	99407	9.62	48256	12.68	42978	14.30
12M68245.D	CAL SIM@0.1PPM	26445	2.51	23458	5.75	103945	6.76	55297	8.17	103587	9.62	50804	12.68	44107	14.30
12M68246.D	SIM@0.02PPM	32110	2.51	27832	5.75	124836	6.76	66031	8.17	124300	9.62	59126	12.68	52110	14.29
12M68247.D	SIM@0.5PPM	26582	2.52	22857	5.75	101387	6.76	55068	8.17	97473	9.62	50572	12.67	41287	14.29
12M68248.D	CAL SIM@1PPM	26345	2.51	23026	5.75	100837	6.76	54238	8.17	97872	9.62	52333	12.68	42525	14.29
12M68249.D	CAL SIM@10PPM	30688	2.51	24743	5.75	116499	6.76	60122	8.17	114124	9.62	53605	12.67	48581	14.29
12M68250.D	CAL SIM@19.6PPM	31828	2.50	26061	5.75	121424	6.76	62691	8.18	119933	9.62	51827	12.68	50161	14.29
12M68251.D	CAL SIM@5PPM	28009	2.51	22638	5.75	103133	6.76	54205	8.17	101633	9.62	53092	12.67	44166	14.29
12M68252.D	SIM@0.5PPM	38394	2.51	32555	5.75	145073	6.76	74466	8.17	140126	9.63	75433	12.68	63907	14.30
12M68253.D	SIM@0.02PPM	35417	2.52	30930	5.75	131793	6.76	70718	8.18	131467	9.63	66904	12.68	57034	14.31
12M68254.D	CAL SIM@0.5PPM	31379	2.52	26778	5.75	118493	6.76	64265	8.17	115668	9.62	61482	12.68	50762	14.30
12M68255.D	CAL SIM@0.02PPM	31640	2.52	29231	5.75	120952	6.76	66317	8.17	122457	9.63	65225	12.68	52409	14.30
12M68256.D	ICV SIM@1PPM	26819	2.51	21183	5.75	97073	6.76	50357	8.18	95056	9.62	50756	12.68	40080	14.30

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.

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FORM8

Internal Standard Areas

Evaluation Std Data File: 9M124816.D Method: EPA 8270E

Analysis Date/Time: 10/03/23 09:37

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:	38862	3.30	75779	6.00	291594	6.97	161182	8.40	284646	9.87	283729	12.94	277856	14.60
Eval File Area Limit:	19431-77724		37890-151558		145797-583188		80591-322364		142323-569292		141864-567458		138928-555712	
Eval File Rt Limit:	2.8-3.8		5.5-6.5		6.47-7.47		7.9-8.9		9.37-10.37		12.44-13.44		14.1-15.1	

Data File	Sample#													
9M124822.D	WMB110959(MS)	31839	3.30	55395	6.00	209192	6.97	114325	8.41	201677	9.88	193014	12.94	187771	14.59
9M124823.D	WMB110959	31772	3.30	56122	6.00	211708	6.97	117457	8.40	210313	9.88	199132	12.94	188859	14.61
9M124824.D	AD40498-001(T)	33450	3.30	61582	6.00	230579	6.97	128122	8.40	231936	9.87	225821	12.94	220572	14.60
9M124825.D	AD40498-001(T)(MS)	31259	3.30	54667	6.00	202448	6.97	112732	8.40	201927	9.87	197041	12.94	191545	14.58
9M124826.D	AD40498-001(T)(MSD	32897	3.30	57525	6.00	214871	6.97	119111	8.40	209034	9.87	206752	12.94	198936	14.58
9M124827.D	AD40453-003(T)	33215	3.30	56613	6.00	214312	6.97	125840	8.40	220440	9.87	214991	12.94	204507	14.58
9M124828.D	EF-SPLP V-401790(9/	31150	3.30	56662	6.00	218021	6.97	123868	8.40	220868	9.87	208926	12.94	201372	14.59
9M124829.D	AD40586-001	30571	3.30	54834	6.00	199085	6.97	114069	8.40	199996	9.87	189635	12.94	183338	14.58
9M124830.D	AD40586-003	29697	3.30	54108	6.00	207310	6.97	118104	8.40	206863	9.87	195105	12.94	188220	14.59
9M124831.D	AD40586-004	32520	3.30	57372	6.00	216542	6.97	123293	8.40	217244	9.87	207769	12.94	196939	14.59
9M124832.D	AD40586-005	32572	3.30	59236	6.00	222065	6.97	125975	8.40	220866	9.87	208447	12.94	197041	14.58
9M124833.D	AD40586-006	31786	3.30	58521	6.00	222247	6.97	127546	8.40	224670	9.87	211666	12.94	202652	14.58
9M124835.D	AD40626-009	31874	3.30	57160	6.00	215387	6.97	121445	8.40	211977	9.87	207663	12.94	203840	14.58
9M124836.D	AD40626-010	33329	3.30	59572	6.00	226000	6.97	126599	8.41	224201	9.88	212117	12.94	199870	14.58
9M124837.D	AD40625-001	34966	3.30	63018	6.00	242313	6.97	135745	8.40	236281	9.87	229289	12.94	217885	14.58
9M124838.D	AD40625-002	33544	3.30	60474	6.00	230589	6.97	129620	8.40	228812	9.87	219111	12.94	204811	14.58
9M124839.D	AD40625-003	30771	3.30	55583	6.00	215178	6.97	118590	8.40	208395	9.87	200862	12.94	189970	14.58
9M124840.D	AD40625-004	32491	3.31	57338	6.00	219569	6.97	123420	8.40	215947	9.87	204763	12.94	198384	14.58

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.

FORM8

Internal Standard Areas

Evaluation Std Data File: 12M68459.D Method: EPA8270E SIM

Analysis Date/Time: 10/03/23 09:27

Lab File ID: CAL SIM@5PPM

	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:	23884	2.52	18812	5.75	84663	6.76	47233	8.18	97572	9.63	64305	12.67	46058	14.29
Eval File Area Limit:	11942-47768		9406-37624		42332-169326		23616-94466		48786-195144		32152-128610		23029-92116	
Eval File Rt Limit:	2.02-3.02		5.25-6.25		6.26-7.26		7.68-8.68		9.13-10.13		12.17-13.17		13.79-14.79	

Data File	Sample#													
12M68460.D	SIM@5PPM	32838	2.53	26246	5.75	121217	6.76	64525	8.18	131626	9.63	86588	12.67	62634	14.29
12M68461.D	TCDD STD@5PPM	22279	2.54	22447	5.75	94236	6.76	54553	8.18	105843	9.63	72968	12.68	54953	14.29
12M68469.D	WMB110959	33096	2.52	30370	5.75	114125	6.76	71946	8.18	141285	9.63	75196	12.68	63727	14.30
12M68470.D	OMB110950	31483	2.51	34564	5.75	120994	6.76	66449	8.18	133629	9.63	73907	12.68	63065	14.30
12M68471.D	AD40581-001(5X)	25741	2.52	25041	5.75	100778	6.76	209666A	8.18	185618	9.63	69658	12.68	52577	14.29
12M68472.D	AD40570-001	31818	2.51	26377	5.75	98352	6.76	70929	8.18	116318	9.63	67102	12.67	57842	14.29
12M68473.D	AD40570-002	29213	2.51	26747	5.75	104115	6.76	58947	8.18	117322	9.63	68412	12.67	55355	14.29
12M68474.D	AD40558-001	26264	2.51	27859	5.75	90448	6.76	59655	8.18	126487	9.63	70529	12.67	61900	14.29
12M68475.D	AD40586-001	27431	2.52	24181	5.75	88931	6.76	53892	8.18	108197	9.63	59221	12.68	51978	14.29
12M68476.D	AD40586-003	24706	2.52	22159	5.75	85429	6.76	52600	8.18	106443	9.63	60300	12.68	51108	14.29
12M68477.D	AD40586-004	26202	2.52	24289	5.75	92369	6.76	57530	8.18	112045	9.63	62867	12.68	51694	14.29
12M68478.D	AD40586-005	31820	2.53	28136	5.75	109458	6.76	65050	8.18	127758	9.63	69771	12.68	58828	14.29
12M68479.D	AD40586-006	25444	2.51	24891	5.75	86925	6.76	51974	8.18	104151	9.63	55519	12.68	46131	14.30
12M68480.D	AD40587-001	27231	2.51	23286	5.75	85578	6.76	49668	8.18	96937	9.63	61560	12.67	53631	14.29
12M68481.D	AD40626-009	24317	2.51	21787	5.75	83395	6.76	53016	8.18	92658	9.63	57685	12.68	50512	14.29
12M68482.D	AD40626-010	26627	2.51	24341	5.75	93231	6.76	58924	8.18	122244	9.63	61250	12.67	54077	14.29
12M68483.D	AD40625-001	26545	2.51	24674	5.75	94308	6.76	57902	8.18	106684	9.63	57148	12.67	48921	14.28
12M68484.D	AD40625-002	33723	2.53	30527	5.75	118464	6.76	79343	8.18	162787	9.63	88078	12.67	71243	14.29
12M68485.D	AD40625-003	24641	2.52	22320	5.75	132228	6.76	56190	8.18	97057	9.62	56327	12.67	46128	14.28
12M68486.D	AD40625-004	22812	2.51	18258	5.75	78017	6.76	72599	8.18	90510	9.62	58190	12.67	46222	14.29
12M68487.D	AD40498-001(T)	21607	2.51	22559	5.75	87039	6.76	59058	8.17	88353	9.62	57323	12.67	46885	14.29
12M68488.D	AD40453-003(T)	25722	2.51	21221	5.75	84444	6.76	54239	8.18	99193	9.63	61076	12.67	53574	14.28
12M68489.D	EF-SPLP V-401790(9/	22410	2.52	22058	5.75	83792	6.76	51591	8.18	101724	9.63	55064	12.67	49088	14.29

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.

GC/MS Base Neutral/Acid Extractable Data
Sample Data

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD40586-001
Client Id: MW-1_9.27.23
Data File: 9M124829.D
Analysis Date: 10/03/23 14:56
Date Rec/Extracted: 09/28/23-10/02/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 960ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.52	U				

Worksheet #: 710763

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.

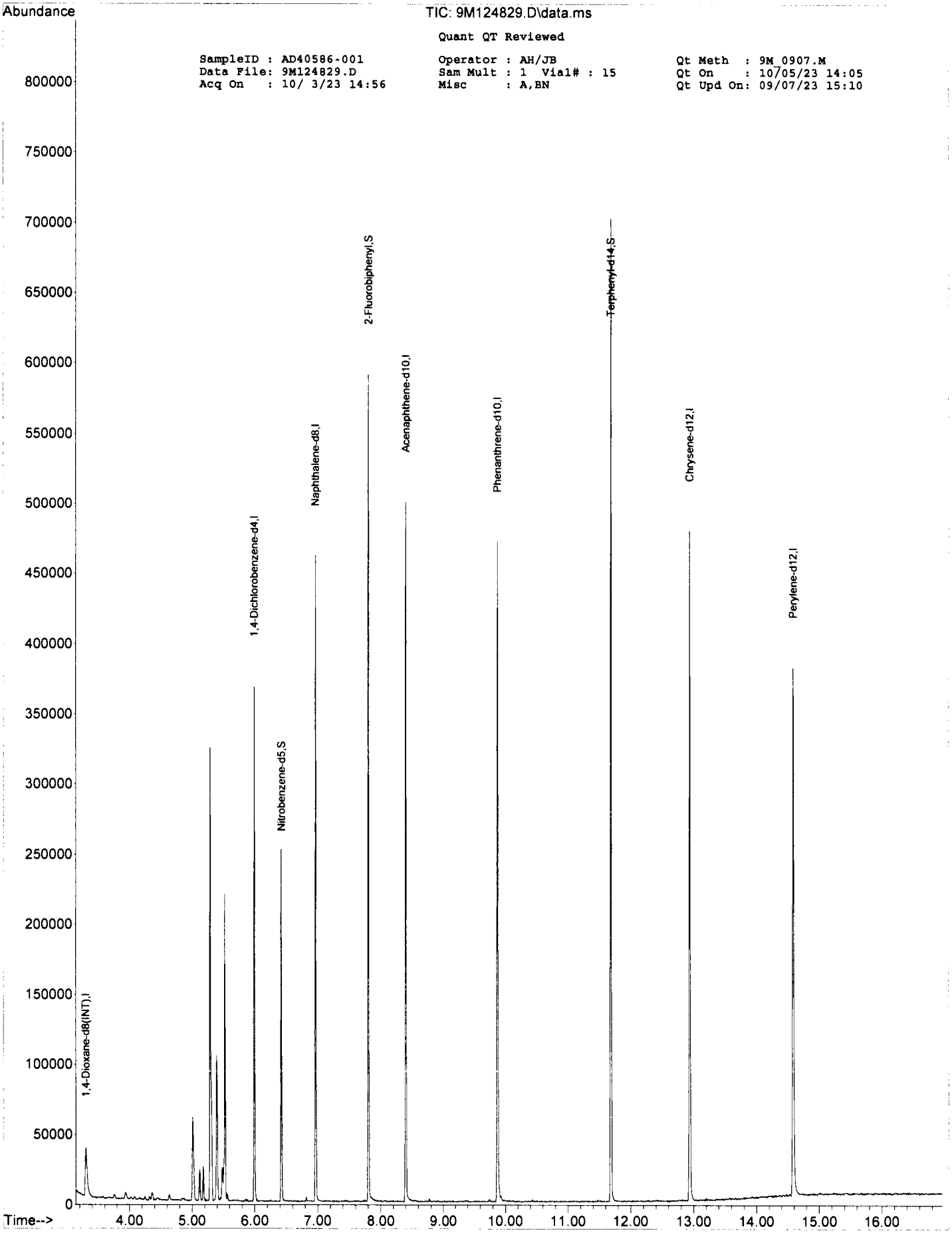
Quantitation Report (QT Reviewed)

SampleID : AD40586-001 Operator : AH/JB Qt Meth : 9M_0907.M
Data File: 9M124829.D Sam Mult : 1 Vial# : 15 Qt On : 10/05/23 14:05
Acq On : 10/ 3/23 14:56 Misc : A,BN Qt Upd On: 09/07/23 15:10

Data Path : G:\GcMsData\2023\GCMS_9\Data\10-03-23\
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)	3.302	96	30571	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.996	152	54834	40.00	ng	0.00
31) Naphthalene-d8	6.966	136	199085	40.00	ng	0.00
50) Acenaphthene-d10	8.401	164	114069	40.00	ng	0.00
77) Phenanthrene-d10	9.872	188	199996	40.00	ng	0.00
91) Chrysene-d12	12.936	240	189635	40.00	ng	0.00
103) Perylene-d12	14.583	264	183338	40.00	ng	-0.04
System Monitoring Compounds						
11) 2-Fluorophenol	0.000	112	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
16) Phenol-d5	0.000	99	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
32) Nitrobenzene-d5	6.425	128	38958	47.53	ng	0.00
Spiked Amount 50.000			Recovery =	95.06%		
55) 2-Fluorobiphenyl	7.807	172	182316	49.65	ng	0.00
Spiked Amount 50.000			Recovery =	99.30%		
80) 2,4,6-Tribromophenol	0.000	330	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
94) Terphenyl-d14	11.683	244	241237	61.42	ng	0.00
Spiked Amount 50.000			Recovery =	122.84%		
Target Compounds						Qvalue

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


Abundance
TIC: 9M124829.D\data.ms
Quant QT Reviewed
SampleID : AD40586-001
Data File: 9M124829.D
Acq On : 10/ 3/23 14:56
Operator : AH/JB
Sam Mult : 1 Vial# : 15
Misc : A,BN
Qt Meth : 9M_0907.M
Qt On : 10/05/23 14:05
Qt Upd On: 09/07/23 15:10
800000
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
1,4-Dioxane-d8(INT),I
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->
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: AD40586-001
Client Id: MW-1_9.27.23
Data File: 12M68475.D
Analysis Date: 10/03/23 15:19
Date Rec/Extracted: 09/28/23-10/02/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 960ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 710765

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.

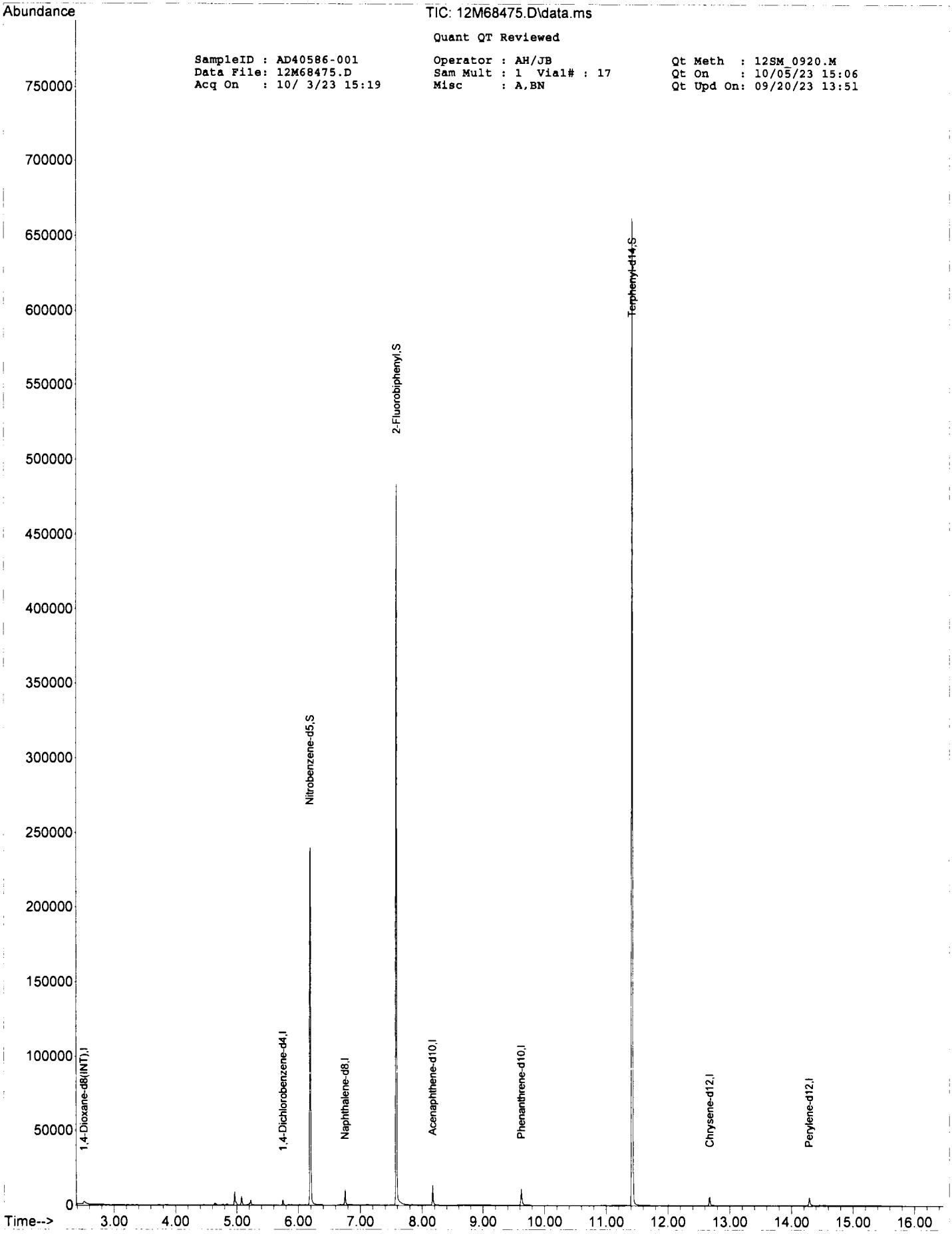
Quantitation Report (QT Reviewed)

SampleID : AD40586-001 Operator : AH/JB Qt Meth : 12SM_0920.M
Data File: 12M68475.D Sam Mult : 1 Vial# : 17 Qt On : 10/05/23 15:06
Acq On : 10/ 3/23 15:19 Misc : A,BN Qt Upd On: 09/20/23 13:51

Data Path : G:\GcMsData\2023\GCMS_12SM\Data\10-03-23\
Qt Path : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.516	96	27431	0.40	ng	0.00
3) 1,4-Dichlorobenzene-d4	5.751	152	24181	0.40	ng	0.00
9) Naphthalene-d8	6.759	136	88931	0.40	ng	0.00
14) Acenaphthene-d10	8.176	164	53892	0.40	ng	0.00
22) Phenanthrene-d10	9.626	188	108197	0.40	ng	0.00
31) Chrysene-d12	12.676	240	59221	0.40	ng	0.00
36) Perylene-d12	14.294	264	51978	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.192	82	2011981	45.19	ng	0.00
Spiked Amount 50.000			Recovery = 90.38%			
17) 2-Fluorobiphenyl	7.587	172	4257684	39.82	ng	0.00
Spiked Amount 50.000			Recovery = 79.64%			
33) Terphenyl-d14	11.425	244	5892771	38.13	ng	0.00
Spiked Amount 50.000			Recovery = 76.26%			
Target Compounds						Qvalue

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


Abundance
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Quant QT Reviewed
SampleID : AD40586-001
Data File: 12M68475.D
Acq On : 10/ 3/23 15:19
Operator : AH/JB
Sam Mult : 1 Vial# : 17
Misc : A,BN
Qt Meth : 12SM_0920.M
Qt On : 10/05/23 15:06
Qt Upd On: 09/20/23 13:51
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
1,4-Dioxane-d8(INT),I
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD40586-003
Client Id: MW-10_9.27.23
Data File: 9M124830.D
Analysis Date: 10/03/23 15:19
Date Rec/Extracted: 09/28/23-10/02/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U				

Worksheet #: 710763

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)

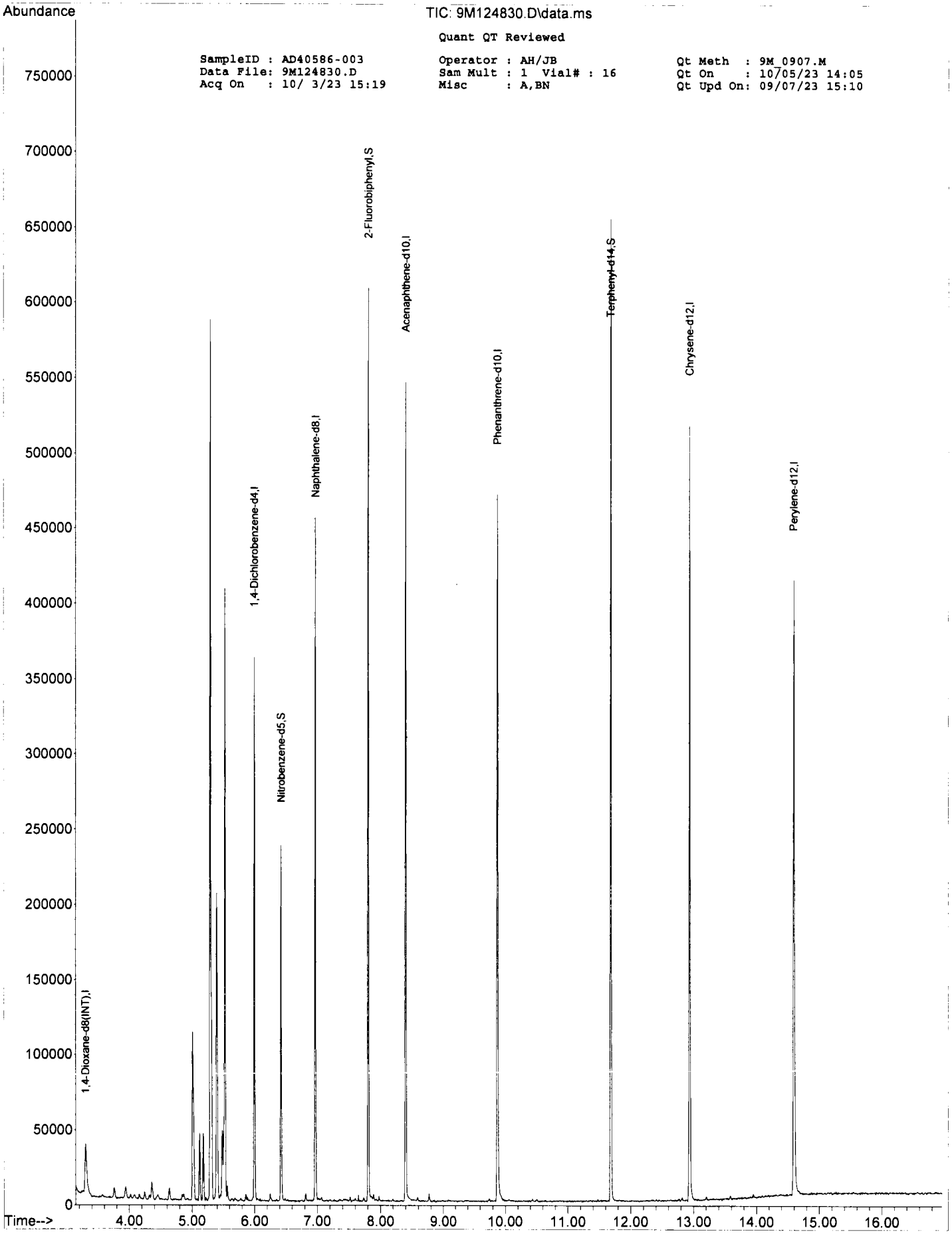
SampleID : AD40586-003 Operator : AH/JB Qt Meth : 9M_0907.M
Data File: 9M124830.D Sam Mult : 1 Vial# : 16 Qt On : 10/05/23 14:05
Acq On : 10/ 3/23 15:19 Misc : A,BN Qt Upd On: 09/07/23 15:10

Data Path : G:\GcMsData\2023\GCMS_9\Data\10-03-23\
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)	3.302	96	29697	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.996	152	54108	40.00	ng	0.00
31) Naphthalene-d8	6.972	136	207310	40.00	ng	0.00
50) Acenaphthene-d10	8.401	164	118104	40.00	ng	0.00
77) Phenanthrene-d10	9.872	188	206863	40.00	ng	0.00
91) Chrysene-d12	12.936	240	195105	40.00	ng	0.00
103) Perylene-d12	14.595	264	188220	40.00	ng	-0.03
System Monitoring Compounds						
11) 2-Fluorophenol	0.000	112	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
16) Phenol-d5	0.000	99	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
32) Nitrobenzene-d5	6.425	128	36931	43.27	ng	0.00
Spiked Amount 50.000			Recovery =	86.54%		
55) 2-Fluorobiphenyl	7.807	172	176597	46.45	ng	0.00
Spiked Amount 50.000			Recovery =	92.90%		
80) 2,4,6-Tribromophenol	0.000	330	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
94) Terphenyl-d14	11.683	244	228219	56.48	ng	0.00
Spiked Amount 50.000			Recovery =	112.96%		

Target Compounds Qvalue

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


Abundance
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Quant QT Reviewed
SampleID : AD40586-003
Data File: 9M124830.D
Acq On : 10/ 3/23 15:19
Operator : AH/JB
Sam Mult : 1 Vial# : 16
Misc : A,BN
Qt Meth : 9M_0907.M
Qt On : 10/05/23 14:05
Qt Upd On: 09/07/23 15:10
1,4-Dioxane-d8(INT),I
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD40586-003
Client Id: MW-10_9.27.23
Data File: 12M68476.D
Analysis Date: 10/03/23 15:41
Date Rec/Extracted: 09/28/23-10/02/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 710765

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.

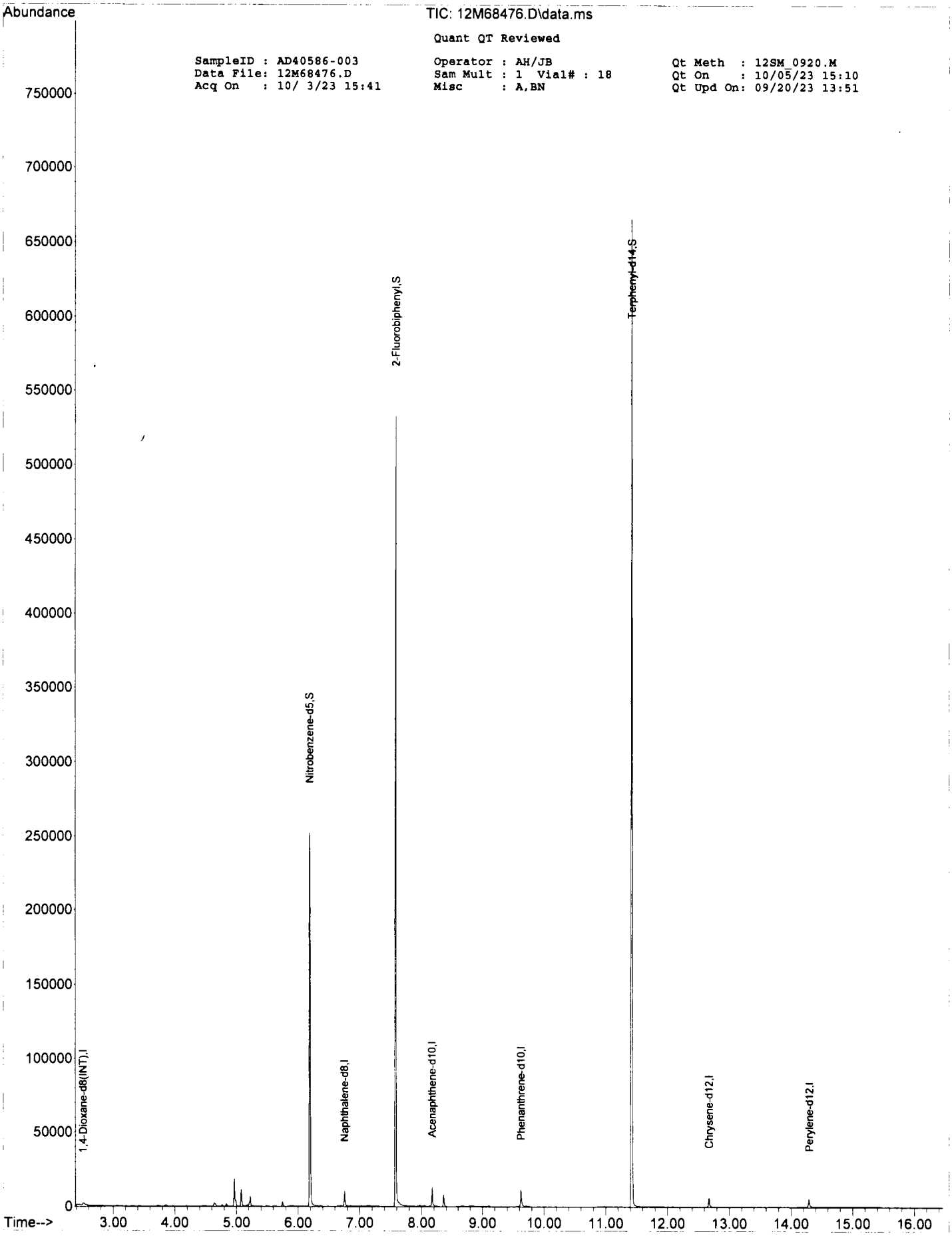
Quantitation Report (QT Reviewed)

SampleID : AD40586-003 Operator : AH/JB Qt Meth : 12SM_0920.M
Data File: 12M68476.D Sam Mult : 1 Vial# : 18 Qt On : 10/05/23 15:10
Acq On : 10/ 3/23 15:41 Misc : A,BN Qt Upd On: 09/20/23 13:51

Data Path : G:\GcMsData\2023\GCMS_12SM\Data\10-03-23\
Qt Path : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.517	96	24706	0.40	ng	0.00
3) 1,4-Dichlorobenzene-d4	5.750	152	22159	0.40	ng	0.00
9) Naphthalene-d8	6.759	136	85429	0.40	ng	0.00
14) Acenaphthene-d10	8.176	164	52600	0.40	ng	0.00
22) Phenanthrene-d10	9.626	188	106443	0.40	ng	0.00
31) Chrysene-d12	12.676	240	60300	0.40	ng	0.00
36) Perylene-d12	14.294	264	51108	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.192	82	2088995	48.84	ng	0.00
Spiked Amount 50.000			Recovery =	97.68%		
17) 2-Fluorobiphenyl	7.587	172	4436955	43.08	ng	0.00
Spiked Amount 50.000			Recovery =	86.16%		
33) Terphenyl-d14	11.425	244	5917902	37.56	ng	0.00
Spiked Amount 50.000			Recovery =	75.12%		
Target Compounds						Qvalue

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


Abundance
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Quant QT Reviewed
SampleID : AD40586-003
Data File: 12M68476.D
Acq On : 10/ 3/23 15:41
Operator : AH/JB
Sam Mult : 1 Vial# : 18
Misc : A,BN
Qt Meth : 12SM_0920.M
Qt On : 10/05/23 15:10
Qt Upd On: 09/20/23 13:51
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
1,4-Dioxane-d8(INT),I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD40586-004
Client Id: RB-1_9.27.23
Data File: 9M124831.D
Analysis Date: 10/03/23 15:43
Date Rec/Extracted: 09/28/23-10/02/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U				

Worksheet #: 710763

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.

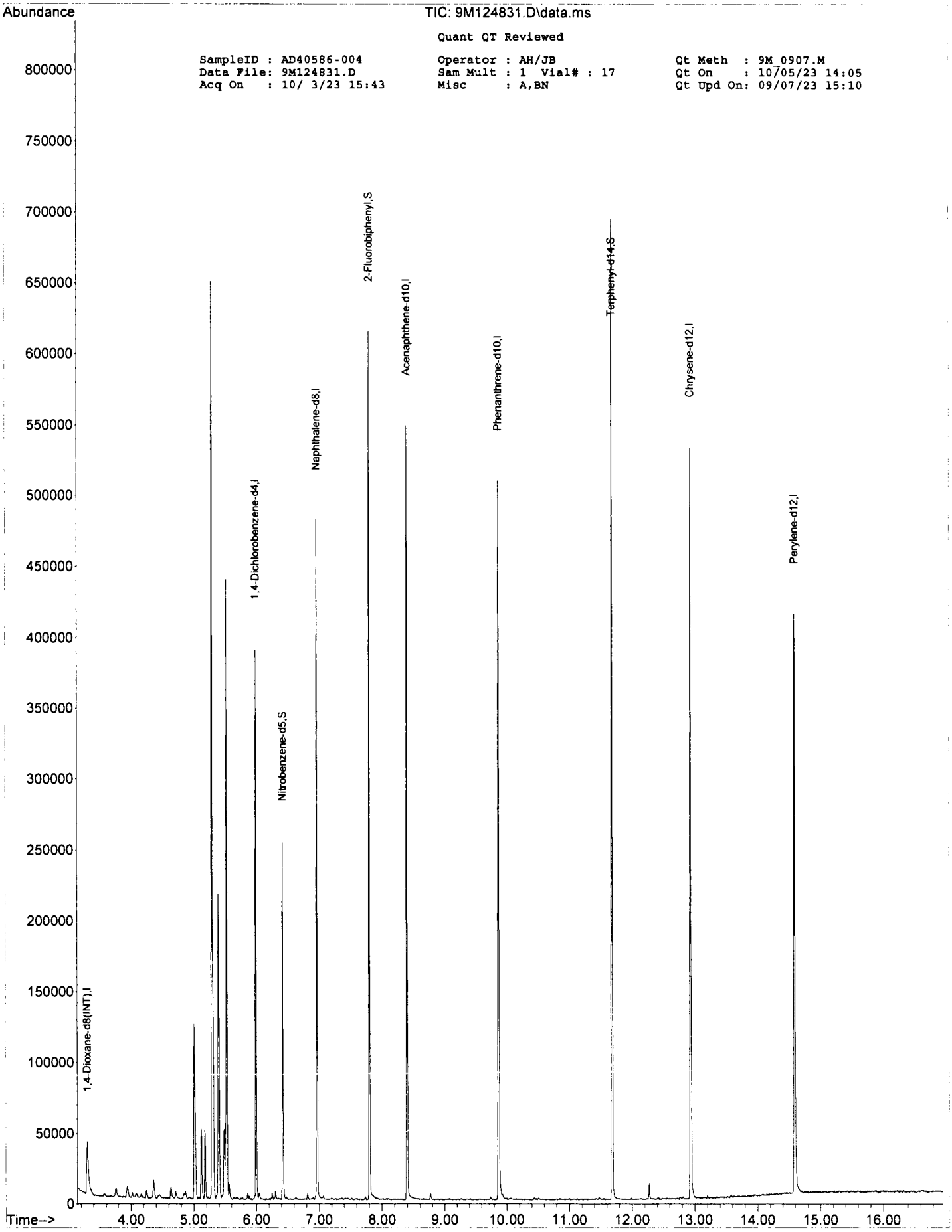
Quantitation Report (QT Reviewed)

SampleID : AD40586-004 Operator : AH/JB Qt Meth : 9M_0907.M
Data File: 9M124831.D Sam Mult : 1 Vial# : 17 Qt On : 10/05/23 14:05
Acq On : 10/ 3/23 15:43 Misc : A,BN Qt Upd On: 09/07/23 15:10

Data Path : G:\GcMsData\2023\GCMS_9\Data\10-03-23\
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)	3.302	96	32520	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.996	152	57372	40.00	ng	0.00
31) Naphthalene-d8	6.966	136	216542	40.00	ng	0.00
50) Acenaphthene-d10	8.401	164	123293	40.00	ng	0.00
77) Phenanthrene-d10	9.872	188	217244	40.00	ng	0.00
91) Chrysene-d12	12.936	240	207769	40.00	ng	0.00
103) Perylene-d12	14.589	264	196939	40.00	ng	-0.03
System Monitoring Compounds						
11) 2-Fluorophenol	0.000	112	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
16) Phenol-d5	0.000	99	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
32) Nitrobenzene-d5	6.425	128	40330	45.24	ng	0.00
Spiked Amount 50.000			Recovery =	90.48%		
55) 2-Fluorobiphenyl	7.807	172	184227	46.41	ng	0.00
Spiked Amount 50.000			Recovery =	92.82%		
80) 2,4,6-Tribromophenol	0.000	330	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
94) Terphenyl-d14	11.683	244	235801	54.80	ng	0.00
Spiked Amount 50.000			Recovery =	109.60%		
Target Compounds						Qvalue

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


Abundance
TIC: 9M124831.D\data.ms
Quant QT Reviewed
SampleID : AD40586-004
Data File: 9M124831.D
Acq On : 10/ 3/23 15:43
Operator : AH/JB
Sam Mult : 1 Vial# : 17
Misc : A,BN
Qt Meth : 9M_0907.M
Qt On : 10/05/23 14:05
Qt Upd On: 09/07/23 15:10
1,4-Dioxane-d8(INT),I
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD40586-004
Client Id: RB-1_9.27.23
Data File: 12M68477.D
Analysis Date: 10/03/23 16:02
Date Rec/Extracted: 09/28/23-10/02/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 710765

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.

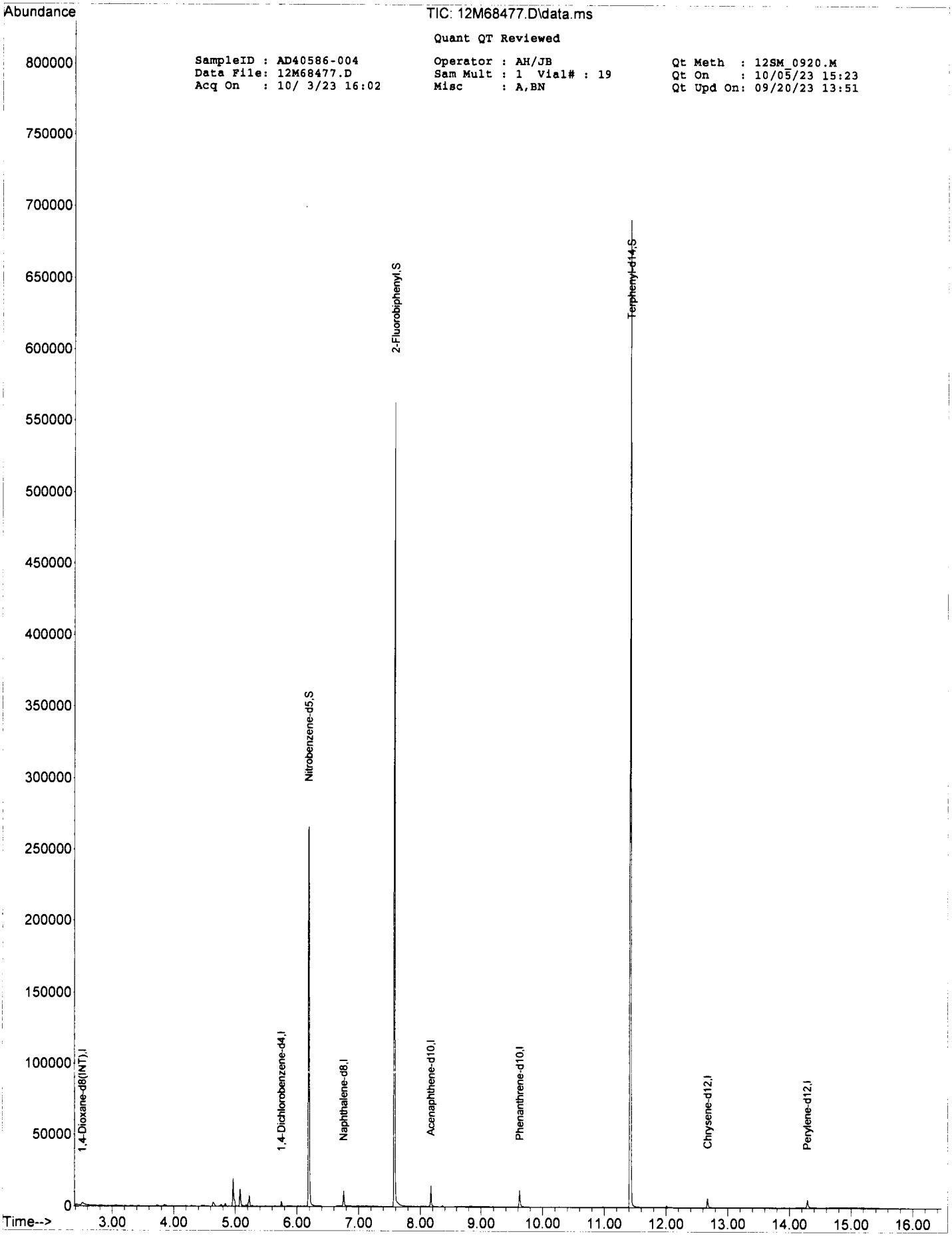
Quantitation Report (QT Reviewed)

SampleID : AD40586-004 Operator : AH/JB Qt Meth : 12SM_0920.M
Data File: 12M68477.D Sam Mult : 1 Vial# : 19 Qt On : 10/05/23 15:23
Acq On : 10/ 3/23 16:02 Misc : A,BN Qt Upd On: 09/20/23 13:51

Data Path : G:\GcMsData\2023\GCMS_12SM\Data\10-03-23\
Qt Path : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.518	96	26202	0.40	ng	0.01
3) 1,4-Dichlorobenzene-d4	5.750	152	24289	0.40	ng	0.00
9) Naphthalene-d8	6.759	136	92369	0.40	ng	0.00
14) Acenaphthene-d10	8.176	164	57530	0.40	ng	0.00
22) Phenanthrene-d10	9.626	188	112045	0.40	ng	0.00
31) Chrysene-d12	12.677	240	62867	0.40	ng	0.00
36) Perylene-d12	14.294	264	51694	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.192	82	2228498	48.19	ng	0.00
Spiked Amount 50.000			Recovery = 96.38%			
17) 2-Fluorobiphenyl	7.587	172	4771795	42.21	ng	0.00
Spiked Amount 50.000			Recovery = 84.42%			
33) Terphenyl-d14	11.426	244	6175215	37.59	ng	0.00
Spiked Amount 50.000			Recovery = 75.18%			
Target Compounds						Qvalue

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


Abundance
TIC: 12M68477.D\data.ms
Quant QT Reviewed
SampleID : AD40586-004
Data File: 12M68477.D
Acq On : 10/ 3/23 16:02
Operator : AH/JB
Sam Mult : 1 Vial# : 19
Misc : A,BN
Qt Meth : 12SM_0920.M
Qt On : 10/05/23 15:23
Qt Upd On: 09/20/23 13:51
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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
1,4-Dioxane-d8(INT),I
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD40586-005
Client Id: FB-1_9.27.23
Data File: 9M124832.D
Analysis Date: 10/03/23 16:06
Date Rec/Extracted: 09/28/23-10/02/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U				

Worksheet #: 710763

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.

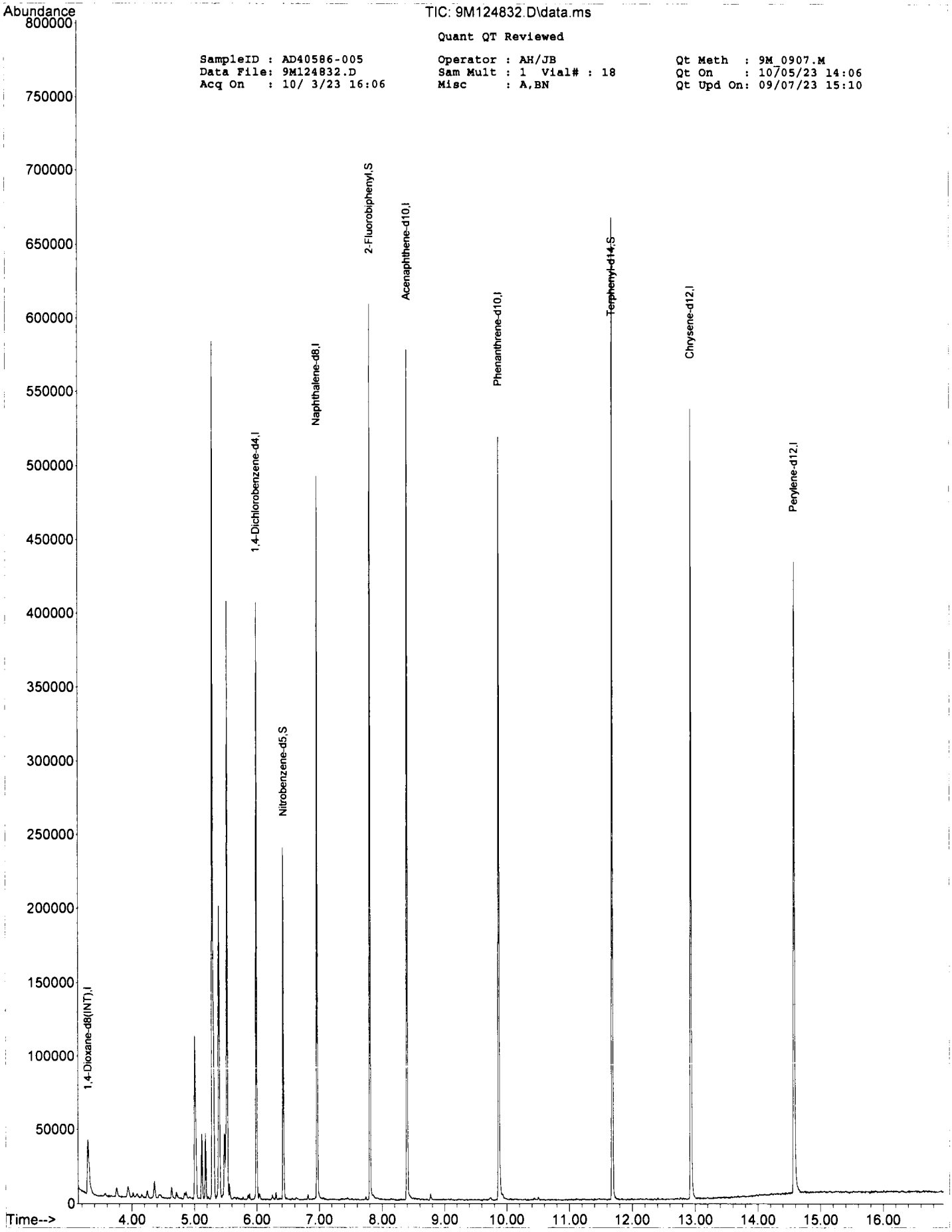
Quantitation Report (QT Reviewed)

SampleID : AD40586-005 Operator : AH/JB Qt Meth : 9M_0907.M
Data File: 9M124832.D Sam Mult : 1 Vial# : 18 Qt On : 10/05/23 14:06
Acq On : 10/ 3/23 16:06 Misc : A,BN Qt Upd On: 09/07/23 15:10

Data Path : G:\GcMsData\2023\GCMS_9\Data\10-03-23\
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)	3.302	96	32572	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.995	152	59236	40.00	ng	0.00
31) Naphthalene-d8	6.966	136	222065	40.00	ng	0.00
50) Acenaphthene-d10	8.401	164	125975	40.00	ng	0.00
77) Phenanthrene-d10	9.872	188	220866	40.00	ng	0.00
91) Chrysene-d12	12.936	240	208447	40.00	ng	0.00
103) Perylene-d12	14.583	264	197041	40.00	ng	-0.04
System Monitoring Compounds						
11) 2-Fluorophenol	0.000	112	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
16) Phenol-d5	0.000	99	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
32) Nitrobenzene-d5	6.425	128	37254	40.75	ng	0.00
Spiked Amount 50.000			Recovery =	81.50%		
55) 2-Fluorobiphenyl	7.807	172	180852	44.59	ng	0.00
Spiked Amount 50.000			Recovery =	89.18%		
80) 2,4,6-Tribromophenol	0.000	330	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
94) Terphenyl-d14	11.683	244	228980	53.04	ng	0.00
Spiked Amount 50.000			Recovery =	106.08%		
Target Compounds						Qvalue

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


Abundance
TIC: 9M124832.D\data.ms
Quant QT Reviewed
SampleID : AD40586-005
Data File: 9M124832.D
Acq On : 10/ 3/23 16:06
Operator : AH/JB
Sam Mult : 1 Vial# : 18
Misc : A,BN
Qt Meth : 9M_0907.M
Qt On : 10/05/23 14:06
Qt Upd On: 09/07/23 15:10
1,4-Dioxane-d8(INT),I
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD40586-005
Client Id: FB-1_9.27.23
Data File: 12M68478.D
Analysis Date: 10/03/23 16:24
Date Rec/Extracted: 09/28/23-10/02/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 710765

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.

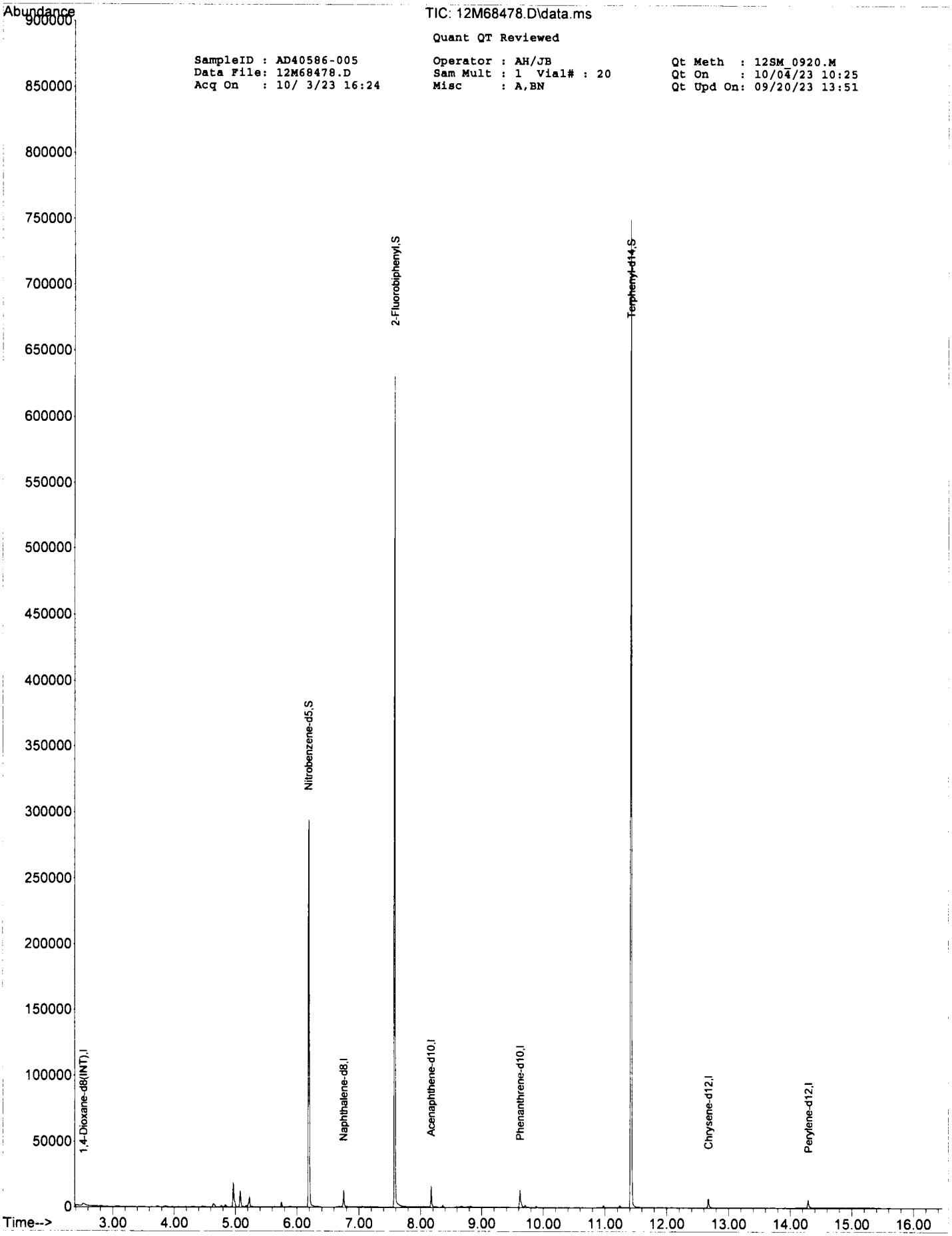
Quantitation Report (QT Reviewed)

SampleID : AD40586-005 Operator : AH/JB Qt Meth : 12SM_0920.M
Data File: 12M68478.D Sam Mult : 1 Vial# : 20 Qt On : 10/04/23 10:25
Acq On : 10/ 3/23 16:24 Misc : A,BN Qt Upd On: 09/20/23 13:51

Data Path : G:\GcMsData\2023\GCMS_12SM\Data\10-03-23\
Qt Path : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.526	96	31820	0.40	ng	0.02
3) 1,4-Dichlorobenzene-d4	5.751	152	28136	0.40	ng	0.00
9) Naphthalene-d8	6.759	136	109458	0.40	ng	0.00
14) Acenaphthene-d10	8.176	164	65050	0.40	ng	0.00
22) Phenanthrene-d10	9.626	188	127758	0.40	ng	0.00
31) Chrysene-d12	12.676	240	69771	0.40	ng	0.00
36) Perylene-d12	14.294	264	58828	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.193	82	2443297	44.59	ng	0.00
Spiked Amount 50.000			Recovery =	89.18%		
17) 2-Fluorobiphenyl	7.587	172	5245303	40.80	ng	0.00
Spiked Amount 50.000			Recovery =	81.60%		
33) Terphenyl-d14	11.426	244	6748606	36.96	ng	0.00
Spiked Amount 50.000			Recovery =	73.92%		
Target Compounds						Qvalue

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


Abundance
TIC: 12M68478.D\data.ms
Quant QT Reviewed
SampleID : AD40586-005
Data File: 12M68478.D
Acq On : 10/ 3/23 16:24
Operator : AH/JB
Sam Mult : 1 Vial# : 20
Misc : A,BN
Qt Meth : 12SM_0920.M
Qt On : 10/04/23 10:25
Qt Upd On: 09/20/23 13:51
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
1,4-Dioxane-d8(INT),I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD40586-006
Client Id: DUP-1_9.27.23
Data File: 9M124833.D
Analysis Date: 10/03/23 16:29
Date Rec/Extracted: 09/28/23-10/02/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.50	U				

Worksheet #: 710763

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.

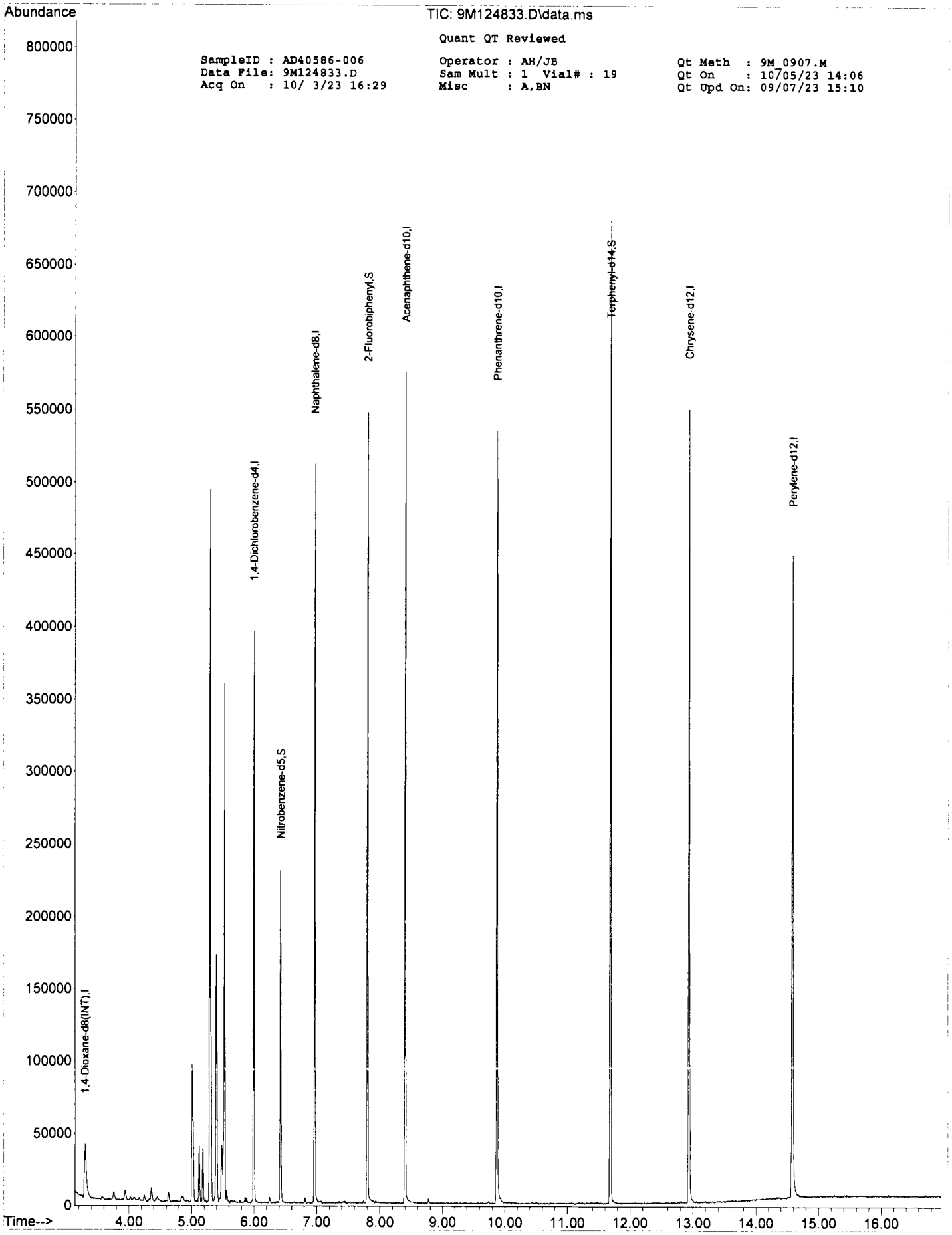
Quantitation Report (QT Reviewed)

SampleID : AD40586-006 Operator : AH/JB Qt Meth : 9M_0907.M
Data File: 9M124833.D Sam Mult : 1 Vial# : 19 Qt On : 10/05/23 14:06
Acq On : 10/ 3/23 16:29 Misc : A,BN Qt Upd On: 09/07/23 15:10

Data Path : G:\GcMsData\2023\GCMS_9\Data\10-03-23\
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)	3.301	96	31786	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.995	152	58521	40.00	ng	0.00
31) Naphthalene-d8	6.966	136	222247	40.00	ng	0.00
50) Acenaphthene-d10	8.401	164	127546	40.00	ng	0.00
77) Phenanthrene-d10	9.872	188	224670	40.00	ng	0.00
91) Chrysene-d12	12.936	240	211666	40.00	ng	0.00
103) Perylene-d12	14.583	264	202652	40.00	ng	-0.04
System Monitoring Compounds						
11) 2-Fluorophenol	0.000	112	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
16) Phenol-d5	0.000	99	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
32) Nitrobenzene-d5	6.425	128	35532	38.84	ng	0.00
Spiked Amount 50.000			Recovery =	77.68%		
55) 2-Fluorobiphenyl	7.807	172	169922	41.38	ng	0.00
Spiked Amount 50.000			Recovery =	82.76%		
80) 2,4,6-Tribromophenol	0.000	330	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
94) Terphenyl-d14	11.683	244	234081	53.40	ng	0.00
Spiked Amount 50.000			Recovery =	106.80%		
Target Compounds						Qvalue

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


Abundance
TIC: 9M124833.D\data.ms
Quant QT Reviewed
SampleID : AD40586-006
Data File: 9M124833.D
Acq On : 10/ 3/23 16:29
Operator : AH/JB
Sam Mult : 1 Vial# : 19
Misc : A,BN
Qt Meth : 9M_0907.M
Qt On : 10/05/23 14:06
Qt Upd On: 09/07/23 15:10
1,4-Dioxane-d8(INT),I
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD40586-006
Client Id: DUP-1_9.27.23
Data File: 12M68479.D
Analysis Date: 10/03/23 16:45
Date Rec/Extracted: 09/28/23-10/02/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 710765

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.

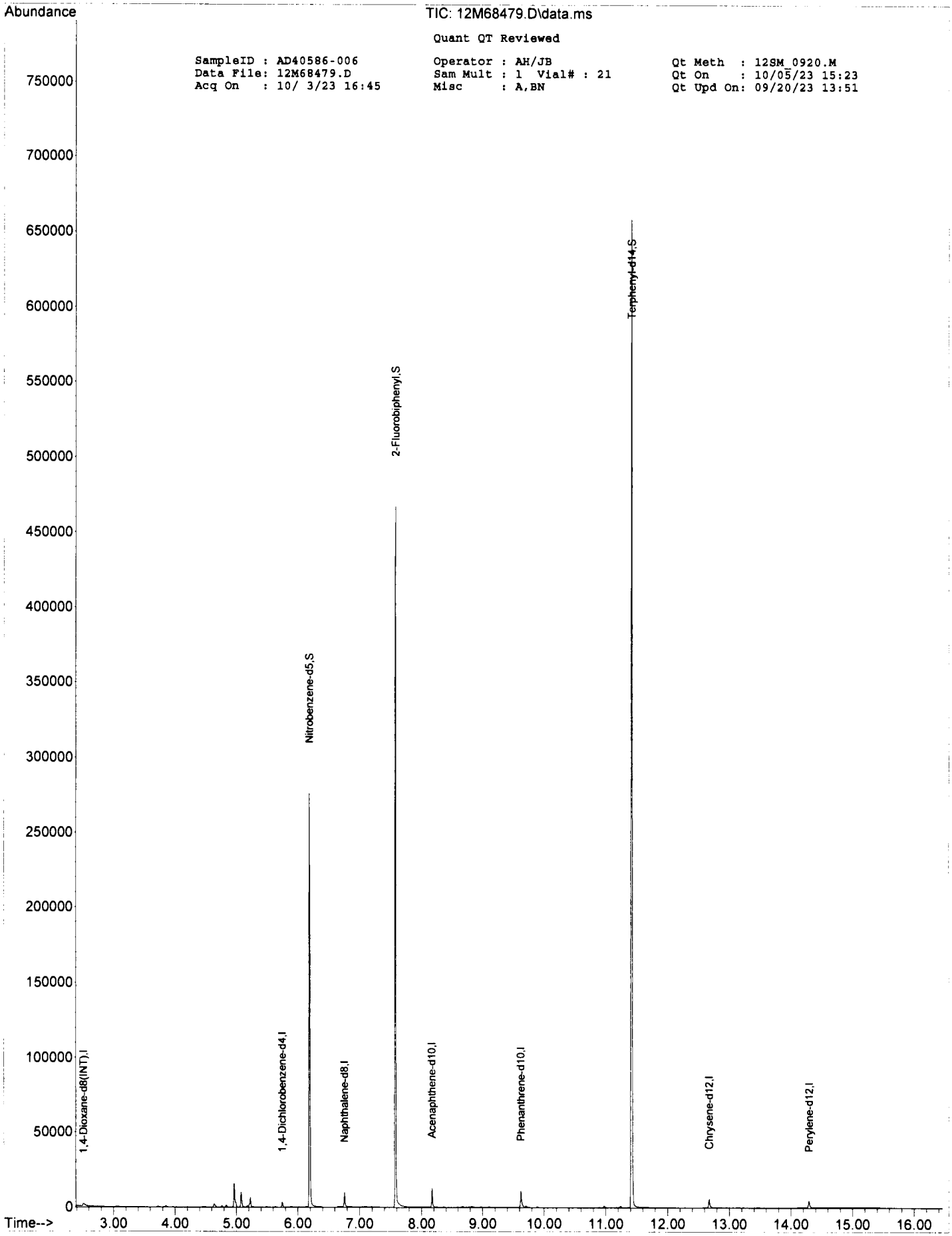
Quantitation Report (QT Reviewed)

SampleID : AD40586-006 Operator : AH/JB Qt Meth : 12SM_0920.M
Data File: 12M68479.D Sam Mult : 1 Vial# : 21 Qt On : 10/05/23 15:23
Acq On : 10/ 3/23 16:45 Misc : A,BN Qt Upd On: 09/20/23 13:51

Data Path : G:\GcMsData\2023\GCMS_12SM\Data\10-03-23\
Qt Path : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.514	96	25444	0.40	ng	0.00
3) 1,4-Dichlorobenzene-d4	5.750	152	24891	0.40	ng	0.00
9) Naphthalene-d8	6.759	136	86925	0.40	ng	0.00
14) Acenaphthene-d10	8.176	164	51974	0.40	ng	0.00
22) Phenanthrene-d10	9.626	188	104151	0.40	ng	0.00
31) Chrysene-d12	12.678	240	55519	0.40	ng	0.01
36) Perylene-d12	14.296	264	46131	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.192	82	2087140	47.96	ng	0.00
Spiked Amount 50.000			Recovery = 95.92%			
17) 2-Fluorobiphenyl	7.586	172	4258184	41.59	ng	0.00
Spiked Amount 50.000			Recovery = 83.18%			
33) Terphenyl-d14	11.425	244	5996796	41.77	ng	0.00
Spiked Amount 50.000			Recovery = 83.54%			
Target Compounds						Qvalue

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


Abundance
TIC: 12M68479.D\data.ms
Quant QT Reviewed
SampleID : AD40586-006
Data File: 12M68479.D
Acq On : 10/ 3/23 16:45
Operator : AH/JB
Sam Mult : 1 Vial# : 21
Misc : A,BN
Qt Meth : 12SM_0920.M
Qt On : 10/05/23 15:23
Qt Upd On: 09/20/23 13:51
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
1,4-Dioxane-d8(INT),I
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I

GC/MS Base Neutral/Acid Extractable Data
Standards Data

3092819 0078

Form 6
Initial Calibration

Method: EPA 8270E

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M124640.D	CAL BNA@50PPM	09/07/23 14:33	2	9M124637.D	CAL BNA@2PPM	09/07/23 13:23
3	9M124636.D	CAL BNA@10PPM	09/07/23 13:00	4	9M124639.D	CAL BNA@20PPM	09/07/23 14:10
5	9M124635.D	CAL BNA@80PPM	09/07/23 12:36	6	9M124634.D	CAL BNA@120PPM	09/07/23 12:13
7	9M124633.D	CAL BNA@160PPM	09/07/23 11:50	8	9M124632.D	CAL BNA@196PPM	09/07/23 11:26
9	9M124638.D	CAL BNA@0.5PPM	09/07/23 13:46				

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	0.9166	0.9144	1.0256	0.9819	0.9383	0.9387	0.9339	0.9939	1.2910	0.993	3.35	0.999	0.999	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	2.5017	2.4366	2.5676	2.5411	2.5639	2.5828	2.5432	2.7760	-----	2.56	3.69	0.996	0.998	3.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.4552	1.3263	1.4878	1.4928	1.4995	1.5280	1.5220	1.6123	-----	1.49	3.64	0.999	1.00	5.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.1020	2.2244	2.2254	2.1624	2.1361	2.1996	2.1794	2.3214	-----	2.19	4.90	0.998	0.999	3.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	1.9417	2.3707	2.0327	2.1059	1.8868	1.9253	1.8311	1.8584	-----	1.99	5.65	0.999	0.999	8.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	3.1573	3.2030	3.1917	3.1699	3.1394	3.1971	3.1503	3.3717	3.3331	3.21	5.73	0.998	0.999	2.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.7886	0.8249	0.8066	0.8186	0.7918	0.7946	0.7880	0.8686	-----	0.810	5.78	0.995	0.998	3.4	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	2.4047	2.4737	2.4294	2.5038	2.4017	2.3437	2.3199	2.5275	2.7885	2.47	5.78	0.997	0.998	5.6	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	2.6587	2.7770	2.6849	2.7013	2.7067	2.7404	2.7390	2.9541	-----	2.75	5.69	0.997	0.999	3.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.1220	3.2221	3.2339	3.1568	3.1560	3.2050	3.1630	3.4248	-----	3.21	5.70	0.997	0.999	2.9	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.2525	2.4006	2.3760	2.3022	2.2234	2.2532	2.2200	2.4110	-----	2.30	5.83	0.997	0.998	3.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	2.4173	2.6611	2.5535	2.4697	2.4152	2.4118	2.3462	2.5558	-----	2.48	5.86	0.997	0.998	4.2	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	2.4266	2.7483	2.6394	2.5716	2.4361	2.4392	2.3824	2.6237	-----	2.53	5.95	0.996	0.998	5.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.4589	1.6055	1.4656	1.4441	1.4692	1.4741	1.4978	1.5972	-----	1.50	6.01	0.997	0.999	4.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.3683	1.4530	1.4235	1.3520	1.4203	1.3923	1.4297	1.5208	-----	1.42	6.13	0.997	0.999	3.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.8123	0.6174	0.7710	0.7524	0.8531	0.8663	0.8861	0.9174	-----	0.810	6.10	0.998	1.00	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.5556	1.6992	1.6303	1.5690	1.6063	1.5942	1.5951	1.6793	-----	1.62	6.20	0.999	0.999	3.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.1556	1.1274	1.1589	1.1507	1.2123	1.2066	1.2097	1.2827	1.1461	1.18	6.18	0.998	0.999	4.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.7703	1.8898	1.7768	1.7855	1.8273	1.7901	1.8174	1.9397	-----	1.82	6.30	0.997	0.999	3.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5393	0.5212	0.5423	0.5514	0.5671	0.5659	0.5852	0.6256	-----	0.562	6.39	0.997	1.00	5.7	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	0.9816	0.9708	0.9965	0.9750	1.0170	1.0092	1.0192	1.0694	0.9801	1.00	6.30	0.999	1.00	3.1	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	1.2463	1.1940	1.2603	1.2407	1.2993	1.3010	1.3132	1.4046	0.9947	1.25	6.30	0.998	0.999	9.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1562	0.1878	0.1679	0.1574	0.1604	0.1614	0.1596	0.1664	-----	0.165	6.43	0.999	1.00	6.2		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3609	0.3991	0.3691	0.3649	0.3620	0.3733	0.3641	0.3831	-----	0.372	6.44	0.999	0.999	3.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6735	0.6682	0.6824	0.6813	0.6930	0.7089	0.7067	0.7358	-----	0.694	6.63	0.999	1.00	3.2	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1772	0.1954	0.1655	0.1743	0.1846	0.1898	0.1885	0.1948	-----	0.184	6.68	0.999	1.00	5.8	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.2547	0.2377	0.2517	0.2528	0.2629	0.2702	0.2683	0.2767	0.1983	0.253	6.70	0.999	1.00	9.3	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	0.2021	-----	0.0930	0.1333	0.2378	0.2584	0.2728	0.2829	-----	0.212	6.76	0.997	1.00	35		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.4174	0.4318	0.4099	0.4080	0.4210	0.4310	0.4316	0.4554	-----	0.426	6.77	0.998	1.00	3.6	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.2688	0.2402	0.2725	0.2661	0.2725	0.2849	0.2811	0.2986	0.2232	0.268	6.86	0.998	0.999	8.6	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	0.2898	0.3050	0.2935	0.3000	0.2997	0.3045	0.2992	0.3214	-----	0.302	6.93	0.998	0.999	3.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	1.0394	1.1093	1.0870	1.0518	1.0519	1.0645	1.0477	1.1119	1.1918	1.08	6.99	0.999	0.999	4.5	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	0.3861	0.3716	0.4077	0.3885	0.3808	0.3894	0.3752	0.3873	0.3541	0.382	7.02	1.00	1.00	3.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1641	0.1586	0.1693	0.1677	0.1630	0.1691	0.1687	0.1800	-----	0.168	7.07	0.997	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	0.1115	0.0725	0.1046	0.1123	0.1067	0.1083	0.1099	0.1192	-----	0.106	7.37	0.996	0.999	13	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	0.2754	0.2509	0.2564	0.2682	0.2849	0.2955	0.2957	0.3163	-----	0.280	7.37	0.997	0.999	7.9	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.6594	0.6272	0.6729	0.6644	0.6900	0.7004	0.6970	0.7380	-----	0.681	7.52	0.998	0.999	4.9	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6319	0.6387	0.6206	0.6283	0.6443	0.7016	0.6956	0.6878	-----	0.656	7.60	0.999	0.999	5.1	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	0.6421	0.6329	0.6429	0.6412	0.6656	0.6815	0.6759	0.7178	-----	0.663	7.52	0.998	0.999	4.3		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.7897	0.7851	0.7958	0.7951	0.8097	0.8181	0.8103	0.8568	-----	0.808	7.90	0.998	0.999	2.8	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	0.5228	0.5524	0.5404	0.5373	0.5497	0.5667	0.5439	0.5637	-----	0.547	7.65	0.999	0.999	2.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Avg Rsd: 6.394

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note:

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.

3092819 0079

Form 6
Initial Calibration

Method: EPA 8270E

Instrument: GCMS_9

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	9M124640.D	CAL BNA@50PPM	09/07/23 14:33	2	9M124637.D	CAL BNA@2PPM	09/07/23 13:23
3	9M124636.D	CAL BNA@10PPM	09/07/23 13:00	4	9M124639.D	CAL BNA@20PPM	09/07/23 14:10
5	9M124635.D	CAL BNA@80PPM	09/07/23 12:36	6	9M124634.D	CAL BNA@120PPM	09/07/23 12:13
7	9M124633.D	CAL BNA@160PPM	09/07/23 11:50	8	9M124632.D	CAL BNA@196PPM	09/07/23 11:26
9	9M124638.D	CAL BNA@0.5PPM	09/07/23 13:46				

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	0.2261	0.1754	0.2021	0.2138	0.2550	0.2691	0.2644	0.2886	-----	0.237	7.65	0.996	0.999	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	0.3430	0.2977	0.3303	0.3558	0.3596	0.3874	0.3803	0.3693	-----	0.353	7.74	0.999	0.999	8.2	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	0.3563	0.3401	0.3694	0.3827	0.3668	0.3957	0.3797	0.3460	-----	0.367	7.77	0.993	0.996	5.2	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.2378	1.3108	1.2461	1.3014	1.2961	1.3201	1.2671	1.3224	-----	1.29	7.81	0.999	1.00	2.6		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.1113	1.1502	1.1205	1.1480	1.1449	1.1607	1.1175	1.1669	-----	1.14	7.92	1.00	1.00	1.8	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	0.8751	0.8447	0.9111	0.9096	0.9044	0.9307	0.8781	0.9266	-----	0.898	8.20	0.999	0.999	3.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	0.8751	0.8447	0.9111	0.9096	0.9044	0.9307	0.8781	0.9266	-----	0.898	8.20	0.999	0.999	3.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.7249	0.7345	0.7396	0.7522	0.7551	0.7741	0.7509	0.7727	-----	0.751	7.99	0.999	1.00	2.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.3919	0.3963	0.3957	0.4019	0.4116	0.4118	0.3921	0.4073	-----	0.401	8.00	0.999	0.999	2.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4323	0.4304	0.4333	0.4541	0.4565	0.4570	0.4453	0.4669	-----	0.447	8.19	0.999	0.999	3.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.6159	1.6965	1.6730	1.7123	1.6972	1.7215	1.6745	1.7453	-----	1.69	8.29	0.999	1.00	2.3	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.1966	1.1784	1.2118	1.2224	1.2115	1.2470	1.2043	1.2851	-----	1.22	8.15	0.998	0.999	2.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.2755	0.2555	0.2647	0.2764	0.2894	0.2954	0.2835	0.2962	-----	0.280	8.20	0.999	0.999	5.2	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.1383	1.1122	1.1557	1.1655	1.1807	1.2114	1.1665	1.2156	-----	1.17	8.44	0.999	0.999	3.0	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3050	0.2503	0.3110	0.3104	0.3142	0.3181	0.2998	0.3055	-----	0.302	8.36	0.999	0.999	7.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1211	-----	0.0696	0.0925	0.1434	0.1555	0.1560	0.1579	-----	0.128	8.45	0.999	0.999	27	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.5180	1.6446	1.5761	1.5689	1.5684	1.5902	1.5226	1.6139	1.7841	1.60	8.59	0.999	0.999	5.0	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	0.3469	0.3070	0.3382	0.3544	0.3797	0.3894	0.3798	0.3997	-----	0.362	8.56	0.999	0.999	8.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Avg	0.2059	0.1921	0.2301	0.2199	0.2406	0.2510	0.2482	0.2616	-----	0.231	8.48	0.997	0.999	10	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	0.3036	0.2348	0.3017	0.3105	0.3228	0.3219	0.3143	0.3398	-----	0.306	8.70	0.997	0.998	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.2465	1.2277	1.2412	1.2777	1.3064	1.3371	1.2858	1.3631	-----	1.29	8.92	0.998	0.999	3.7	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.5869	0.5773	0.5954	0.5935	0.6169	0.6414	0.6137	0.6531	-----	0.610	8.90	0.999	0.999	4.4	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.1480	1.2046	1.2176	1.1894	1.2094	1.2419	1.2099	1.2434	-----	1.21	8.79	0.999	1.00	2.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.3327	0.3055	0.3265	0.3361	0.3475	0.3571	0.3401	0.3505	-----	0.337	8.93	0.999	0.999	4.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.3083	0.3027	0.3124	0.3105	0.3300	0.3382	0.3314	0.3432	-----	0.322	9.56	0.999	1.00	4.8	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	0.1019	-----	0.0773	0.0817	0.1164	0.1203	0.1165	0.1268	-----	0.106	8.95	0.997	0.998	18	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6072	0.5903	0.6082	0.6135	0.6397	0.6397	0.6242	0.6574	-----	0.623	9.02	0.999	0.999	3.5	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	0.0930	0.0713	0.0829	0.0871	0.0982	0.0982	0.1001	0.1063	-----	0.0922	9.15	0.998	0.999	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.7595	0.8135	0.8456	0.7922	0.8130	0.7940	0.8479	0.8768	-----	0.818	9.06	0.998	0.999	4.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2026	0.2028	0.2042	0.2002	0.2109	0.2125	0.2077	0.2255	-----	0.208	9.40	0.997	0.998	3.9	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2132	0.2234	0.2170	0.2164	0.2243	0.2240	0.2204	0.2385	-----	0.222	9.46	0.997	0.999	3.5	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.4372	0.4178	0.4139	0.4263	0.4636	0.4610	0.4516	0.4806	-----	0.444	9.73	0.998	0.999	5.4	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Avg	0.1296	-----	0.1072	0.1159	0.1375	0.1445	0.1430	0.1512	-----	0.133	9.66	0.998	1.00	12	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.0319	1.0497	1.0359	1.0256	1.0713	1.0697	1.0444	1.1127	-----	1.06	9.90	0.998	0.999	2.7	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.0626	1.0420	1.0508	1.0529	1.1116	1.1097	1.0877	1.1292	-----	1.08	9.96	0.999	1.00	3.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	0.9882	0.9427	0.9668	0.9695	1.0370	1.0412	1.0131	1.0715	-----	1.00	10.13	0.999	0.999	4.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Avg	1.1857	1.0891	1.1635	1.1403	1.2747	1.2776	1.2520	1.3208	1.0434	1.19	10.51	0.999	0.999	7.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.1502	1.1290	1.1261	1.1244	1.2169	1.2264	1.2101	1.3038	-----	1.19	11.25	0.997	0.999	5.4	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.2350	1.2515	1.2490	1.2357	1.3363	1.2989	1.3009	1.3225	-----	1.28	11.51	1.00	1.00	3.2	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Avg	0.5299	0.2618	0.4409	0.4822	0.5244	0.5219	0.5202	0.4967	-----	0.472	11.40	0.998	1.00	19		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.8027	0.7902	0.8305	0.7953	0.8461	0.8468	0.8400	0.8754	-----	0.828	11.69	0.999	1.00	3.6		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Avg Rsd: 6.394

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note:

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.

3092819 0080

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	9M124640.D	CAL BNA@50PPM	09/07/23 14:33	2	9M124637.D	CAL BNA@2PPM	09/07/23 13:23
3	9M124636.D	CAL BNA@10PPM	09/07/23 13:00	4	9M124639.D	CAL BNA@20PPM	09/07/23 14:10
5	9M124635.D	CAL BNA@80PPM	09/07/23 12:36	6	9M124634.D	CAL BNA@120PPM	09/07/23 12:13
7	9M124633.D	CAL BNA@160PPM	09/07/23 11:50	8	9M124632.D	CAL BNA@196PPM	09/07/23 11:26
9	9M124638.D	CAL BNA@0.5PPM	09/07/23 13:46				

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	0.2410	0.2559	0.2492	0.2467	0.2553	0.2534	0.2593	0.2651	-----	0.253	11.63	0.999	1.00	3.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4124	0.3852	0.4090	0.4103	0.4375	0.4459	0.4507	0.4583	-----	0.426	12.03	0.999	1.00	6.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Avg	0.5141	0.4198	0.4837	0.5037	0.5625	0.5664	0.5722	0.5850	-----	0.526	12.29	0.999	1.00	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Qua	0.3006	0.1721	0.2317	0.2625	0.3387	0.3441	0.3476	0.3680	-----	0.296	12.39	0.998	0.999	23		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Avg	0.3955	0.2485	0.3676	0.3805	0.4199	0.4179	0.4089	0.4025	-----	0.380	12.91	0.999	1.00	15	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.1973	1.1588	1.1608	1.1533	1.2327	1.2342	1.2374	1.2512	-----	1.20	12.93	1.00	1.00	3.4	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.0881	1.1457	1.1485	1.1643	1.1867	1.1653	1.1532	1.1758	-----	1.15	12.98	1.00	1.00	2.6	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	0.7535	0.5347	0.6797	0.7160	0.8128	0.8250	0.8184	0.8326	-----	0.747	12.98	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	Qua	1.2392	0.7155	0.9873	1.1288	1.3241	1.3852	1.4437	1.4551	-----	1.21	13.75	0.999	1.00	21	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.1376	0.7913	1.0724	1.0523	1.2347	1.1714	1.2988	1.3256	-----	1.14	14.18	0.996	0.999	15	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.2306	1.2607	1.1896	1.2681	1.3056	1.2437	1.2711	1.2550	-----	1.25	14.22	1.00	1.00	2.7	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.0649	0.8192	1.0705	1.0403	1.0978	1.1178	1.1379	1.1557	-----	1.06	14.56	0.999	1.00	10	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	1.3176	1.0090	1.1979	1.2254	1.3801	1.3867	1.4098	1.4184	-----	1.29	16.01	1.00	1.00	11	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	1.0594	0.7307	0.9483	0.9707	1.1130	1.1254	1.1341	1.1443	-----	1.03	16.03	1.00	1.00	14	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	1.0016	1.0250	1.0114	1.0118	1.0616	1.0353	1.0439	1.0572	-----	1.03	16.41	1.00	1.00	2.2	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 6.394
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.

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 9M_0907.M
Data File: 9M124640.D Sam Mult : 1 Vial# : 2 Qt On : 09/07/23 14:54
Acq On : 09/ 7/23 14:33 Misc : A,BNA Qt Upd On: 09/06/23 14:19

Data Path : G:\GcMsData\2023\GCMS_9\Data\09-07-23\
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)	3.311	96	31491	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.999	152	53955	40.00	ng	0.00
31) Naphthalene-d8	6.975	136	204186	40.00	ng	0.00
50) Acenaphthene-d10	8.404	164	113643	40.00	ng	0.00
77) Phenanthrene-d10	9.881	188	194190	40.00	ng	0.00
91) Chrysene-d12	12.945	240	189221	40.00	ng	0.00
103) Perylene-d12	14.622	264	178254	40.00	ng	0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.905	112	82744	45.02	ng	0.00
Spiked Amount 100.000			Recovery = 45.02%			
16) Phenol-d5	5.687	99	104659	47.57	ng	0.00
Spiked Amount 100.000			Recovery = 47.57%			
32) Nitrobenzene-d5	6.428	128	19937	23.19	ng	0.00
Spiked Amount 50.000			Recovery = 46.38%			
55) 2-Fluorobiphenyl	7.810	172	87922	21.58	ng	0.00
Spiked Amount 50.000			Recovery = 43.16%			
80) 2,4,6-Tribromophenol	9.151	330	22585	46.55	ng	0.00
Spiked Amount 100.000			Recovery = 46.55%			
94) Terphenyl-d14	11.692	244	94939	25.52	ng	0.00
Spiked Amount 50.000			Recovery = 51.04%			
Target Compounds						Qvalue
8) 1,4-Dioxane	3.346	88	36081	44.0563	ng	94
9) Pyridine	3.693	79	98480	63.8608	ng	66
10) N-Nitrosodimethylamine	3.640	74	57283	46.9496	ng	72
12) Benzaldehyde	5.652	77	76435	46.2819	ng	98
13) Aniline	5.734	93	124286	48.0685	ng	91
14) Pentachloroethane	5.775	117	31045	42.7945	ng	84
15) bis(2-Chloroethyl)ether	5.781	93	94658	48.8331	ng	90
17) Phenol	5.699	94	122897	47.6447	ng	83
18) 2-Chlorophenol	5.828	128	88667	44.1950	ng	82
19) N-Decane	5.863	57	95154	40.4846	ng	77
20) 1,3-Dichlorobenzene	5.952	146	95523	42.9068	ng	97
22) 1,4-Dichlorobenzene	6.010	146	98398	47.9026	ng	98
23) 1,2-Dichlorobenzene	6.134	146	92289	48.0447	ng	99
24) Benzyl alcohol	6.104	108	54788	47.5697	ng	74
25) bis(2-chloroisopropyl)...	6.204	45	104917	40.8161	ng	95
26) 2-Methylphenol	6.181	108	77944	47.8946	ng	97
27) Acetophenone	6.304	105	119396	52.7967	ng	70
28) Hexachloroethane	6.393	117	36378	47.9343	ng	82
29) N-Nitroso-di-n-propyla...	6.304	70	66203	53.3333	ng	93
30) 3&4-Methylphenol	6.299	108	84061	50.5350	ng	97
33) Nitrobenzene	6.440	77	92117	51.5393	ng	82
34) Isophorone	6.628	82	171905	51.6051	ng	88
35) 2-Nitrophenol	6.681	139	45226	49.6224	ng	85
36) 2,4-Dimethylphenol	6.699	107	65023	37.5295	ng	96
37) Benzoic Acid	6.757	105	51584	49.0932	ng	85
38) bis(2-Chloroethoxy)met...	6.775	93	106546	52.6331	ng	98
39) 2,4-Dichlorophenol	6.857	162	68609	46.3938	ng	88
40) 1,2,4-Trichlorobenzene	6.928	180	73983	44.6492	ng	96
41) Naphthalene	6.987	128	265312	45.5598	ng	98
42) 4-Chloroaniline	7.022	127	98554m	51.2597	ng	
43) Hexachlorobutadiene	7.075	225	41892	43.9233	ng	96
44) Caprolactam	7.375	113	28469	54.1312	ng	52
45) 4-Chloro-3-methylphenol	7.375	107	70314	50.1783	ng	96
46) 2-Methylnaphthalene	7.522	142	168307	46.7565	ng	97
47) 1-Methylnaphthalene	7.604	142	161289	47.8448	ng	100
48) Methylnaphthalenes (To...	7.522	142	327797m	94.5958	ng	
49) 1,1'-Biphenyl	7.898	154	201578	45.5308	ng	96
51) 1,2,4,5-Tetrachloroben...	7.651	216	74279	43.1934	ng	99
52) Hexachlorocyclopentadiene	7.646	237	32121	37.2719	ng	96
53) 2,4,6-Trichlorophenol	7.740	196	48725	46.2416	ng	98
54) 2,4,5-Trichlorophenol	7.769	196	50619m	45.2761	ng	
56) 2-Chloronaphthalene	7.922	162	157877	47.1315	ng	91
57) 1,4-Dimethylnaphthalene	8.204	156	124314	44.1780	ng	87
58) Dimethylnaphthalenes (...	8.204	156	124314	44.1780	ng	87
59) Diphenyl Ether	7.987	170	102982	43.6913	ng	76
60) 2-Nitroaniline	7.998	65	55674	52.1761	ng	64
61) Coumarin	8.187	146	61416	47.0527	ng	73
62) Acenaphthylene	8.287	152	229544	46.8754	ng	98
63) Dimethylphthalate	8.145	163	169982	46.7839	ng	99
64) 2,6-Dinitrotoluene	8.198	165	39144	49.4953	ng	80
65) Acenaphthene	8.440	153	161710	46.1085	ng	98

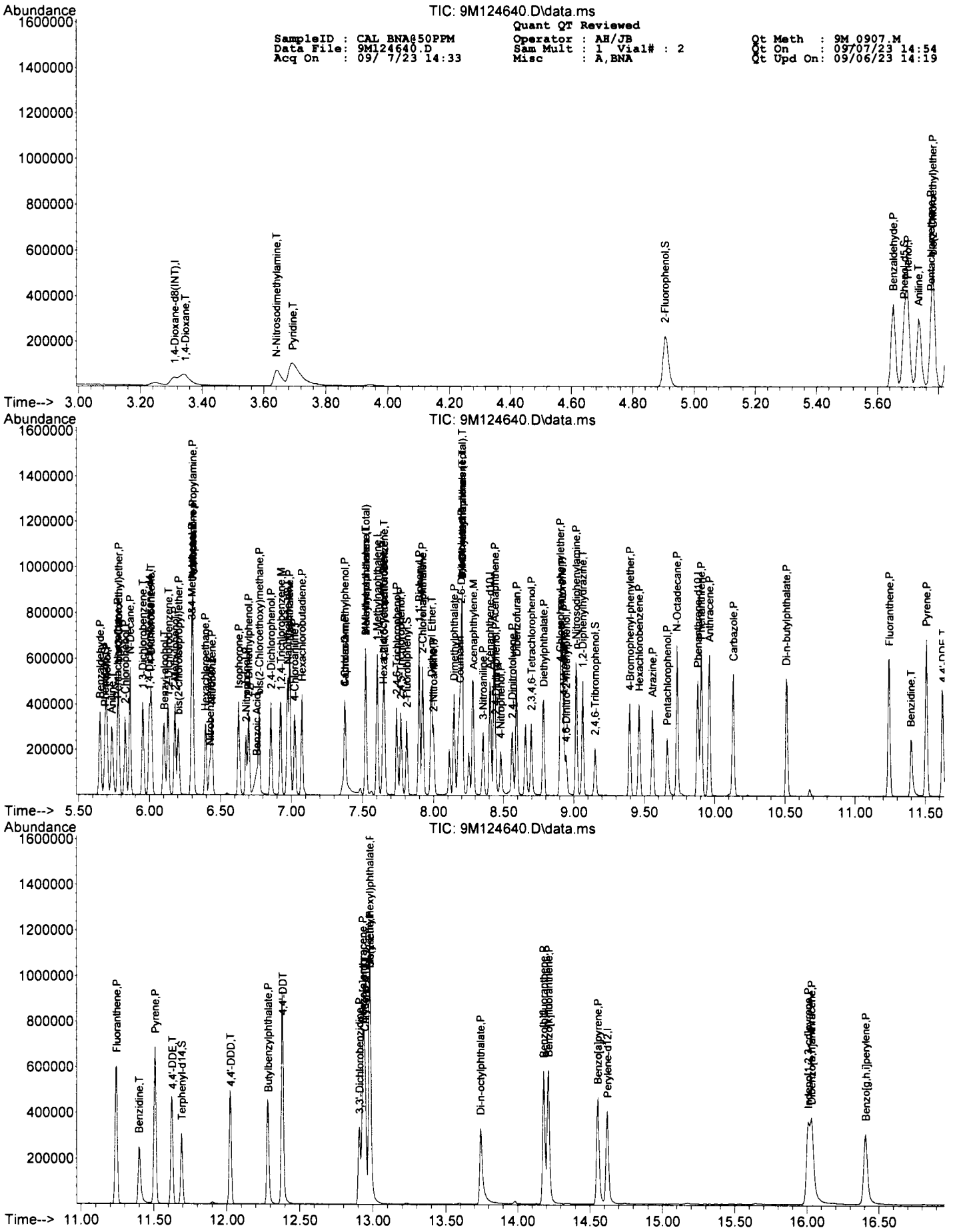
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 9M_0907.M
Data File: 9M124640.D Sam Mult : 1 Vial# : 2 Qt On : 09/07/23 14:54
Acq On : 09/ 7/23 14:33 Misc : A,BNA Qt Upd On: 09/06/23 14:19

Data Path : G:\GcMsData\2023\GCMS_9\Data\09-07-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.357	138	43334	52.1600	ng	81
67)	2,4-Dinitrophenol	8.445	184	17213	55.8069	ng	49
68)	Dibenzofuran	8.593	168	215648	42.8363	ng	83
69)	2,4-Dinitrotoluene	8.563	165	49285	49.2328	ng	66
70)	4-Nitrophenol	8.481	65	29252	47.5558	ng	88
71)	2,3,4,6-Tetrachlorophenol	8.698	232	43140	44.9156	ng	82
72)	Fluorene	8.916	166	177076	45.6250	ng	100
73)	4-Chlorophenyl-phenyle...	8.904	204	83380	44.6767	ng	81
74)	Diethylphthalate	8.787	149	163085	45.4477	ng	96
75)	4-Nitroaniline	8.928	138	47274	50.6974	ng	78
76)	Atrazine	9.557	200	43802	42.5697	ng	96
78)	4,6-Dinitro-2-methylph...	8.945	198	24737	56.0656	ng	62
79)	n-Nitrosodiphenylamine	9.016	169	147407	48.1912	ng	96
81)	1,2-Diphenylhydrazine	9.063	77	184362	53.0670	ng	87
82)	4-Bromophenyl-phenylether	9.398	248	49197	46.8602	ng	81
83)	Hexachlorobenzene	9.463	284	51768	45.2102	ng	66
84)	N-Octadecane	9.734	57	106145	55.8874	ng	74
85)	Pentachlorophenol	9.663	266	31460	48.0690	ng	96
86)	Phenanthrene	9.904	178	250498	48.2230	ng	99
87)	Anthracene	9.963	178	257937	48.5943	ng	99
88)	Carbazole	10.134	167	239894	48.2543	ng	95
89)	Di-n-butylphthalate	10.510	149	287818	47.4901	ng	98
90)	Fluoranthene	11.245	202	279201	47.5833	ng	92
92)	Pyrene	11.510	202	292127	46.1002	ng	91
93)	Benzidine	11.398	184	125351	50.0198	ng	92
95)	4,4'-DDE	11.628	246	57022	43.9913	ng	93
96)	4,4'-DDD	12.028	235	97558	40.0125	ng	96
97)	Butylbenzylphthalate	12.286	149	121618	45.4307	ng	74
98)	4,4'-DDT	12.386	235	71113	38.9415	ng	99
99)	3,3'-Dichlorobenzidine	12.910	252	93568	50.7749	ng	96
100)	Benzo[a]anthracene	12.933	228	283212	46.8064	ng	99
101)	Chrysene	12.980	228	257374	45.8121	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.980	149	178243	47.5652	ng	96
104)	Di-n-octylphthalate	13.745	149	276133	47.0014	ng	100
105)	Benzo[b]fluoranthene	14.180	252	253489	45.3070	ng	96
106)	Benzo[k]fluoranthene	14.216	252	274212m	51.9807	ng	
107)	Benzo[a]pyrene	14.557	252	237280	49.6402	ng	94
108)	Indeno[1,2,3-cd]pyrene	16.010	276	293602	48.2329	ng	81
109)	Dibenzo[a,h]anthracene	16.033	278	236064	49.1121	ng	90
110)	Benzo[g,h,i]perylene	16.410	276	223189	44.5320	ng	77

(#) = qualifier out of range (m) = manual integration (+) = signals summed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Quant QT Reviewed
SampleID : CAL BNA@50PPM
Data File: 9M124640.D
Acq On : 09/ 7/23 14:33
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 9M_0907.M
Qt On : 09/07/23 14:54
Qt Upd On: 09/06/23 14:19
Abundance
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@2PPM Operator : AH/JB Qt Meth : 9M_0907.M
Data File: 9M124637.D Sam Mult : 1 Vial# : 8 Qt On : 09/07/23 13:43
Acq On : 09/ 7/23 13:23 Misc : A,BNA Qt Upd On: 09/06/23 14:19

Data Path : G:\GcMsData\2023\GCMS_9\Data\09-07-23\
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)	3.310	96	35541	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.998	152	62546	40.00	ng	0.00
31) Naphthalene-d8	6.975	136	239827	40.00	ng	0.00
50) Acenaphthene-d10	8.410	164	131643	40.00	ng	0.00
77) Phenanthrene-d10	9.880	188	224242	40.00	ng	0.00
91) Chrysene-d12	12.945	240	211373	40.00	ng	0.00
103) Perylene-d12	14.610	264	204004	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.904	112	3953m	1.91	ng	0.00
Spiked Amount 100.000			Recovery = 1.91%			
16) Phenol-d5	5.687	99	4935	1.99	ng	0.00
Spiked Amount 100.000			Recovery = 1.99%			
32) Nitrobenzene-d5	6.428	128	1126	1.12	ng	0.00
Spiked Amount 50.000			Recovery = 2.24%			
55) 2-Fluorobiphenyl	7.816	172	4314	0.91	ng	0.00
Spiked Amount 50.000			Recovery = 1.82%			
80) 2,4,6-Tribromophenol	9.157	330	800	1.43	ng	0.00
Spiked Amount 100.000			Recovery = 1.43%			
94) Terphenyl-d14	11.692	244	4176	1.00	ng	0.00
Spiked Amount 50.000			Recovery = 2.00%			
Target Compounds						Qvalue
8) 1,4-Dioxane	3.346	88	1625m	1.7581	ng	
9) Pyridine	3.710	79	4330	2.4879	ng	53
10) N-Nitrosodimethylamine	3.657	74	2357	1.7117	ng	94
12) Benzaldehyde	5.651	77	4213	2.2603	ng	96
13) Aniline	5.734	93	5692	1.9506	ng	93
14) Pentachloroethane	5.775	117	1466	1.7906	ng	87
15) bis(2-Chloroethyl)ether	5.781	93	4396	2.0094	ng	90
17) Phenol	5.698	94	5726	1.9669	ng	84
18) 2-Chlorophenol	5.828	128	4266	1.8840	ng	77
19) N-Decane	5.863	57	4729	1.7827	ng	71
20) 1,3-Dichlorobenzene	5.951	146	4884	1.9438	ng	98
22) 1,4-Dichlorobenzene	6.010	146	5021	2.1086	ng	98
23) 1,2-Dichlorobenzene	6.128	146	4544	2.0406	ng	99
24) Benzyl alcohol	6.110	108	1931	1.4463	ng	75
25) bis(2-chloroisopropyl)...	6.204	45	5314	1.7834	ng	85
26) 2-Methylphenol	6.181	108	3526	1.8690	ng	96
27) Acetophenone	6.310	105	5910	2.2544	ng	59
28) Hexachloroethane	6.392	117	1630	1.8528	ng	91
29) N-Nitroso-di-n-propyla...	6.310	70	3036	2.1099	ng	97
30) 3&4-Methylphenol	6.298	108	3734	1.9364	ng	100
33) Nitrobenzene	6.439	77	4786	2.2798	ng	77
34) Isophorone	6.645	82	8013	2.0480	ng	95
35) 2-Nitrophenol	6.681	139	2344	2.1897	ng	89
36) 2,4-Dimethylphenol	6.704	107	2851	1.4010	ng	84
37) Benzoic Acid	0.000		0	N.D.		
38) bis(2-Chloroethoxy)met...	6.781	93	5179	2.1782	ng	94
39) 2,4-Dichlorophenol	6.863	162	2881	1.6586	ng	82
40) 1,2,4-Trichlorobenzene	6.928	180	3658	1.8795	ng	96
41) Naphthalene	6.992	128	13303	1.9449	ng	96
42) 4-Chloroaniline	7.034	127	4456	1.9732	ng	90
43) Hexachlorobutadiene	7.081	225	1902	1.6979	ng	95
44) Caprolactam	7.475	113	870	1.4084	ng	60
45) 4-Chloro-3-methylphenol	7.386	107	3009	1.8282	ng	98
46) 2-Methylnaphthalene	7.528	142	7521	1.7789	ng	88
47) 1-Methylnaphthalene	7.610	142	7659	1.9343	ng	94
48) Methylnaphthalenes (To...	7.528	142	15180m	3.7296	ng	
49) 1,1'-Biphenyl	7.904	154	9415	1.8106	ng	96
51) 1,2,4,5-Tetrachloroben...	7.657	216	3636	1.8252	ng	88
52) Hexachlorocyclopentadiene	7.645	237	1155	1.1570	ng	96
53) 2,4,6-Trichlorophenol	7.745	196	1960	1.6058	ng	89
54) 2,4,5-Trichlorophenol	7.775	196	2239	1.7288	ng	99
56) 2-Chloronaphthalene	7.928	162	7571	1.9511	ng	93
57) 1,4-Dimethylnaphthalene	8.210	156	5560	1.7057	ng	91
58) Dimethylnaphthalenes (...	8.210	156	5560	1.7057	ng	91
59) Diphenyl Ether	7.992	170	4835	1.7708	ng	74
60) 2-Nitroaniline	8.004	65	2609	2.1108	ng	86
61) Coumarin	8.198	146	2833	1.8737	ng	71
62) Acenaphthylene	8.286	152	11167	1.9686	ng	97
63) Dimethylphthalate	8.157	163	7757	1.8430	ng	96
64) 2,6-Dinitrotoluene	8.204	165	1682	1.8360	ng	75
65) Acenaphthene	8.439	153	7321	1.8020	ng	93

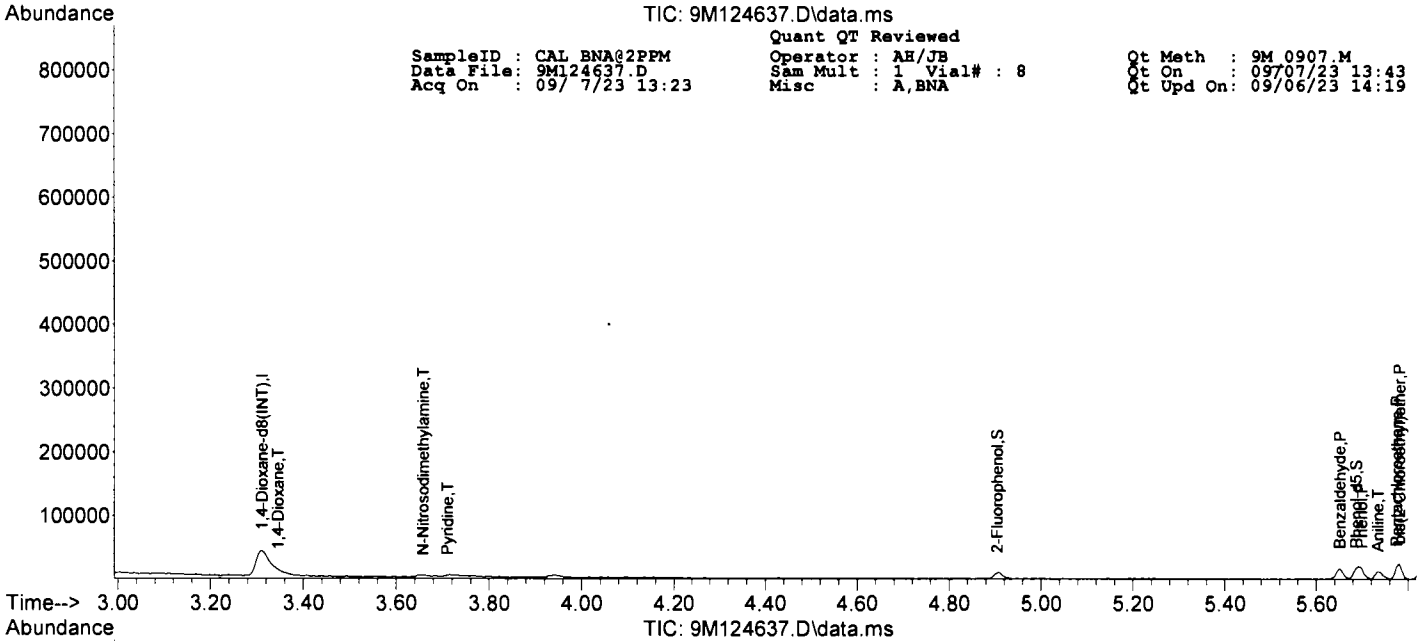
Quantitation Report (QT Reviewed)

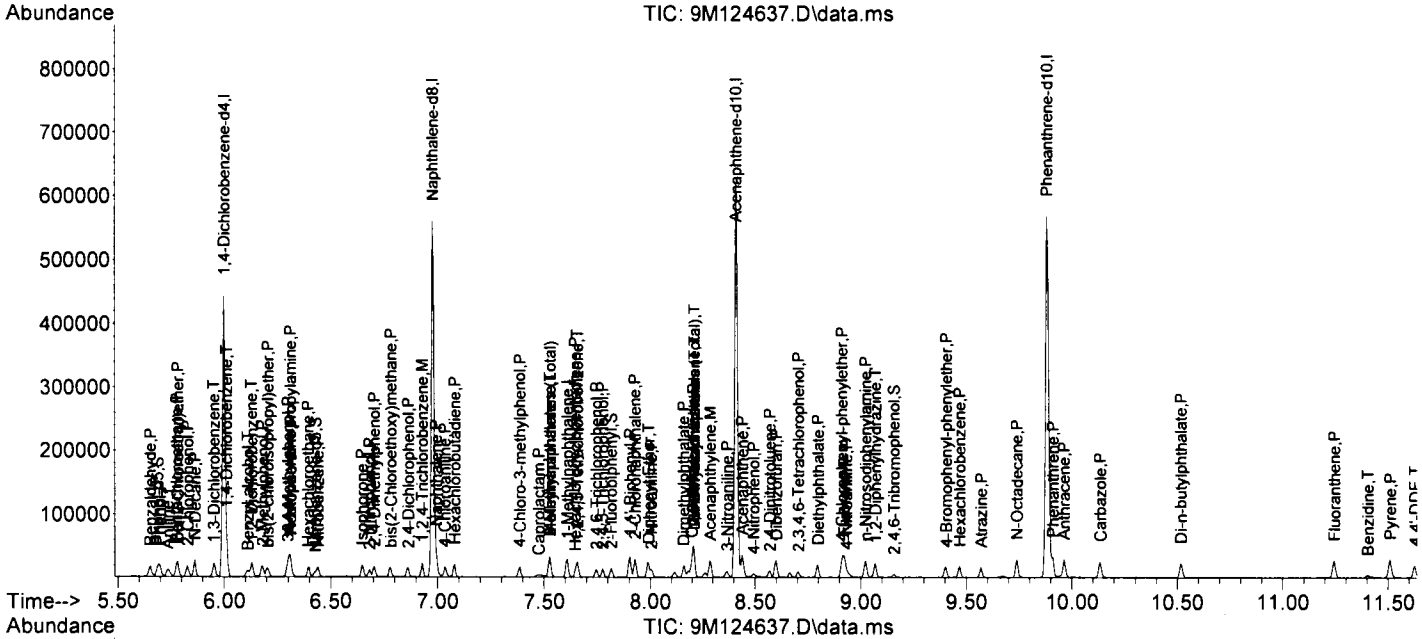
SampleID : CAL BNA@2PPM Operator : AH/JB Qt Meth : 9M_0907.M
Data File: 9M124637.D Sam Mult : 1 Vial# : 8 Qt On : 09/07/23 13:43
Acq On : 09/ 7/23 13:23 Misc : A,BNA Qt Upd On: 09/06/23 14:19

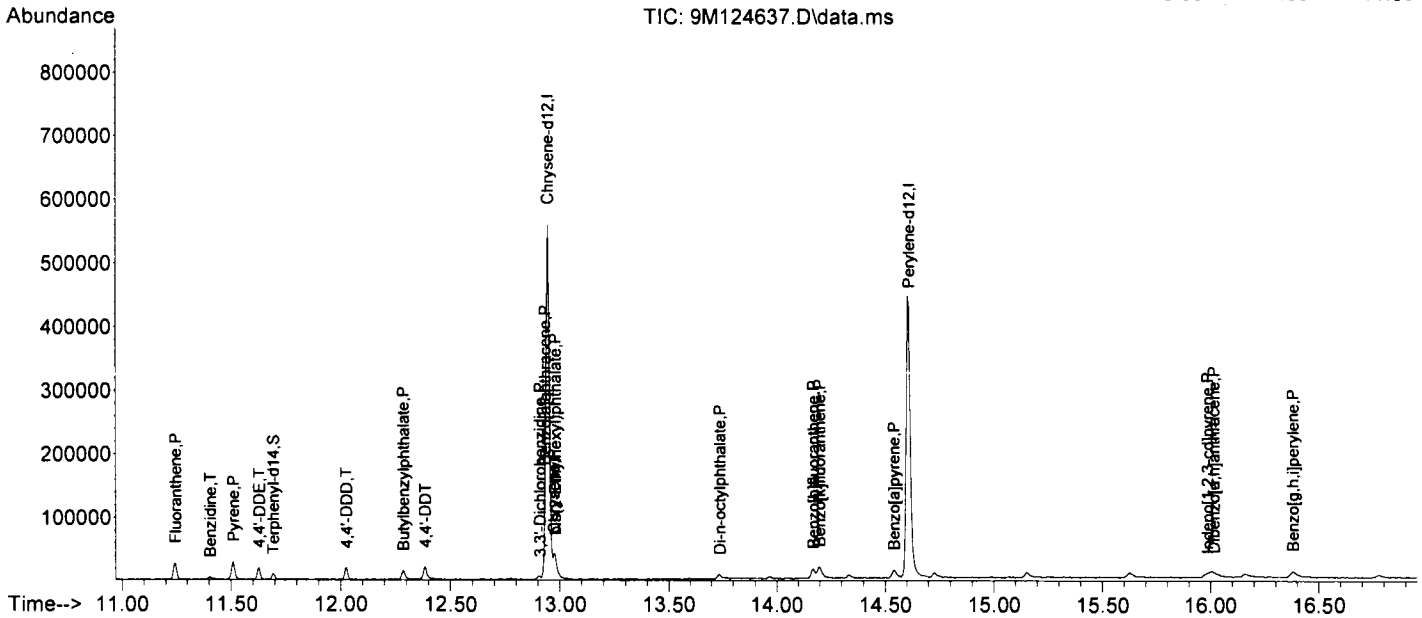
Data Path : G:\GcMsData\2023\GCMS_9\Data\09-07-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.369	138	1648	1.7124	ng	81
67)	2,4-Dinitrophenol	0.000		0	N.D.		
68)	Dibenzofuran	8.598	168	10825	1.8563	ng	84
69)	2,4-Dinitrotoluene	8.569	165	2021	1.7428	ng	61
70)	4-Nitrophenol	8.492	65	1265	1.7753	ng	89
71)	2,3,4,6-Tetrachlorophenol	8.704	232	1546	1.3895	ng	84
72)	Fluorene	8.922	166	8081	1.7974	ng	97
73)	4-Chlorophenyl-phenyle...	8.910	204	3800	1.7577	ng	87
74)	Diethylphthalate	8.798	149	7929	1.9075	ng	94
75)	4-Nitroaniline	8.933	138	2011	1.8617	ng	91
76)	Atrazine	9.569	200	1993	1.6721	ng	95
78)	4,6-Dinitro-2-methylph...	0.000		0	N.D.		
79)	n-Nitrosodiphenylamine	9.022	169	6619	1.8739	ng	92
81)	1,2-Diphenylhydrazine	9.069	77	9122	2.2738	ng	84
82)	4-Bromophenyl-phenylether	9.404	248	2274	1.8757	ng	82
83)	Hexachlorobenzene	9.469	284	2505	1.8945	ng	60
84)	N-Octadecane	9.739	57	4685	2.1362	ng	68
85)	Pentachlorophenol	0.000		0	N.D. d		
86)	Phenanthrene	9.910	178	11770	1.9622	ng	98
87)	Anthracene	9.963	178	11684	1.9062	ng	99
88)	Carbazole	10.133	167	10570	1.8412	ng	94
89)	Di-n-butylphthalate	10.516	149	12212	1.7449	ng	97
90)	Fluoranthene	11.245	202	12659	1.8683	ng	91
92)	Pyrene	11.510	202	13227	1.8686	ng	87
93)	Benzidine	11.404	184	2767	0.9854	ng	92
95)	4,4'-DDE	11.627	246	2705	1.8681	ng	91
96)	4,4'-DDD	12.027	235	4072	1.4951	ng	96
97)	Butylbenzylphthalate	12.286	149	4437	1.4838	ng	82
98)	4,4'-DDT	12.386	235	1819	0.8917	ng	98
99)	3,3'-Dichlorobenzidine	12.910	252	2627	1.2761	ng	89
100)	Benzo[a]anthracene	12.933	228	12247	1.8119	ng	97
101)	Chrysene	12.974	228	12109	1.9295	ng	96
102)	bis(2-Ethylhexyl)phtha...	12.980	149	5652	1.3502	ng	93
104)	Di-n-octylphthalate	13.739	149	7299	1.0856	ng	97
105)	Benzo[b]fluoranthene	14.168	252	8072m	1.2606	ng	
106)	Benzo[k]fluoranthene	14.198	252	12860m	2.1301	ng	
107)	Benzo[a]pyrene	14.539	252	8356	1.5275	ng	99
108)	Indeno[1,2,3-cd]pyrene	15.986	276	10292	1.4774	ng	88
109)	Dibenzo[a,h]anthracene	16.015	278	7454	1.3550	ng	86
110)	Benzo[g,h,i]perylene	16.380	276	10456	1.8229	ng	68

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


Abundance
TIC: 9M124637.D\data.ms
Quant QT Reviewed
SampleID : CAL_BNA@2PPM
Data File: 9M124637.D
Acq On : 09/ 7/23 13:23
Operator : AH/JB
Sam Mult : 1 Vial# : 8
Misc : A,BNA
Qt Meth : 9M_0907.M
Qt On : 09707/23 13:43
Qt Upd On: 09/06/23 14:19
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Aniline,T
Time-->


Abundance
TIC: 9M124637.D\data.ms
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
4-Chloro-3-methylphenol,P
Hexachlorobutadiene,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
N-Octadecane,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 9M124637.D\data.ms
Chrysene-d12,I
Perylene-d12,I
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@10PPM Operator : AH/JB Qt Meth : 9M_0907.M
Data File: 9M124636.D Sam Mult : 1 Vial# : 7 Qt On : 09/07/23 13:27
Acq On : 09/ 7/23 13:00 Misc : A,BNA Qt Upd On: 09/06/23 14:19

Data Path : G:\GcMsData\2023\GCMS_9\Data\09-07-23\
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)	3.316	96	33216	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.998	152	58109	40.00	ng	0.00
31) Naphthalene-d8	6.975	136	222122	40.00	ng	0.00
50) Acenaphthene-d10	8.404	164	121650	40.00	ng	0.00
77) Phenanthrene-d10	9.880	188	209955	40.00	ng	0.00
91) Chrysene-d12	12.945	240	196939	40.00	ng	0.00
103) Perylene-d12	14.610	264	188003	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.904	112	18480	9.53	ng	0.00
Spiked Amount 100.000			Recovery = 9.53%			
16) Phenol-d5	5.687	99	22296	9.61	ng	0.00
Spiked Amount 100.000			Recovery = 9.61%			
32) Nitrobenzene-d5	6.422	128	4663	4.99	ng	0.00
Spiked Amount 50.000			Recovery = 9.98%			
55) 2-Fluorobiphenyl	7.810	172	18949	4.35	ng	0.00
Spiked Amount 50.000			Recovery = 8.70%			
80) 2,4,6-Tribromophenol	9.151	330	4354	8.30	ng	0.00
Spiked Amount 100.000			Recovery = 8.30%			
94) Terphenyl-d14	11.692	244	20447	5.28	ng	0.00
Spiked Amount 50.000			Recovery = 10.56%			
Target Compounds						Qvalue
8) 1,4-Dioxane	3.340	88	8517	9.8595	ng	95
9) Pyridine	3.704	79	21322	13.1085	ng	72
10) N-Nitrosodimethylamine	3.646	74	12355	9.6004	ng	66
12) Benzaldehyde	5.651	77	16880	9.6902	ng	98
13) Aniline	5.734	93	26504	9.7183	ng	93
14) Pentachloroethane	5.775	117	6698	8.7535	ng	84
15) bis(2-Chloroethyl)ether	5.781	93	20174	9.8671	ng	90
17) Phenol	5.698	94	26855	9.8705	ng	83
18) 2-Chlorophenol	5.828	128	19731	9.3239	ng	80
19) N-Decane	5.863	57	21205	8.5534	ng	78
20) 1,3-Dichlorobenzene	5.951	146	21918	9.3338	ng	97
22) 1,4-Dichlorobenzene	6.010	146	21292	9.6245	ng	96
23) 1,2-Dichlorobenzene	6.128	146	20680	9.9962	ng	96
24) Benzyl alcohol	6.104	108	11201	9.0301	ng	71
25) bis(2-chloroisopropyl)...	6.204	45	23685	8.5555	ng	93
26) 2-Methylphenol	6.181	108	16836	9.6058	ng	95
27) Acetophenone	6.304	105	25813	10.5985	ng	70
28) Hexachloroethane	6.392	117	7879	9.6398	ng	86
29) N-Nitroso-di-n-propyla...	6.304	70	14477	10.8290	ng	92
30) 3&4-Methylphenol	6.298	108	18310	10.2205	ng	95
33) Nitrobenzene	6.439	77	20497	10.5420	ng	82
34) Isophorone	6.634	82	37899	10.4584	ng	87
35) 2-Nitrophenol	6.681	139	9195	9.2742	ng	87
36) 2,4-Dimethylphenol	6.698	107	13980	7.4173	ng	95
37) Benzoic Acid	6.734	105	5169	4.9872	ng	84
38) bis(2-Chloroethoxy)met...	6.775	93	22762	10.3363	ng	97
39) 2,4-Dichlorophenol	6.857	162	15134	9.4073	ng	88
40) 1,2,4-Trichlorobenzene	6.928	180	16301	9.0434	ng	97
41) Naphthalene	6.986	128	60363	9.5286	ng	96
42) 4-Chloroaniline	7.028	127	22642m	10.8256	ng	
43) Hexachlorobutadiene	7.075	225	9405	9.0648	ng	95
44) Caprolactam	7.416	113	5812	10.1586	ng	69
45) 4-Chloro-3-methylphenol	7.381	107	14240	9.3415	ng	93
46) 2-Methylnaphthalene	7.522	142	37371	9.5435	ng	95
47) 1-Methylnaphthalene	7.604	142	34464	9.3979	ng	99
48) Methylnaphthalenes (To...	7.522	142	71405m	18.9422	ng	
49) 1,1'-Biphenyl	7.898	154	44193	9.1759	ng	94
51) 1,2,4,5-Tetrachloroben...	7.651	216	16437	8.9290	ng	96
52) Hexachlorocyclopentadiene	7.645	237	6147	6.6633	ng	97
53) 2,4,6-Trichlorophenol	7.739	196	10047	8.9073	ng	99
54) 2,4,5-Trichlorophenol	7.769	196	11235m	9.3877	ng	
56) 2-Chloronaphthalene	7.922	162	34079	9.5041	ng	92
57) 1,4-Dimethylnaphthalene	8.204	156	27711	9.1996	ng	89
58) Dimethylnaphthalenes (...	8.204	156	27711	9.1996	ng	89
59) Diphenyl Ether	7.986	170	22495	8.9156	ng	77
60) 2-Nitroaniline	7.998	65	12036	10.5374	ng	54
61) Coumarin	8.186	146	13179	9.4323	ng	66
62) Acenaphthylene	8.281	152	50882	9.7068	ng	97
63) Dimethylphthalate	8.145	163	36856	9.4762	ng	98
64) 2,6-Dinitrotoluene	8.198	165	8052	9.5111	ng	85
65) Acenaphthene	8.433	153	35149	9.3624	ng	94

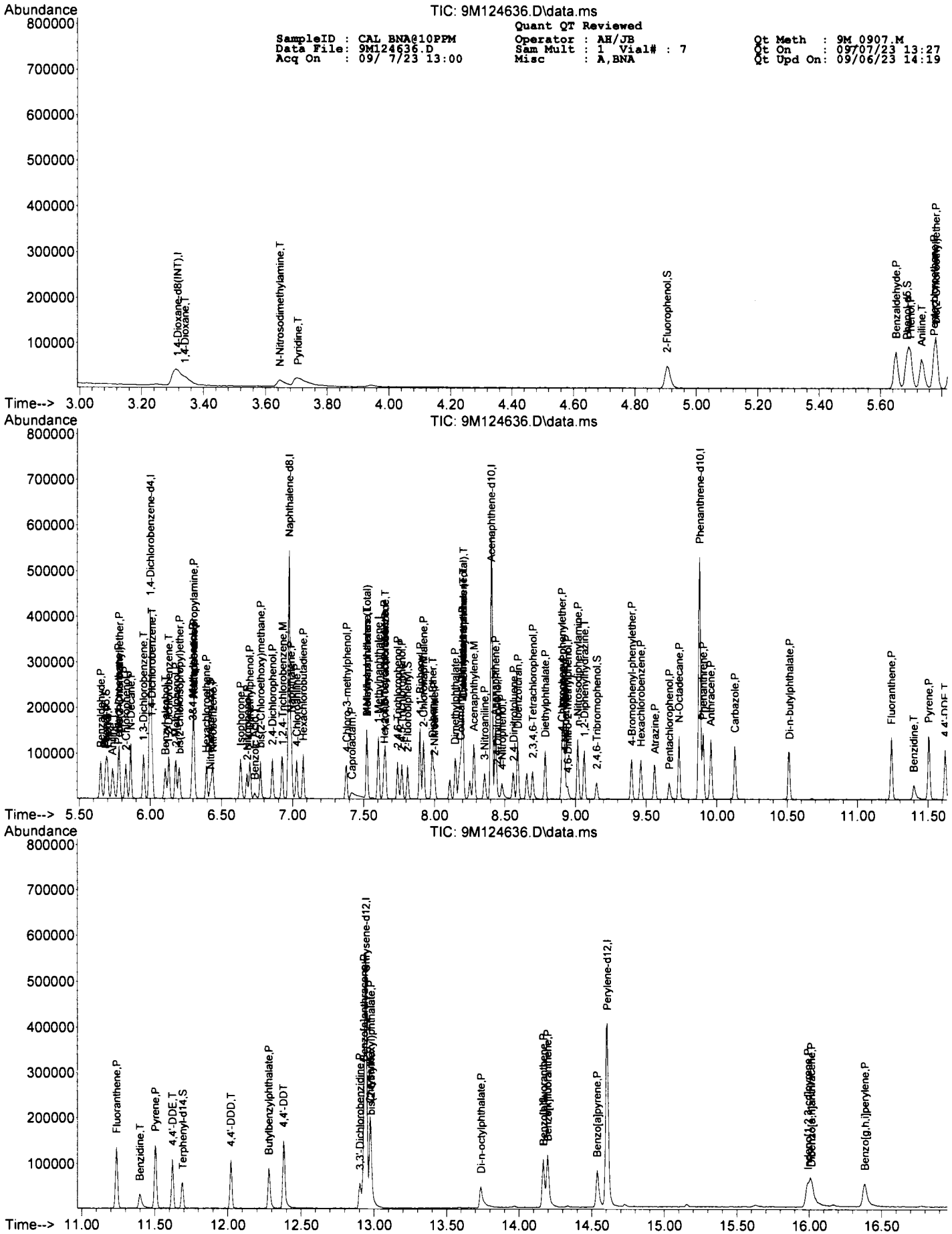
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@10PPM Operator : AH/JB Qt Meth : 9M_0907.M
Data File: 9M124636.D Sam Mult : 1 Vial# : 7 Qt On : 09/07/23 13:27
Acq On : 09/ 7/23 13:00 Misc : A,BNA Qt Upd On: 09/06/23 14:19

Data Path : G:\GcMsData\2023\GCMS_9\Data\09-07-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.357	138	9461	10.6384	ng	78
67)	2,4-Dinitrophenol	8.445	184	2117	7.5555	ng	50
68)	Dibenzofuran	8.592	168	47933	8.8947	ng	82
69)	2,4-Dinitrotoluene	8.563	165	10287	9.5997	ng	61
70)	4-Nitrophenol	8.480	65	6998	10.6280	ng	93
71)	2,3,4,6-Tetrachlorophenol	8.698	232	9176	8.9249	ng	81
72)	Fluorene	8.916	166	37749	9.0861	ng	97
73)	4-Chlorophenyl-phenyle...	8.904	204	18109	9.0645	ng	82
74)	Diethylphthalate	8.786	149	37032	9.6406	ng	97
75)	4-Nitroaniline	8.928	138	9931	9.9492	ng	77
76)	Atrazine	9.563	200	9502	8.6268	ng	92
78)	4,6-Dinitro-2-methylph...	8.945	198	4058	9.3054	ng	60
79)	n-Nitrosodiphenylamine	9.016	169	31925	9.6534	ng	99
81)	1,2-Diphenylhydrazine	9.063	77	44387	11.8171	ng	85
82)	4-Bromophenyl-phenylether	9.398	248	10721	9.4450	ng	81
83)	Hexachlorobenzene	9.463	284	11394	9.2035	ng	66
84)	N-Octadecane	9.733	57	21728	10.5812	ng	72
85)	Pentachlorophenol	9.663	266	5628	7.9536	ng	94
86)	Phenanthrene	9.904	178	54376	9.6818	ng	99
87)	Anthracene	9.957	178	55159	9.6114	ng	99
88)	Carbazole	10.127	167	50747	9.4412	ng	96
89)	Di-n-butylphthalate	10.516	149	61074	9.3206	ng	97
90)	Fluoranthene	11.239	202	59111	9.3177	ng	96
92)	Pyrene	11.504	202	61495	9.3241	ng	95
93)	Benzidine	11.398	184	21712	8.3028	ng	90
95)	4,4'-DDE	11.621	246	12271	9.0958	ng	94
96)	4,4'-DDD	12.021	235	20139	7.9361	ng	97
97)	Butylbenzylphthalate	12.280	149	23817	8.5482	ng	78
98)	4,4'-DDT	12.380	235	11412	6.0043	ng	98
99)	3,3'-Dichlorobenzidine	12.904	252	18100	9.4371	ng	93
100)	Benzo[a]anthracene	12.933	228	57155	9.0758	ng	100
101)	Chrysene	12.974	228	56546	9.6706	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.980	149	33468	8.5811	ng	97
104)	Di-n-octylphthalate	13.739	149	46406	7.4893	ng	98
105)	Benzo[b]fluoranthene	14.168	252	50408	8.5424	ng	95
106)	Benzo[k]fluoranthene	14.198	252	55916m	10.0500	ng	
107)	Benzo[a]pyrene	14.539	252	50317	9.9807	ng	92
108)	Indeno[1,2,3-cd]pyrene	15.992	276	56304	8.7700	ng	84
109)	Dibenzo[a,h]anthracene	16.015	278	44572	8.7922	ng	86
110)	Benzo[g,h,i]perylene	16.386	276	47537	8.9930	ng	71

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


TIC: 9M124636.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@10PPM
Data File: 9M124636.D
Acq On : 09/ 7/23 13:00
Operator : AH/JB
Sam Mult : 1 Vial# : 7
Misc : A,BNA
Qt Meth : 9M_0907.M
Qt On : 09/07/23 13:27
Qt Upd On: 09/06/23 14:19
Abundance
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@20PPM Operator : AH/JB Qt Meth : 9M_0907.M
Data File: 9M124639.D Sam Mult : 1 Vial# : 10 Qt On : 09/07/23 14:49
Acq On : 09/ 7/23 14:10 Misc : A,BNA Qt Upd On: 09/06/23 14:19

Data Path : G:\GcMsData\2023\GCMS_9\Data\09-07-23\
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)	3.311	96	31101	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.999	152	55384	40.00	ng	0.00
31) Naphthalene-d8	6.975	136	209572	40.00	ng	0.00
50) Acenaphthene-d10	8.410	164	113840	40.00	ng	0.00
77) Phenanthrene-d10	9.881	188	198973	40.00	ng	0.00
91) Chrysene-d12	12.945	240	188268	40.00	ng	0.00
103) Perylene-d12	14.610	264	179643	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.905	112	33627	18.53	ng	0.00
Spiked Amount 100.000			Recovery = 18.53%			
16) Phenol-d5	5.687	99	42008	19.33	ng	0.00
Spiked Amount 100.000			Recovery = 19.33%			
32) Nitrobenzene-d5	6.422	128	8250	9.35	ng	0.00
Spiked Amount 50.000			Recovery = 18.70%			
55) 2-Fluorobiphenyl	7.816	172	37039	9.08	ng	0.00
Spiked Amount 50.000			Recovery = 18.16%			
80) 2,4,6-Tribromophenol	9.157	330	8666	17.43	ng	0.00
Spiked Amount 100.000			Recovery = 17.43%			
94) Terphenyl-d14	11.692	244	37433	10.11	ng	0.00
Spiked Amount 50.000			Recovery = 20.22%			
Target Compounds						Qvalue
8) 1,4-Dioxane	3.346	88	15270	18.8791	ng	96
9) Pyridine	3.693	79	39516	25.9461	ng	64
10) N-Nitrosodimethylamine	3.646	74	23215	19.2658	ng	65
12) Benzaldehyde	5.652	77	32748	20.0778	ng	96
13) Aniline	5.734	93	49295	19.3043	ng	93
14) Pentachloroethane	5.775	117	12730	17.7679	ng	85
15) bis(2-Chloroethyl)ether	5.781	93	38936	20.3386	ng	89
17) Phenol	5.699	94	49091	19.2702	ng	82
18) 2-Chlorophenol	5.828	128	35801	18.0684	ng	82
19) N-Decane	5.863	57	38405	16.5449	ng	77
20) 1,3-Dichlorobenzene	5.952	146	39991	18.1883	ng	98
22) 1,4-Dichlorobenzene	6.010	146	39992	18.9668	ng	99
23) 1,2-Dichlorobenzene	6.128	146	37440	18.9880	ng	100
24) Benzyl alcohol	6.104	108	20838	17.6258	ng	73
25) bis(2-chloroisopropyl)...	6.204	45	43451	16.4677	ng	91
26) 2-Methylphenol	6.181	108	31866	19.0756	ng	97
27) Acetophenone	6.304	105	49444	21.2999	ng	67
28) Hexachloroethane	6.393	117	15271	19.6030	ng	79
29) N-Nitroso-di-n-propyla...	6.304	70	27002	21.1916	ng	91
30) 3&4-Methylphenol	6.299	108	34358	20.1221	ng	99
33) Nitrobenzene	6.440	77	38241	20.8459	ng	82
34) Isophorone	6.634	82	71392	20.8808	ng	87
35) 2-Nitrophenol	6.681	139	18273	19.5340	ng	89
36) 2,4-Dimethylphenol	6.704	107	26499	14.9014	ng	95
37) Benzoic Acid	6.740	105	13976	13.9979	ng	91
38) bis(2-Chloroethoxy)met...	6.775	93	42759	20.5799	ng	97
39) 2,4-Dichlorophenol	6.857	162	27886	18.3720	ng	91
40) 1,2,4-Trichlorobenzene	6.928	180	31439	18.4860	ng	98
41) Naphthalene	6.993	128	110219	18.4406	ng	99
42) 4-Chloroaniline	7.028	127	40710m	20.6298	ng	
43) Hexachlorobutadiene	7.081	225	17581	17.9598	ng	95
44) Caprolactam	7.404	113	11769	21.8026	ng	72
45) 4-Chloro-3-methylphenol	7.381	107	28105	19.5412	ng	97
46) 2-Methylnaphthalene	7.528	142	69629	18.8461	ng	97
47) 1-Methylnaphthalene	7.604	142	65838	19.0283	ng	98
48) Methylnaphthalenes (To...	7.528	142	134396m	37.7873	ng	
49) 1,1'-Biphenyl	7.904	154	83316	18.3351	ng	94
51) 1,2,4,5-Tetrachloroben...	7.657	216	30583	17.7533	ng	98
52) Hexachlorocyclopentadiene	7.646	237	12174	14.1018	ng	99
53) 2,4,6-Trichlorophenol	7.745	196	20254	19.1884	ng	95
54) 2,4,5-Trichlorophenol	7.775	196	21784m	19.4509	ng	
56) 2-Chloronaphthalene	7.928	162	65346	19.4742	ng	90
57) 1,4-Dimethylnaphthalene	8.210	156	51777	18.3684	ng	87
58) Dimethylnaphthalenes (...	8.210	156	51777	18.3684	ng	87
59) Diphenyl Ether	7.987	170	42819	18.1350	ng	82
60) 2-Nitroaniline	8.004	65	22881	21.4063	ng	59
61) Coumarin	8.193	146	25848	19.7687	ng	74
62) Acenaphthylene	8.287	152	97464	19.8688	ng	98
63) Dimethylphthalate	8.151	163	69582	19.1178	ng	98
64) 2,6-Dinitrotoluene	8.204	165	15734	19.8603	ng	70
65) Acenaphthene	8.440	153	66343	18.8837	ng	94

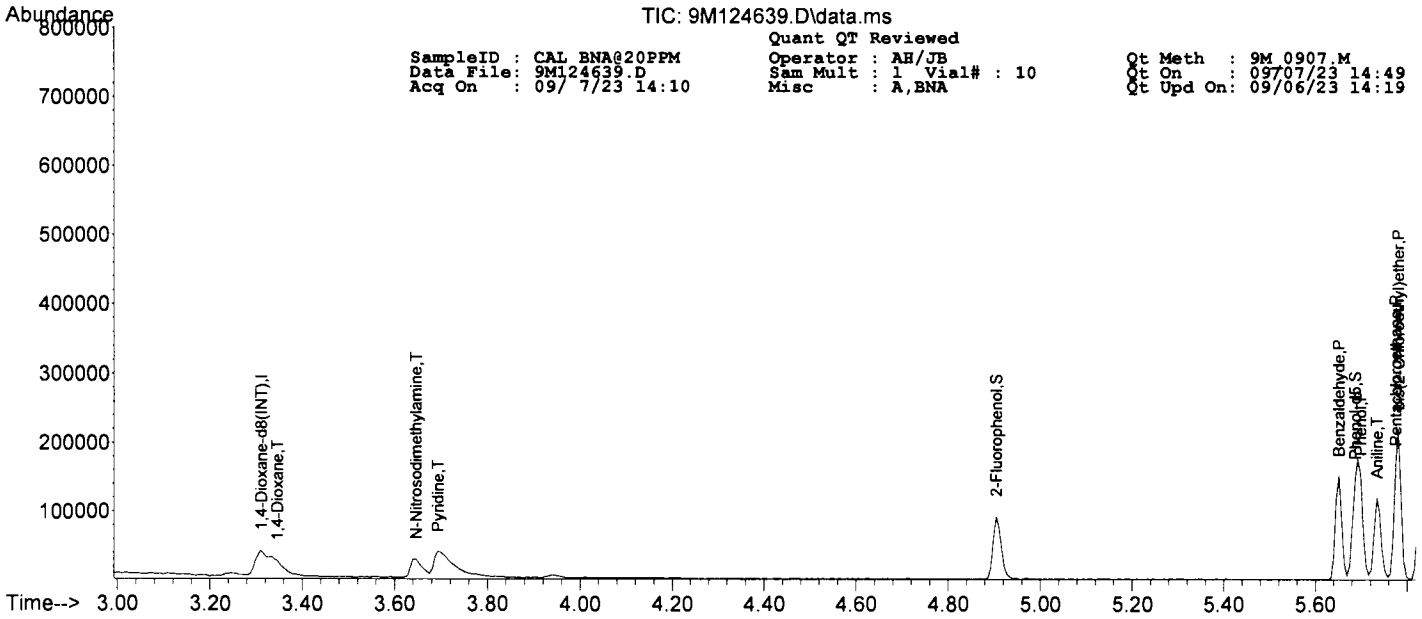
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@20PPM Operator : AH/JB Qt Meth : 9M_0907.M
Data File: 9M124639.D Sam Mult : 1 Vial# : 10 Qt On : 09/07/23 14:49
Acq On : 09/ 7/23 14:10 Misc : A,BNA Qt Upd On: 09/06/23 14:19

Data Path : G:\GcMsData\2023\GCMS_9\Data\09-07-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.363	138	17668	21.2297	ng	80
67)	2,4-Dinitrophenol	8.445	184	5265	19.2478	ng	95
68)	Dibenzofuran	8.598	168	89304	17.7086	ng	83
69)	2,4-Dinitrotoluene	8.563	165	20176	20.1197	ng	68
70)	4-Nitrophenol	8.481	65	12519	20.3173	ng	98
71)	2,3,4,6-Tetrachlorophenol	8.704	232	17677	18.3727	ng	80
72)	Fluorene	8.922	166	72731	18.7073	ng	98
73)	4-Chlorophenyl-phenyle...	8.910	204	33782	18.0698	ng	82
74)	Diethylphthalate	8.787	149	67702	18.8342	ng	97
75)	4-Nitroaniline	8.928	138	19132	20.4820	ng	77
76)	Atrazine	9.563	200	17674	17.1470	ng	93
78)	4,6-Dinitro-2-methylph...	8.951	198	8132	19.2900	ng	68
79)	n-Nitrosodiphenylamine	9.022	169	61035	19.4743	ng	99
81)	1,2-Diphenylhydrazine	9.069	77	78822	22.1428	ng	85
82)	4-Bromophenyl-phenylether	9.404	248	19926	18.5233	ng	78
83)	Hexachlorobenzene	9.469	284	21535	18.3549	ng	63
84)	N-Octadecane	9.739	57	42418	21.7970	ng	74
85)	Pentachlorophenol	9.669	266	11533	17.1982	ng	97
86)	Phenanthrene	9.910	178	102034	19.1702	ng	99
87)	Anthracene	9.963	178	104751	19.2603	ng	99
88)	Carbazole	10.134	167	96457	18.9358	ng	94
89)	Di-n-butylphthalate	10.516	149	113448	18.2690	ng	98
90)	Fluoranthene	11.245	202	111872	18.6077	ng	92
92)	Pyrene	11.510	202	116328	18.4505	ng	93
93)	Benzidine	11.398	184	45398	18.1712	ng	90
95)	4,4'-DDE	11.628	246	23224	18.0075	ng	93
96)	4,4'-DDD	12.028	235	38630	15.9239	ng	99
97)	Butylbenzylphthalate	12.281	149	47416	17.8020	ng	80
98)	4,4'-DDT	12.386	235	24712	13.6008	ng	99
99)	3,3'-Dichlorobenzidine	12.904	252	35824	19.5384	ng	95
100)	Benzo[a]anthracene	12.933	228	108569	18.0340	ng	99
101)	Chrysene	12.975	228	109603	19.6079	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.980	149	67408	18.0793	ng	93
104)	Di-n-octylphthalate	13.739	149	101395	17.1253	ng	98
105)	Benzo[b]fluoranthene	14.169	252	94519	16.7631	ng	97
106)	Benzo[k]fluoranthene	14.204	252	113905m	21.4253	ng	
107)	Benzo[a]pyrene	14.545	252	93446	19.3982	ng	93
108)	Indeno[1,2,3-cd]pyrene	15.992	276	110072	17.9428	ng	87
109)	Dibenzo[a,h]anthracene	16.016	278	87196	18.0005	ng	90
110)	Benzo[g,h,i]perylene	16.392	276	90883	17.9933	ng	74

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


Abundance
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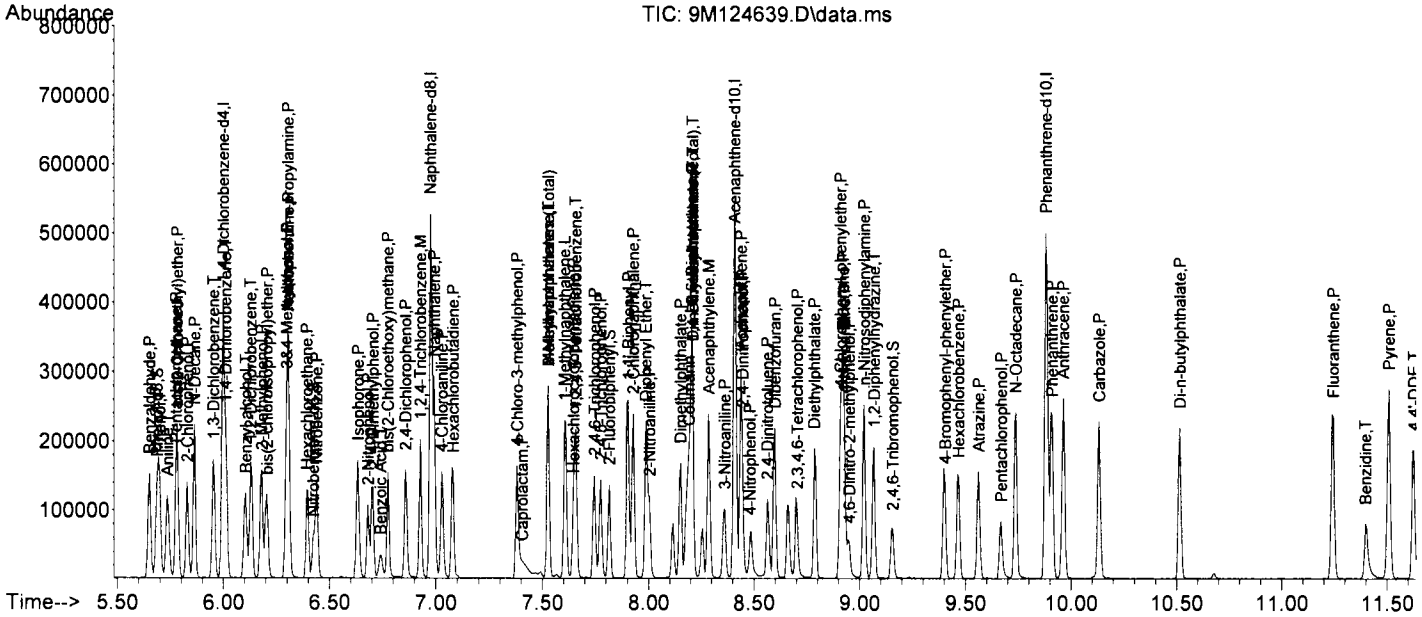
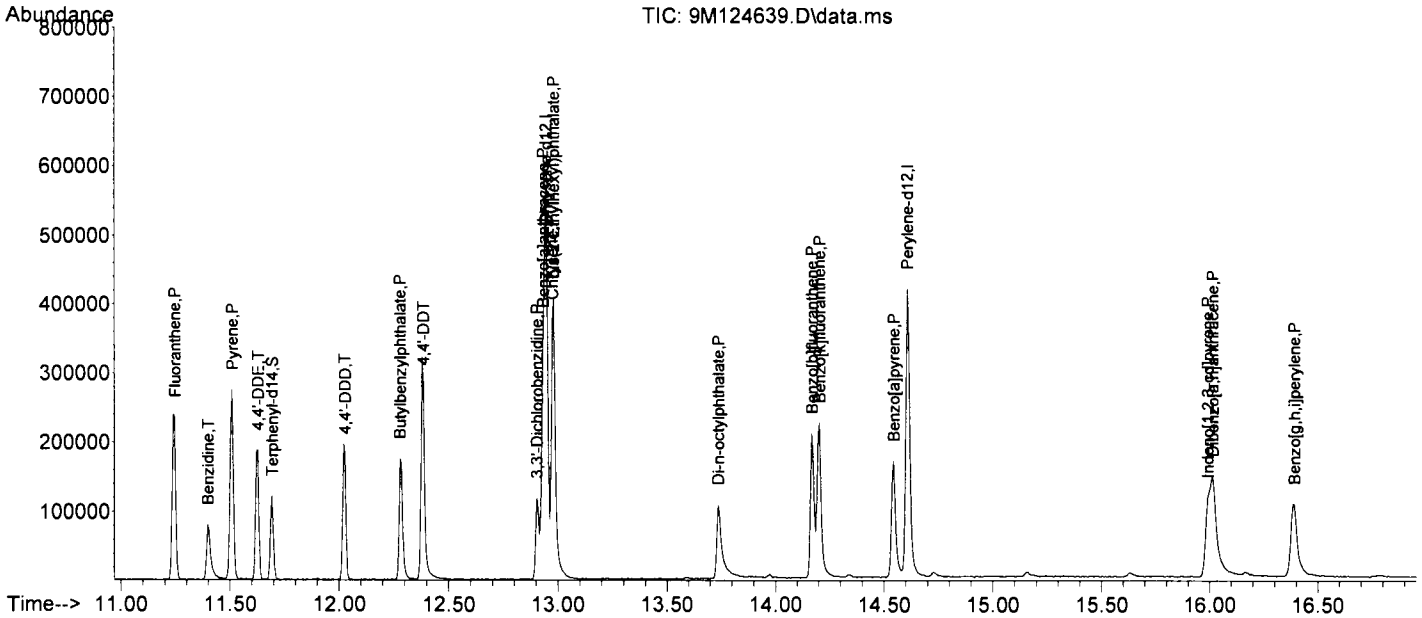
Quant QT Reviewed
SampleID : CAL BNA@20PPM
Data File: 9M124639.D
Acq On : 09/ 7/23 14:10
Operator : AH/JB
Sam Mult : 1 Vial# : 10
Misc : A,BNA
Qt Meth : 9M_0907.M
Qt On : 09707/23 14:49
Qt Upd On: 09/06/23 14:19
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Phenol-d5,S
Aniline,T
Time-->


Abundance
TIC: 9M124639.D\data.ms
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Caprolactam,S
4-Chloro-3-methylphenol,P
3-Nitroaniline,P
4-Nitrophenol,P
2,4-Dinitrotoluene,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4,6-Dinitro-2-methylphenol,P
1,2-Diphenylhydrazine,T
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 9M124639.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Perylene-d12,I
Benzo[a]pyrene,P
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@80PPM Operator : AH/JB Qt Meth : 9M_0907.M
Data File: 9M124635.D Sam Mult : 1 Via1# : 6 Qt On : 09/07/23 13:15
Acq On : 09/ 7/23 12:36 Misc : A,BNA Qt Upd On: 09/06/23 14:19

Data Path : G:\GcMsData\2023\GCMS_9\Data\09-07-23\
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)	3.310	96	32970	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.998	152	53982	40.00	ng	0.00
31) Naphthalene-d8	6.975	136	206441	40.00	ng	0.00
50) Acenaphthene-d10	8.410	164	111532	40.00	ng	0.00
77) Phenanthrene-d10	9.886	188	191169	40.00	ng	0.00
91) Chrysene-d12	12.963	240	185445	40.00	ng	0.01
103) Perylene-d12	14.663	264	180395	40.00	ng	0.06
System Monitoring Compounds						
11) 2-Fluorophenol	4.910	112	140858	73.20	ng	0.00
Spiked Amount 100.000			Recovery = 73.20%			
16) Phenol-d5	5.687	99	178484	77.49	ng	0.00
Spiked Amount 100.000			Recovery = 77.49%			
32) Nitrobenzene-d5	6.428	128	33114	38.10	ng	0.00
Spiked Amount 50.000			Recovery = 76.20%			
55) 2-Fluorobiphenyl	7.816	172	144561	36.16	ng	0.00
Spiked Amount 50.000			Recovery = 72.32%			
80) 2,4,6-Tribromophenol	9.157	330	37578	78.68	ng	0.00
Spiked Amount 100.000			Recovery = 78.68%			
94) Terphenyl-d14	11.692	244	156918	43.04	ng	0.00
Spiked Amount 50.000			Recovery = 86.08%			
Target Compounds						Qvalue
8) 1,4-Dioxane	3.340	88	61875	72.1626	ng	90
9) Pyridine	3.687	79	169065	104.7146	ng	69
10) N-Nitrosodimethylamine	3.640	74	98882	77.4089	ng	73
12) Benzaldehyde	5.651	77	124419	71.9571	ng	98
13) Aniline	5.734	93	207013	76.4723	ng	93
14) Pentachloroethane	5.775	117	52213	68.7452	ng	84
15) bis(2-Chloroethyl)ether	5.781	93	158368	78.0354	ng	92
17) Phenol	5.699	94	208109	77.0605	ng	85
18) 2-Chlorophenol	5.828	128	146613	69.7994	ng	83
19) N-Decane	5.863	57	159264	64.7214	ng	76
20) 1,3-Dichlorobenzene	5.951	146	160637	68.9179	ng	98
22) 1,4-Dichlorobenzene	6.010	146	158623	77.1831	ng	98
23) 1,2-Dichlorobenzene	6.134	146	153342	79.7884	ng	97
24) Benzyl alcohol	6.104	108	92112	79.9363	ng	73
25) bis(2-chloroisopropyl)...	6.204	45	173428	67.4353	ng	95
26) 2-Methylphenol	6.181	108	130894	80.3908	ng	99
27) Acetophenone	6.310	105	197284	87.1950	ng	60
28) Hexachloroethane	6.398	117	61236	80.6487	ng	88
29) N-Nitroso-di-n-propyla...	6.304	70	109805	88.4149	ng	90
30) 3&4-Methylphenol	6.298	108	140285	84.2930	ng	98
33) Nitrobenzene	6.440	77	149485	82.7230	ng	83
34) Isophorone	6.628	82	286127	84.9557	ng	89
35) 2-Nitrophenol	6.681	139	76256	82.7548	ng	89
36) 2,4-Dimethylphenol	6.704	107	108548	61.9666	ng	92
37) Benzoic Acid	6.775	105	98213	85.7932	ng	87
38) bis(2-Chloroethoxy)met...	6.775	93	173843	84.9394	ng	97
39) 2,4-Dichlorophenol	6.863	162	112541	75.2696	ng	86
40) 1,2,4-Trichlorobenzene	6.928	180	123764	73.8764	ng	96
41) Naphthalene	6.993	128	434327	73.7686	ng	98
42) 4-Chloroaniline	7.028	127	157249m	80.8947	ng	
43) Hexachlorobutadiene	7.081	225	67334	69.8279	ng	96
44) Caprolactam	7.351	113	44077	82.8929	ng	69
45) 4-Chloro-3-methylphenol	7.381	107	117658	83.0473	ng	98
46) 2-Methylnaphthalene	7.528	142	284912	78.2853	ng	98
47) 1-Methylnaphthalene	7.610	142	266052	78.0597	ng	100
48) Methylnaphthalenes (To...	7.528	142	549638m	156.8822	ng	
49) 1,1'-Biphenyl	7.904	154	334338	74.6927	ng	94
51) 1,2,4,5-Tetrachloroben...	7.657	216	122639	72.6647	ng	99
52) Hexachlorocyclopentadiene	7.651	237	56884	67.2552	ng	99
53) 2,4,6-Trichlorophenol	7.745	196	80225	77.5771	ng	99
54) 2,4,5-Trichlorophenol	7.775	196	81824m	74.5726	ng	
56) 2-Chloronaphthalene	7.928	162	255400	77.6884	ng	91
57) 1,4-Dimethylnaphthalene	8.210	156	201740	73.0501	ng	89
58) Dimethylnaphthalenes (...	8.210	156	201740	73.0501	ng	89
59) Diphenyl Ether	7.987	170	168454	72.8213	ng	82
60) 2-Nitroaniline	8.004	65	91814	87.6741	ng	60
61) Coumarin	8.192	146	101829	79.4910	ng	76
62) Acenaphthylene	8.287	152	378591	78.7758	ng	98
63) Dimethylphthalate	8.151	163	270248	75.7878	ng	98
64) 2,6-Dinitrotoluene	8.204	165	64565	83.1838	ng	81
65) Acenaphthene	8.440	153	263384	76.5203	ng	96

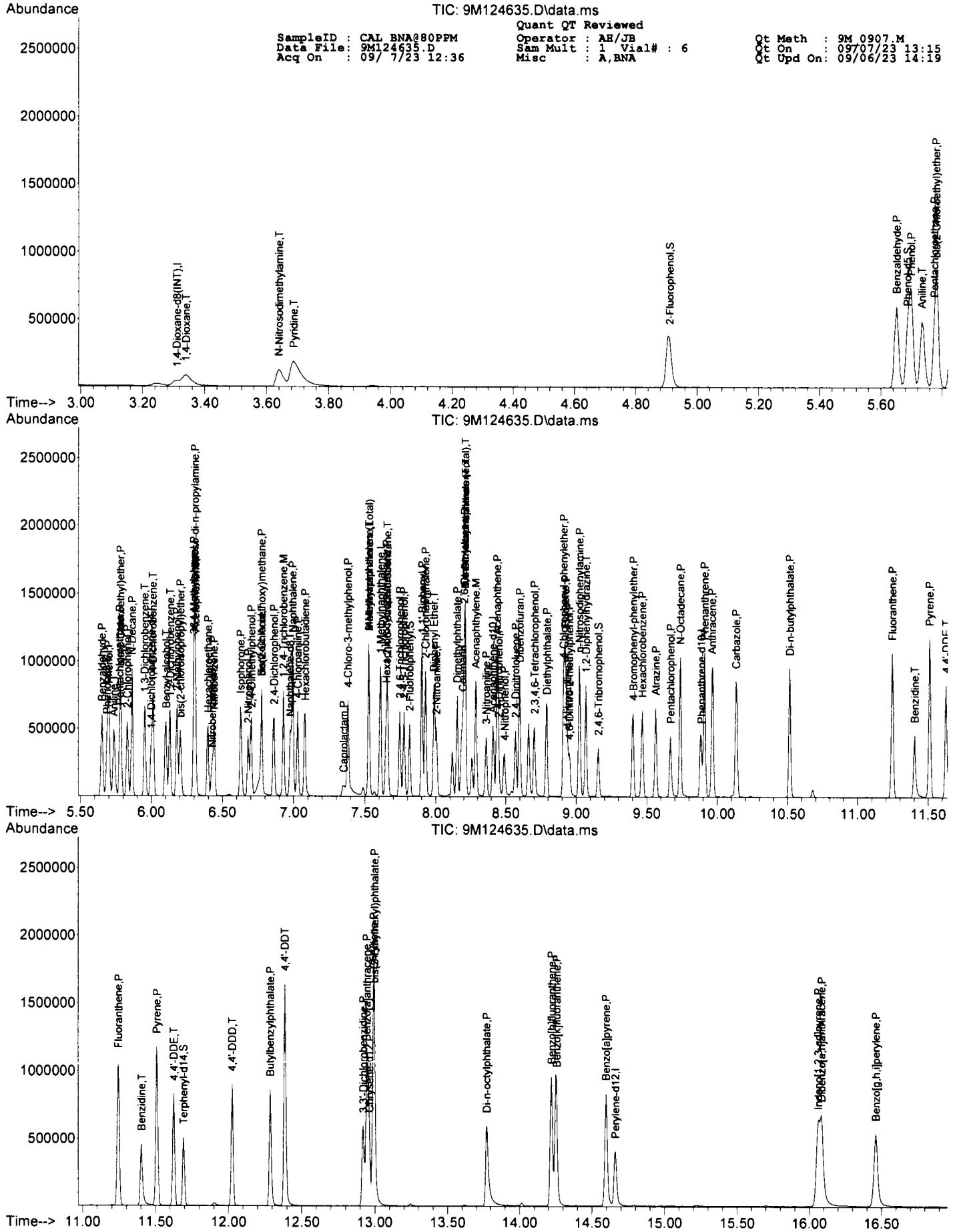
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@80PPM Operator : AH/JB Qt Meth : 9M_0907.M
Data File: 9M124635.D Sam Mult : 1 Vial# : 6 Qt On : 09/07/23 13:15
Acq On : 09/ 7/23 12:36 Misc : A,BNA Qt Upd On: 09/06/23 14:19

Data Path : G:\GcMsData\2023\GCMS_9\Data\09-07-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.363	138	70102	85.9770	ng	78
67)	2,4-Dinitrophenol	8.451	184	32004	94.3269	ng	48
68)	Dibenzofuran	8.598	168	349854	70.8103	ng	84
69)	2,4-Dinitrotoluene	8.569	165	84703	86.2148	ng	67
70)	4-Nitrophenol	8.492	65	53685	88.9291	ng	87
71)	2,3,4,6-Tetrachlorophenol	8.704	232	72014	76.3972	ng	80
72)	Fluorene	8.922	166	291420	76.5077	ng	100
73)	4-Chlorophenyl-phenyle...	8.910	204	137623	75.1370	ng	83
74)	Diethylphthalate	8.792	149	269787	76.6059	ng	96
75)	4-Nitroaniline	8.939	138	77524	84.7116	ng	78
76)	Atrazine	9.563	200	73619	72.9020	ng	98
78)	4,6-Dinitro-2-methylph...	8.951	198	44516	95.5609	ng	63
79)	n-Nitrosodiphenylamine	9.022	169	244608	81.2325	ng	97
81)	1,2-Diphenylhydrazine	9.069	77	310874	90.8964	ng	86
82)	4-Bromophenyl-phenylether	9.404	248	80663	78.0457	ng	76
83)	Hexachlorobenzene	9.469	284	85763	76.0824	ng	65
84)	N-Octadecane	9.739	57	177267	94.8095	ng	74
85)	Pentachlorophenol	9.669	266	52597	81.6351	ng	97
86)	Phenanthrene	9.910	178	409625	80.1025	ng	100
87)	Anthracene	9.963	178	425007	81.3349	ng	99
88)	Carbazole	10.134	167	396510	81.0177	ng	96
89)	Di-n-butylphthalate	10.516	149	487395	81.6913	ng	98
90)	Fluoranthene	11.245	202	465297	80.5522	ng	95
92)	Pyrene	11.510	202	495644	79.8096	ng	93
93)	Benzidine	11.404	184	194513m	79.3436	ng	
95)	4,4'-DDE	11.628	246	94716	74.5593	ng	94
96)	4,4'-DDD	12.028	235	162297	67.9200	ng	96
97)	Butylbenzylphthalate	12.286	149	208633	79.5223	ng	78
98)	4,4'-DDT	12.386	235	125628	70.1947	ng	99
99)	3,3'-Dichlorobenzidine	12.922	252	155754	86.2412	ng	96
100)	Benzo[a]anthracene	12.945	228	457205	77.1008	ng	98
101)	Chrysene	12.992	228	440158	79.9426	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.998	149	301463	82.0852	ng	90
104)	Di-n-octylphthalate	13.774	149	477731	80.3509	ng	100
105)	Benzo[b]fluoranthene	14.221	252	445474	78.6762	ng	96
106)	Benzo[k]fluoranthene	14.257	252	471074	88.2389	ng	99
107)	Benzo[a]pyrene	14.598	252	396103	81.8833	ng	93
108)	Indeno[1,2,3-cd]pyrene	16.063	276	497933	80.8296	ng	82
109)	Dibenzo[a,h]anthracene	16.086	278	401586	82.5566	ng	89
110)	Benzo[g,h,i]perylene	16.462	276	383027	75.5169	ng	77

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


Abundance
TIC: 9M124635.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@80PPM
Data File: 9M124635.D
Acq On : 09/ 7/23 12:36
Operator : AH/JB
Sam Mult : 1 Vial# : 6
Misc : A,BNA
Qt Meth : 9M_0907.M
Qt On : 09707/23 13:15
Qt Upd On: 09/06/23 14:19
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Phenol-d5,S
Aniline,T
Time--> 3.00 3.20 3.40 3.60 3.80 4.00 4.20 4.40 4.60 4.80 5.00 5.20 5.40 5.60
Abundance
TIC: 9M124635.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
2-Nitrophenol,P
2,4-Dichlorophenol,P
Naphthalene-d8,I
Naphthalene,P
4-Chloroaniline,P
Hexachlorobutadiene,P
Dimethylphthalate,P
Acenaphthylene,M
3-Nitroaniline,P
4-Nitrophenol,P
2,4-Dinitrotoluene,P
Dibenzofuran,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Chlorophenyl-phenylether,P
4,6-Dinitro-2-methylphenol,P
1,2-Diphenylhydrazine,I
N-Nitrosodiphenylamine,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene-d10,I
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time--> 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50
Abundance
TIC: 9M124635.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time--> 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50 15.00 15.50 16.00 16.50

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@120PPM Operator : AH/JB Qt Meth : 9M_0907.M
Data File: 9M124634.D Sam Mult : 1 Vial# : 5 Qt On : 09/07/23 13:13
Acq On : 09/ 7/23 12:13 Misc : A,BNA Qt Upd On: 09/06/23 14:19

Data Path : G:\GcMsData\2023\GCMS_9\Data\09-07-23\
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)	3.310	96	30296	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.998	152	50294	40.00	ng	0.00
31) Naphthalene-d8	6.975	136	188115	40.00	ng	0.00
50) Acenaphthene-d10	8.410	164	102244	40.00	ng	0.00
77) Phenanthrene-d10	9.880	188	180274	40.00	ng	0.00
91) Chrysene-d12	12.951	240	175987	40.00	ng	0.00
103) Perylene-d12	14.610	264	169144	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.910	112	199923	113.07	ng	0.00
Spiked Amount 100.000			Recovery = 113.07%			
16) Phenol-d5	5.692	99	249072	117.69	ng	0.00
Spiked Amount 100.000			Recovery = 117.69%			
32) Nitrobenzene-d5	6.428	128	45558	57.52	ng	0.00
Spiked Amount 50.000			Recovery = 115.04%			
55) 2-Fluorobiphenyl	7.816	172	202463	55.24	ng	0.00
Spiked Amount 50.000			Recovery = 110.48%			
80) 2,4,6-Tribromophenol	9.157	330	53123	117.95	ng	0.00
Spiked Amount 100.000			Recovery = 117.95%			
94) Terphenyl-d14	11.692	244	223539	64.61	ng	0.00
Spiked Amount 50.000			Recovery = 129.22%			
Target Compounds						Qvalue
8) 1,4-Dioxane	3.340	88	85321	108.2895	ng	89
9) Pyridine	3.687	79	234749	158.2308	ng	67
10) N-Nitrosodimethylamine	3.640	74	138877	118.3144	ng	73
12) Benzaldehyde	5.651	77	174987	110.1352	ng	96
13) Aniline	5.739	93	290578	116.8161	ng	91
14) Pentachloroethane	5.781	117	72222	103.4825	ng	84
15) bis(2-Chloroethyl)ether	5.787	93	213017	114.2279	ng	95
17) Phenol	5.704	94	291300	117.3856	ng	82
18) 2-Chlorophenol	5.834	128	204795	106.1041	ng	79
19) N-Decane	5.863	57	219204	96.9422	ng	77
20) 1,3-Dichlorobenzene	5.957	146	221694	103.5080	ng	97
22) 1,4-Dichlorobenzene	6.016	146	222417	116.1600	ng	98
23) 1,2-Dichlorobenzene	6.134	146	210083	117.3282	ng	98
24) Benzyl alcohol	6.104	108	130723	121.7623	ng	73
25) bis(2-chloroisopropyl)...	6.204	45	240549	100.3932	ng	94
26) 2-Methylphenol	6.181	108	182063	120.0166	ng	98
27) Acetophenone	6.310	105	270096	128.1300	ng	62
28) Hexachloroethane	6.398	117	85395	120.7135	ng	88
29) N-Nitroso-di-n-propyla...	6.310	70	152282	131.6087	ng	90
30) 3&4-Methylphenol	6.298	108	196309	126.6057	ng	95
33) Nitrobenzene	6.439	77	210682	127.9466	ng	83
34) Isophorone	6.628	82	400103	130.3702	ng	89
35) 2-Nitrophenol	6.681	139	107152	127.6122	ng	89
36) 2,4-Dimethylphenol	6.704	107	152535	95.5604	ng	92
37) Benzoic Acid	6.781	105	145860	128.9199	ng	89
38) bis(2-Chloroethoxy)met...	6.775	93	243280	130.4461	ng	97
39) 2,4-Dichlorophenol	6.863	162	160829	118.0444	ng	86
40) 1,2,4-Trichlorobenzene	6.928	180	171841	112.5669	ng	97
41) Naphthalene	6.992	128	600784	111.9814	ng	99
42) 4-Chloroaniline	7.028	127	219793m	124.0848	ng	
43) Hexachlorobutadiene	7.075	225	95473	108.6544	ng	96
44) Caprolactam	7.345	113	61154m	126.2126	ng	
45) 4-Chloro-3-methylphenol	7.381	107	166783	129.1898	ng	97
46) 2-Methylnaphthalene	7.528	142	395301	119.1983	ng	99
47) 1-Methylnaphthalene	7.528	142	395955	127.4907	ng	100
48) Methylnaphthalenes (To...	7.528	142	769243m	240.9533	ng	
49) 1,1'-Biphenyl	7.898	154	461720	113.1993	ng	96
51) 1,2,4,5-Tetrachloroben...	7.657	216	173852	112.3663	ng	98
52) Hexachlorocyclopentadiene	7.645	237	82547	106.4630	ng	99
53) 2,4,6-Trichlorophenol	7.745	196	118835	125.3517	ng	98
54) 2,4,5-Trichlorophenol	7.775	196	121393m	120.6851	ng	
56) 2-Chloronaphthalene	7.928	162	356034	118.1377	ng	90
57) 1,4-Dimethylnaphthalene	8.210	156	285474	112.7606	ng	87
58) Dimethylnaphthalenes (...	8.210	156	285474	112.7606	ng	87
59) Diphenyl Ether	7.986	170	237468	111.9809	ng	78
60) 2-Nitroaniline	8.004	65	126341	131.6038	ng	56
61) Coumarin	8.192	146	140196	119.3834	ng	73
62) Acenaphthylene	8.286	152	528053	119.8565	ng	98
63) Dimethylphthalate	8.151	163	382501	117.0121	ng	99
64) 2,6-Dinitrotoluene	8.204	165	90620	127.3584	ng	79
65) Acenaphthene	8.439	153	371595	117.7657	ng	95

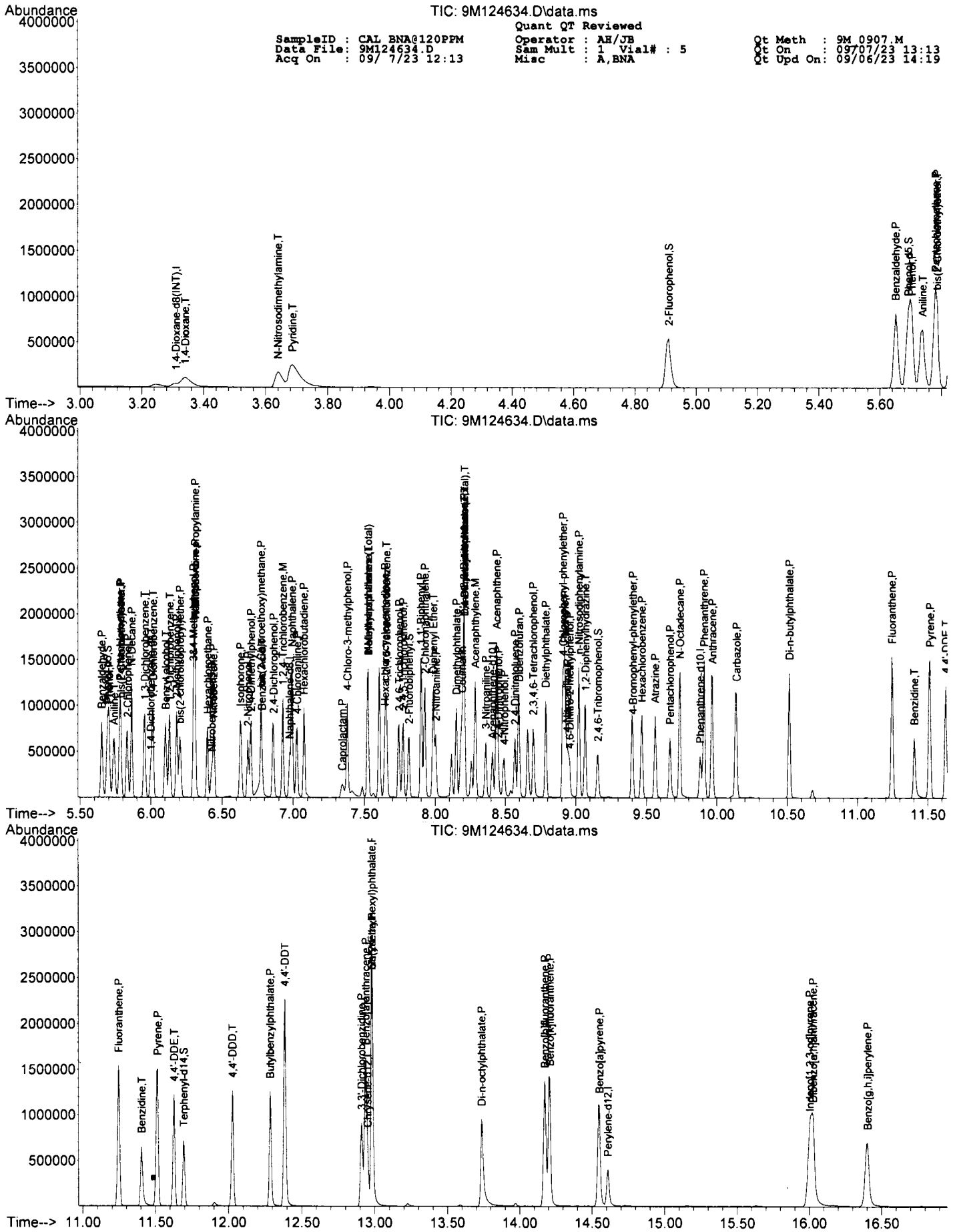
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@120PPM Operator : AH/JB Qt Meth : 9M_0907.M
Data File: 9M124634.D Sam Mult : 1 Vial# : 5 Qt On : 09/07/23 13:13
Acq On : 09/ 7/23 12:13 Misc : A,BNA Qt Upd On: 09/06/23 14:19

Data Path : G:\GcMsData\2023\GCMS_9\Data\09-07-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.363	138	97571	130.5371	ng	80
67)	2,4-Dinitrophenol	8.451	184	47713	137.0257	ng	40
68)	Dibenzofuran	8.598	168	487786	107.6962	ng	83
69)	2,4-Dinitrotoluene	8.569	165	119459	132.6366	ng	65
70)	4-Nitrophenol	8.492	65	76991	139.1210	ng	87
71)	2,3,4,6-Tetrachlorophenol	8.698	232	98753	114.2806	ng	84
72)	Fluorene	8.922	166	410137	117.4564	ng	99
73)	4-Chlorophenyl-phenyle...	8.910	204	196748	117.1749	ng	80
74)	Diethylphthalate	8.786	149	380931	117.9911	ng	97
75)	4-Nitroaniline	8.939	138	109538	130.5670	ng	76
76)	Atrazine	9.563	200	103741	112.0628	ng	97
78)	4,6-Dinitro-2-methylph...	8.957	198	65065	138.0692	ng	71
79)	n-Nitrosodiphenylamine	9.022	169	345995	121.8466	ng	98
81)	1,2-Diphenylhydrazine	9.069	77	429462	133.1593	ng	82
82)	4-Bromophenyl-phenylether	9.404	248	114963	117.9553	ng	78
83)	Hexachlorobenzene	9.469	284	121185	114.0033	ng	62
84)	N-Octadecane	9.739	57	249361	141.4284	ng	74
85)	Pentachlorophenol	9.669	266	78164	128.6493	ng	97
86)	Phenanthrene	9.910	178	578551	119.9735	ng	99
87)	Anthracene	9.969	178	600157	121.7952	ng	99
88)	Carbazole	10.139	167	563134	122.0175	ng	96
89)	Di-n-butylphthalate	10.516	149	690970	122.8114	ng	98
90)	Fluoranthene	11.245	202	663265	121.7639	ng	96
92)	Pyrene	11.516	202	685795	116.3628	ng	90
93)	Benzidine	11.404	184	275571m	118.7412	ng	
95)	4,4'-DDE	11.627	246	133830	111.0111	ng	94
96)	4,4'-DDD	12.027	235	235463	103.8351	ng	97
97)	Butylbenzylphthalate	12.286	149	299074	120.1210	ng	77
98)	4,4'-DDT	12.386	235	181670	106.9635	ng	99
99)	3,3'-Dichlorobenzidine	12.910	252	220685	128.7606	ng	96
100)	Benzo[a]anthracene	12.939	228	651642	115.7955	ng	99
101)	Chrysene	12.980	228	615236	117.7459	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.980	149	435617	124.9885	ng	93
104)	Di-n-octylphthalate	13.739	149	702916	126.0894	ng	99
105)	Benzo[b]fluoranthene	14.174	252	594416	111.9643	ng	96
106)	Benzo[k]fluoranthene	14.210	252	631129	126.0831	ng	99
107)	Benzo[a]pyrene	14.551	252	567213	125.0550	ng	92
108)	Indeno[1,2,3-cd]pyrene	16.004	276	703655	121.8224	ng	86
109)	Dibenzo[a,h]anthracene	16.027	278	571076	125.2089	ng	89
110)	Benzo[g,h,i]perylene	16.404	276	525375	110.4719	ng	77

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


TIC: 9M124634.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@120PPM
Data File: 9M124634.D
Acq On : 09/ 7/23 12:13
Operator : AH/JB
Sam Mult : 1 Vial# : 5
Misc : A,BNA
Qt Meth : 9M_0907.M
Qt On : 09707/23 13:13
Qt Upd On: 09/06/23 14:19
Abundance
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@160PPM Operator : AH/JB Qt Meth : 9M_0907.M
Data File: 9M124633.D Sam Mult : 1 Vial# : 4 Qt On : 09/07/23 13:12
Acq On : 09/ 7/23 11:50 Misc : A,BNA Qt Upd On: 09/06/23 14:19

Data Path : G:\GcMsData\2023\GCMS_9\Data\09-07-23\
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)	3.310	96	30523	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.998	152	48926	40.00	ng	0.00
31) Naphthalene-d8	6.975	136	188435	40.00	ng	0.00
50) Acenaphthene-d10	8.410	164	105475	40.00	ng	0.00
77) Phenanthrene-d10	9.880	188	184408	40.00	ng	0.00
91) Chrysene-d12	12.957	240	177231	40.00	ng	0.00
103) Perylene-d12	14.615	264	165990	40.00	ng	0.01
System Monitoring Compounds						
11) 2-Fluorophenol	4.910	112	266097	149.38	ng	0.00
Spiked Amount 100.000			Recovery = 149.38%			
16) Phenol-d5	5.692	99	334415	156.84	ng	0.00
Spiked Amount 100.000			Recovery = 156.84%			
32) Nitrobenzene-d5	6.428	128	60172	75.84	ng	0.00
Spiked Amount 50.000			Recovery = 151.68%			
55) 2-Fluorobiphenyl	7.810	172	267296	70.70	ng	0.00
Spiked Amount 50.000			Recovery = 141.40%			
80) 2,4,6-Tribromophenol	9.157	330	73886	160.37	ng	0.00
Spiked Amount 100.000			Recovery = 160.37%			
94) Terphenyl-d14	11.692	244	297762	85.46	ng	0.00
Spiked Amount 50.000			Recovery = 170.92%			
Target Compounds						Qvalue
8) 1,4-Dioxane	3.340	88	114024	143.6431	ng	91
9) Pyridine	3.687	79	310508	207.7391	ng	69
10) N-Nitrosodimethylamine	3.640	74	185833	157.1405	ng	72
12) Benzaldehyde	5.651	77	223574	139.6689	ng	97
13) Aniline	5.740	93	384628	153.4754	ng	92
14) Pentachloroethane	5.781	117	96219	136.8411	ng	84
15) bis(2-Chloroethyl)ether	5.787	93	283244	150.7568	ng	93
17) Phenol	5.704	94	386183	154.4634	ng	83
18) 2-Chlorophenol	5.834	128	271047	139.3848	ng	80
19) N-Decane	5.863	57	286460	125.7437	ng	76
20) 1,3-Dichlorobenzene	5.957	146	290883	134.8020	ng	98
22) 1,4-Dichlorobenzene	6.016	146	293142	157.3777	ng	97
23) 1,2-Dichlorobenzene	6.134	146	279801	160.6339	ng	98
24) Benzyl alcohol	6.104	108	173422	166.0509	ng	75
25) bis(2-chloroisopropyl)...	6.204	45	312169	133.9267	ng	94
26) 2-Methylphenol	6.181	108	236743	160.4254	ng	99
27) Acetophenone	6.310	105	355688	173.4516	ng	66
28) Hexachloroethane	6.398	117	114527	166.4208	ng	86
29) N-Nitroso-di-n-propyla...	6.310	70	199467	177.2080	ng	90
30) 3&4-Methylphenol	6.304	108	257013	170.3902	ng	98
33) Nitrobenzene	6.445	77	274471	166.4024	ng	79
34) Isophorone	6.634	82	532715	173.2859	ng	86
35) 2-Nitrophenol	6.681	139	142118	168.9674	ng	89
36) 2,4-Dimethylphenol	6.704	107	202287	126.5140	ng	93
37) Benzoic Acid	6.792	105	205625	169.1328	ng	87
38) bis(2-Chloroethoxy)met...	6.775	93	325330	174.1448	ng	98
39) 2,4-Dichlorophenol	6.863	162	211876	155.2476	ng	87
40) 1,2,4-Trichlorobenzene	6.928	180	225583	147.5205	ng	96
41) Naphthalene	6.992	128	789698	146.9435	ng	98
42) 4-Chloroaniline	7.022	127	282819m	159.3952	ng	
43) Hexachlorobutadiene	7.075	225	127177	144.4898	ng	98
44) Caprolactam	7.345	113	82871m	170.7428	ng	
45) 4-Chloro-3-methylphenol	7.381	107	222946	172.4003	ng	99
46) 2-Methylnaphthalene	7.522	142	525408	158.1614	ng	98
47) 1-Methylnaphthalene	7.522	142	524352	168.5456	ng	100
48) Methylnaphthalenes (To...	7.522	142	1018904m	318.6137	ng	
49) 1,1'-Biphenyl	7.898	154	610754	149.4835	ng	95
51) 1,2,4,5-Tetrachloroben...	7.657	216	229490	143.7833	ng	98
52) Hexachlorocyclopentadiene	7.645	237	111589	139.5106	ng	99
53) 2,4,6-Trichlorophenol	7.745	196	160467	164.0815	ng	98
54) 2,4,5-Trichlorophenol	7.775	196	160204	154.3909	ng	99
56) 2-Chloronaphthalene	7.922	162	471502	151.6592	ng	92
57) 1,4-Dimethylnaphthalene	8.210	156	370472	141.8517	ng	86
58) Dimethylnaphthalenes (...	8.210	156	370472	141.8517	ng	86
59) Diphenyl Ether	7.986	170	316817	144.8223	ng	76
60) 2-Nitroaniline	8.004	65	165458	167.0707	ng	54
61) Coumarin	8.198	146	187878	155.0860	ng	75
62) Acenaphthylene	8.286	152	706495	155.4467	ng	97
63) Dimethylphthalate	8.151	163	508110	150.6761	ng	99
64) 2,6-Dinitrotoluene	8.204	165	119607	162.9477	ng	86
65) Acenaphthene	8.439	153	492170	151.2002	ng	97

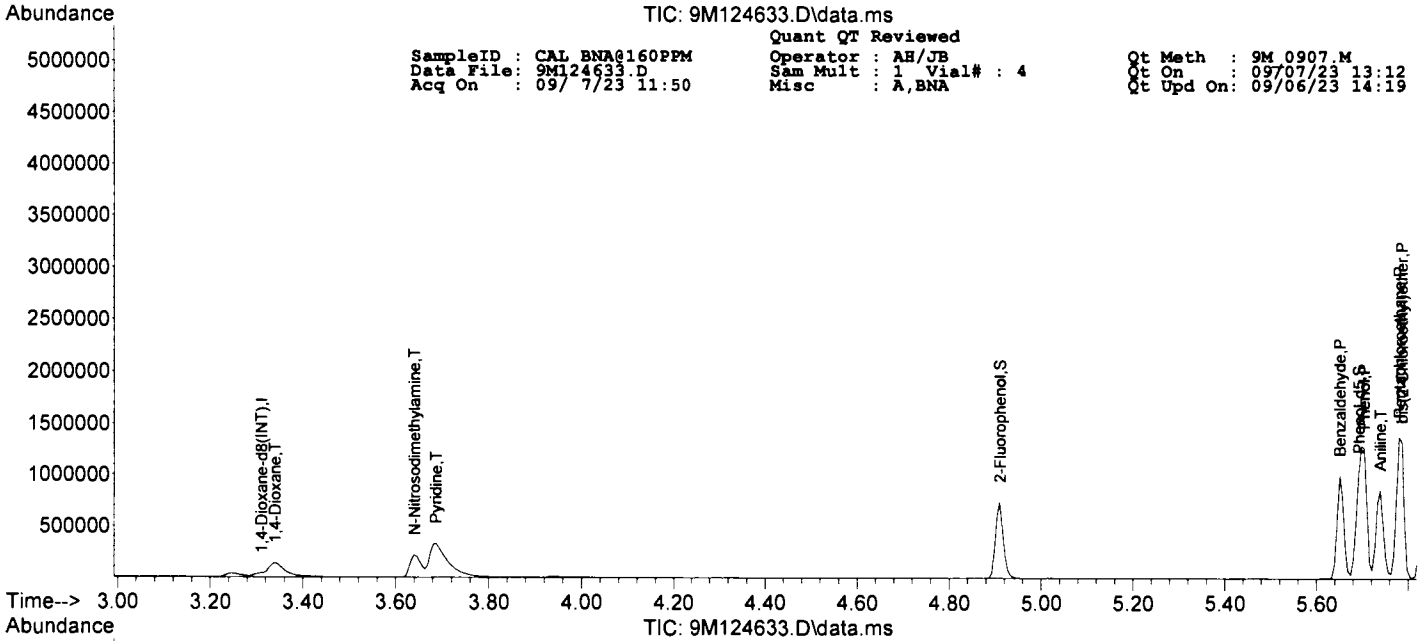
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@160PPM Operator : AH/JB Qt Meth : 9M_0907.M
Data File: 9M124633.D Sam Mult : 1 Vial# : 4 Qt On : 09/07/23 13:12
Acq On : 09/ 7/23 11:50 Misc : A,BNA Qt Upd On: 09/06/23 14:19

Data Path : G:\GcMsData\2023\GCMS_9\Data\09-07-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.363	138	126494	164.0482	ng	81
67)	2,4-Dinitrophenol	8.451	184	65829	169.4999	ng	41
68)	Dibenzofuran	8.592	168	642384	137.4847	ng	85
69)	2,4-Dinitrotoluene	8.569	165	160239	172.4650	ng	66
70)	4-Nitrophenol	8.492	65	104725	183.4388	ng	91
71)	2,3,4,6-Tetrachlorophenol	8.698	232	132622	148.7736	ng	84
72)	Fluorene	8.922	166	542516	150.6081	ng	99
73)	4-Chlorophenyl-phenyle...	8.910	204	258955	149.4985	ng	79
74)	Diethylphthalate	8.786	149	510496	153.2793	ng	97
75)	4-Nitroaniline	8.945	138	143506	165.8162	ng	76
76)	Atrazine	9.563	200	139828	146.4177	ng	96
78)	4,6-Dinitro-2-methylph...	8.957	198	85975	169.7659	ng	64
79)	n-Nitrosodiphenylamine	9.022	169	460428	158.5107	ng	98
81)	1,2-Diphenylhydrazine	9.063	77	625466	189.5849	ng	87
82)	4-Bromophenyl-phenylether	9.398	248	153224	153.6878	ng	83
83)	Hexachlorobenzene	9.469	284	162616	149.5496	ng	63
84)	N-Octadecane	9.733	57	333160	184.7202	ng	75
85)	Pentachlorophenol	9.669	266	105505	169.7567	ng	96
86)	Phenanthrene	9.910	178	770445	156.1848	ng	100
87)	Anthracene	9.969	178	802391	159.1859	ng	99
88)	Carbazole	10.139	167	747347	158.3018	ng	95
89)	Di-n-butylphthalate	10.516	149	923547	160.4692	ng	98
90)	Fluoranthene	11.245	202	892607	160.1936	ng	97
92)	Pyrene	11.516	202	922239	155.3833	ng	92
93)	Benzidine	11.404	184	368823	158.1980	ng	92
95)	4,4'-DDE	11.627	246	183854	151.4352	ng	94
96)	4,4'-DDD	12.027	235	319539	139.9221	ng	97
97)	Butylbenzylphthalate	12.286	149	405689	161.7985	ng	78
98)	4,4'-DDT	12.386	235	246481	144.1042	ng	99
99)	3,3'-Dichlorobenzidine	12.916	252	289916	167.9667	ng	96
100)	Benzo[a]anthracene	12.939	228	877265	154.7941	ng	98
101)	Chrysene	12.986	228	817540	155.3653	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.986	149	580222	165.3105	ng	92
104)	Di-n-octylphthalate	13.745	149	958616	175.2243	ng	100
105)	Benzo[b]fluoranthene	14.180	252	862389m	165.5263	ng	
106)	Benzo[k]fluoranthene	14.215	252	843999	171.8127	ng	99
107)	Benzo[a]pyrene	14.557	252	755579	169.7499	ng	94
108)	Indeno[1,2,3-cd]pyrene	16.015	276	936050	165.1357	ng	84
109)	Dibenzo[a,h]anthracene	16.039	278	753000	168.2329	ng	89
110)	Benzo[g,h,i]perylene	16.409	276	693136	148.5168	ng	77

(#) = qualifier out of range (m) = manual integration (+) = signals summed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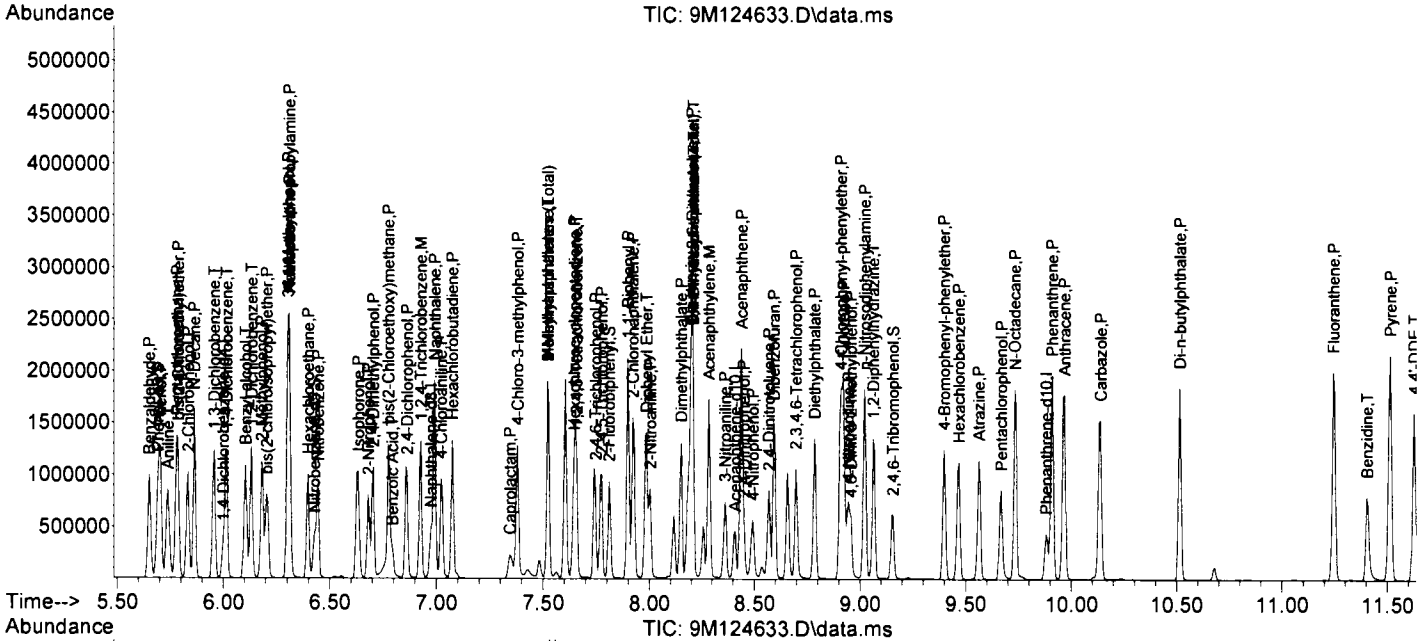
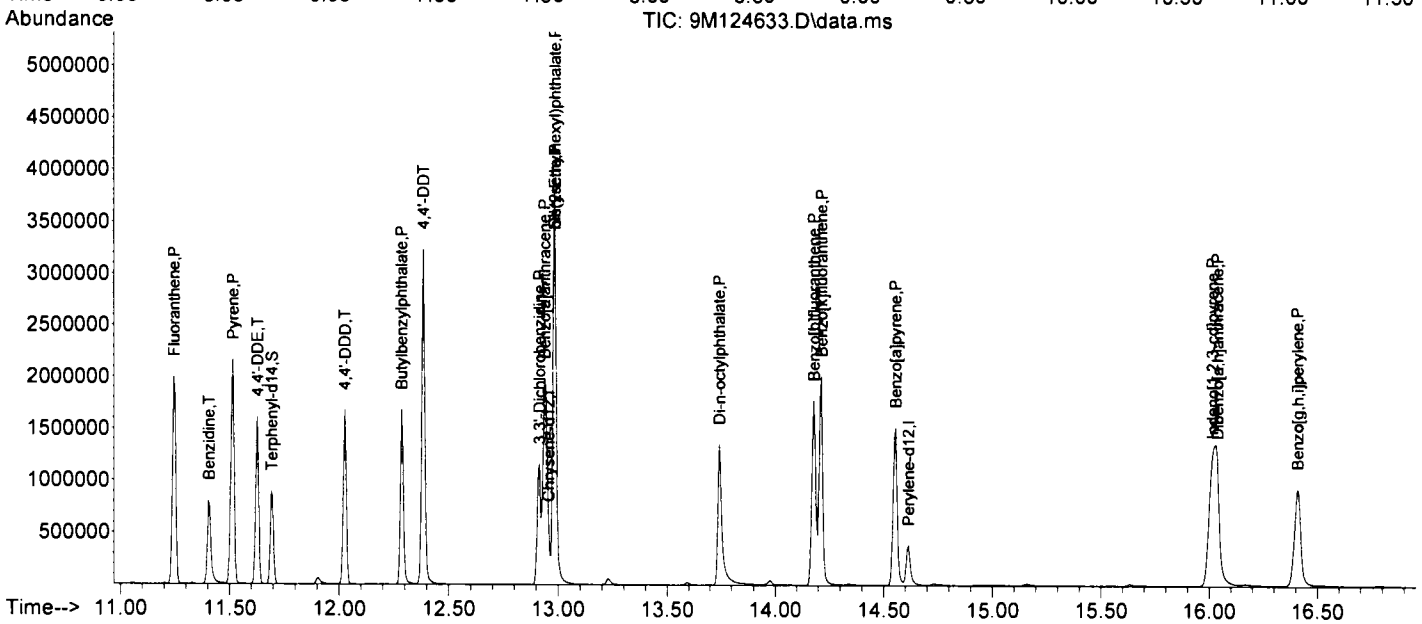
Quant QT Reviewed
SampleID : CAL BNA@160PPM
Data File: 9M124633.D
Acq On : 09/ 7/23 11:50
Operator : AH/JB
Sam Mult : 1 Vial# : 4
Misc : A,BNA
Qt Meth : 9M_0907.M
Qt On : 09/07/23 13:12
Qt Upd On: 09/06/23 14:19
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Aniline,T
Time-->


Abundance
TIC: 9M124633.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
Dimethylphthalate,P
Acenaphthylene,M
Acenaphthene,P
Diethylphthalate,P
2,3,4,6-Tetrachlorophenol,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 9M124633.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@196PPM Operator : AH/JB Qt Meth : 9M_0907.M
Data File: 9M124632.D Sam Mult : 1 Vial# : 3 Qt On : 09/07/23 13:12
Acq On : 09/ 7/23 11:26 Misc : A,BNA Qt Upd On: 09/06/23 14:19

Data Path : G:\GcMsData\2023\GCMS_9\Data\09-07-23\
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)	3.310	96	27702	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.998	152	46186	40.00	ng	0.00
31) Naphthalene-d8	6.975	136	179337	40.00	ng	0.00
50) Acenaphthene-d10	8.410	164	101612	40.00	ng	0.00
77) Phenanthrene-d10	9.886	188	175636	40.00	ng	0.00
91) Chrysene-d12	12.957	240	176489	40.00	ng	0.00
103) Perylene-d12	14.604	264	167286	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.910	112	315108	194.90	ng	0.00
Spiked Amount 100.000			Recovery = 194.90%			
16) Phenol-d5	5.698	99	400995	207.21	ng	0.01
Spiked Amount 100.000			Recovery = 207.21%			
32) Nitrobenzene-d5	6.428	128	73110	96.83	ng	0.00
Spiked Amount 50.000			Recovery = 193.66%			
55) 2-Fluorobiphenyl	7.816	172	329211	90.39	ng	0.00
Spiked Amount 50.000			Recovery = 180.78%			
80) 2,4,6-Tribromophenol	9.163	330	91555	208.64	ng	0.01
Spiked Amount 100.000			Recovery = 208.64%			
94) Terphenyl-d14	11.698	244	370806	106.88	ng	0.00
Spiked Amount 50.000			Recovery = 213.76%			
Target Compounds						Qvalue
8) 1,4-Dioxane	3.340	88	134920	187.2755	ng	95
9) Pyridine	3.687	79	376822	277.7780	ng	65
10) N-Nitrosodimethylamine	3.640	74	218861	203.9153	ng	72
12) Benzaldehyde	5.651	77	252268	173.6428	ng	98
13) Aniline	5.740	93	457680	201.2223	ng	90
14) Pentachloroethane	5.781	117	117905	184.7583	ng	83
15) bis(2-Chloroethyl)ether	5.787	93	343094	201.2081	ng	93
17) Phenol	5.704	94	464882	204.8761	ng	85
18) 2-Chlorophenol	5.834	128	327273	185.4373	ng	81
19) N-Decane	5.863	57	346925	167.7931	ng	77
20) 1,3-Dichlorobenzene	5.957	146	356141	181.8511	ng	97
22) 1,4-Dichlorobenzene	6.016	146	361468	205.5722	ng	98
23) 1,2-Dichlorobenzene	6.134	146	344193	209.3241	ng	97
24) Benzyl alcohol	6.104	108	207617	210.5860	ng	76
25) bis(2-chloroisopropyl)...	6.204	45	380047	172.7206	ng	94
26) 2-Methylphenol	6.187	108	290292	208.3822	ng	99
27) Acetophenone	6.310	105	438977	226.7672	ng	70
28) Hexachloroethane	6.398	117	141587	217.9478	ng	86
29) N-Nitroso-di-n-propyla...	6.310	70	242034	227.7813	ng	89
30) 3&4-Methylphenol	6.304	108	317896	223.2564	ng	99
33) Nitrobenzene	6.445	77	336680	214.4728	ng	80
34) Isophorone	6.634	82	646604	221.0031	ng	88
35) 2-Nitrophenol	6.687	139	171242	213.9221	ng	84
36) 2,4-Dimethylphenol	6.704	107	243171	159.7990	ng	93
37) Benzoic Acid	6.804	105	248639	203.2114	ng	88
38) bis(2-Chloroethoxy)met...	6.781	93	400195	225.0867	ng	97
39) 2,4-Dichlorophenol	6.863	162	262412	202.0312	ng	89
40) 1,2,4-Trichlorobenzene	6.928	180	282476	194.0972	ng	98
41) Naphthalene	6.992	128	977161	191.0501	ng	98
42) 4-Chloroaniline	7.028	127	340392m	201.5754	ng	
43) Hexachlorobutadiene	7.081	225	158171	188.8197	ng	96
44) Caprolactam	7.357	113	104780m	226.8349	ng	
45) 4-Chloro-3-methylphenol	7.387	107	277984	225.8655	ng	98
46) 2-Methylnaphthalene	7.528	142	648529	205.1280	ng	99
47) 1-Methylnaphthalene	7.610	142	604485	204.1605	ng	99
48) Methylnaphthalenes (To...	7.528	142	1261650m	414.5356	ng	
49) 1,1'-Biphenyl	7.904	154	752923	193.6284	ng	94
51) 1,2,4,5-Tetrachloroben...	7.657	216	280703	182.5560	ng	98
52) Hexachlorocyclopentadiene	7.651	237	143697	186.4825	ng	99
53) 2,4,6-Trichlorophenol	7.745	196	183876	195.1657	ng	99
54) 2,4,5-Trichlorophenol	7.781	196	172277	172.3377	ng	99
56) 2-Chloronaphthalene	7.928	162	581040	193.9973	ng	92
57) 1,4-Dimethylnaphthalene	8.210	156	461381	183.3763	ng	88
58) Dimethylnaphthalenes (...	8.210	156	461381	183.3763	ng	88
59) Diphenyl Ether	7.987	170	384753	182.5633	ng	82
60) 2-Nitroaniline	8.010	65	202819	212.5816	ng	51
61) Coumarin	8.204	146	232487	199.2048	ng	75
62) Acenaphthylene	8.292	152	869002	198.4713	ng	97
63) Dimethylphthalate	8.157	163	639854	196.9572	ng	98
64) 2,6-Dinitrotoluene	8.210	165	147486	208.5677	ng	87
65) Acenaphthene	8.445	153	605259	193.0114	ng	96

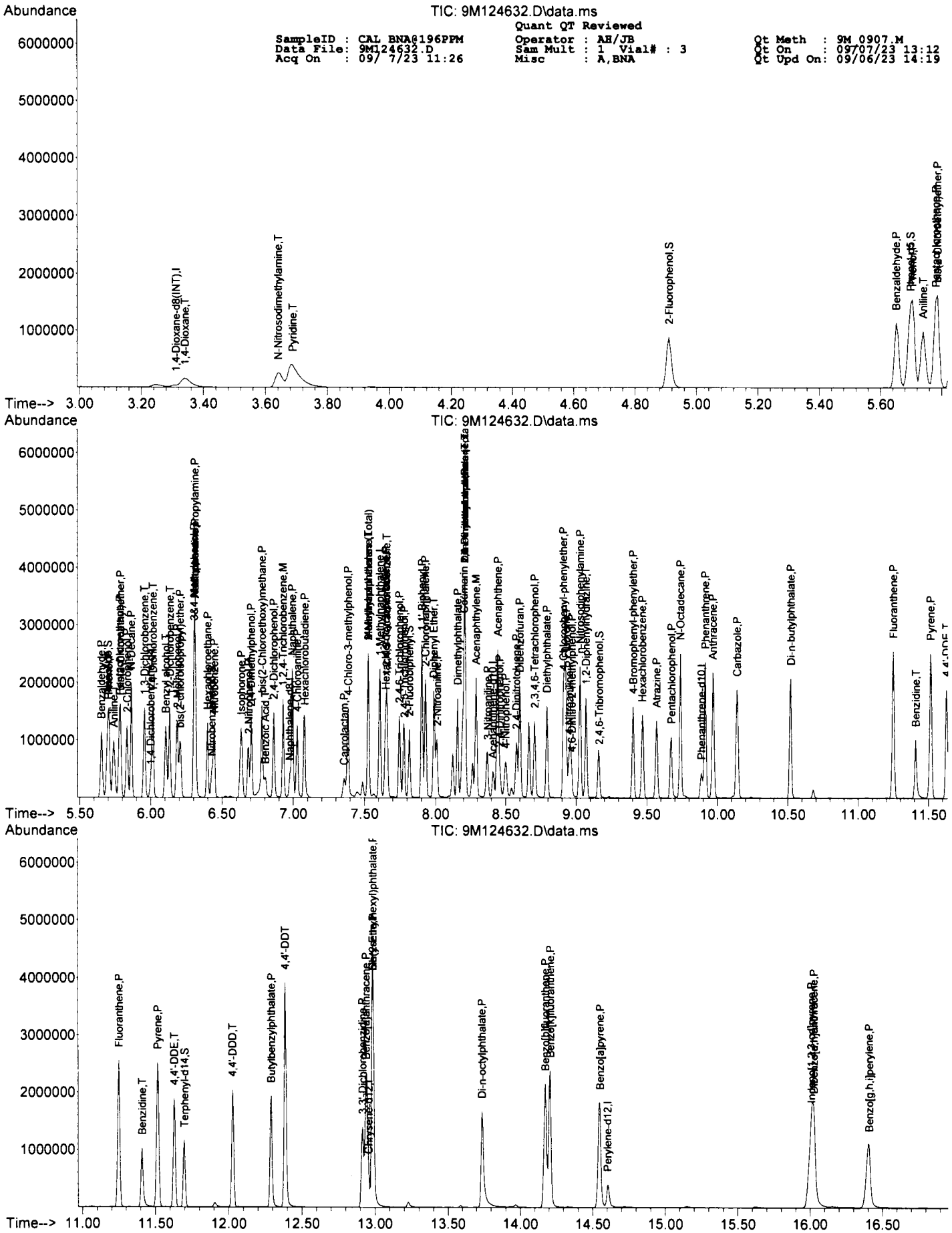
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@196PPM Operator : AH/JB Qt Meth : 9M_0907.M
Data File: 9M124632.D Sam Mult : 1 Vial# : 3 Qt On : 09/07/23 13:12
Acq On : 09/ 7/23 11:26 Misc : A,BNA Qt Upd On: 09/06/23 14:19

Data Path : G:\GcMsData\2023\GCMS_9\Data\09-07-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.375	138	152112	204.7715	ng	76
67)	2,4-Dinitrophenol	8.457	184	78621	197.3988	ng	45
68)	Dibenzofuran	8.598	168	803583	178.5233	ng	86
69)	2,4-Dinitrotoluene	8.575	165	199032	222.3618	ng	68
70)	4-Nitrophenol	8.498	65	130294	236.9026	ng	92
71)	2,3,4,6-Tetrachlorophenol	8.704	232	169218	197.0432	ng	82
72)	Fluorene	8.928	166	678707	195.5792	ng	99
73)	4-Chlorophenyl-phenyle...	8.910	204	325186	194.8718	ng	85
74)	Diethylphthalate	8.792	149	619089	192.9518	ng	96
75)	4-Nitroaniline	8.951	138	174551	209.3552	ng	79
76)	Atrazine	9.569	200	170910	185.7682	ng	96
78)	4,6-Dinitro-2-methylph...	8.969	198	109144	212.4919	ng	74
79)	n-Nitrosodiphenylamine	9.028	169	565826	204.5249	ng	98
81)	1,2-Diphenylhydrazine	9.069	77	754647	240.1653	ng	87
82)	4-Bromophenyl-phenylether	9.404	248	194065	204.3742	ng	82
83)	Hexachlorobenzene	9.469	284	205270	198.2046	ng	67
84)	N-Octadecane	9.739	57	413658	240.8070	ng	73
85)	Pentachlorophenol	9.675	266	130188	219.9333	ng	96
86)	Phenanthrene	9.916	178	957638	203.8284	ng	100
87)	Anthracene	9.969	178	971819	202.4279	ng	98
88)	Carbazole	10.139	167	922163	205.0867	ng	95
89)	Di-n-butylphthalate	10.522	149	1136767	207.3817	ng	98
90)	Fluoranthene	11.251	202	1122095	211.4369	ng	95
92)	Pyrene	11.516	202	1143731	193.5115	ng	95
93)	Benzidine	11.410	184	429560	185.3400	ng	89
95)	4,4'-DDE	11.627	246	229307	189.6675	ng	93
96)	4,4'-DDD	12.027	235	396398	174.3075	ng	96
97)	Butylbenzylphthalate	12.292	149	505936	202.6277	ng	72
98)	4,4'-DDT	12.386	235	318308	186.8800	ng	99
99)	3,3'-Dichlorobenzidine	12.916	252	348086	202.5162	ng	96
100)	Benzo[a]anthracene	12.939	228	1082066	191.7341	ng	98
101)	Chrysene	12.986	228	1016891	194.0624	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.986	149	720070	206.0170	ng	91
104)	Di-n-octylphthalate	13.739	149	1192775	216.3369	ng	99
105)	Benzo[b]fluoranthene	14.174	252	1086620	206.9493	ng	96
106)	Benzo[k]fluoranthene	14.210	252	1028729m	207.7957	ng	
107)	Benzo[a]pyrene	14.551	252	947401	211.1960	ng	93
108)	Indeno[1,2,3-cd]pyrene	16.010	276	1162681	203.5283	ng	88
109)	Dibenzo[a,h]anthracene	16.027	278	938012	207.9441	ng	90
110)	Benzo[g,h,i]perylene	16.410	276	866629	184.2522	ng	77

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


Abundance
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Quant QT Reviewed
SampleID : CAL BNA@196PPM
Data File: 9M124632.D
Acq On : 09/ 7/23 11:26
Operator : AH/JB
Sam Mult : 1 Vial# : 3
Misc : A,BNA
Qt Meth : 9M_0907.M
Qt On : 09/07/23 13:12
Qt Upd On: 09/06/23 14:19
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Phenol-d5,S
Aniline,T
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@0.5PPM Operator : AH/JB Qt Meth : 9M_0907.M
Data File: 9M124638.D Sam Mult : 1 Vial# : 9 Qt On : 09/07/23 14:08
Acq On : 09/ 7/23 13:46 Misc : A,BNA Qt Upd On: 09/06/23 14:19

Data Path : G:\GcMsData\2023\GCMS_9\Data\09-07-23\
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)	3.310	96	34082	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.998	152	60235	40.00	ng	0.00
31) Naphthalene-d8	6.975	136	231110	40.00	ng	0.00
50) Acenaphthene-d10	8.410	164	127032	40.00	ng	0.00
77) Phenanthrene-d10	9.881	188	217978	40.00	ng	0.00
91) Chrysene-d12	12.951	240	201643	40.00	ng	0.00
103) Perylene-d12	14.633	264	195094	40.00	ng	0.03
System Monitoring Compounds						
11) 2-Fluorophenol	0.000	112	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
16) Phenol-d5	0.000	99	0d	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
32) Nitrobenzene-d5	0.000	128	0	0.00	ng	
Spiked Amount 50.000			Recovery =	0.00%		
55) 2-Fluorobiphenyl	0.000	172	0d	0.00	ng	
Spiked Amount 50.000			Recovery =	0.00%		
80) 2,4,6-Tribromophenol	0.000	330	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
94) Terphenyl-d14	0.000	244	0d	0.00	ng	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
8) 1,4-Dioxane	3.346	88	550m	0.6205	ng	
9) Pyridine	0.000		0	N.D. d		
10) N-Nitrosodimethylamine	0.000		0	N.D.		
12) Benzaldehyde	0.000		0	N.D. d		
13) Aniline	5.734	93	1420	0.5074	ng	90
14) Pentachloroethane	0.000		0	N.D. d		
15) bis(2-Chloroethyl)ether	5.781	93	1188	0.5663	ng	84
17) Phenol	0.000		0	N.D. d		
18) 2-Chlorophenol	0.000		0	N.D. d		
19) N-Decane	0.000		0	N.D. d		
20) 1,3-Dichlorobenzene	0.000		0	N.D. d		
22) 1,4-Dichlorobenzene	0.000		0	N.D. d		
23) 1,2-Dichlorobenzene	0.000		0	N.D. d		
24) Benzyl alcohol	0.000		0	N.D. d		
25) bis(2-chloroisopropyl)...	0.000		0	N.D. d		
26) 2-Methylphenol	6.181	108	863	0.4750	ng	100
27) Acetophenone	0.000		0	N.D. d		
28) Hexachloroethane	0.000		0	N.D.		
29) N-Nitroso-di-n-propyla...	6.310	70	738m	0.5325	ng	
30) 3&4-Methylphenol	6.298	108	749	0.4033	ng	94
33) Nitrobenzene	0.000		0	N.D. d		
34) Isophorone	0.000		0	N.D. d		
35) 2-Nitrophenol	0.000		0	N.D. d		
36) 2,4-Dimethylphenol	6.704	107	573	0.2922	ng	72
37) Benzoic Acid	0.000		0	N.D.		
38) bis(2-Chloroethoxy)met...	0.000		0	N.D. d		
39) 2,4-Dichlorophenol	6.857	162	645	0.3853	ng	78
40) 1,2,4-Trichlorobenzene	0.000		0	N.D. d		
41) Naphthalene	6.992	128	3443	0.5224	ng	93
42) 4-Chloroaniline	7.040	127	1023	0.4701	ng	90
43) Hexachlorobutadiene	0.000		0	N.D.		
44) Caprolactam	0.000		0	N.D.		
45) 4-Chloro-3-methylphenol	0.000		0	N.D. d		
46) 2-Methylnaphthalene	0.000		0	N.D. d		
47) 1-Methylnaphthalene	0.000		0	N.D. d		
48) Methylnaphthalenes (To...	0.000		0	N.D. d		
49) 1,1'-Biphenyl	0.000		0	N.D. d		
51) 1,2,4,5-Tetrachloroben...	0.000		0	N.D. d		
52) Hexachlorocyclopentadiene	0.000		0	N.D.		
53) 2,4,6-Trichlorophenol	0.000		0	N.D.		
54) 2,4,5-Trichlorophenol	0.000		0	N.D.		
56) 2-Chloronaphthalene	0.000		0	N.D. d		
57) 1,4-Dimethylnaphthalene	0.000		0	N.D. d		
58) Dimethylnaphthalenes (...	0.000		0	N.D. d		
59) Diphenyl Ether	0.000		0	N.D. d		
60) 2-Nitroaniline	0.000		0	N.D. d		
61) Coumarin	0.000		0	N.D. d		
62) Acenaphthylene	0.000		0	N.D. d		
63) Dimethylphthalate	0.000		0	N.D. d		
64) 2,6-Dinitrotoluene	0.000		0	N.D. d		
65) Acenaphthene	0.000		0	N.D. d		

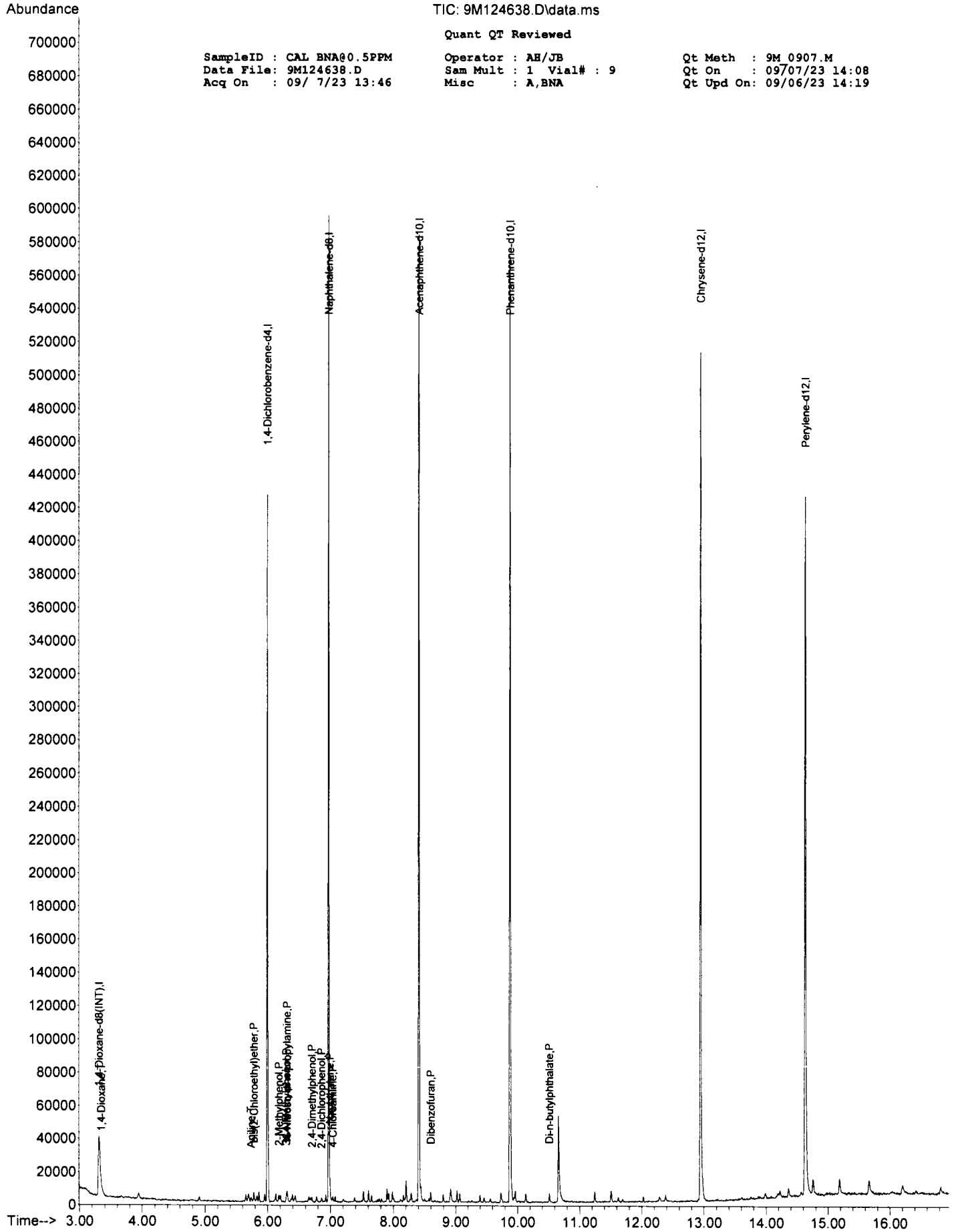
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@0.5PPM Operator : AH/JB Qt Meth : 9M_0907.M
Data File: 9M124638.D Sam Mult : 1 Vial# : 9 Qt On : 09/07/23 14:08
Acq On : 09/ 7/23 13:46 Misc : A,BNA Qt Upd On: 09/06/23 14:19

Data Path : G:\GcMsData\2023\GCMS_9\Data\09-07-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	0.000		0	N.D.		
67)	2,4-Dinitrophenol	0.000		0	N.D.		
68)	Dibenzofuran	8.598	168	2833	0.5034	ng	83
69)	2,4-Dinitrotoluene	0.000		0	N.D. d		
70)	4-Nitrophenol	0.000		0	N.D. d		
71)	2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
72)	Fluorene	0.000		0	N.D. d		
73)	4-Chlorophenyl-phenyle...	0.000		0	N.D. d		
74)	Diethylphthalate	0.000		0	N.D. d		
75)	4-Nitroaniline	0.000		0	N.D.		
76)	Atrazine	0.000		0	N.D.		
78)	4,6-Dinitro-2-methylph...	0.000		0	N.D.		
79)	n-Nitrosodiphenylamine	0.000		0	N.D. d		
81)	1,2-Diphenylhydrazine	0.000		0	N.D. d		
82)	4-Bromophenyl-phenylether	0.000		0	N.D. d		
83)	Hexachlorobenzene	0.000		0	N.D. d		
84)	N-Octadecane	0.000		0	N.D. d		
85)	Pentachlorophenol	0.000		0	N.D.		
86)	Phenanthrene	0.000		0	N.D. d		
87)	Anthracene	0.000		0	N.D. d		
88)	Carbazole	0.000		0	N.D. d		
89)	Di-n-butylphthalate	10.516	149	2843	0.4179	ng	97
90)	Fluoranthene	0.000		0	N.D. d		
92)	Pyrene	0.000		0	N.D. d		
93)	Benzidine	0.000		0	N.D.		
95)	4,4'-DDE	0.000		0	N.D. d		
96)	4,4'-DDD	0.000		0	N.D. d		
97)	Butylbenzylphthalate	0.000		0	N.D. d		
98)	4,4'-DDT	0.000		0	N.D.		
99)	3,3'-Dichlorobenzidine	0.000		0	N.D.		
100)	Benzo[a]anthracene	0.000		0	N.D. d		
101)	Chrysene	0.000		0	N.D. d		
102)	bis(2-Ethylhexyl)phtha...	0.000		0	N.D. d		
104)	Di-n-octylphthalate	0.000		0	N.D. d		
105)	Benzo[b]fluoranthene	0.000		0	N.D. d		
106)	Benzo[k]fluoranthene	0.000		0	N.D. d		
107)	Benzo[a]pyrene	0.000		0	N.D. d		
108)	Indeno[1,2,3-cd]pyrene	0.000		0	N.D. d		
109)	Dibenzo[a,h]anthracene	0.000		0	N.D. d		
110)	Benzo[g,h,i]perylene	0.000		0	N.D. d		

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


Abundance
TIC: 9M124638.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@0.5PPM
Data File: 9M124638.D
Acq On : 09/ 7/23 13:46
Operator : AH/JB
Sam Mult : 1 Vial# : 9
Misc : A,BNA
Qt Meth : 9M_0907.M
Qt On : 09/07/23 14:08
Qt Upd On: 09/06/23 14:19
1,4-Dioxane-d8(INT),I
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Chrysene-d12,I
Perylene-d12,I
Dibenzofuran,P
Di-n-butylphthalate,P
Time-->

3092819 0108

Form 6
Initial Calibration

Method: EPA8270E SIM

Instrument: GCMS_12Sm

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	12M68251.D	CAL SIM@5PPM	09/20/23 11:21	2	12M68255.D	CAL SIM@0.02PPM	09/20/23 13:25
3	12M68245.D	CAL SIM@0.1PPM	09/20/23 09:13	4	12M68244.D	CAL SIM@0.2PPM	09/20/23 08:47
5	12M68254.D	CAL SIM@0.5PPM	09/20/23 13:02	6	12M68248.D	CAL SIM@1PPM	09/20/23 10:17
7	12M68249.D	CAL SIM@10PPM	09/20/23 10:38	8	12M68250.D	CAL SIM@19.6PPM	09/20/23 11:00

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	0.9212	-----	0.9041	0.8237	0.8720	0.9579	0.8953	0.8203	-----	0.885	2.53	0.998	1.00	5.7		5.00		0.10	0.20	0.50	1.00	10.00	19.60	
N-Nitrosodimethylamin	1	0	Avg	1.4688	-----	-----	1.2769	1.2124	1.3327	1.3376	1.2945	-----	1.32	2.94	0.999	1.00	6.5	0.01	5.00			0.20	0.50	1.00	10.00	19.60	
bis(2-Chloroethyl)ether	1	0	Avg	1.1997	0.9739	1.3322	1.3150	1.3388	1.4290	1.0136	0.9191	-----	1.19	5.53	0.984	0.997	16		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
2-Methylphenol	1	0	Avg	1.0850	0.8738	1.0354	0.9806	0.7569	1.0322	1.0127	0.9550	-----	0.966	5.96	0.998	1.00	11		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Hexachloroethane	1	0	Avg	0.4708	0.4759	0.5605	0.4789	0.4875	0.5084	0.4422	0.4197	-----	0.481	6.16	0.999	1.00	8.8	0.30	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
3&4-Methylphenol	1	0	Avg	1.0986	0.8016	0.9567	0.8719	1.0318	1.0197	1.0364	0.9649	-----	0.973	6.08	0.998	1.00	9.9		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Nitrobenzene-d5	1	0	Avg	0.2075	0.1681	0.2301	0.2058	0.2267	0.2286	0.1764	0.1585	-----	0.200	6.20	0.993	0.999	14		25.00	0.10	0.50	1.00	2.50	5.00	50.00	98.00	
2,4-Dimethylphenol	1	0	Avg	0.1810	0.1527	0.1792	0.1577	0.1683	0.1811	0.1722	0.1612	-----	0.169	6.49	0.998	1.00	6.5		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Naphthalene	1	0	Avg	0.9625	0.9274	1.1441	0.9206	1.0297	1.0580	0.8280	0.7345	-----	0.951	6.77	0.993	0.999	14	0.70	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Hexachlorobutadiene	1	0	Avg	0.1819	0.2033	0.2287	0.1972	0.1971	0.2093	0.1635	0.1539	-----	0.192	6.86	0.998	1.00	13	0.01	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Hexachlorocyclopenta	1	0	Qua	0.2338	-----	-----	0.1098	0.1392	0.1778	0.2397	0.2473	-----	0.191	7.43	1.00	1.00	30		5.00			0.20	0.50	1.00	10.00	19.60	
2,4,5-Trichlorophenol	1	0	Avg	0.3010	0.2599	0.2852	0.2615	0.2764	0.3072	0.2647	0.2541	-----	0.276	7.56	0.998	0.999	7.2		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
2-Fluorobiphenyl	1	0	Qua	0.9053	1.1076	1.2676	1.0511	1.1529	1.1367	0.7308	0.6103	-----	0.995	7.59	0.983	0.998	23		25.00	0.10	0.50	1.00	2.50	5.00	50.00	98.00	
Acenaphthylene	1	0	Avg	1.8771	1.6540	1.7966	1.5586	1.7606	1.8423	1.7019	1.4917	-----	1.71	8.05	0.993	1.00	7.9	0.90	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Acenaphthene	1	0	Avg	1.1071	1.1738	1.3089	1.0671	1.2136	1.1956	0.9774	0.8596	-----	1.11	8.20	0.993	1.00	13	0.90 a	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Dibenzofuran	1	0	Avg	1.3739	1.7264	1.9065	1.5501	1.6565	1.6475	1.2109	1.0701	-----	1.52	8.36	0.993	1.00	18		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Fluorene	1	0	Avg	1.0644	1.0928	1.2094	0.9613	1.1039	1.0871	0.9737	0.8984	-----	1.05	8.68	0.997	1.00	9.4	0.90 a	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
4,6-Dinitro-2-methylph	1	0	Qua	0.0810	-----	-----	0.0406	0.0417	0.0524	0.0873	0.0924	-----	0.0659	8.72	0.999	1.00	36	0.01	5.00			0.20	0.50	1.00	10.00	19.60	
1,2-Diphenylhydrazine	1	0	Qua	0.4519	0.7210	0.9123	0.6686	0.4195	0.4975	0.4281	0.3963	-----	0.562	8.82	0.998	1.00	33		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Hexachlorobenzene	1	0	Avg	0.2010	0.2222	0.2404	0.2013	0.2075	0.2240	0.1864	0.1720	-----	0.207	9.22	0.997	1.00	11	0.10	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Pentachlorophenol	1	0	Qua	0.0899	-----	-----	0.0568	0.0547	0.0683	0.0983	0.1027	-----	0.0785	9.42	0.999	1.00	27	0.05	5.00			0.20	0.50	1.00	10.00	19.60	
Phenanthrene	1	0	Qua	1.0668	1.2783	1.3796	1.1035	1.1376	1.1716	0.9385	0.8109	-----	1.11	9.65	0.991	1.00	16	0.70	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Anthracene	1	0	Avg	0.9819	0.8468	1.0639	0.9231	0.9778	1.0611	0.8611	0.7718	-----	0.936	9.70	0.994	1.00	11	0.70	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Carbazole	1	0	Avg	0.8156	0.8091	1.0108	0.9137	0.8564	0.9479	0.7161	0.6405	-----	0.839	9.88	0.994	1.00	14	0.01	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Fluoranthene	1	0	Avg	1.2135	1.2314	1.3278	1.1183	1.2183	1.2726	1.0743	0.9468	-----	1.18	10.98	0.993	1.00	10	0.60	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Pyrene	1	0	Avg	2.3128	2.4094	2.8359	2.4511	2.4152	2.4776	2.2538	2.1665	-----	2.42	11.24	0.999	1.00	8.3	0.60	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Terphenyl-d14	1	0	Qua	1.0962	1.4387	1.6486	1.4464	1.4588	1.4035	0.9988	0.8912	-----	1.30	11.43	0.995	1.00	21		25.00	0.10	0.50	1.00	2.50	5.00	50.00	98.00	
Benzo[a]anthracene	1	0	Avg	1.5806	0.9995	1.6138	1.2392	1.3129	1.4526	1.5963	1.5962	-----	1.42	12.66	1.00	1.00	16	0.80	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Chrysene	1	0	Avg	1.4178	1.6923	1.7384	1.3775	1.7119	1.6288	1.4139	1.3432	-----	1.54	12.70	0.999	1.00	11	0.70	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Benzo[b]fluoranthene	1	0	Avg	1.5761	1.5480	1.8857	1.7236	1.8396	1.9104	1.7105	1.4842	-----	1.71	13.88	0.994	0.998	9.5	0.70	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Benzo[k]fluoranthene	1	0	Avg	1.6238	1.8301	1.8970	1.5902	1.9347	1.8492	1.2845	1.3357	-----	1.67	13.91	0.996	0.997	15	0.70	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Benzo[a]pyrene	1	0	Avg	1.6154	1.2526	1.5649	1.4333	1.4884	1.5684	1.5248	1.4365	-----	1.49	14.23	0.999	1.00	7.7	0.70	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.9647	1.6381	1.8922	1.7125	1.8823	1.9491	1.7669	1.6685	-----	1.81	15.56	0.998	1.00	7.1	0.50	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Dibenzo[a,h]anthracen	1	0	Avg	1.4937	1.2739	1.5656	1.3403	1.5525	1.5881	1.3352	1.2610	-----	1.43	15.58	0.998	1.00	9.6	0.40	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Benzo[g,h,i]perylene	1	0	Avg	1.6066	1.6708	1.7833	1.5432	1.6994	1.7307	1.4792	1.3989	-----	1.61	15.92	0.998	1.00	8.2	0.50	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	

Flags	*Note:* Avg Rsd: 13.88
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.

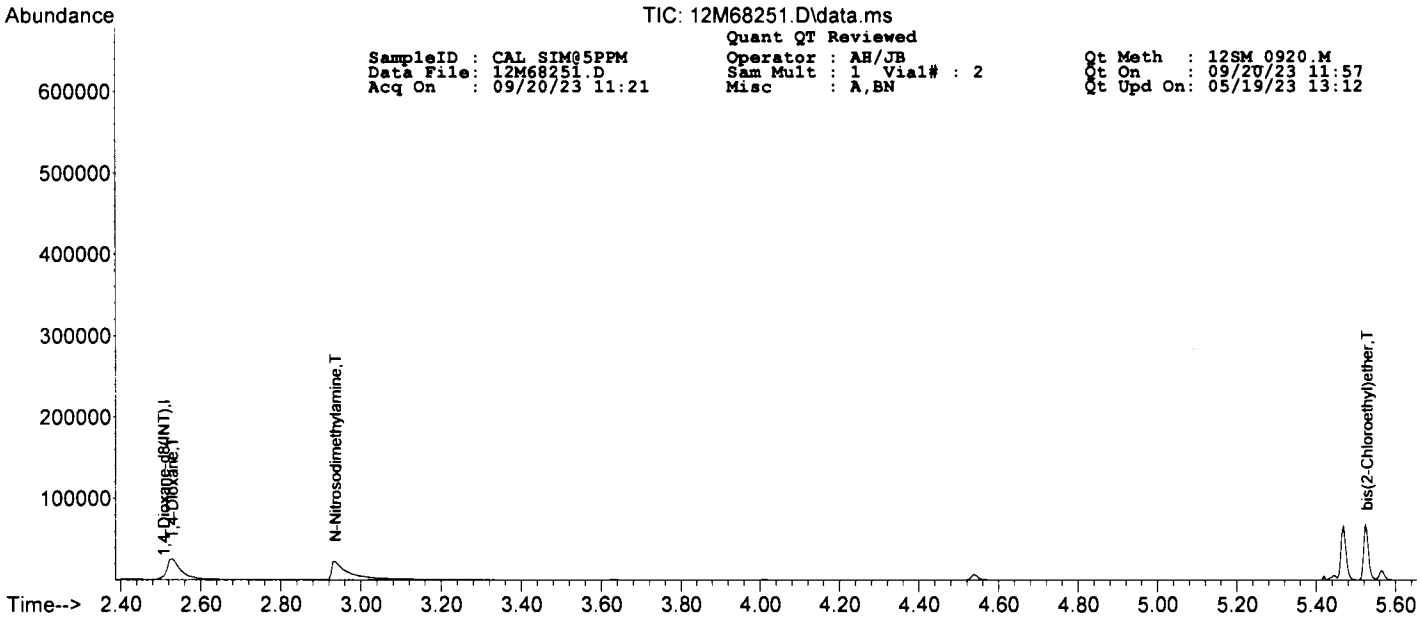
Quantitation Report (QT Reviewed)

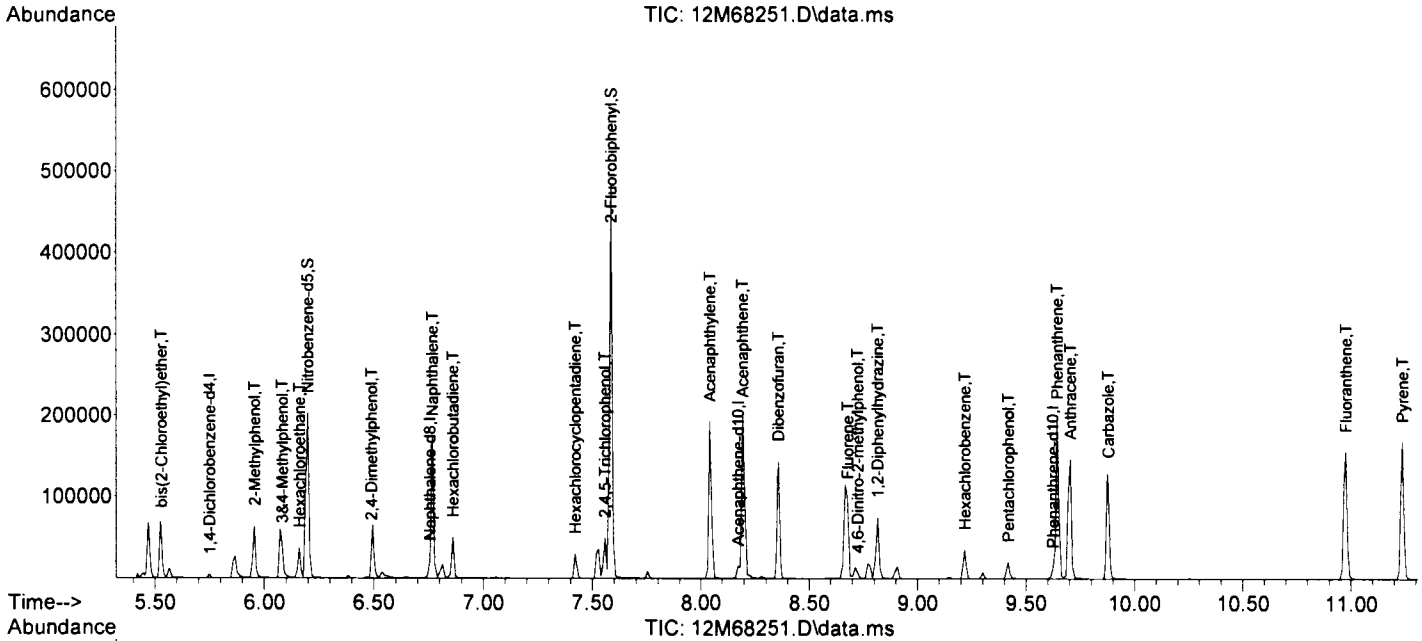
SampleID : CAL SIM@5PPM Operator : AH/JB Qt Meth : 12SM_0920.M
Data File: 12M68251.D Sam Mult : 1 Vial# : 2 Qt On : 09/20/23 11:57
Acq On : 09/20/23 11:21 Misc : A,BN Qt Upd On: 05/19/23 13:12

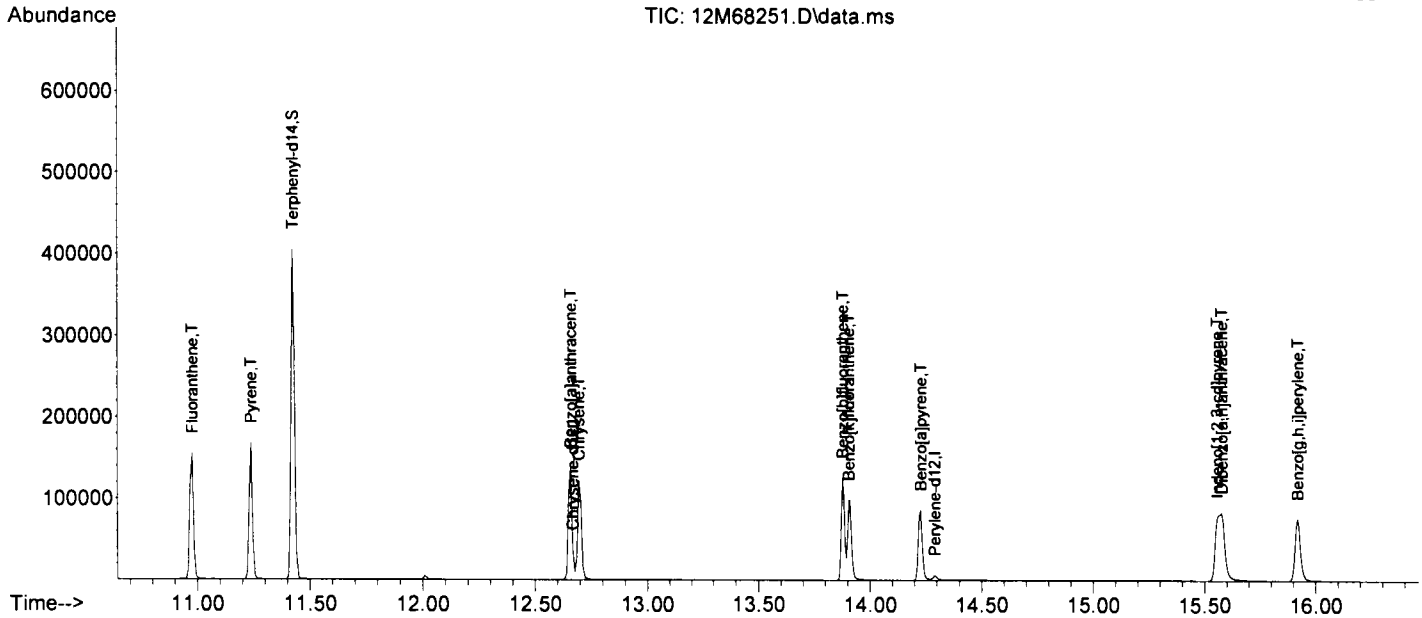
Data Path : G:\GcMsData\2023\GCMS_12SM\Data\09-20-23\
Qt Path : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.508	96	28009m	0.40	ng	-0.04
3) 1,4-Dichlorobenzene-d4	5.749	152	22638m	0.40	ng	-0.03
9) Naphthalene-d8	6.759	136	103133	0.40	ng	-0.03
14) Acenaphthene-d10	8.172	164	54205m	0.40	ng	-0.04
22) Phenanthrene-d10	9.623	188	101633m	0.40	ng	-0.04
31) Chrysene-d12	12.668	240	53092m	0.40	ng	-0.05
36) Perylene-d12	14.290	264	44166m	0.40	ng	-0.05
System Monitoring Compounds						
10) Nitrobenzene-d5	6.196	82	1338122	24.15	ng	-0.03
Spiked Amount 50.000			Recovery = 48.30%			
17) 2-Fluorobiphenyl	7.589	172	3067019	26.50	ng	-0.03
Spiked Amount 50.000			Recovery = 53.00%			
33) Terphenyl-d14	11.426	244	3637652	29.03	ng	-0.04
Spiked Amount 50.000			Recovery = 58.06%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.532	88	322524	4.7086	ng	83
4) N-Nitrosodimethylamine	2.936	74	415668m	7.1043	ng	
5) bis(2-Chloroethyl)ether	5.528	93	339507	4.7563	ng	95
6) 2-Methylphenol	5.957	108	307048	5.7837	ng	88
7) Hexachloroethane	6.162	201	133242	5.1918	ng	89
8) 3&4-Methylphenol	6.078	108	310908	5.7224	ng	96
11) 2,4-Dimethylphenol	6.490	107	233338m	4.4410	ng	
12) Naphthalene	6.768	128	1240932m	4.8822	ng	
13) Hexachlorobutadiene	6.864	225	234521	4.7767	ng	65
15) Hexachlorocyclopentadiene	7.425	237	158468	5.2462	ng	83
16) 2,4,5-Trichlorophenol	7.557	196	203983m	4.6031	ng	
18) Acenaphthylene	8.048	152	1271898	6.2392	ng	90
19) Acenaphthene	8.198	153	750169	5.2995	ng	63
20) Dibenzofuran	8.357	168	930952m	4.6115	ng	
21) Fluorene	8.675	166	721267	5.7701	ng	84
23) 4,6-Dinitro-2-methylph...	8.719	198	102935	5.5436	ng	85
24) 1,2-Diphenylhydrazine	8.817	77	574200	5.7702	ng	55
25) Hexachlorobenzene	9.216	284	255396m	5.3385	ng	
26) Pentachlorophenol	9.420	266	114269	4.5558	ng	98
27) Phenanthrene	9.646	178	1355374	5.2868	ng	94
28) Anthracene	9.704	178	1247525	5.9017	ng	93
29) Carbazole	9.878	167	1036222	5.9288	ng	95
30) Fluoranthene	10.977	202	1541738	6.2077	ng	92
32) Pyrene	11.240	202	1534937	5.0108	ng	97
34) Benzo[a]anthracene	12.660	228	1048987	6.4515	ng	94
35) Chrysene	12.695	228	940975m	4.6503	ng	
37) Benzo[b]fluoranthene	13.879	252	870183m	4.7331	ng	
38) Benzo[k]fluoranthene	13.906	252	896494m	4.5276	ng	
39) Benzo[a]pyrene	14.228	252	891870	5.8264	ng	92
40) Indeno[1,2,3-cd]pyrene	15.558	276	1084704m	6.0291	ng	
41) Dibenzo[a,h]anthracene	15.578	278	824652m	5.6768	ng	
42) Benzo[g,h,i]perylene	15.922	276	887007	5.3259	ng	96

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


Abundance
TIC: 12M68251.D\data.ms
Quant QT Reviewed
SampleID : CAL SIM@5PPM
Data File: 12M68251.D
Acq On : 09/20/23 11:21
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BN
Qt Meth : 12SM_0920.M
Qt On : 09/20/23 11:57
Qt Upd On: 05/19/23 13:12
1,4-Dioxane,T
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
Time-->


Abundance
TIC: 12M68251.D\data.ms
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Hexachloroethane
Nitrobenzene-d5,S
2,4-Dimethylphenol,T
Naphthalene-d8,I
Naphthalene,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2,4,5-Trichlorophenol,T
2-Fluorobiphenyl,S
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
Fluorene,T
4,6-Dinitro-2-methylphenol,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Phenanthrene-d10,I
Phenanthrene,T
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Time-->


Abundance
TIC: 12M68251.D\data.ms
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Benzo[a]pyrene,T
Perylene-d12,I
Benzo[g,h,i]perylene,T
Time-->

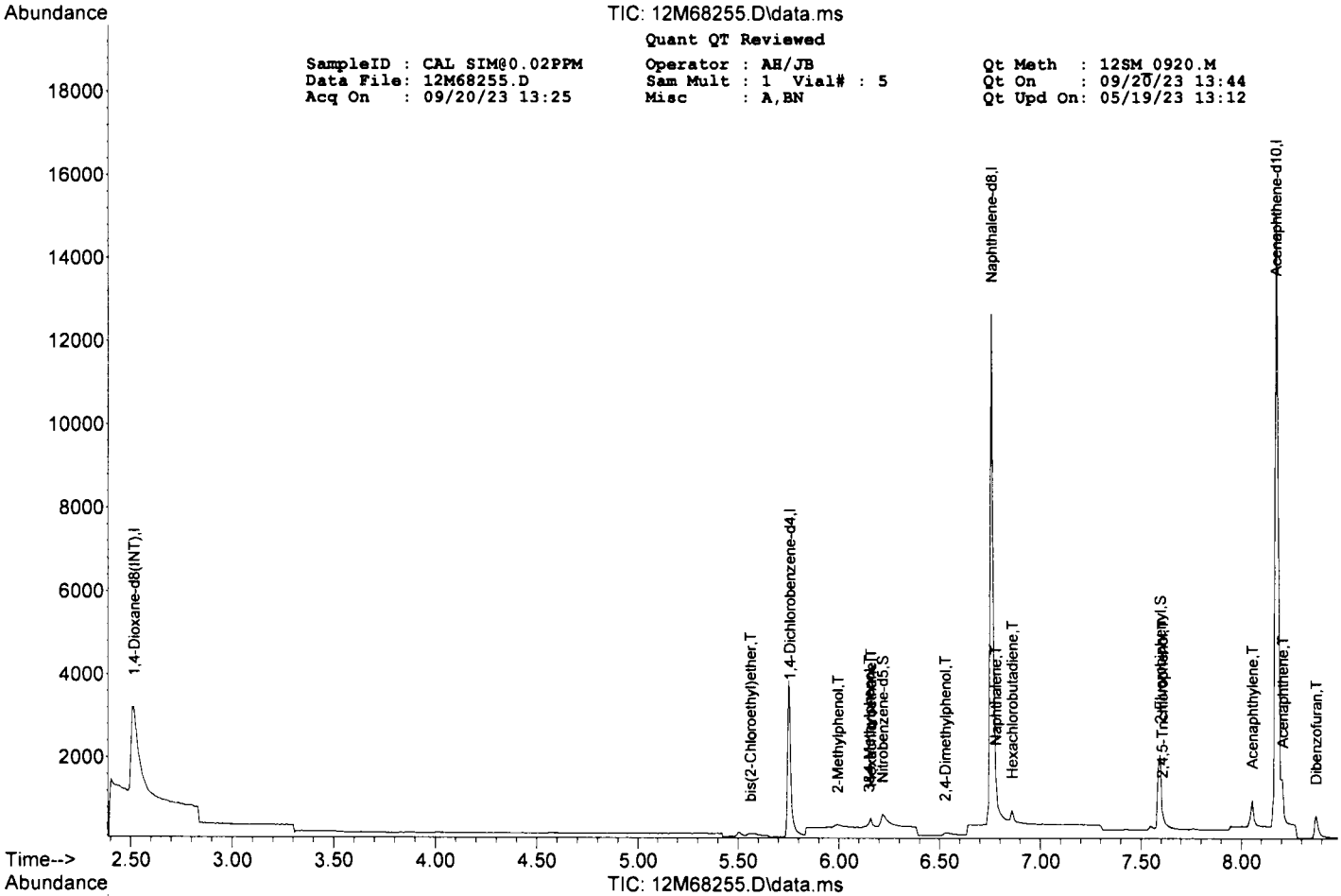
Quantitation Report (QT Reviewed)

SampleID : CAL SIM@0.02PPM Operator : AH/JB Qt Meth : 12SM_0920.M
Data File: 12M68255.D Sam Mult : 1 Vial# : 5 Qt On : 09/20/23 13:44
Acq On : 09/20/23 13:25 Misc : A,BN Qt Upd On: 05/19/23 13:12

Data Path : G:\GcMsData\2023\GCMS_12SM\Data\09-20-23\
Qt Path : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.515	96	31640	0.40	ng	-0.03
3) 1,4-Dichlorobenzene-d4	5.755	152	29231	0.40	ng	-0.02
9) Naphthalene-d8	6.760	136	120952	0.40	ng	-0.03
14) Acenaphthene-d10	8.172	164	66317m	0.40	ng	-0.04
22) Phenanthrene-d10	9.633	188	122457m	0.40	ng	-0.03
31) Chrysene-d12	12.681	240	65225	0.40	ng	-0.04
36) Perylene-d12	14.300	264	52409	0.40	ng	-0.04
System Monitoring Compounds						
10) Nitrobenzene-d5	6.218	82	5085m	0.08	ng	0.00
Spiked Amount 50.000			Recovery = 0.16%			
17) 2-Fluorobiphenyl	7.597	172	18364	0.12	ng	-0.02
Spiked Amount 50.000			Recovery = 0.24%			
33) Terphenyl-d14	11.434	244	23460	0.14	ng	-0.04
Spiked Amount 50.000			Recovery = 0.28%			
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000		0	N.D.		
4) N-Nitrosodimethylamine	0.000		0	N.D.		
5) bis(2-Chloroethyl)ether	5.561	93	1424m	0.0154	ng	
6) 2-Methylphenol	5.993	108	1277m	0.0186	ng	
7) Hexachloroethane	6.159	201	696m	0.0210	ng	
8) 3&4-Methylphenol	6.149	108	1172m	0.0167	ng	
11) 2,4-Dimethylphenol	6.527	107	924m	0.0150	ng	
12) Naphthalene	6.774	128	5609	0.0188	ng	86
13) Hexachlorobutadiene	6.860	225	1230m	0.0214	ng	
15) Hexachlorocyclopentadiene	0.000		0	N.D.		
16) 2,4,5-Trichlorophenol	7.605	196	862m	0.0154	ng	
18) Acenaphthylene	8.054	152	5485m	0.0220	ng	
19) Acenaphthene	8.205	153	3892m	0.0225	ng	
20) Dibenzofuran	8.372	168	5725m	0.0232	ng	
21) Fluorene	8.678	166	3624m	0.0237	ng	
23) 4,6-Dinitro-2-methylph...	0.000		0	N.D.		
24) 1,2-Diphenylhydrazine	8.831	77	4415	0.0368	ng	65
25) Hexachlorobenzene	9.225	284	1361m	0.0236	ng	
26) Pentachlorophenol	0.000		0	N.D.		
27) Phenanthrene	9.653	178	7827m	0.0253	ng	
28) Anthracene	9.714	178	5185m	0.0204	ng	
29) Carbazole	9.900	167	4955m	0.0235	ng	
30) Fluoranthene	10.988	202	7540	0.0252	ng	98
32) Pyrene	11.251	202	7858	0.0209	ng	85
34) Benzo[a]anthracene	12.668	228	3260m	0.0163	ng	
35) Chrysene	12.704	228	5519m	0.0222	ng	
37) Benzo[b]fluoranthene	13.895	252	4057m	0.0186	ng	
38) Benzo[k]fluoranthene	13.922	252	4796m	0.0204	ng	
39) Benzo[a]pyrene	14.236	252	3282m	0.0181	ng	
40) Indeno[1,2,3-cd]pyrene	15.587	276	4293	0.0201	ng	96
41) Dibenzo[a,h]anthracene	15.607	278	3338	0.0194	ng	95
42) Benzo[g,h,i]perylene	15.943	276	4378	0.0222	ng	93

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


Abundance
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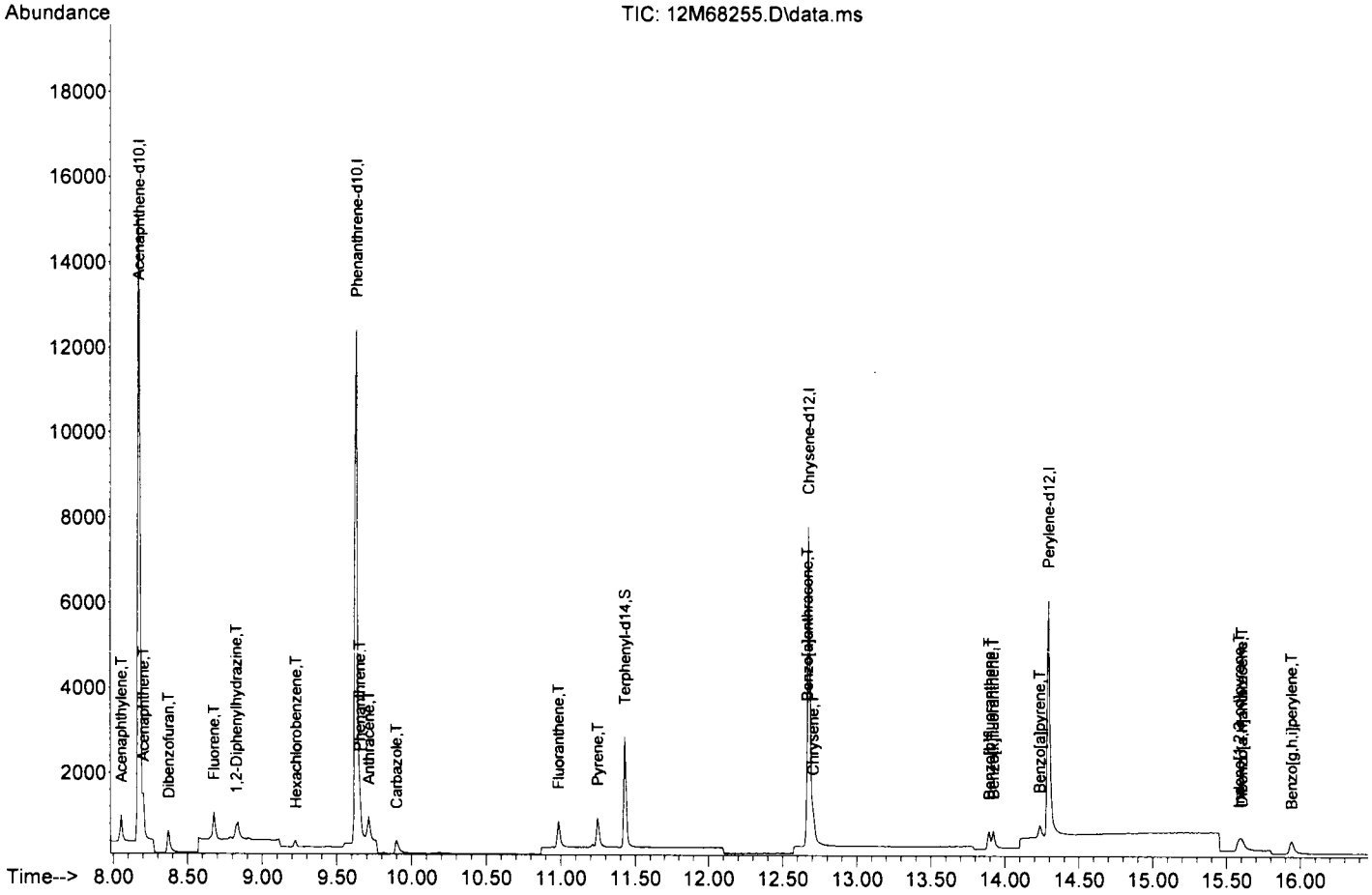
Quant QT Reviewed
SampleID : CAL SIM@0.02PPM
Data File: 12M68255.D
Acq On : 09/20/23 13:25
Operator : AH/JB
Sam Mult : 1 Vial# : 5
Misc : A,BN
Qt Meth : 12SM_0920.M
Qt On : 09/20/23 13:44
Qt Upd On: 05/19/23 13:12
1,4-Dioxane-d8(INT),I
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
Nitrobenzene-d5,S
2,4-Dimethylphenol,T
Naphthalene-d8,I
Naphthalene,T
Hexachlorobutadiene,T
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
Time-->


Abundance
TIC: 12M68255.D\data.ms
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
Fluorene,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Phenanthrene-d10,I
Phenanthrene,T
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Chrysene-d12,I
Chrysene,T
Benzo[a]pyrene,T
Perylene-d12,I
Benzo[g,h,i]perylene,T
Time-->

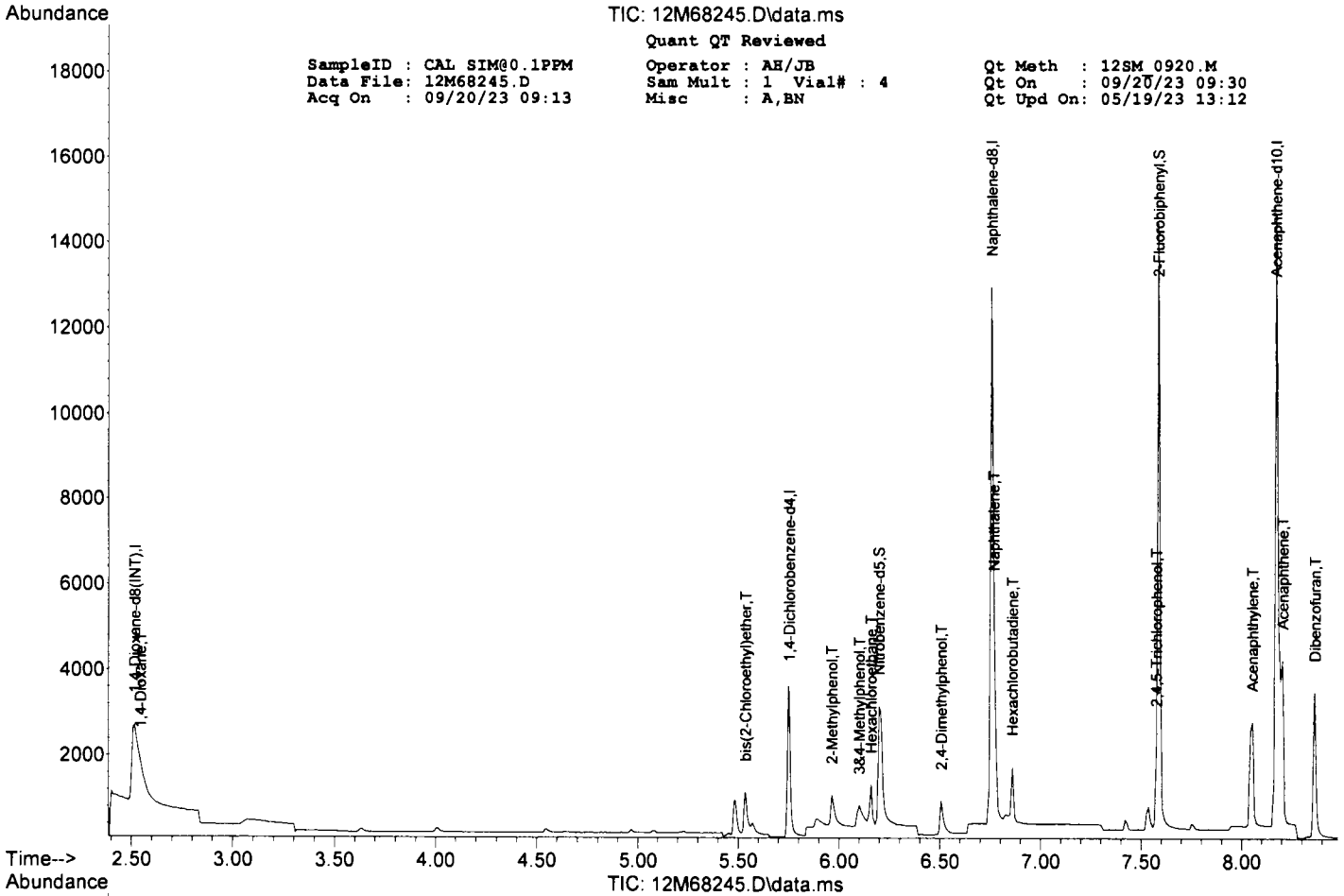
Quantitation Report (QT Reviewed)

SampleID : CAL SIM@0.1PPM Operator : AH/JB Qt Meth : 12SM_0920.M
Data File: 12M68245.D Sam Mult : 1 Vial# : 4 Qt On : 09/20/23 09:30
Acq On : 09/20/23 09:13 Misc : A,BN Qt Upd On: 05/19/23 13:12

Data Path : G:\GcMsData\2023\GCMS_12SM\Data\09-20-23\
Qt Path : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.515	96	26445m	0.40	ng	-0.03
3) 1,4-Dichlorobenzene-d4	5.752	152	23458m	0.40	ng	-0.03
9) Naphthalene-d8	6.760	136	103945	0.40	ng	-0.03
14) Acenaphthene-d10	8.172	164	55297m	0.40	ng	-0.04
22) Phenanthrene-d10	9.623	188	103587m	0.40	ng	-0.04
31) Chrysene-d12	12.677	240	50804m	0.40	ng	-0.04
36) Perylene-d12	14.297	264	44107	0.40	ng	-0.04
System Monitoring Compounds						
10) Nitrobenzene-d5	6.198	82	29903m	0.54	ng	-0.03
Spiked Amount 50.000			Recovery	= 1.08%		
17) 2-Fluorobiphenyl	7.586	172	87618m	0.67	ng	-0.03
Spiked Amount 50.000			Recovery	= 1.34%		
33) Terphenyl-d14	11.432	244	104695	0.81	ng	-0.04
Spiked Amount 50.000			Recovery	= 1.62%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.543	88	5978m	0.0924	ng	
4) N-Nitrosodimethylamine	0.000		0	N.D.		
5) bis(2-Chloroethyl)ether	5.535	93	7813m	0.1056	ng	
6) 2-Methylphenol	5.964	108	6072m	0.1104	ng	
7) Hexachloroethane	6.159	201	3287m	0.1236	ng	
8) 3&4-Methylphenol	6.100	108	5611m	0.0997	ng	
11) 2,4-Dimethylphenol	6.506	107	4659m	0.0880	ng	
12) Naphthalene	6.768	128	29733m	0.1161	ng	
13) Hexachlorobutadiene	6.863	225	5944	0.1201	ng	69
15) Hexachlorocyclopentadiene	0.000		0	N.D. d		
16) 2,4,5-Trichlorophenol	7.576	196	3943m	0.0847	ng	
18) Acenaphthylene	8.054	152	24837m	0.1194	ng	
19) Acenaphthene	8.205	153	18095m	0.1253	ng	
20) Dibenzofuran	8.365	168	26357m	0.1280	ng	
21) Fluorene	8.678	166	16719m	0.1311	ng	
23) 4,6-Dinitro-2-methylph...	0.000		0	N.D.		
24) 1,2-Diphenylhydrazine	8.826	77	23626m	0.2329	ng	
25) Hexachlorobenzene	9.216	284	6227m	0.1277	ng	
26) Pentachlorophenol	0.000		0	N.D.		
27) Phenanthrene	9.653	178	35729m	0.1367	ng	
28) Anthracene	9.704	178	27553m	0.1279	ng	
29) Carbazole	9.889	167	26178m	0.1470	ng	
30) Fluoranthene	10.976	202	34386m	0.1358	ng	
32) Pyrene	11.247	202	36019	0.1229	ng	97
34) Benzo[a]anthracene	12.659	228	20498m	0.1317	ng	
35) Chrysene	12.704	228	22080m	0.1140	ng	
37) Benzo[b]fluoranthene	13.884	252	20794m	0.1133	ng	
38) Benzo[k]fluoranthene	13.916	252	20919m	0.1058	ng	
39) Benzo[a]pyrene	14.236	252	17257	0.1129	ng	93
40) Indeno[1,2,3-cd]pyrene	15.571	276	20866m	0.1161	ng	
41) Dibenzo[a,h]anthracene	15.591	278	17264m	0.1190	ng	
42) Benzo[g,h,i]perylene	15.934	276	19665	0.1182	ng	95

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


Abundance
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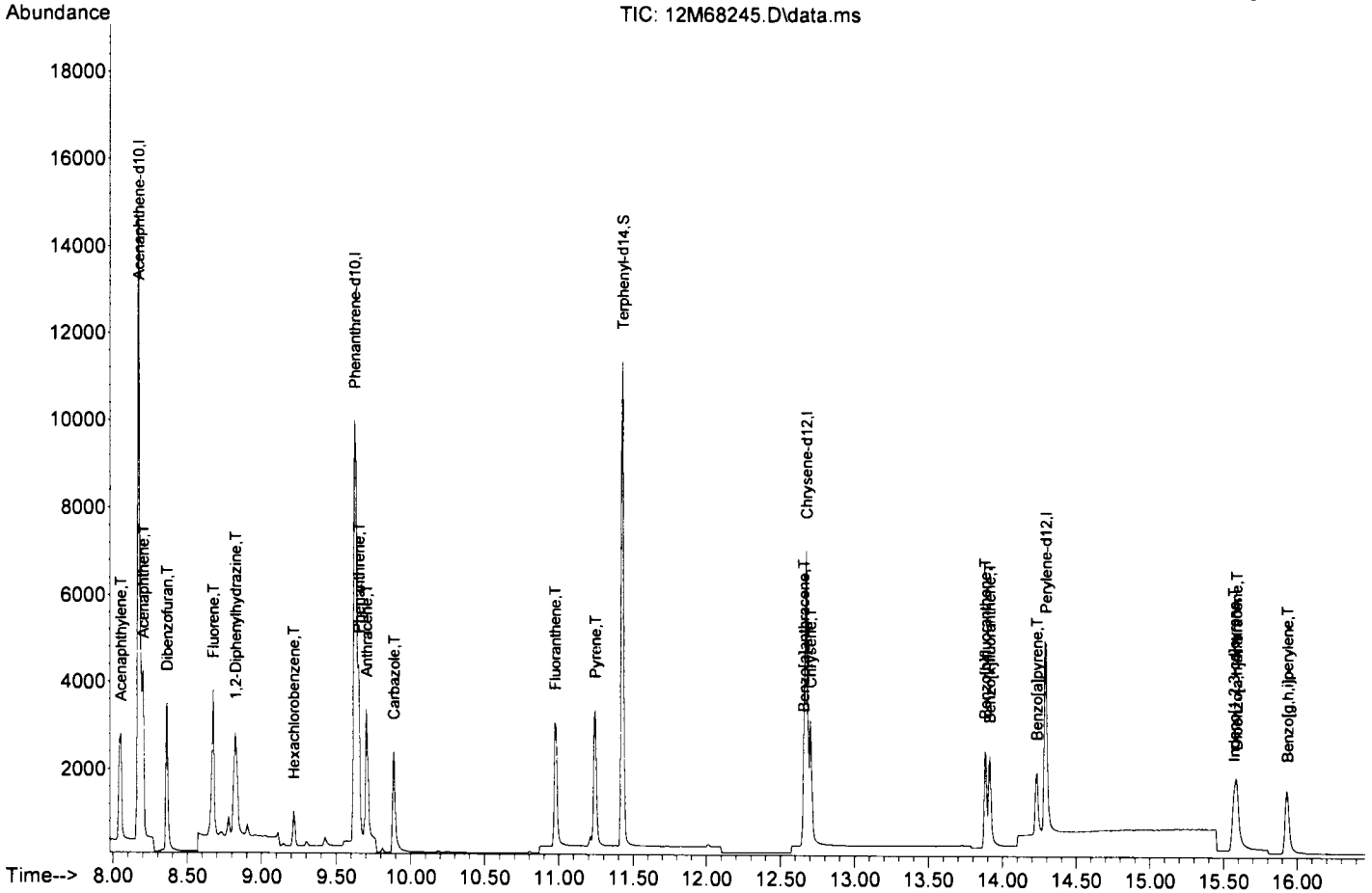
Quant QT Reviewed
SampleID : CAL SIM@0.1PPM
Data File: 12M68245.D
Acq On : 09/20/23 09:13
Operator : AH/JB
Sam Mult : 1 Vial# : 4
Misc : A,BN
Qt Meth : 12SM_0920.M
Qt On : 09/20/23 09:30
Qt Upd On: 05/19/23 13:12
1,4-Dioxane-d8(INT),I
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
Hexachloroethane,T
Nitrobenzene-d5,S
2,4-Dimethylphenol,T
Naphthalene-d8,I
Hexachlorobutadiene,T
2-Fluorobiphenyl,S
2,4,5-Trichlorophenol,T
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
Time-->


Abundance
TIC: 12M68245.D\data.ms
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
Fluorene,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Phenanthrene-d10,I
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Chrysene-d12,I
Benzo[a]anthracene,T
Chrysene,T
Benzo[b]fluoranthene,T
Benzo[k]fluoranthene,T
Benzo[a]pyrene,T
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,T
Dibenz[a,h]anthracene,T
Benzo[g,h,i]perylene,T
Time-->

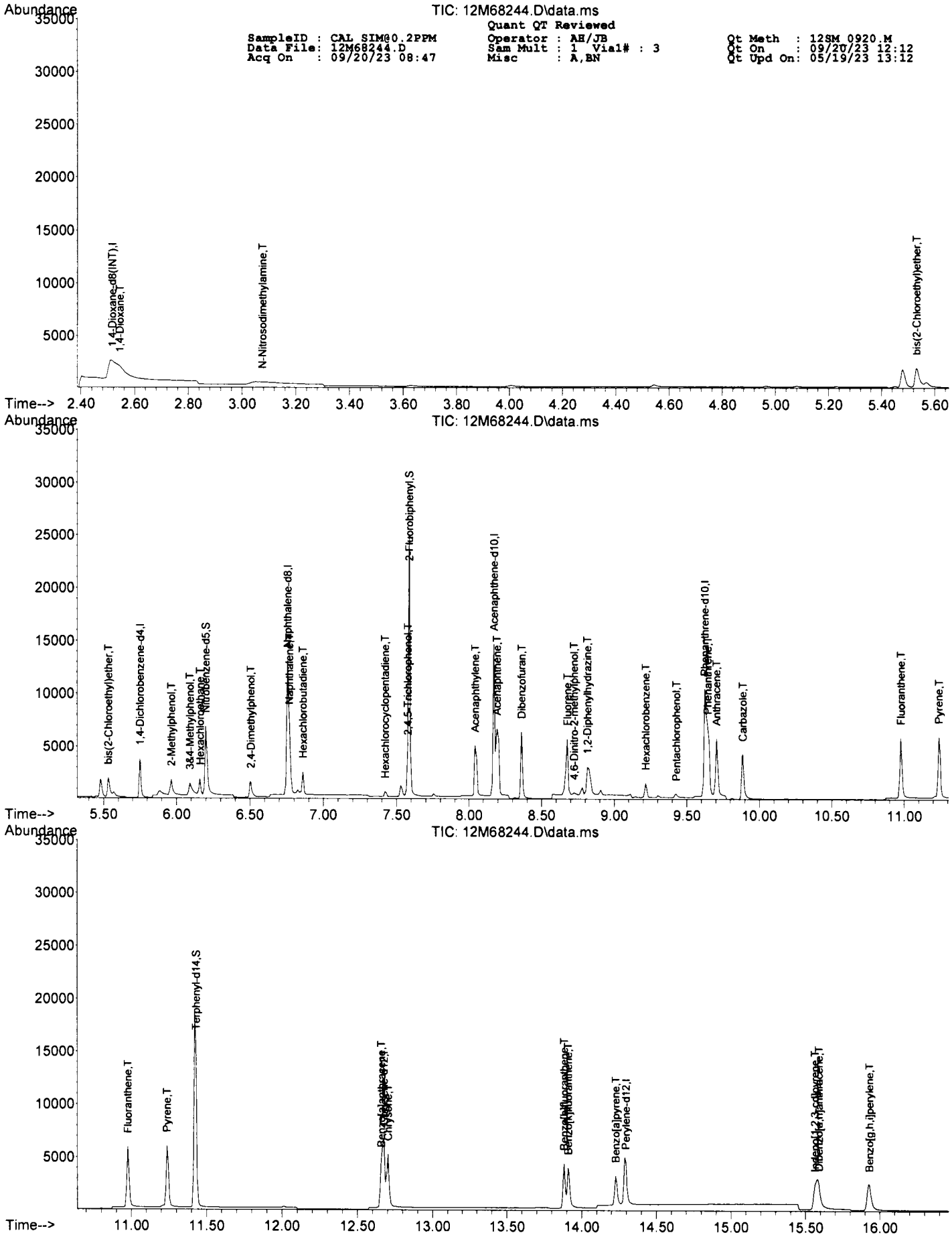
Quantitation Report (QT Reviewed)

SampleID : CAL SIM@0.2PPM Operator : AH/JB Qt Meth : 12SM_0920.M
Data File: 12M68244.D Sam Mult : 1 Vial# : 3 Qt On : 09/20/23 12:12
Acq On : 09/20/23 08:47 Misc : A,BN Qt Upd On: 05/19/23 13:12

Data Path : G:\GcMsData\2023\GCMS_12SM\Data\09-20-23\
Qt Path : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.515	96	25934m	0.40	ng	-0.03
3) 1,4-Dichlorobenzene-d4	5.749	152	22833m	0.40	ng	-0.03
9) Naphthalene-d8	6.760	136	100863	0.40	ng	-0.03
14) Acenaphthene-d10	8.177	164	56507	0.40	ng	-0.03
22) Phenanthrene-d10	9.623	188	99407m	0.40	ng	-0.04
31) Chrysene-d12	12.677	240	48256m	0.40	ng	-0.04
36) Perylene-d12	14.296	264	42978	0.40	ng	-0.04
System Monitoring Compounds						
10) Nitrobenzene-d5	6.202	82	51898	0.96	ng	-0.02
Spiked Amount 50.000			Recovery = 1.92%			
17) 2-Fluorobiphenyl	7.589	172	148485	1.12	ng	-0.03
Spiked Amount 50.000			Recovery = 2.24%			
33) Terphenyl-d14	11.429	244	174497	1.43	ng	-0.04
Spiked Amount 50.000			Recovery = 2.86%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.543	88	10681m	0.1684	ng	
4) N-Nitrosodimethylamine	3.075	74	14578m	0.2470	ng	
5) bis(2-Chloroethyl)ether	5.531	93	15014m	0.2085	ng	
6) 2-Methylphenol	5.964	108	11195m	0.2091	ng	
7) Hexachloroethane	6.162	201	5468	0.2113	ng	92
8) 3&4-Methylphenol	6.091	108	9954m	0.1817	ng	
11) 2,4-Dimethylphenol	6.505	107	7956	0.1548	ng	55
12) Naphthalene	6.771	128	46427	0.1868	ng	99
13) Hexachlorobutadiene	6.863	225	9945	0.2071	ng	68
15) Hexachlorocyclopentadiene	7.420	237	3105m	0.1023	ng	
16) 2,4,5-Trichlorophenol	7.576	196	7389m	0.1553	ng	
18) Acenaphthylene	8.043	152	44036m	0.2072	ng	
19) Acenaphthene	8.194	153	30149m	0.2043	ng	
20) Dibenzofuran	8.361	168	43797m	0.2081	ng	
21) Fluorene	8.678	166	27161m	0.2084	ng	
23) 4,6-Dinitro-2-methylph...	8.723	198	2021m	0.1256	ng	
24) 1,2-Diphenylhydrazine	8.815	77	33236m	0.3415	ng	
25) Hexachlorobenzene	9.216	284	10008m	0.2139	ng	
26) Pentachlorophenol	9.426	266	2825m	0.1202	ng	
27) Phenanthrene	9.643	178	54850m	0.2187	ng	
28) Anthracene	9.704	178	45886m	0.2219	ng	
29) Carbazole	9.886	167	45416	0.2657	ng	97
30) Fluoranthene	10.976	202	55585m	0.2288	ng	
32) Pyrene	11.243	202	59140	0.2124	ng	83
34) Benzo[a]anthracene	12.659	228	29901m	0.2023	ng	
35) Chrysene	12.704	228	33238m	0.1807	ng	
37) Benzo[b]fluoranthene	13.884	252	37039m	0.2070	ng	
38) Benzo[k]fluoranthene	13.911	252	34174m	0.1774	ng	
39) Benzo[a]pyrene	14.228	252	30802m	0.2068	ng	
40) Indeno[1,2,3-cd]pyrene	15.564	276	36800m	0.2102	ng	
41) Dibenzo[a,h]anthracene	15.590	278	28802	0.2038	ng	92
42) Benzo[g,h,i]perylene	15.929	276	33164	0.2046	ng	96

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


Abundance
TIC: 12M68244.D\data.ms
Quant QT Reviewed
SampleID : CAL SIM@0.2PPM
Data File: 12M68244.D
Acq On : 09/20/23 08:47
Operator : AH/JB
Sam Mult : 1 Vial# : 3
Misc : A,BN
Qt Meth : 12SM_0920.M
Qt On : 09/20/23 12:12
Qt Upd On: 05/19/23 13:12
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
Time-->
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Hexachloroethane,T
Nitrobenzene-d5,S
2,4-Dimethylphenol,T
Naphthalene-d8,I
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2-Fluorobiphenyl,S
Acenaphthylene,T
Acenaphthene-d10,I
Dibenzofuran,T
Fluorene,T
4,6-Dinitro-2-methylphenol,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Phenanthrene-d10,I
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Benzo[a]pyrene,T
Perylene-d12,I
Benzo[g,h,i]perylene,T

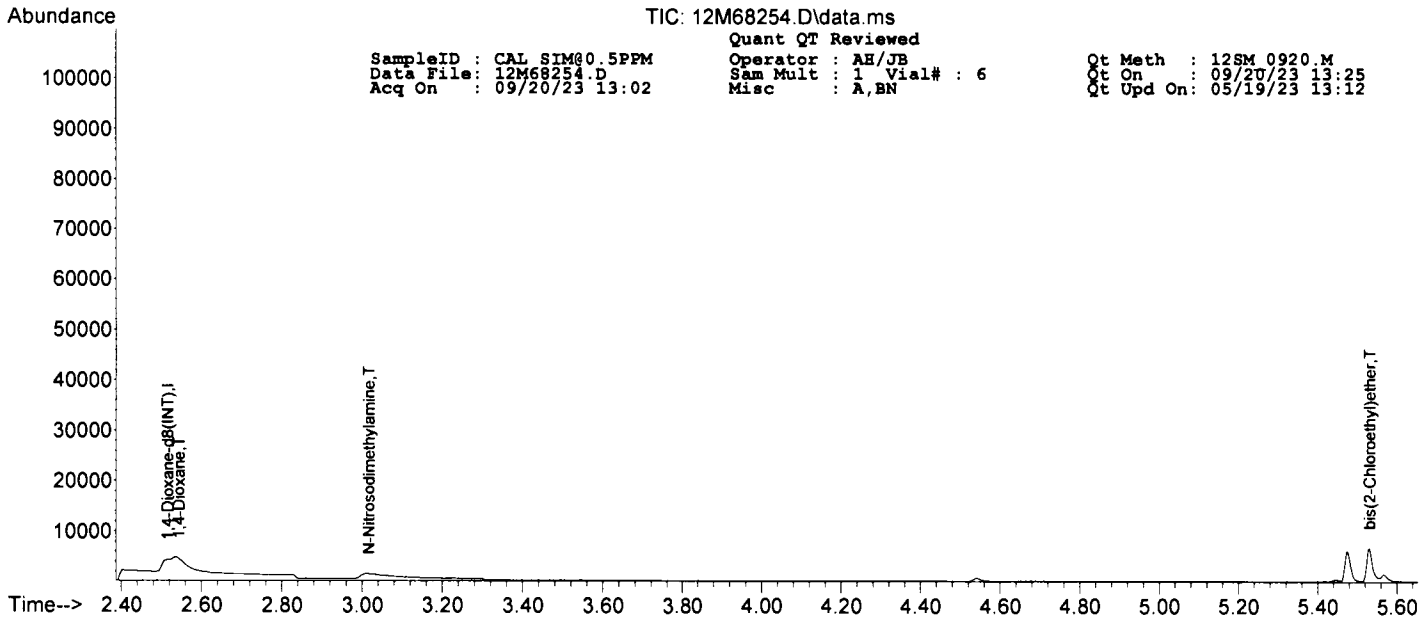
Quantitation Report (QT Reviewed)

SampleID : CAL SIM@0.5PPM Operator : AH/JB Qt Meth : 12SM_0920.M
Data File: 12M68254.D Sam Mult : 1 Vial# : 6 Qt On : 09/20/23 13:25
Acq On : 09/20/23 13:02 Misc : A,BN Qt Upd On: 05/19/23 13:12

Data Path : G:\GcMsData\2023\GCMS_12SM\Data\09-20-23\
Qt Path : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.515	96	31379	0.40	ng	-0.03
3) 1,4-Dichlorobenzene-d4	5.749	152	26778m	0.40	ng	-0.03
9) Naphthalene-d8	6.756	136	118493m	0.40	ng	-0.03
14) Acenaphthene-d10	8.172	164	64265m	0.40	ng	-0.04
22) Phenanthrene-d10	9.623	188	115668m	0.40	ng	-0.04
31) Chrysene-d12	12.675	240	61482m	0.40	ng	-0.04
36) Perylene-d12	14.297	264	50762	0.40	ng	-0.04
System Monitoring Compounds						
10) Nitrobenzene-d5	6.198	82	167922m	2.64	ng	-0.03
Spiked Amount 50.000			Recovery =	5.28%		
17) 2-Fluorobiphenyl	7.589	172	463089	3.08	ng	-0.03
Spiked Amount 50.000			Recovery =	6.16%		
33) Terphenyl-d14	11.431	244	560564	3.62	ng	-0.04
Spiked Amount 50.000			Recovery =	7.24%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.543	88	34205m	0.4457	ng	
4) N-Nitrosodimethylamine	3.016	74	40584m	0.5864	ng	
5) bis(2-Chloroethyl)ether	5.531	93	44815m	0.5308	ng	
6) 2-Methylphenol	5.954	108	25337m	0.4035	ng	
7) Hexachloroethane	6.162	201	16320	0.5376	ng	85
8) 3&4-Methylphenol	6.081	108	34537m	0.5374	ng	
11) 2,4-Dimethylphenol	6.500	107	24932m	0.4130	ng	
12) Naphthalene	6.771	128	152521	0.5223	ng	97
13) Hexachlorobutadiene	6.864	225	29207	0.5178	ng	68
15) Hexachlorocyclopentadiene	7.420	237	11187m	0.3236	ng	
16) 2,4,5-Trichlorophenol	7.570	196	22210	0.4112	ng	83
18) Acenaphthylene	8.050	152	141438	0.5852	ng	96
19) Acenaphthene	8.199	153	97492	0.5809	ng	53
20) Dibenzofuran	8.361	168	133074m	0.5560	ng	
21) Fluorene	8.680	166	88679	0.5984	ng	96
23) 4,6-Dinitro-2-methylph...	8.723	198	6040m	0.3211	ng	
24) 1,2-Diphenylhydrazine	8.817	77	60658	0.5356	ng	77
25) Hexachlorobenzene	9.216	284	30003m	0.5511	ng	
26) Pentachlorophenol	9.418	266	7915m	0.2889	ng	
27) Phenanthrene	9.643	178	164490m	0.5638	ng	
28) Anthracene	9.704	178	141375m	0.5877	ng	
29) Carbazole	9.884	167	123835	0.6226	ng	94
30) Fluoranthene	10.980	202	176158	0.6232	ng	100
32) Pyrene	11.243	202	185616	0.5232	ng	85
34) Benzo[a]anthracene	12.662	228	100906	0.5359	ng	94
35) Chrysene	12.705	228	131569	0.5615	ng	94
37) Benzo[b]fluoranthene	13.882	252	116733m	0.5524	ng	
38) Benzo[k]fluoranthene	13.915	252	122764m	0.5394	ng	
39) Benzo[a]pyrene	14.232	252	94449	0.5368	ng	91
40) Indeno[1,2,3-cd]pyrene	15.563	276	119438m	0.5776	ng	
41) Dibenzo[a,h]anthracene	15.584	278	98512m	0.5900	ng	
42) Benzo[g,h,i]perylene	15.926	276	107838	0.5634	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed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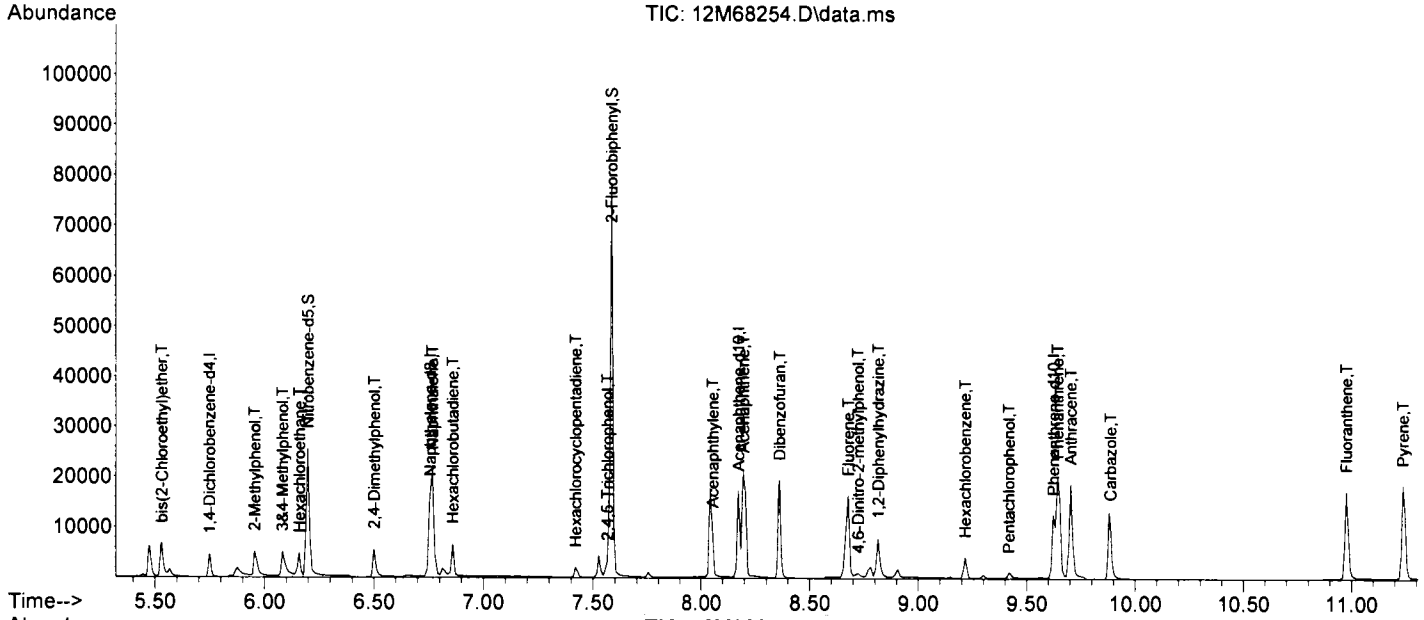
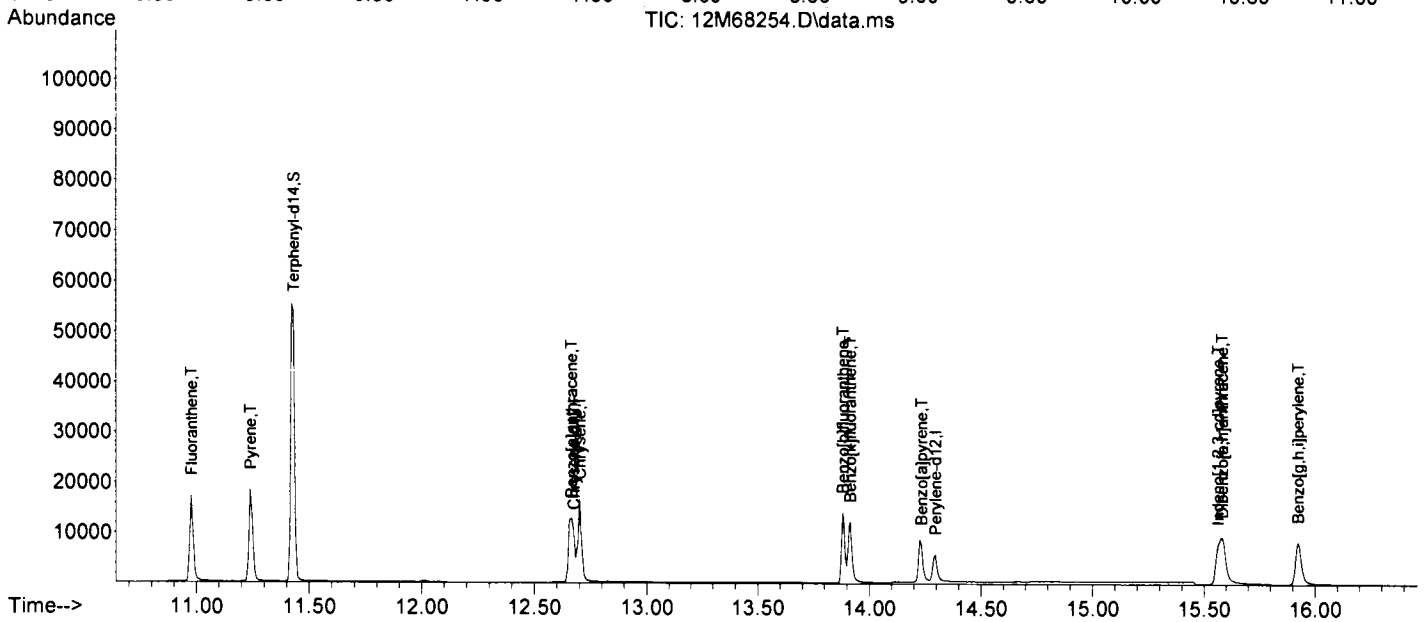
Quant QT Reviewed
SampleID : CAL SIM@0.5PPM
Data File: 12M68254.D
Acq On : 09/20/23 13:02
Operator : AH/JB
Sam Mult : 1 Vial# : 6
Misc : A,BN
Qt Meth : 12SM_0920.M
Qt On : 09/20/23 13:25
Qt Upd On: 05/19/23 13:12
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
Time-->


Abundance
TIC: 12M68254.D\data.ms
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Hexachloroethane,T
Nitrobenzene-d5,S
2,4-Dimethylphenol,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2-Fluorobiphenyl,S
Acenaphthylene,T
Dibenzofuran,T
4,6-Dinitro-2-methylphenol,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Time-->


Abundance
TIC: 12M68254.D\data.ms
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Benzo(a)pyrene,T
Perylene-d12,I
Benzo(g,h,i)perylene,T
Time-->

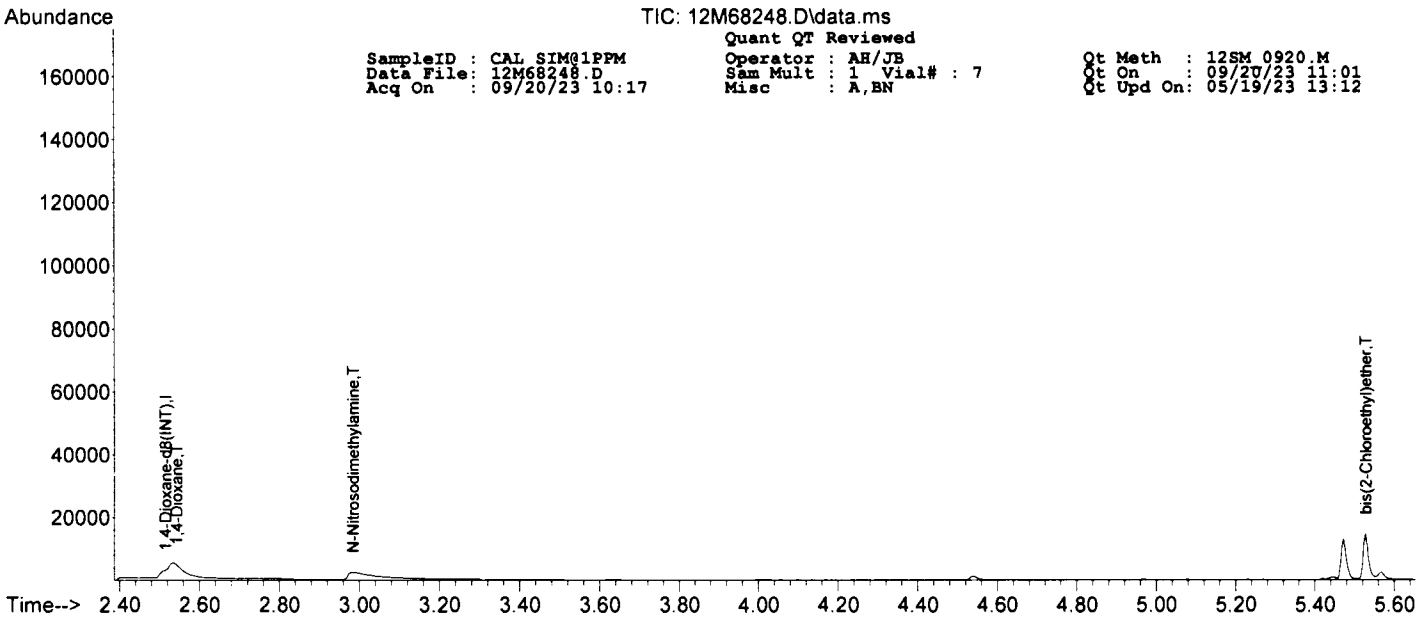
Quantitation Report (QT Reviewed)

SampleID : CAL SIM@1PPM Operator : AH/JB Qt Meth : 12SM_0920.M
Data File: 12M68248.D Sam Mult : 1 Vial# : 7 Qt On : 09/20/23 11:01
Acq On : 09/20/23 10:17 Misc : A,BN Qt Upd On: 05/19/23 13:12

Data Path : G:\GcMsData\2023\GCMS_12SM\Data\09-20-23\
Qt Path : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.515	96	26345	0.40	ng	-0.03
3) 1,4-Dichlorobenzene-d4	5.749	152	23026m	0.40	ng	-0.03
9) Naphthalene-d8	6.759	136	100837	0.40	ng	-0.03
14) Acenaphthene-d10	8.172	164	54238m	0.40	ng	-0.04
22) Phenanthrene-d10	9.623	188	97872m	0.40	ng	-0.04
31) Chrysene-d12	12.677	240	52333m	0.40	ng	-0.04
36) Perylene-d12	14.290	264	42525m	0.40	ng	-0.05
System Monitoring Compounds						
10) Nitrobenzene-d5	6.200	82	288144	5.32	ng	-0.02
Spiked Amount 50.000			Recovery = 10.64%			
17) 2-Fluorobiphenyl	7.589	172	770711	6.15	ng	-0.03
Spiked Amount 50.000			Recovery = 12.30%			
33) Terphenyl-d14	11.426	244	918177	7.03	ng	-0.04
Spiked Amount 50.000			Recovery = 14.06%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.541	88	63095	0.9793	ng	90
4) N-Nitrosodimethylamine	2.984	74	76718m	1.2892	ng	
5) bis(2-Chloroethyl)ether	5.528	93	82260m	1.1330	ng	
6) 2-Methylphenol	5.954	108	59421m	1.1005	ng	
7) Hexachloroethane	6.162	201	29267	1.1212	ng	88
8) 3&4-Methylphenol	6.081	108	58702m	1.0623	ng	
11) 2,4-Dimethylphenol	6.495	107	45662m	0.8889	ng	
12) Naphthalene	6.771	128	266729	1.0733	ng	96
13) Hexachlorobutadiene	6.864	225	52786	1.0996	ng	66
15) Hexachlorocyclopentadiene	7.420	237	24116m	0.8235	ng	
16) 2,4,5-Trichlorophenol	7.565	196	41659	0.9168	ng	73
18) Acenaphthylene	8.049	152	249819	1.2247	ng	87
19) Acenaphthene	8.194	153	162130m	1.1446	ng	
20) Dibenzofuran	8.357	168	223404m	1.1060	ng	
21) Fluorene	8.678	166	147414m	1.1786	ng	
23) 4,6-Dinitro-2-methylph...	8.723	198	12826m	0.7968	ng	
24) 1,2-Diphenylhydrazine	8.818	77	121742	1.2704	ng	65
25) Hexachlorobenzene	9.216	284	54831m	1.1902	ng	
26) Pentachlorophenol	9.418	266	16713m	0.7179	ng	
27) Phenanthrene	9.646	178	286670	1.1612	ng	89
28) Anthracene	9.706	178	259646	1.2755	ng	98
29) Carbazole	9.881	167	231947	1.3781	ng	93
30) Fluoranthene	10.978	202	311391	1.3020	ng	96
32) Pyrene	11.241	202	324157	1.0735	ng	92
34) Benzo[a]anthracene	12.659	228	190058m	1.1858	ng	
35) Chrysene	12.695	228	213112m	1.0685	ng	
37) Benzo[b]fluoranthene	13.879	252	203106m	1.1474	ng	
38) Benzo[k]fluoranthene	13.911	252	196603m	1.0312	ng	
39) Benzo[a]pyrene	14.229	252	166743	1.1313	ng	94
40) Indeno[1,2,3-cd]pyrene	15.564	276	207224m	1.1963	ng	
41) Dibenzo[a,h]anthracene	15.585	278	168835m	1.2071	ng	
42) Benzo[g,h,i]perylene	15.923	276	184004	1.1475	ng	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed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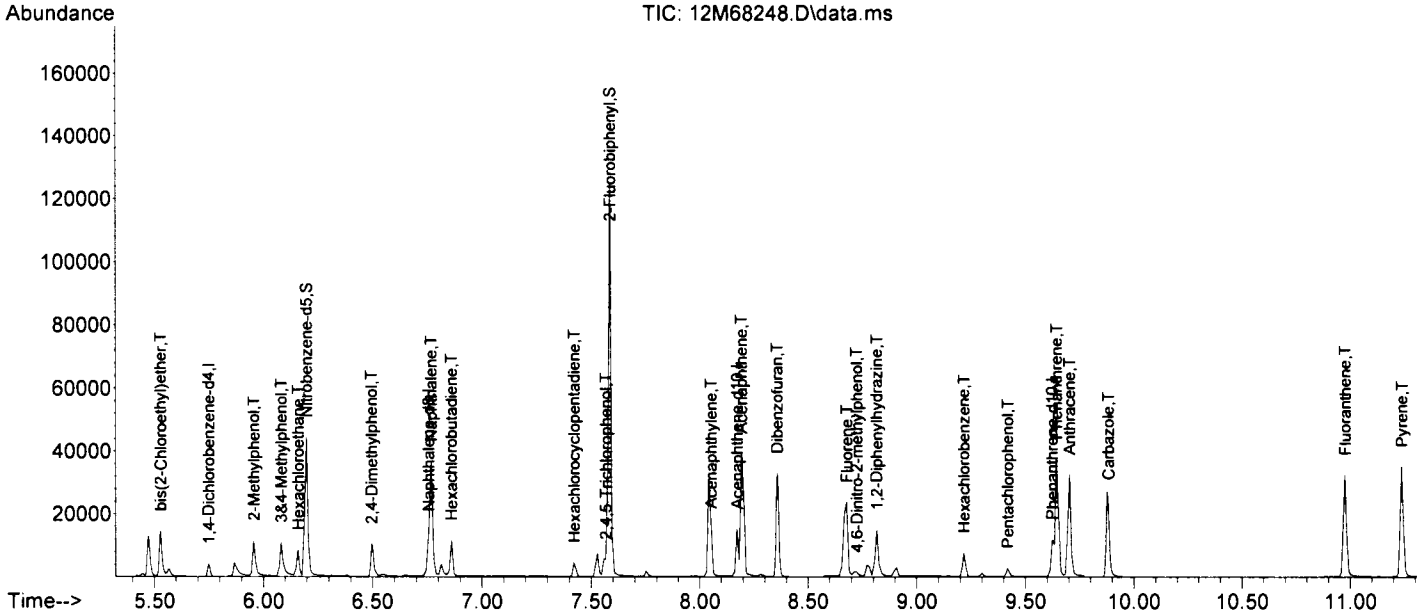
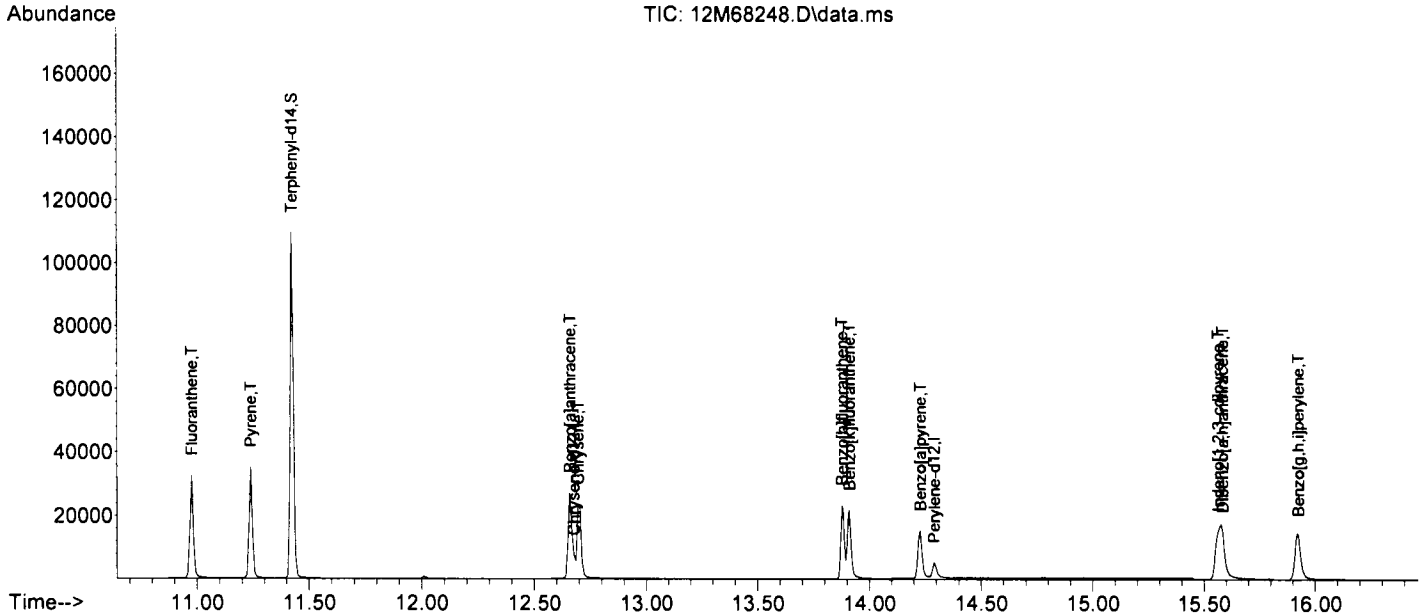
Quant QT Reviewed
SampleID : CAL SIM@1PPM
Data File: 12M68248.D
Acq On : 09/20/23 10:17
Operator : AH/JB
Sam Mult : 1 Vial# : 7
Misc : A,BN
Qt Meth : 12SM_0920.M
Qt On : 09/20/23 11:01
Qt Upd On: 05/19/23 13:12
1,4-Dioxane-d8(INT),I
1,4-Dioxane,I
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
Time-->


Abundance
TIC: 12M68248.D\data.ms
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Hexachloroethane,T
Nitrobenzene-d5,S
2,4-Dimethylphenol,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2-Fluorobiphenyl,S
Acenaphthylene,T
Dibenzofuran,T
Fluorene,T
4,6-Dinitro-2-methylphenol,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Time-->


Abundance
TIC: 12M68248.D\data.ms
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Benzo[a]pyrene,T
Perylene-d12,I
Benzo[g,h,i]perylene,T
Time-->

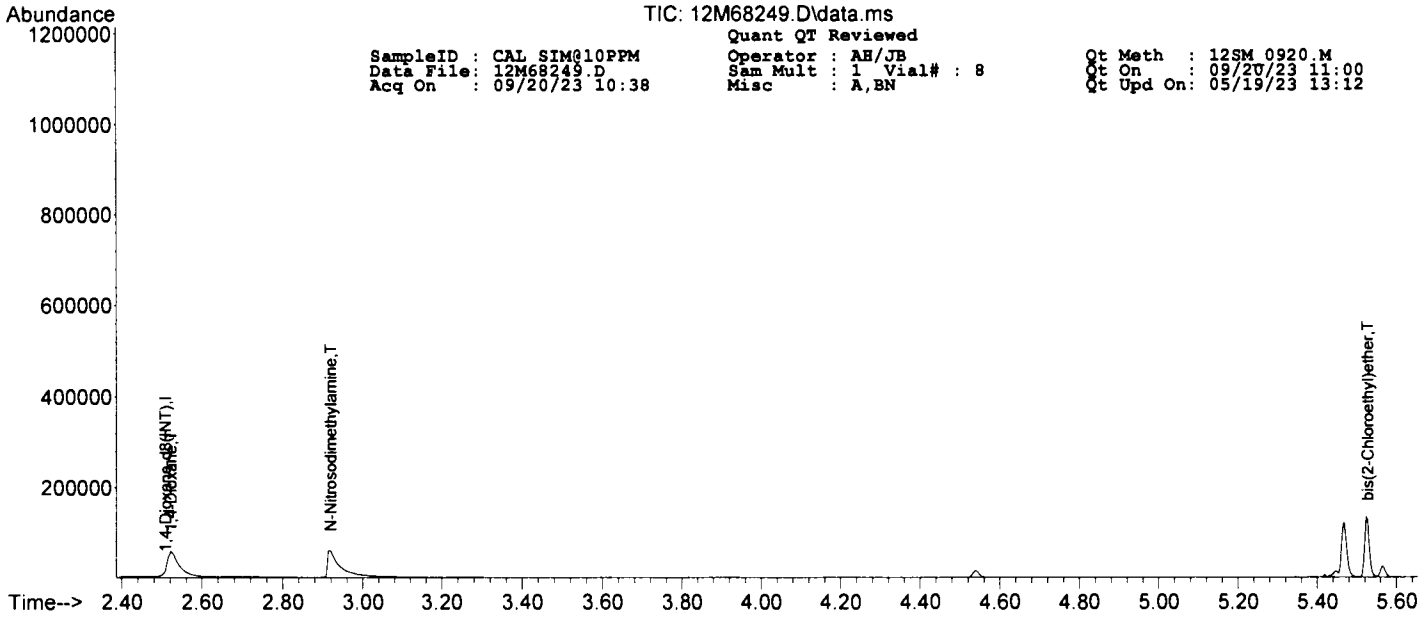
Quantitation Report (QT Reviewed)

SampleID : CAL SIM@10PPM Operator : AH/JB Qt Meth : 12SM_0920.M
Data File: 12M68249.D Sam Mult : 1 Vial# : 8 Qt On : 09/20/23 11:00
Acq On : 09/20/23 10:38 Misc : A,BN Qt Upd On: 05/19/23 13:12

Data Path : G:\GcMsData\2023\GCMS_12SM\Data\09-20-23\
Qt Path : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.507	96	30688	0.40	ng	-0.04
3) 1,4-Dichlorobenzene-d4	5.750	152	24743	0.40	ng	-0.03
9) Naphthalene-d8	6.756	136	116499m	0.40	ng	-0.03
14) Acenaphthene-d10	8.172	164	60122m	0.40	ng	-0.04
22) Phenanthrene-d10	9.623	188	114124m	0.40	ng	-0.04
31) Chrysene-d12	12.668	240	53605m	0.40	ng	-0.05
36) Perylene-d12	14.290	264	48581m	0.40	ng	-0.05
System Monitoring Compounds						
10) Nitrobenzene-d5	6.198	82	2569460	41.06	ng	-0.03
Spiked Amount 50.000			Recovery = 82.12%			
17) 2-Fluorobiphenyl	7.589	172	5492292	46.55	ng	-0.03
Spiked Amount 50.000			Recovery = 93.10%			
33) Terphenyl-d14	11.428	244	6693224	57.15	ng	-0.04
Spiked Amount 50.000			Recovery = 114.30%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.522	88	686887m	9.1526	ng	
4) N-Nitrosodimethylamine	2.921	74	827442	12.9389	ng	95
5) bis(2-Chloroethyl)ether	5.527	93	627040m	8.0371	ng	
6) 2-Methylphenol	5.957	108	626451	10.7962	ng	84
7) Hexachloroethane	6.163	201	273569	9.7528	ng	88
8) 3&4-Methylphenol	6.077	108	641112	10.7961	ng	99
11) 2,4-Dimethylphenol	6.495	107	501522	8.4502	ng	72
12) Naphthalene	6.771	128	2411713	8.3998	ng	90
13) Hexachlorobutadiene	6.864	225	476464	8.5911	ng	66
15) Hexachlorocyclopentadiene	7.426	237	360422	10.3831	ng	69
16) 2,4,5-Trichlorophenol	7.557	196	397884m	8.3011	ng	
18) Acenaphthylene	8.048	152	2558191	11.3140	ng	92
19) Acenaphthene	8.198	153	1469149	9.3572	ng	65
20) Dibenzofuran	8.359	168	1820106	8.1286	ng	90
21) Fluorene	8.675	166	1463531	10.5559	ng	83
23) 4,6-Dinitro-2-methylph...	8.712	198	249226m	10.7695	ng	
24) 1,2-Diphenylhydrazine	8.817	77	1221643	10.9328	ng	70
25) Hexachlorobenzene	9.216	284	531971m	9.9026	ng	
26) Pentachlorophenol	9.418	266	280449m	9.5124	ng	
27) Phenanthrene	9.646	178	2677853	9.3021	ng	95
28) Anthracene	9.705	178	2456947	10.3511	ng	93
29) Carbazole	9.878	167	2043206	10.4108	ng	96
30) Fluoranthene	10.977	202	3065166	10.9909	ng	92
32) Pyrene	11.240	202	3020514	9.7659	ng	95
34) Benzo[a]anthracene	12.659	228	2139323	13.0312	ng	94
35) Chrysene	12.701	228	1894843	9.2746	ng	95
37) Benzo[b]fluoranthene	13.879	252	2077517m	10.2731	ng	
38) Benzo[k]fluoranthene	13.911	252	1560095m	7.1631	ng	
39) Benzo[a]pyrene	14.227	252	1851922	10.9988	ng	88
40) Indeno[1,2,3-cd]pyrene	15.561	276	2145948	10.8440	ng	96
41) Dibenzo[a,h]anthracene	15.583	278	1621747	10.1494	ng	91
42) Benzo[g,h,i]perylene	15.921	276	1796605	9.8072	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed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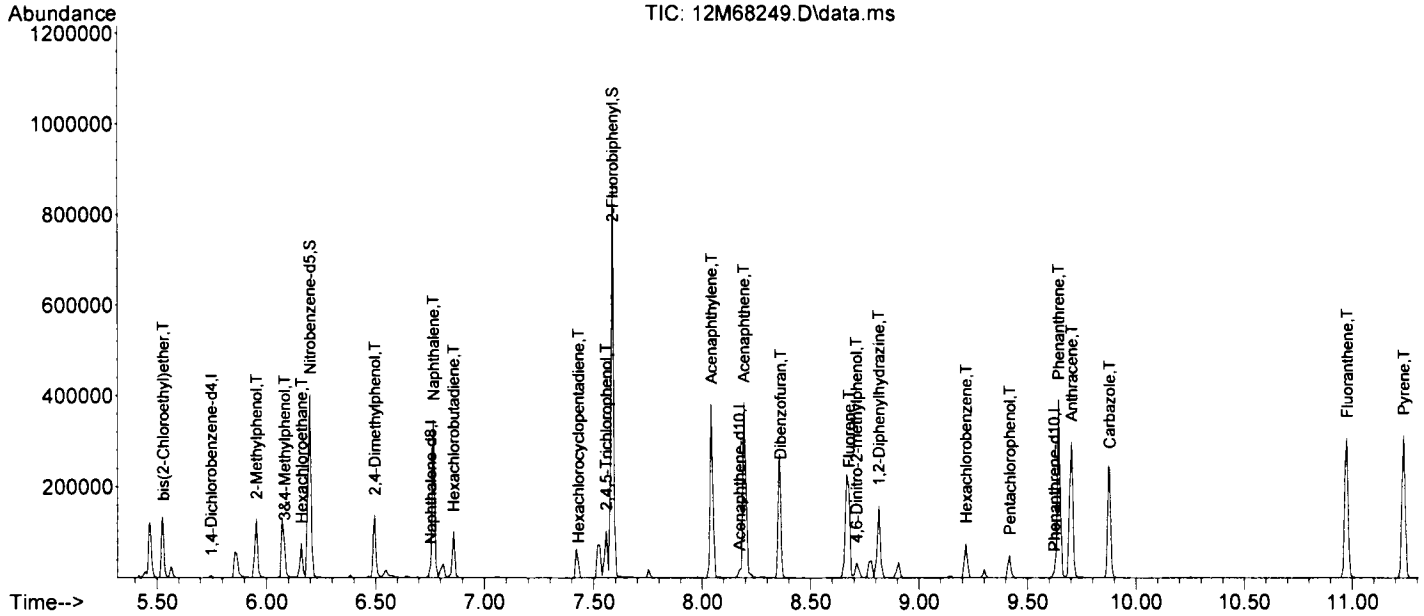
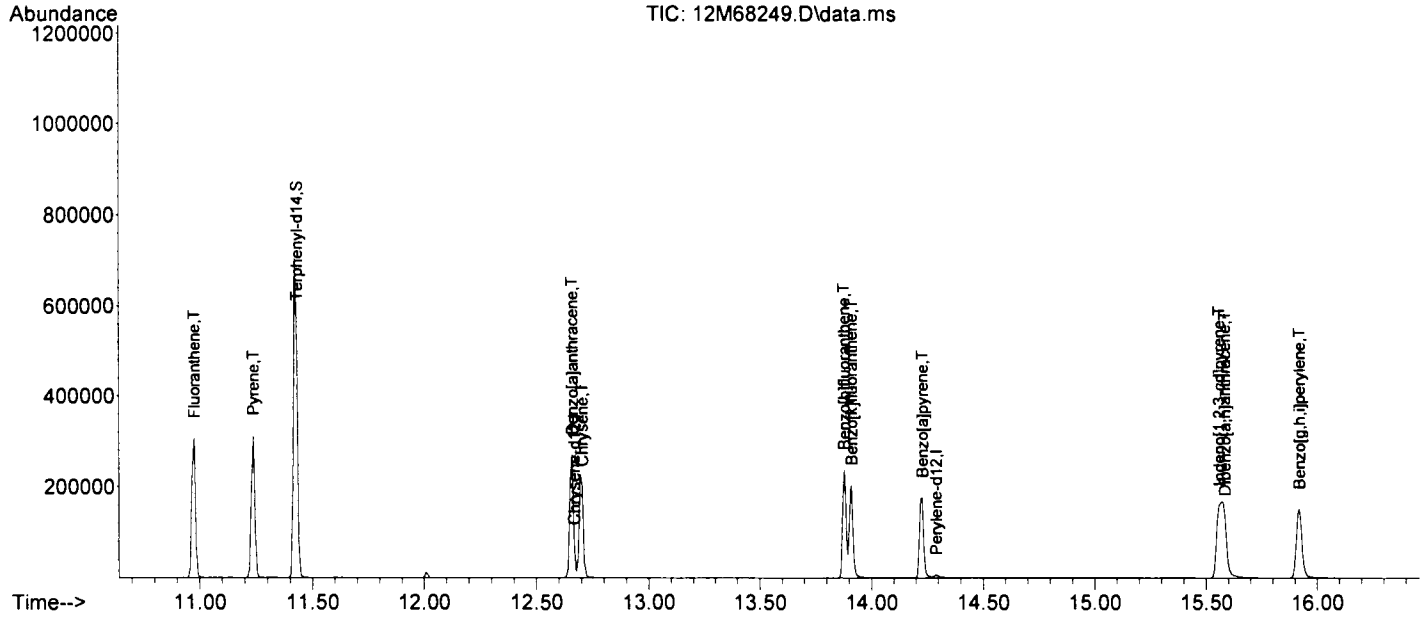
Quant QT Reviewed
SampleID : CAL SIM@10PPM
Data File: 12M68249.D
Acq On : 09/20/23 10:38
Operator : AH/JB
Sam Mult : 1 Vial# : 8
Misc : A,BN
Qt Meth : 12SM_0920.M
Qt On : 09/20/23 11:00
Qt Upd On: 05/19/23 13:12
Abundance
Time-->
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T


TIC: 12M68249.D\data.ms
Abundance
Time-->
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Hexachloroethane,T
Nitrobenzene-d5,S
2,4-Dimethylphenol,T
Naphthalene-d8,I
Naphthalene,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2,4,5-Trichlorophenol,T
2-Fluorobiphenyl,S
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
Fluorene,T
4,6-Dinitro-2-methylphenol,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Phenanthrene-d10,I
Phenanthrene,T
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T


TIC: 12M68249.D\data.ms
Abundance
Time-->
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Chrysene,T
Benzo[a]pyrene,T
Perylene-d12,I
Benzo[g,h,i]perylene,T

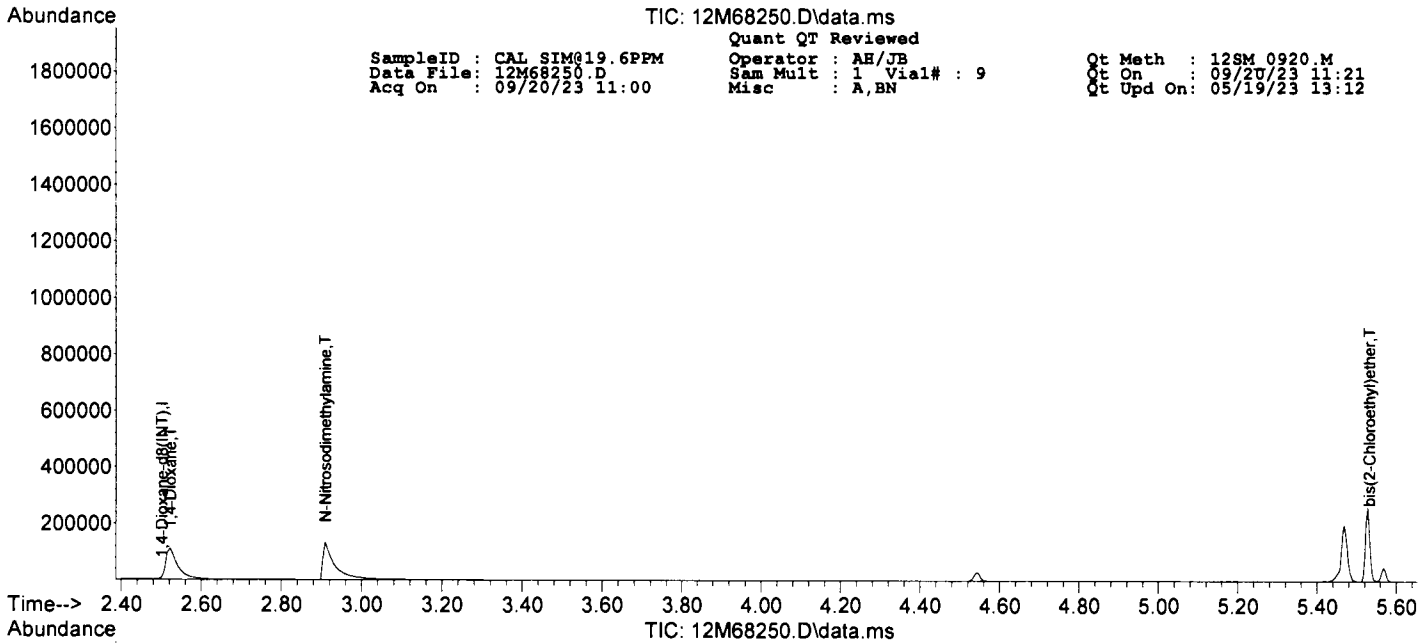
Quantitation Report (QT Reviewed)

SampleID : CAL SIM@19.6PPM Operator : AH/JB Qt Meth : 12SM_0920.M
Data File: 12M68250.D Sam Mult : 1 Vial# : 9 Qt On : 09/20/23 11:21
Acq On : 09/20/23 11:00 Misc : A,BN Qt Upd On: 05/19/23 13:12

Data Path : G:\GcMsData\2023\GCMS_12SM\Data\09-20-23\
Qt Path : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.500	96	31828m	0.40	ng	-0.05
3) 1,4-Dichlorobenzene-d4	5.751	152	26061	0.40	ng	-0.03
9) Naphthalene-d8	6.756	136	121424m	0.40	ng	-0.03
14) Acenaphthene-d10	8.177	164	62691	0.40	ng	-0.03
22) Phenanthrene-d10	9.623	188	119933m	0.40	ng	-0.04
31) Chrysene-d12	12.677	240	51827m	0.40	ng	-0.04
36) Perylene-d12	14.294	264	50161	0.40	ng	-0.04
System Monitoring Compounds						
10) Nitrobenzene-d5	6.200	82	4716038	72.30	ng	-0.02
Spiked Amount 50.000			Recovery = 144.60%			
17) 2-Fluorobiphenyl	7.590	172	9373760	98.90	ng	-0.03
Spiked Amount 50.000			Recovery = 197.80%			
33) Terphenyl-d14	11.433	244	11316456	123.03	ng	-0.04
Spiked Amount 50.000			Recovery = 246.06%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.522	88	1279377m	16.4369	ng	
4) N-Nitrosodimethylamine	2.909	74	1653139m	24.5440	ng	
5) bis(2-Chloroethyl)ether	5.530	93	1173678	14.2833	ng	89
6) 2-Methylphenol	5.957	108	1219534	19.9552	ng	87
7) Hexachloroethane	6.162	201	536026	18.1437	ng	94
8) 3&4-Methylphenol	6.081	108	1232233	19.7016	ng	97
11) 2,4-Dimethylphenol	6.495	107	959479	15.5106	ng	74
12) Naphthalene	6.771	128	4370220	14.6037	ng	87
13) Hexachlorobutadiene	6.864	225	915710	15.8414	ng	65
15) Hexachlorocyclopentadiene	7.426	237	759951	19.7431	ng	69
16) 2,4,5-Trichlorophenol	7.557	196	780655m	16.5615	ng	
18) Acenaphthylene	8.048	152	4582384	19.4361	ng	92
19) Acenaphthene	8.198	153	2640784	16.1304	ng	63
20) Dibenzofuran	8.360	168	3287317	14.0798	ng	92
21) Fluorene	8.678	166	2760015	19.0914	ng	85
23) 4,6-Dinitro-2-methylph...	8.724	198	543014	19.2401	ng	82
24) 1,2-Diphenylhydrazine	8.818	77	2329211	19.8350	ng	90
25) Hexachlorobenzene	9.216	284	1011231m	17.9123	ng	
26) Pentachlorophenol	9.420	266	603608	18.0840	ng	99
27) Phenanthrene	9.646	178	4765897	15.7534	ng	94
28) Anthracene	9.705	178	4535900	18.1840	ng	93
29) Carbazole	9.879	167	3764307	18.2513	ng	100
30) Fluoranthene	10.977	202	5564208	18.9854	ng	95
32) Pyrene	11.241	202	5501852	18.3990	ng	91
34) Benzo[a]anthracene	12.659	228	4053633m	25.5392	ng	
35) Chrysene	12.704	228	3411205m	17.2696	ng	
37) Benzo[b]fluoranthene	13.879	252	3648152m	17.4716	ng	
38) Benzo[k]fluoranthene	13.911	252	3283068m	14.5993	ng	
39) Benzo[a]pyrene	14.228	252	3530933	20.3101	ng	87
40) Indeno[1,2,3-cd]pyrene	15.564	276	4101216	20.0717	ng	95
41) Dibenzo[a,h]anthracene	15.587	278	3099497	18.7867	ng	96
42) Benzo[g,h,i]perylene	15.925	276	3438396	18.1781	ng	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed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SampleID : CAL SIM@19.6PPM
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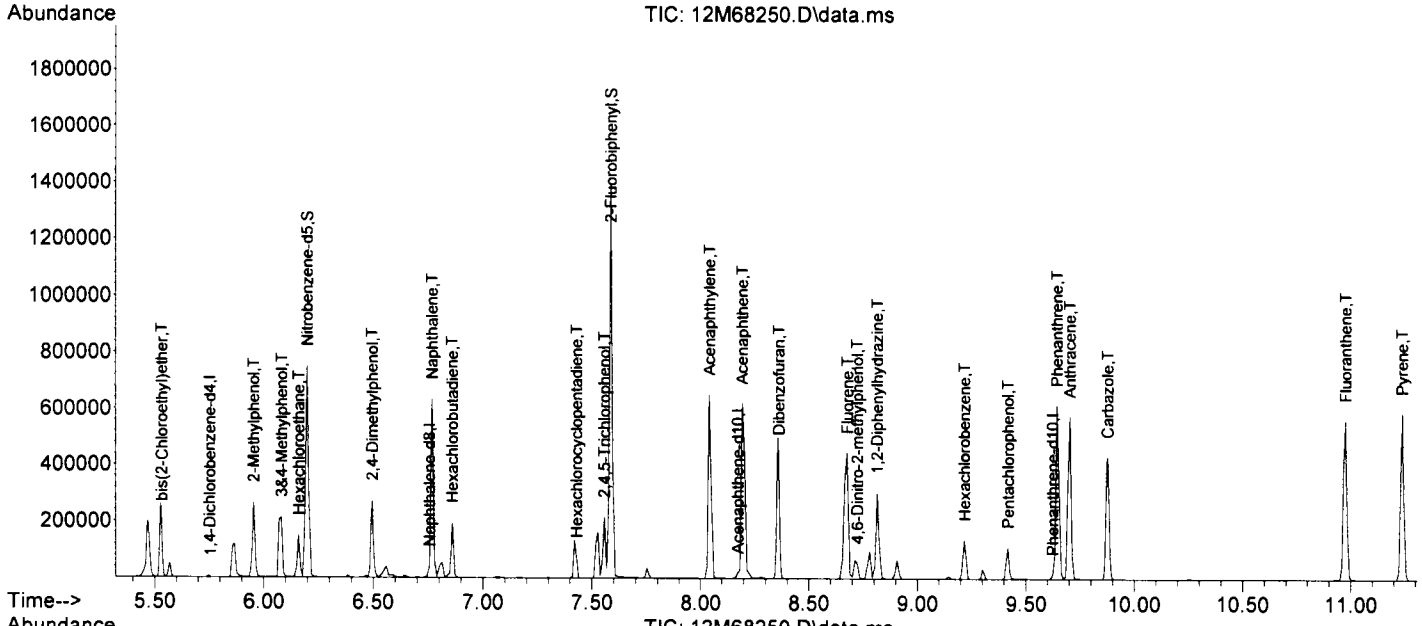
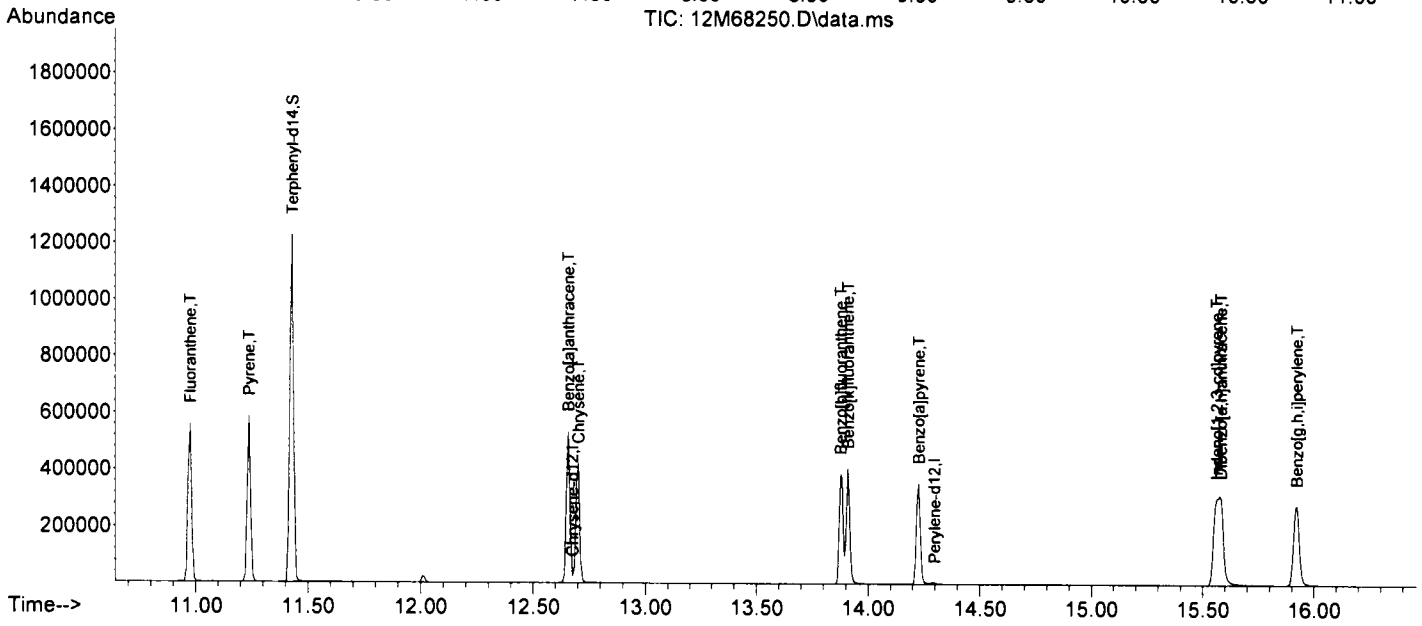
Acq On : 09/20/23 11:00
Operator : AH/JB
Sam Mult : 1 Vial# : 9
Misc : A,BN
Qt Meth : 12SM_0920.M
Qt On : 09/20/23 11:21
Qt Upd On: 05/19/23 13:12
1,4-Dioxane,I
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
Time-->


Abundance
TIC: 12M68250.D\data.ms
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Hexachloroethane,T
Nitrobenzene-d5,S
2,4-Dimethylphenol,T
Naphthalene-d8,I
Naphthalene,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2,4,5-Trichlorophenol,T
2-Fluorobiphenyl,S
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
Fluorene,T
4,6-Dinitro-2-methylphenol,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Phenanthrene-d10,I
Phenanthrene,T
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Time-->


Abundance
TIC: 12M68250.D\data.ms
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Benzo[a]anthracene,T
Chrysene,T
Chrysene-d12,I
Benzo[b]fluoranthene,T
Benzo[k]fluoranthene,T
Benzo[a]pyrene,T
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,T
Dibenz[a,h]anthracene,T
Benzo[g,h,i]perylene,T
Time-->

TxtDfile: 9M124641.D ICV FORM Date/Time: 09/07/23 15:02

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
1.4-Dioxane	1	0		47.9723	50	96		70	130
Pyridine	1	0		39.1537	50	78		50	150
N-Nitrosodimethylamine	1	0		44.5114	50	89		70	130
Benzaldehyde	1	0		42.7357	50	85		50	150
Aniline	1	0		50.9484	50	102		50	150
Pentachloroethane	1	0		43.8683	50	88		70	130
bis(2-Chloroethyl)ether	1	0		46.7023	50	93		70	130
Phenol	1	0		45.4801	50	91		70	130
2-Chlorophenol	1	0		44.8163	50	90		70	130
1.3-Dichlorobenzene	1	0		46.1089	50	92		70	130
1.4-Dichlorobenzene	1	0		45.7914	50	92		70	130
1.2-Dichlorobenzene	1	0		45.7881	50	92		70	130
Benzyl alcohol	1	0		50.9693	50	102		70	130
bis(2-chloroisopropyl)ether	1	0		46.4988	50	93		70	130
2-Methylphenol	1	0		49.1847	50	98		70	130
Acetophenone	1	0		51.7713	50	104		70	130
Hexachloroethane	1	0		46.7506	50	94		70	130
N-Nitroso-di-n-propylamine	1	0		46.2004	50	92		70	130
3&4-Methylphenol	1	0		49.5593	50	99		70	130
Nitrobenzene	1	0		45.1518	50	90		70	130
Isophorone	1	0		45.6157	50	91		70	130
2-Nitrophenol	1	0		45.1088	50	90		70	130
2.4-Dimethylphenol	1	0		59.4907	50	119		70	130
Benzoic Acid	1	0		53.4444	50	107		50	190
bis(2-Chloroethoxy)methane	1	0		45.9883	50	92		70	130
2.4-Dichlorophenol	1	0		45.5036	50	91		70	130
1.2.4-Trichlorobenzene	1	0		47.4522	50	95		70	130
Naphthalene	1	0		44.559	50	89		70	130
4-Chloroaniline	1	0		64.6201	50	129		50	150
Hexachlorobutadiene	1	0		48.0516	50	96		70	130
Caprolactam	1	0		57.1981	50	114		70	130
4-Chloro-3-methylphenol	1	0		45.7949	50	92		70	130
2-Methylnaphthalene	1	0		46.4291	50	93		70	130
1-Methylnaphthalene	1	0		50.2555	50	101		70	130
1.1'-Biphenyl	1	0		43.4301	50	87		70	130
1.2.4.5-Tetrachlorobenzene	1	0		52.2429	50	104		70	130
Hexachlorocyclopentadiene	1	0		50.5781	50	101		70	130
2.4.6-Trichlorophenol	1	0		44.6883	50	89		70	130
2.4.5-Trichlorophenol	1	0		47.6208	50	95		70	130
2-Chloronaphthalene	1	0		46.7141	50	93		70	130
1.4-Dimethylnaphthalene	1	0		44.1909	50	88		70	130
Diphenyl Ether	1	0		53.9219	50	108		70	130
2-Nitroaniline	1	0		49.0989	50	98		70	130
Acenaphthylene	1	0		48.7434	50	97		70	130
Dimethylphthalate	1	0		47.2277	50	94		70	130
2.6-Dinitrotoluene	1	0		45.8614	50	92		70	130
Acenaphthene	1	0		45.4234	50	91		70	130
3-Nitroaniline	1	0		48.422	50	97		70	130
2.4-Dinitrophenol	1	0		44.1778	50	88		70	130
Dibenzofuran	1	0		46.16	50	92		70	130
2.4-Dinitrotoluene	1	0		46.0208	50	92		70	130
4-Nitrophenol	1	0		47.3134	50	95		70	130
2.3.4.6-Tetrachlorophenol	1	0		39.6387	50	79		70	130
Fluorene	1	0		48.3639	50	97		70	130
4-Chlorophenyl-phenylether	1	0		47.0355	50	94		70	130
Diethylphthalate	1	0		46.5171	50	93		70	130
4-Nitroaniline	1	0		48.3075	50	97		70	130
Atrazine	1	0		53.4887	50	107		70	130
4.6-Dinitro-2-methylphenol	1	0		49.0347	50	98		70	130
n-Nitrosodiphenylamine	1	0		39.8878	50	80		70	130
1.2-Diphenylhydrazine	1	0		43.5055	50	87		70	130
4-Bromophenyl-phenylether	1	0		47.0457	50	94		70	130
Hexachlorobenzene	1	0		46.2097	50	92		70	130
Pentachlorophenol	1	0		46.8879	50	94		70	130
Phenanthrene	1	0		46.7007	50	93		70	130
Anthracene	1	0		46.9505	50	94		70	130
Carbazole	1	0		46.3746	50	93		70	130
Di-n-butylphthalate	1	0		47.6763	50	95		70	130
Fluoranthene	1	0		46.2619	50	93		70	130
Pyrene	1	0		46.3541	50	93		70	130
Benzidine	1	0		35.8031	50	72		30	200
Butylbenzylphthalate	1	0		49.5923	50	99		70	130
3.3'-Dichlorobenzidine	1	0		45.7945	50	92		50	150
Benzo[a]anthracene	1	0		46.7733	50	94		70	130
Chrysene	1	0		47.0711	50	94		70	130
bis(2-Ethylhexyl)phthalate	1	0		49.3566	50	99		70	130
Di-n-octylphthalate	1	0		46.1689	50	92		70	130
Benzo[b]fluoranthene	1	0		47.6571	50	95		70	130
Benzo[k]fluoranthene	1	0		46.282	50	93		70	130
Benzo[a]pyrene	1	0		49.879	50	100		70	130
Indeno[1.2.3-cd]pyrene	1	0		47.2647	50	95		70	130
Dibenzo[a.h]anthracene	1	0		48.7864	50	98		70	130
Benzo[g.h.i]perylene	1	0		49.6686	50	99		70	130

TxtDfile: 12M68256.D ICV FORM Date/Time: 09/20/23 13:47

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
1,4-Dioxane	1	0		5.3632	5	107		70	130
N-Nitrosodimethylamine	1	0		5.1914	5	104		70	130
Naphthalene	1	0		4.7351	5	95		70	130
Acenaphthylene	1	0		5.1247	5	102		70	130
Acenaphthene	1	0		4.8945	5	98		70	130
Fluorene	1	0		4.7263	5	95		70	130
Hexachlorobenzene	1	0		4.7068	5	94		70	130
Pentachlorophenol	1	0		5.0016	5	100		70	130
Phenanthrene	1	0		4.9631	5	99		70	130
Anthracene	1	0		4.9087	5	98		70	130
Fluoranthene	1	0		4.8738	5	97		70	130
Pyrene	1	0		4.476	5	90		70	130
Benzo[a]anthracene	1	0		5.2963	5	106		70	130
Chrysene	1	0		4.5804	5	92		70	130
Benzo[b]fluoranthene	1	0		4.8753	5	98		70	130
Benzo[k]fluoranthene	1	0		5.0373	5	101		70	130
Benzo[a]pyrene	1	0		5.0859	5	102		70	130
Indeno[1,2,3-cd]pyrene	1	0		5.4011	5	108		70	130
Dibenzo[a,h]anthracene	1	0		5.2587	5	105		70	130
Benzo[g,h,i]perylene	1	0		4.7326	5	95		70	130

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M124816.D **Instrument:** GCMS 9

Cont Calibration Date/Time 10/3/2023 9:37:00 A 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	3.30	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		3.33	50.85	50	**		0.993	1.010	1.71	
Pyridine	1	0		3.68	49.86	50	**		2.564	2.557	0.28	
N-Nitrosodimethylamine	1	0		3.63	56.16	50	**		1.491	1.674	12.31	
2-Fluorophenol	1	0	S	4.90	56.21	50	**		2.194	2.466	12.42	
Benzaldehyde	1	0		5.65	44.21	50	20	0.01	1.994	1.763	11.59	
Aniline	1	0		5.73	56.20	50	**		3.213	3.611	12.40	
Pentachloroethane	1	0		5.77	56.28	50	**	0.05	0.810	0.912	12.56	
bis(2-Chloroethyl)ether	1	0		5.78	56.18	50	20	0.7	2.466	2.771	12.36	
Phenol-d5	1	0	S	5.68	58.18	50	**		2.745	3.195	16.37	
Phenol	1	0		5.70	57.51	50	20	0.8	3.211	3.693	15.02	
2-Chlorophenol	1	0		5.83	59.88	50	20	0.8	2.305	2.760	19.76	
N-Decane	1	0		5.86	52.31	50	**	0.05	2.479	2.593	4.62	
1,3-Dichlorobenzene	1	0		5.95	57.13	50	**		2.533	2.895	14.25	
1,4-Dichlorobenzene-d4	1	0	I	6.00	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		6.01	50.34	50	20		1.502	1.512	0.68	
1,2-Dichlorobenzene	1	0		6.13	50.86	50	**		1.420	1.445	1.73	
Benzyl alcohol	1	0		6.10	53.99	50	**		0.810	0.874	7.97	
bis(2-chloroisopropyl)ether	1	0		6.20	47.94	50	20	0.01	1.616	1.550	4.11	
2-Methylphenol	1	0		6.18	51.79	50	20	0.7	1.183	1.226	3.58	
Acetophenone	1	0		6.30	50.62	50	20	0.01	1.825	1.847	1.23	
Hexachloroethane	1	0		6.39	51.20	50	20	0.3	0.562	0.576	2.39	
N-Nitroso-di-n-propylamine	1	0		6.30	48.29	50	20	0.5	1.002	0.968	3.42	
3&4-Methylphenol	1	0		6.30	51.85	50	20		1.251	1.297	3.70	
Naphthalene-d8	1	0	I	6.97	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.42	25.06	25	**		0.165	0.165	0.26	
Nitrobenzene	1	0		6.44	47.98	50	20	0.2	0.372	0.357	4.04	
Isophorone	1	0		6.62	49.20	50	20	0.4	0.694	0.683	1.59	
2-Nitrophenol	1	0		6.68	51.79	50	20	0.1	0.184	0.190	3.57	
2,4-Dimethylphenol	1	0		6.70	51.92	50	20	0.2	0.253	0.262	3.84	
Benzoic Acid	1	0		6.76	50.15	50	**		0.212	0.221	0.31	
bis(2-Chloroethoxy)methane	1	0		6.77	48.81	50	20	0.3	0.426	0.416	2.38	
2,4-Dichlorophenol	1	0		6.85	54.62	50	20	0.2	0.268	0.292	9.23	
1,2,4-Trichlorobenzene	1	0		6.92	51.66	50	**		0.302	0.312	3.31	
Naphthalene	1	0		6.98	48.61	50	20	0.7	1.084	1.054	2.79	
4-Chloroaniline	1	0		7.02	51.33	50	20	0.01	0.382	0.392	2.66	
Hexachlorobutadiene	1	0		7.07	52.69	50	20	0.01	0.168	0.177	5.39	
Caprolactam	1	0		7.31	53.82	50	20	0.01	0.106	0.114	7.63	
4-Chloro-3-methylphenol	1	0		7.37	52.55	50	20	0.2	0.280	0.295	5.10	
2-Methylnaphthalene	1	0		7.52	51.07	50	**	0.4	0.681	0.696	2.14	
1-Methylnaphthalene	1	0		7.60	49.60	50	**	0.4	0.656	0.651	0.80	
Methylnaphthalenes	1	0		7.60	100.88	50	**			1.337	101.75	
1,1'-Biphenyl	1	0		7.89	50.99	50	20	0.01	0.808	0.824	1.97	
Acenaphthene-d10	1	0	I	8.40	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.65	54.64	50	20	0.01	0.547	0.598	9.28	
Hexachlorocyclopentadiene	1	0		7.64	55.16	50	20	0.05	0.237	0.261	10.32	
2,4,6-Trichlorophenol	1	0		7.74	52.82	50	20	0.2	0.353	0.373	5.65	
2,4,5-Trichlorophenol	1	0		7.77	49.97	50	20	0.2	0.367	0.367	0.07	
2-Fluorobiphenyl	1	0	S	7.80	26.51	25	**		1.288	1.366	6.05	
2-Chloronaphthalene	1	0		7.92	51.12	50	20	0.8	1.140	1.166	2.24	
1,4-Dimethylnaphthalene	1	0		8.20	50.66	50	**		0.898	0.909	1.32	
Dimethylnaphthalenes	1	0		8.20	50.66	50	20			0.909	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:** 9M124816.D **Instrument:** GCMS 9

Cont Calibration Date/Time 10/3/2023 9:37:00 A 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		7.98	53.76	50	**		0.751	0.807	7.52	
2-Nitroaniline	1	0		8.00	49.07	50	20	0.01	0.401	0.394	1.86	
Coumarin	1	0		8.18	50.39		**		0.447			
Acenaphthylene	1	0		8.28	50.84	50	20	0.9	1.692	1.720	1.68	
Dimethylphthalate	1	0		8.14	52.62	50	20	0.01	1.220	1.283	5.23	
2,6-Dinitrotoluene	1	0		8.20	52.50	50	20	0.2	0.280	0.294	4.99	
Acenaphthene	1	0		8.43	51.83	50	20	0.9	1.168	1.211	3.65	
3-Nitroaniline	1	0		8.35	54.62	50	20	0.01	0.302	0.330	9.24	
2,4-Dinitrophenol	1	0		8.44	60.94	50	20	0.2	0.128	0.170	21.88	C1
Dibenzofuran	1	0		8.58	50.37	50	20	0.8	1.599	1.610	0.74	
2,4-Dinitrotoluene	1	0		8.55	55.69	50	20	0.2	0.362	0.403	11.38	
4-Nitrophenol	1	0		8.48	51.99	50	20	0.01	0.231	0.240	3.99	
2,3,4,6-Tetrachlorophenol	1	0		8.69	55.65	50	20	0.01	0.306	0.341	11.29	
Fluorene	1	0		8.91	51.59	50	20	0.9	1.286	1.327	3.17	
4-Chlorophenyl-phenylether	1	0		8.90	52.76	50	20	0.4	0.610	0.644	5.53	
Diethylphthalate	1	0		8.77	51.30	50	20	0.01	1.208	1.240	2.61	
4-Nitroaniline	1	0		8.92	52.28	50	20	0.01	0.337	0.352	4.55	
Atrazine	1	0		9.55	53.38	50	20	0.01	0.322	0.344	6.76	
Phenanthrene-d10	1	0	I	9.87	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.94	62.65	50	20	0.01	0.106	0.133	25.30	C1
n-Nitrosodiphenylamine	1	0		9.01	51.30	50	20	0.01	0.623	0.639	2.60	
2,4,6-Tribromophenol	1	0	S	9.14	59.30	50	**		0.092	0.109	18.60	
1,2-Diphenylhydrazine	1	0		9.05	49.84	50	**		0.818	0.815	0.31	
4-Bromophenyl-phenylether	1	0		9.39	52.87	50	20	0.1	0.208	0.220	5.74	
Hexachlorobenzene	1	0		9.46	54.43	50	20	0.1	0.222	0.242	8.87	
N-Octadecane	1	0		9.72	48.54	50	**	0.05	0.444	0.431	2.92	
Pentachlorophenol	1	0		9.66	59.12	50	20	0.05	0.133	0.157	18.24	
Phenanthrene	1	0		9.90	50.99	50	20	0.7	1.055	1.076	1.99	
Anthracene	1	0		9.95	51.11	50	20	0.7	1.081	1.105	2.22	
Carbazole	1	0		10.12	51.40	50	20	0.01	1.004	1.032	2.79	
Di-n-butylphthalate	1	0		10.50	52.85	50	20	0.01	1.194	1.262	5.70	
Fluoranthene	1	0		11.24	52.74	50	20	0.6	1.186	1.251	5.49	
Chrysene-d12	1	0	I	12.94	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.50	51.24	50	20	0.6	1.279	1.310	2.47	
Benzidine	1	0		11.40	54.66	50	**		0.472	0.516	9.33	
Terphenyl-d14	1	0	S	11.68	26.27	25	**		0.828	0.870	5.07	
4,4'-DDE	1	0		11.62	51.14		**		0.253			
4,4'-DDD	1	0		12.02	51.39		**		0.426			
Butylbenzylphthalate	1	0		12.27	53.18	50	20	0.01	0.526	0.559	6.36	
4,4'-DDT	1	0		12.38	62.15		**		0.296			
3,3'-Dichlorobenzidine	1	0		12.90	59.44	50	20	0.01	0.380	0.452	18.89	
Benzo[a]anthracene	1	0		12.92	52.66	50	20	0.8	1.203	1.267	5.33	
Chrysene	1	0		12.97	49.28	50	20	0.7	1.153	1.137	1.44	
bis(2-Ethylhexyl)phthalate	1	0		12.97	52.32	50	20	0.01	0.747	0.781	4.64	
Perylene-d12	1	0	I	14.60	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.72	52.23	50	20	0.01	1.210	1.348	4.47	
Benzo[b]fluoranthene	1	0		14.16	58.36	50	20	0.7	1.136	1.325	16.71	
Benzo[k]fluoranthene	1	0		14.19	50.83	50	20	0.7	1.253	1.274	1.66	
Benzo[a]pyrene	1	0		14.53	52.59	50	20	0.7	1.063	1.118	5.18	
Indeno[1,2,3-cd]pyrene	1	0		15.98	54.67	50	20	0.5	1.293	1.414	9.35	
Dibenzo[a,h]anthracene	1	0		16.00	55.44	50	20	0.4	1.028	1.140	10.87	
Benzo[g,h,i]perylene	1	0		16.37	51.50	50	20	0.5	1.031	1.062	3.00	

S-Surrogate Compound
N/O or N/Q - Not applicable for this run

I-Internal Standard Compound
C1-Compound %Diff exceeds limits

** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F.
624 limits are compared against the concentration found.
625 limits are compared against the %DIFF.
524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M124816.D **Instrument:** GCMS 9

Cont Calibration Date/Time 10/3/2023 9:37:00 A Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.663	0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.898	0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			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

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 9M_0907.M
Data File: 9M124816.D Sam Mult : 1 Vial# : 2 Qt On : 10/03/23 10:00
Acq On : 10/ 3/23 09:37 Misc : A,BNA Qt Upd On: 09/07/23 15:10

Data Path : G:\GcMsData\2023\GCMS_9\Data\10-03-23\
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)	3.302	96	38862	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.996	152	75779	40.00	ng	0.00
31) Naphthalene-d8	6.966	136	291594	40.00	ng	0.00
50) Acenaphthene-d10	8.401	164	161182	40.00	ng	0.00
77) Phenanthrene-d10	9.872	188	284646	40.00	ng	0.00
91) Chrysene-d12	12.942	240	283729	40.00	ng	0.00
103) Perylene-d12	14.595	264	277856	40.00	ng	-0.03
System Monitoring Compounds						
11) 2-Fluorophenol	4.902	112	119807	56.21	ng	0.00
Spiked Amount 100.000			Recovery = 56.21%			
16) Phenol-d5	5.684	99	155186	58.18	ng	0.00
Spiked Amount 100.000			Recovery = 58.18%			
32) Nitrobenzene-d5	6.419	128	30087	25.06	ng	0.00
Spiked Amount 50.000			Recovery = 50.12%			
55) 2-Fluorobiphenyl	7.801	172	137570	26.51	ng	0.00
Spiked Amount 50.000			Recovery = 53.02%			
80) 2,4,6-Tribromophenol	9.142	330	38903	59.30	ng	0.00
Spiked Amount 100.000			Recovery = 59.30%			
94) Terphenyl-d14	11.683	244	154353	26.27	ng	0.00
Spiked Amount 50.000			Recovery = 52.54%			
Target Compounds						Qvalue
8) 1,4-Dioxane	3.331	88	49049	50.8546	ng	94
9) Pyridine	3.684	79	124218	49.8625	ng	69
10) N-Nitrosodimethylamine	3.631	74	81322	56.1565	ng	72
12) Benzaldehyde	5.649	77	85645	44.2063	ng	98
13) Aniline	5.731	93	175417	56.2009	ng	89
14) Pentachloroethane	5.772	117	44304	56.2806	ng	79
15) bis(2-Chloroethyl)ether	5.778	93	134590	56.1784	ng	94
17) Phenol	5.696	94	179382	57.5095	ng	84
18) 2-Chlorophenol	5.825	128	134086	59.8779	ng	78
19) N-Decane	5.860	57	125980	52.3099	ng	76
20) 1,3-Dichlorobenzene	5.949	146	140612	57.1272	ng	98
22) 1,4-Dichlorobenzene	6.007	146	143202	50.3393	ng	98
23) 1,2-Dichlorobenzene	6.125	146	136837	50.8649	ng	99
24) Benzyl alcohol	6.096	108	82797	53.9857	ng	74
25) bis(2-chloroisopropyl)...	6.201	45	146795	47.9441	ng	93
26) 2-Methylphenol	6.178	108	116107	51.7897	ng	98
27) Acetophenone	6.301	105	174963	50.6152	ng	67
28) Hexachloroethane	6.390	117	54539	51.1975	ng	84
29) N-Nitroso-di-n-propyla...	6.301	70	91680	48.2902	ng	91
30) 3&4-Methylphenol	6.296	108	122835	51.8493	ng	97
33) Nitrobenzene	6.437	77	130150	47.9815	ng	79
34) Isophorone	6.619	82	248847	49.2042	ng	87
35) 2-Nitrophenol	6.678	139	69396	51.7852	ng	81
36) 2,4-Dimethylphenol	6.696	107	95619	51.9179	ng	92
37) Benzoic Acid	6.760	105	80396	50.1542	ng	86
38) bis(2-Chloroethoxy)met...	6.766	93	151512	48.8106	ng	98
39) 2,4-Dichlorophenol	6.854	162	106540	54.6174	ng	87
40) 1,2,4-Trichlorobenzene	6.919	180	113607	51.6572	ng	96
41) Naphthalene	6.984	128	384094	48.6072	ng	98
42) 4-Chloroaniline	7.019	127	143062m	51.3291	ng	
43) Hexachlorobutadiene	7.072	225	64384	52.6940	ng	97
44) Caprolactam	7.313	113	41457m	53.8172	ng	
45) 4-Chloro-3-methylphenol	7.372	107	107441	52.5505	ng	96
46) 2-Methylnaphthalene	7.519	142	253611	51.0702	ng	97
47) 1-Methylnaphthalene	7.596	142	237245	49.5999	ng	98
48) Methylnaphthalenes (To...	7.596	142	487211m	100.8771	ng	
49) 1,1'-Biphenyl	7.890	154	300169	50.9852	ng	94
51) 1,2,4,5-Tetrachloroben...	7.648	216	120478	54.6423	ng	98
52) Hexachlorocyclopentadiene	7.637	237	52647	55.1618	ng	98
53) 2,4,6-Trichlorophenol	7.737	196	75131	52.8245	ng	98
54) 2,4,5-Trichlorophenol	7.766	196	73915	49.9656	ng	99
56) 2-Chloronaphthalene	7.919	162	234842	51.1202	ng	89
57) 1,4-Dimethylnaphthalene	8.195	156	183228	50.6606	ng	87
58) Dimethylnaphthalenes (...	8.195	156	183228	50.6606	ng	87
59) Diphenyl Ether	7.978	170	162599	53.7619	ng	75
60) 2-Nitroaniline	7.995	65	79319	49.0719	ng	43
61) Coumarin	8.184	146	90766	50.3915	ng	75
62) Acenaphthylene	8.278	152	346625	50.8379	ng	98
63) Dimethylphthalate	8.137	163	258591	52.6153	ng	98
64) 2,6-Dinitrotoluene	8.195	165	59148	52.4967	ng	65
65) Acenaphthene	8.431	153	243978	51.8255	ng	97

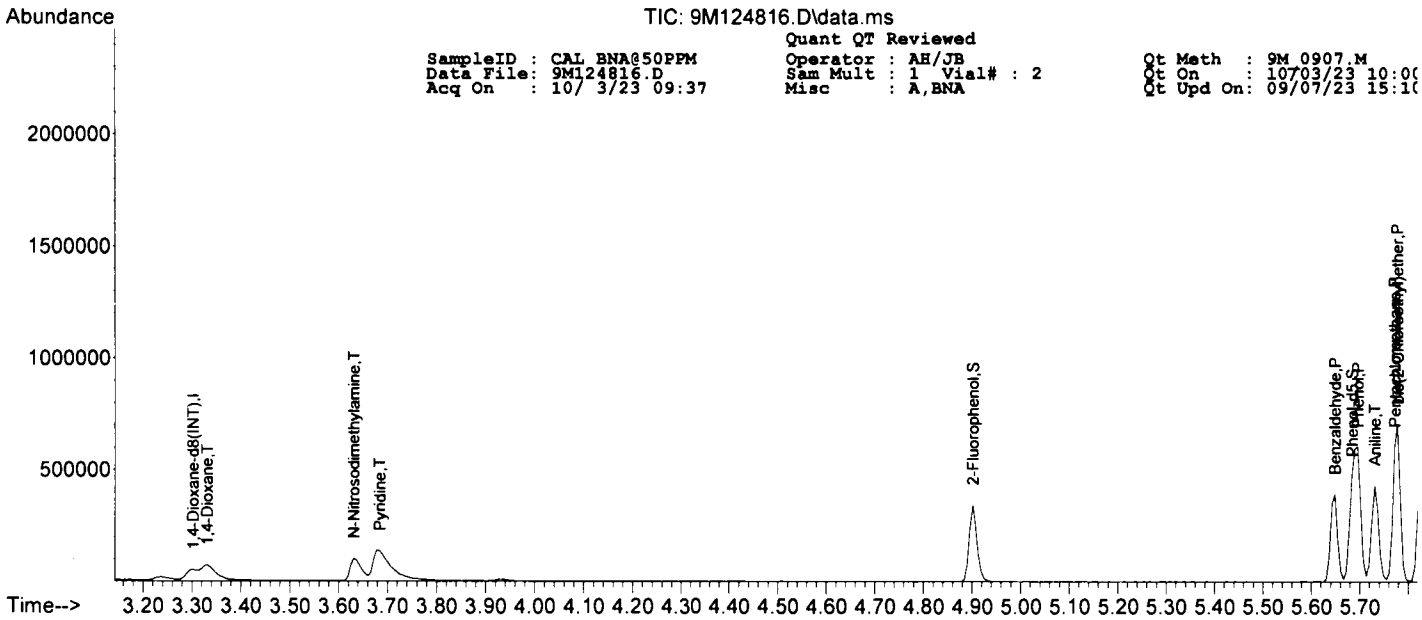
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 9M_0907.M
Data File: 9M124816.D Sam Mult : 1 Vial# : 2 Qt On : 10/03/23 10:00
Acq On : 10/ 3/23 09:37 Misc : A,BNA Qt Upd On: 09/07/23 15:10

Data Path : G:\GcMsData\2023\GCMS_9\Data\10-03-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.348	138	66430	54.6198	ng	78
67)	2,4-Dinitrophenol	8.437	184	34220	60.9386	ng	52
68)	Dibenzofuran	8.584	168	324442	50.3676	ng	84
69)	2,4-Dinitrotoluene	8.554	165	81219	55.6901	ng	64
70)	4-Nitrophenol	8.478	65	48442	51.9931	ng	86
71)	2,3,4,6-Tetrachlorophenol	8.690	232	68665	55.6456	ng	83
72)	Fluorene	8.913	166	267269	51.5872	ng	98
73)	4-Chlorophenyl-phenyle...	8.895	204	129654	52.7632	ng	84
74)	Diethylphthalate	8.772	149	249744	51.3037	ng	97
75)	4-Nitroaniline	8.925	138	70997	52.2754	ng	75
76)	Atrazine	9.548	200	69288	53.3795	ng	96
78)	4,6-Dinitro-2-methylph...	8.942	198	47199	62.6504	ng	68
79)	n-Nitrosodiphenylamine	9.013	169	227277	51.3009	ng	99
81)	1,2-Diphenylhydrazine	9.054	77	290096	49.8435	ng	83
82)	4-Bromophenyl-phenylether	9.390	248	78389	52.8710	ng	81
83)	Hexachlorobenzene	9.460	284	86072	54.4348	ng	58
84)	N-Octadecane	9.725	57	153384	48.5391	ng	73
85)	Pentachlorophenol	9.660	266	55845	59.1221	ng	97
86)	Phenanthrene	9.901	178	382917	50.9944	ng	100
87)	Anthracene	9.954	178	393095	51.1077	ng	99
88)	Carbazole	10.125	167	367124	51.3950	ng	96
89)	Di-n-butylphthalate	10.501	149	449115	52.8502	ng	98
90)	Fluoranthene	11.236	202	445098	52.7425	ng	91
92)	Pyrene	11.501	202	464745	51.2365	ng	91
93)	Benzidine	11.395	184	183130	54.6633	ng	86
95)	4,4'-DDE	11.619	246	91889	51.1445	ng	92
96)	4,4'-DDD	12.019	235	155371	51.3903	ng	97
97)	Butylbenzylphthalate	12.272	149	198406	53.1804	ng	75
98)	4,4'-DDT	12.378	235	140621	62.1486	ng	98
99)	3,3'-Dichlorobenzidine	12.895	252	160316	59.4429	ng	96
100)	Benzo[a]anthracene	12.925	228	449486	52.6639	ng	99
101)	Chrysene	12.972	228	403222	49.2821	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.966	149	277093	52.3194	ng	92
104)	Di-n-octylphthalate	13.719	149	468068	52.2339	ng	100
105)	Benzo[b]fluoranthene	14.160	252	460323	58.3573	ng	98
106)	Benzo[k]fluoranthene	14.189	252	442436m	50.8280	ng	
107)	Benzo[a]pyrene	14.530	252	388342	52.5892	ng	92
108)	Indeno[1,2,3-cd]pyrene	15.977	276	491108	54.6729	ng	81
109)	Dibenzo[a,h]anthracene	16.001	278	395980	55.4372	ng	88
110)	Benzo[g,h,i]perylene	16.371	276	368848	51.5016	ng	76

(#) = qualifier out of range (m) = manual integration (+) = signals summed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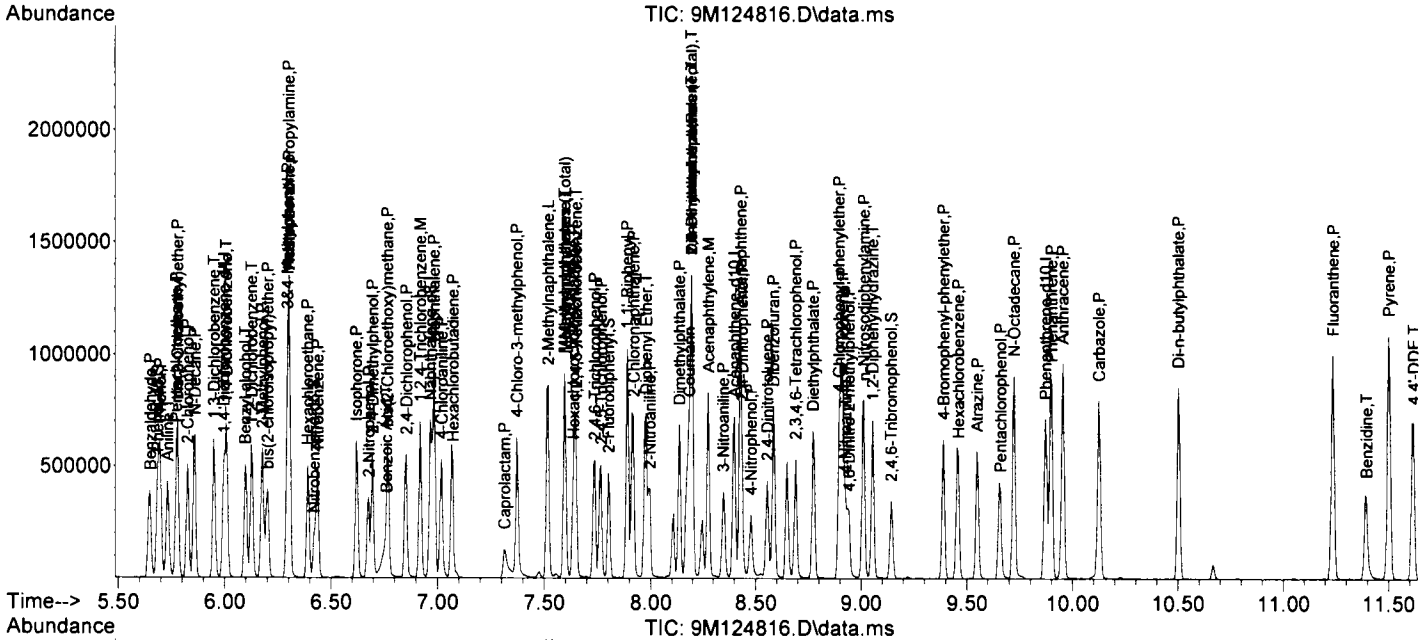
Quant QT Reviewed
SampleID : CAL BNA@50PPM
Data File: 9M124816.D
Acq On : 10/ 3/23 09:37
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 9M_0907.M
Qt On : 10703/23 10:0(
Qt Upd On: 09/07/23 15:1(
2000000
1500000
1000000
500000
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Aniline,T
Time-->
3.20 3.30 3.40 3.50 3.60 3.70 3.80 3.90 4.00 4.10 4.20 4.30 4.40 4.50 4.60 4.70 4.80 4.90 5.00 5.10 5.20 5.30 5.40 5.50 5.60 5.70


Abundance
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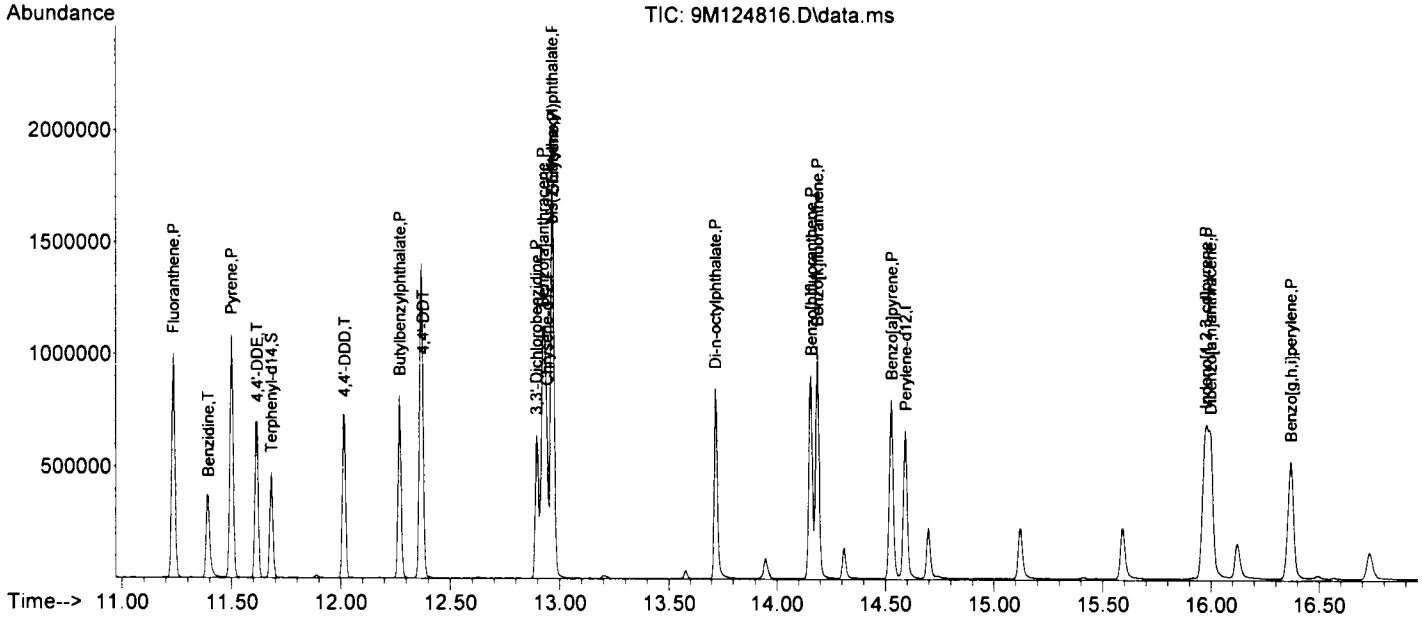
1500000
1000000
500000
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Methylnaphthalene,L
Dimethylphthalate,P
Acenaphthylene,M
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->
5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Abundance
TIC: 9M124816.D\data.ms
2000000
1500000
1000000
500000
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->
11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50 15.00 15.50 16.00 16.50

Form7

Continuing Calibration

Calibration Name: CAL SIM@5PPM **Data File:** 12M68459.D **Instrument:** GCMS 12Sm

Cont Calibration Date/Time 10/3/2023 9:27:00 A Method: EPA8270E SIM

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	2.52	0.40	0.4000	**			0.000	0.00	
1,4-Dioxane	1	0		2.54	5.30	5	20		0.885	0.939	6.09	
1,4-Dichlorobenzene-d4	1	0	I	5.75	0.40	0.4000	**			0.000	0.00	
N-Nitrosodimethylamine	1	0		2.94	5.52	5	20	0.01	1.321	1.458	10.40	
bis(2-Chloroethyl)ether	1	0		5.53	5.14		**		1.190			
2-Methylphenol	1	0		5.96	5.49	5	20		0.966	1.061	9.75	
Hexachloroethane	1	0		6.16	5.12	5	20	0.3	0.481	0.492	2.41	
3&4-Methylphenol	1	0		6.08	5.61	5	20		0.973	1.092	12.25	
Naphthalene-d8	1	0	I	6.76	0.40	0.4000	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.19	27.78		**		0.200			
2,4-Dimethylphenol	1	0		6.50	4.09	5	20		0.169	0.138	18.18	
Naphthalene	1	0		6.77	5.22	5	20	0.7	0.951	0.992	4.39	
Hexachlorobutadiene	1	0		6.86	4.89	5	20	0.01	0.192	0.188	2.21	
Acenaphthene-d10	1	0	I	8.18	0.40	0.4000	**			0.000	0.00	
Hexachlorocyclopentadiene	1	0		7.43	4.61	5	20		0.191	0.215	7.76	
2,4,5-Trichlorophenol	1	0		7.56	5.68		**		0.276			
2-Fluorobiphenyl	1	0	S	7.59	27.27		**		0.995			
Acenaphthylene	1	0		8.05	5.47	5	20	0.9	1.710	1.872	9.45	
Acenaphthene	1	0		8.20	5.01	5	20	0.9	1.113	1.116	0.28	
Dibenzofuran	1	0		8.36	4.56	5	20		1.518	1.383	8.85	
Fluorene	1	0		8.67	5.14	5	20	0.9	1.049	1.079	2.90	
Phenanthrene-d10	1	0	I	9.63	0.40	0.4000	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.72	4.58	5	20	0.01	0.066	0.075	8.49	
1,2-Diphenylhydrazine	1	0		8.81	4.56	5	20		0.562	0.410	8.85	
Hexachlorobenzene	1	0		9.22	4.50	5	20	0.1	0.207	0.186	10.09	
Pentachlorophenol	1	0		9.42	4.89	5	20	0.05	0.078	0.091	2.13	
Phenanthrene	1	0		9.65	4.78	5	20	0.7	1.111	0.988	4.40	
Anthracene	1	0		9.70	4.77	5	20	0.7	0.936	0.892	4.68	
Carbazole	1	0		9.88	4.48	5	20	0.01	0.839	0.751	10.45	
Fluoranthene	1	0		10.97	4.93	5	20	0.6	1.175	1.158	1.49	
Chrysene-d12	1	0	I	12.67	0.40	0.4000	**			0.000	0.00	
Pyrene	1	0		11.24	3.54	5	20	0.6	2.415	1.709	29.23	C1
Terphenyl-d14	1	0	S	11.43	18.94		**		1.298			
Benzo[a]anthracene	1	0		12.66	4.37	5	20	0.8	1.424	1.245	12.60	
Chrysene	1	0		12.70	3.63	5	20	0.7	1.541	1.120	27.30	C1
Perylene-d12	1	0	I	14.29	0.40	0.4000	**			0.000	0.00	
Benzo[b]fluoranthene	1	0		13.88	4.65	5	20	0.7	1.710	1.590	6.99	
Benzo[k]fluoranthene	1	0		13.91	4.46	5	20	0.7	1.668	1.489	10.74	
Benzo[a]pyrene	1	0		14.22	4.95	5	20	0.7	1.486	1.472	0.91	
Indeno[1,2,3-cd]pyrene	1	0		15.56	4.94	5	20	0.5	1.809	1.786	1.29	
Dibenzo[a,h]anthracene	1	0		15.58	4.69	5	20	0.4	1.426	1.338	6.17	
Benzo[g,h,i]perylene	1	0		15.92	4.49	5	20	0.5	1.614	1.451	10.12	

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

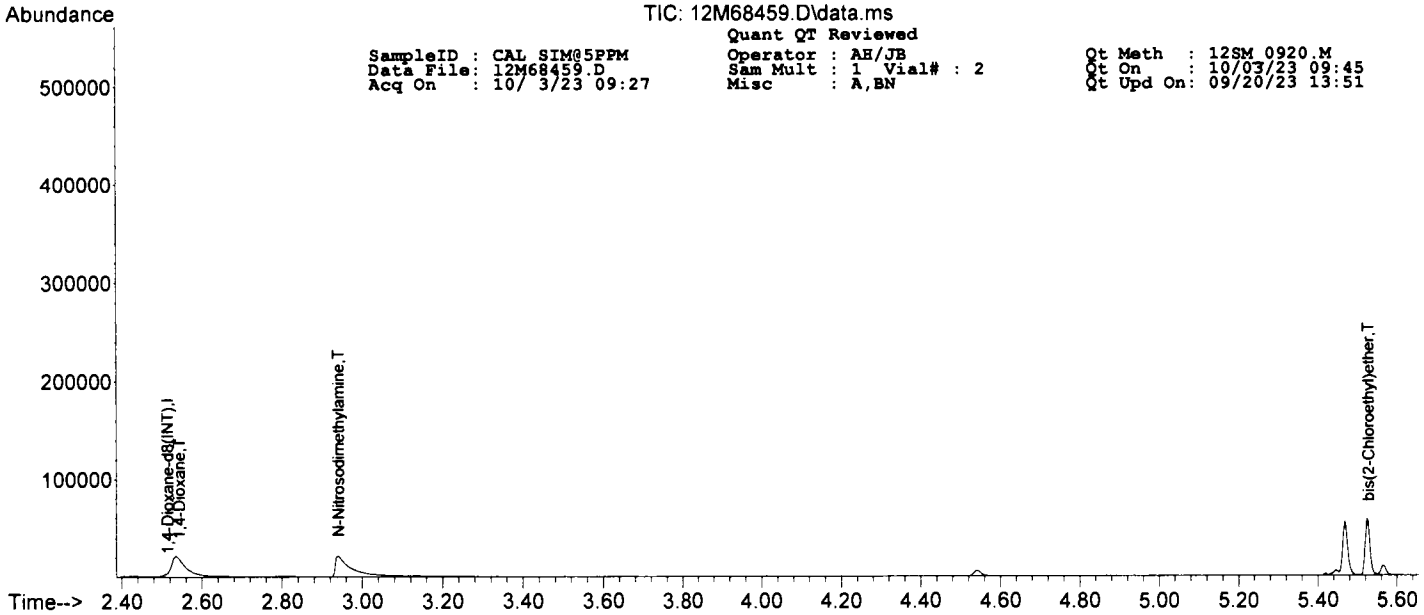
Quantitation Report (QT Reviewed)

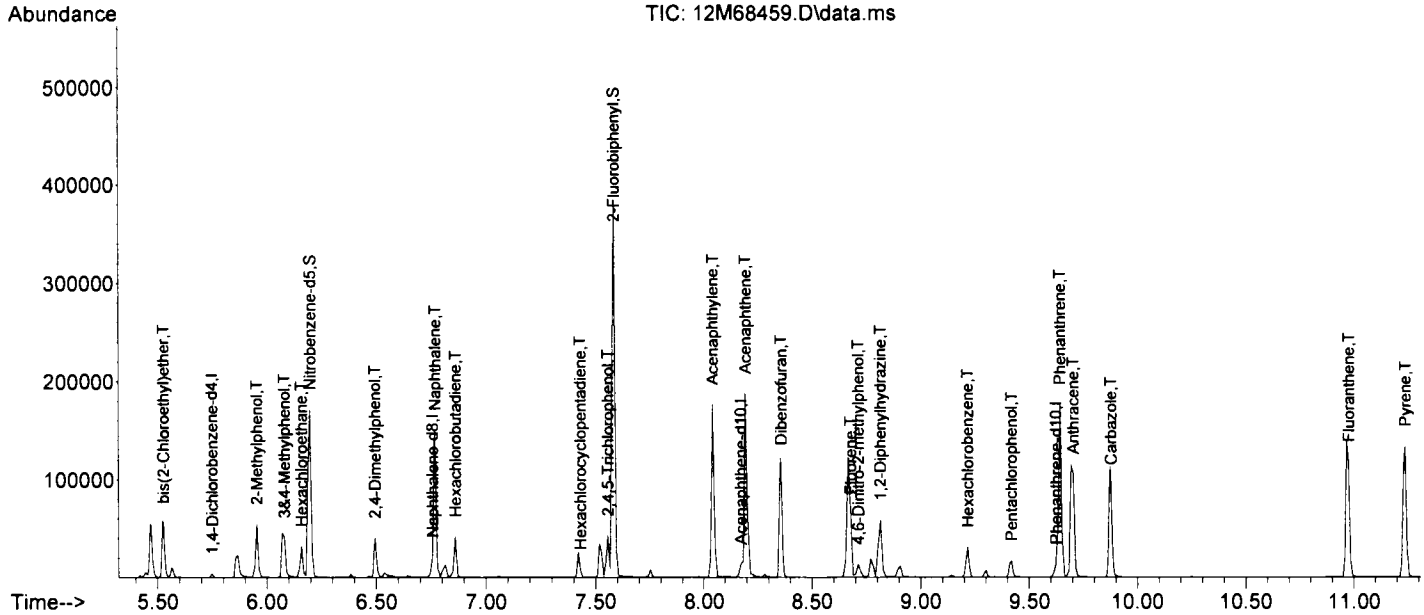
SampleID : CAL SIM@5PPM Operator : AH/JB Qt Meth : 12SM_0920.M
Data File: 12M68459.D Sam Mult : 1 Vial# : 2 Qt On : 10/03/23 09:45
Acq On : 10/ 3/23 09:27 Misc : A,BN Qt Upd On: 09/20/23 13:51

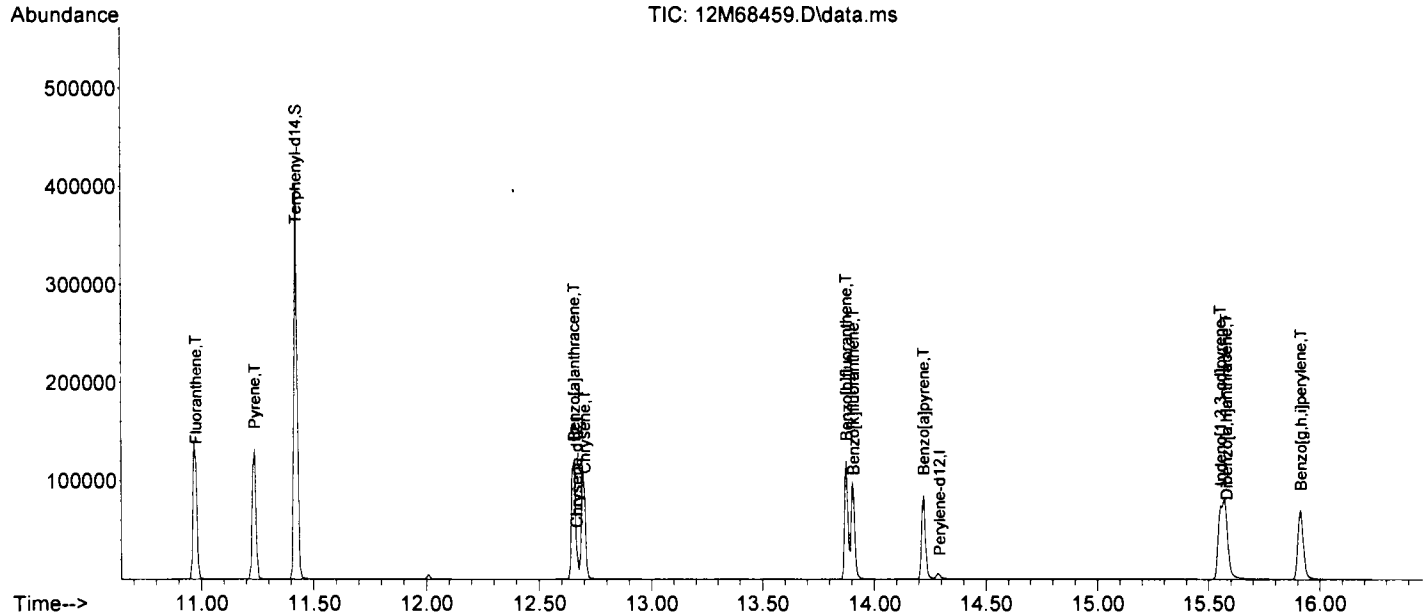
Data Path : G:\GcMsData\2023\GCMS_12SM\Data\10-03-23\
Qt Path : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.518	96	23884	0.40	ng	0.01
3) 1,4-Dichlorobenzene-d4	5.750	152	18812	0.40	ng	0.00
9) Naphthalene-d8	6.759	136	84663	0.40	ng	0.00
14) Acenaphthene-d10	8.176	164	47233	0.40	ng	0.00
22) Phenanthrene-d10	9.626	188	97572	0.40	ng	0.00
31) Chrysene-d12	12.666	240	64305m	0.40	ng	0.00
36) Perylene-d12	14.290	264	46058	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.195	82	1177351	27.78	ng	0.00
Spiked Amount 50.000			Recovery =	55.56%		
17) 2-Fluorobiphenyl	7.588	172	2684932	27.27	ng	0.00
Spiked Amount 50.000			Recovery =	54.54%		
33) Terphenyl-d14	11.426	244	3328900	18.94	ng	0.00
Spiked Amount 50.000			Recovery =	37.88%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.541	88	280301	5.3045	ng	90
4) N-Nitrosodimethylamine	2.943	74	342813	5.5199	ng	99
5) bis(2-Chloroethyl)ether	5.529	93	287937	5.1439	ng	99
6) 2-Methylphenol	5.956	108	249429	5.4875	ng	91
7) Hexachloroethane	6.162	201	115726	5.1207	ng	80
8) 3&4-Methylphenol	6.081	108	256756	5.6124	ng	94
11) 2,4-Dimethylphenol	6.496	107	146523	4.0911	ng	77
12) Naphthalene	6.771	128	1050226	5.2195	ng	91
13) Hexachlorobutadiene	6.863	225	198602	4.8895	ng	62
15) Hexachlorocyclopentadiene	7.425	237	126995	4.6120	ng	65
16) 2,4,5-Trichlorophenol	7.557	196	185157m	5.6754	ng	
18) Acenaphthylene	8.047	152	1105227	5.4723	ng	92
19) Acenaphthene	8.197	153	658921	5.0140	ng	67
20) Dibenzofuran	8.358	168	816783	4.5573	ng	95
21) Fluorene	8.672	166	637240	5.1449	ng	82
23) 4,6-Dinitro-2-methylph...	8.717	198	91860	4.5754	ng	33
24) 1,2-Diphenylhydrazine	8.814	77	500006	4.5577	ng	17
25) Hexachlorobenzene	9.219	284	226893	4.4956	ng	80
26) Pentachlorophenol	9.419	266	111063	4.8937	ng	97
27) Phenanthrene	9.645	178	1204736	4.7798	ng	96
28) Anthracene	9.700	178	1088128	4.7659	ng	91
29) Carbazole	9.876	167	916181	4.4776	ng	93
30) Fluoranthene	10.974	202	1412295	4.9257	ng	88
32) Pyrene	11.239	202	1373944	3.5384	ng	99
34) Benzo[a]anthracene	12.656	228	1000379	4.3700	ng	94
35) Chrysene	12.698	228	900206	3.6348	ng	95
37) Benzo[b]fluoranthene	13.878	252	915627	4.6507	ng	92
38) Benzo[k]fluoranthene	13.908	252	857243	4.4629	ng	92
39) Benzo[a]pyrene	14.224	252	847547	4.9547	ng	92
40) Indeno[1,2,3-cd]pyrene	15.556	276	1028255	4.9356	ng	89
41) Dibenzo[a,h]anthracene	15.578	278	770507	4.6915	ng	85
42) Benzo[g,h,i]perylene	15.916	276	835196	4.4939	ng	90

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


Abundance
TIC: 12M68459.D\data.ms
Quant QT Reviewed
SampleID : CAL SIM@5PPM
Data File: 12M68459.D
Acq On : 10/ 3/23 09:27
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BN
Qt Meth : 12SM_0920.M
Qt On : 10/03/23 09:45
Qt Upd On: 09/20/23 13:51
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
Time-->


Abundance
TIC: 12M68459.D\data.ms
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Hexachloroethane,T
Nitrobenzene-d5,S
2,4-Dimethylphenol,T
Naphthalene-d8,I
Naphthalene,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2-Fluorobiphenyl,S
2,4,5-Trichlorophenol,T
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
4,6-Dinitro-2-methylphenol,T
Fluorene,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Phenanthrene-d10,I
Phenanthrene,T
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Time-->


Abundance
TIC: 12M68459.D\data.ms
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Chrysene-d12,I
Chrysene,T
Benzo[b]fluoranthene,T
Benzo[k]fluoranthene,T
Benzo[a]pyrene,T
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,T
Dibenz[a,h]anthracene,T
Benzo[g,h,i]perylene,T
Time-->

GC/MS Base Neutral/Acid Extractable Data
Raw QC Data

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 9
Data File: 9M124630.D
Analysis Date: 09/07/23 10:40
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.175 to 10.181 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	47.2	13206	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	49.1	13743	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	54.2	15180	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	28000	PASS
199	198	5	9	7.3	2041	PASS
275	198	10	30	24.3	6805	PASS
365	198	1	100	2.6	741	PASS
441	443	0.01	100	73.6	2662	PASS
442	198	40	100	61.3	17161	PASS
443	442	17	23	21.1	3619	PASS

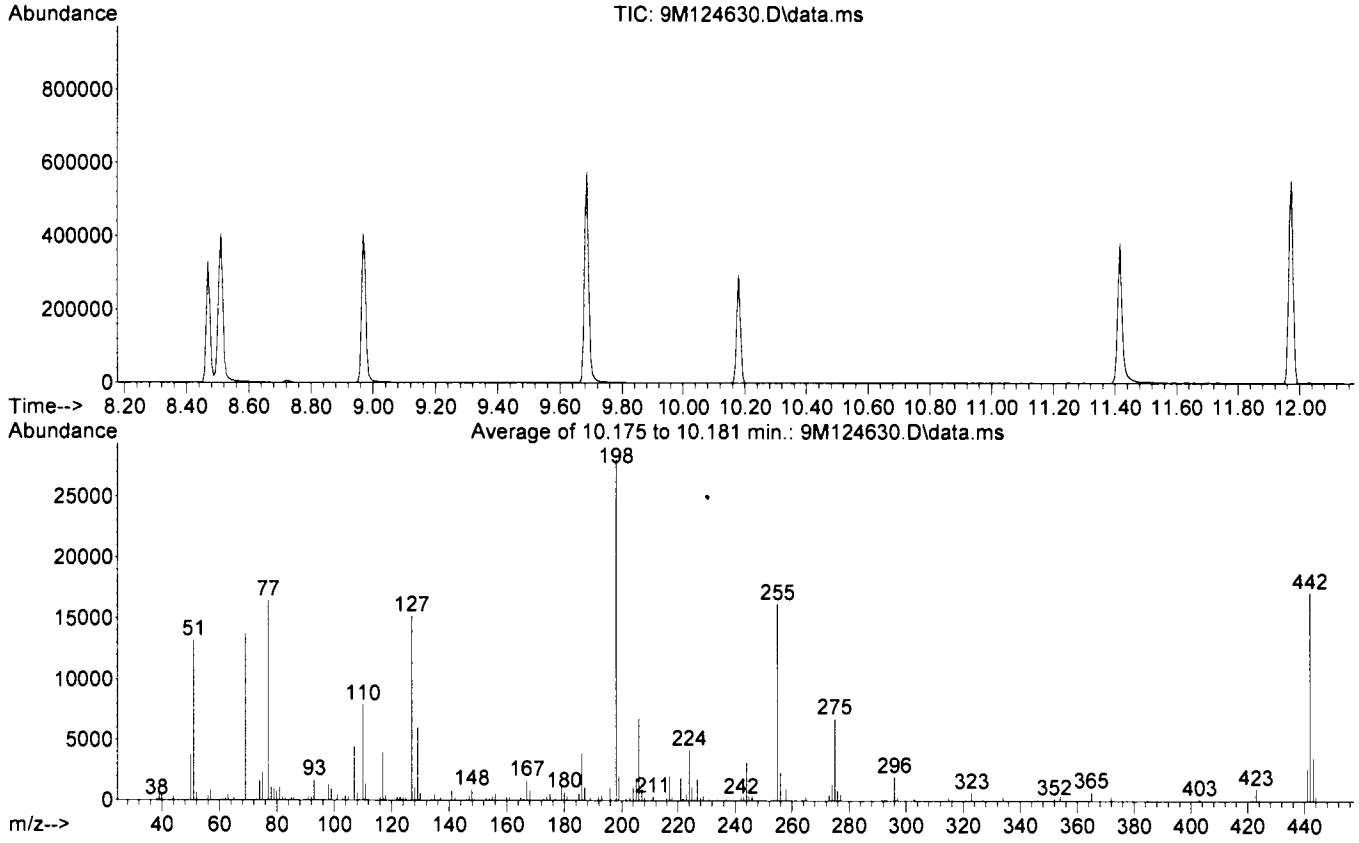
Data File	Sample Number	Analysis Date:
9M124631.D	CAL BNA@50PPM	09/07/23 11:03
9M124632.D	CAL BNA@196PP	09/07/23 11:26
9M124633.D	CAL BNA@160PP	09/07/23 11:50
9M124634.D	CAL BNA@120PP	09/07/23 12:13
9M124635.D	CAL BNA@80PPM	09/07/23 12:36
9M124636.D	CAL BNA@10PPM	09/07/23 13:00
9M124637.D	CAL BNA@2PPM	09/07/23 13:23
9M124638.D	CAL BNA@0.5PP	09/07/23 13:46
9M124639.D	CAL BNA@20PPM	09/07/23 14:10
9M124640.D	CAL BNA@50PPM	09/07/23 14:33
9M124641.D	ICV BNA@50PPM	09/07/23 15:02
9M124642.D	WMB110804(MS)	09/07/23 15:42
9M124643.D	SMB110788(MS)	09/07/23 16:21
9M124644.D	SMB110788	09/07/23 16:44

DFTPP

Data Path : G:\GcMsData\2023\GCMS_9\Data\09-07-23\
Data File : 9M124630.D
Acq On : 7 Sep 2023 10:40
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_0906.M
Title : @GCMS_9,mg,625,8270
Last Update : Wed Jun 21 15:11:51 2023



Spectrum Information: Average of 10.175 to 10.181 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.2	13206	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	49.1	13743	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	54.2	15180	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	28000	PASS
199	198	5	9	7.3	2041	PASS
275	198	10	30	24.3	6805	PASS
365	198	1	100	2.6	741	PASS
441	443	0.01	100	73.6	2662	PASS
442	198	40	100	61.3	17161	PASS
443	442	17	23	21.1	3619	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 12Sm
Data File: 12M68242.D
Analysis Date: 09/20/23 08:06
Method: EPA8270E SIM

Tune Scan/Time Range: Average of 9.903 to 9.919 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	37.1	69068	PASS
68	69	0.00	2	1.5	1050	PASS
69	198	0.00	100	38.1	70840	PASS
70	69	0.00	2	0.5	357	PASS
127	198	40	60	49.1	91322	PASS
197	198	0.00	1	0.4	821	PASS
198	198	100	100	100.0	186162	PASS
199	198	5	9	6.6	12371	PASS
275	198	10	30	23.6	43921	PASS
365	198	1	100	2.8	5274	PASS
441	443	0.01	100	74.2	17726	PASS
442	198	40	100	62.4	116186	PASS
443	442	17	23	20.6	23891	PASS

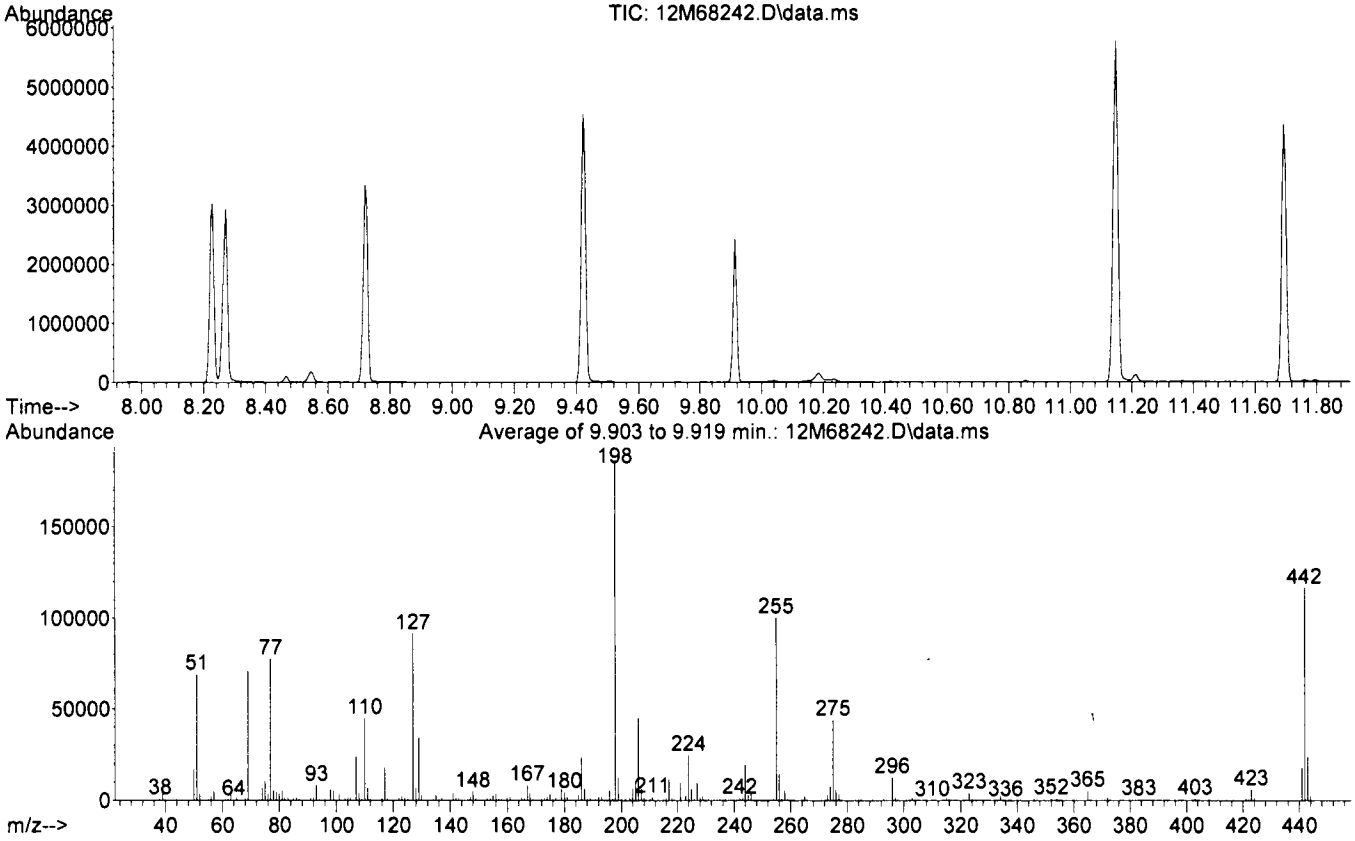
Data File	Sample Number	Analysis Date:
12M68243.D	SIM@5PPM	09/20/23 08:24
12M68244.D	CAL SIM@0.2PPM	09/20/23 08:47
12M68245.D	CAL SIM@0.1PPM	09/20/23 09:13
12M68246.D	SIM@0.02PPM	09/20/23 09:34
12M68247.D	SIM@0.5PPM	09/20/23 09:55
12M68248.D	CAL SIM@1PPM	09/20/23 10:17
12M68249.D	CAL SIM@10PPM	09/20/23 10:38
12M68250.D	CAL SIM@19.6PP	09/20/23 11:00
12M68251.D	CAL SIM@5PPM	09/20/23 11:21
12M68252.D	SIM@0.5PPM	09/20/23 11:54
12M68253.D	SIM@0.02PPM	09/20/23 12:40
12M68254.D	CAL SIM@0.5PPM	09/20/23 13:02
12M68255.D	CAL SIM@0.02PP	09/20/23 13:25
12M68256.D	ICV SIM@1PPM	09/20/23 13:47

DFTPP

Data Path : G:\GcMsData\2023\GCMS_12SM\Data\09-20-23\
Data File : 12M68242.D
Acq On : 20 Sep 2023 8:06
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BN
ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e

Method : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\12SM_0920.M
Title : @GCMS_12Sm,M:8270SIM
Last Update : Wed Sep 20 13:51:27 2023



Spectrum Information: Average of 9.903 to 9.919 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.1	69068	PASS
68	69	0.00	2	1.5	1050	PASS
69	198	0.00	100	38.1	70840	PASS
70	69	0.00	2	0.5	357	PASS
127	198	40	60	49.1	91322	PASS
197	198	0.00	1	0.4	821	PASS
198	198	100	100	100.0	186162	PASS
199	198	5	9	6.6	12371	PASS
275	198	10	30	23.6	43921	PASS
365	198	1	100	2.8	5274	PASS
441	443	0.01	100	74.2	17726	PASS
442	198	40	100	62.4	116186	PASS
443	442	17	23	20.6	23891	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 9
Data File: 9M124815.D
Analysis Date: 10/03/23 09:14
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.148 to 10.154 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	37.7	20356	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	40.7	21996	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	48.2	26036	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	54004	PASS
199	198	5	9	7.0	3773	PASS
275	198	10	30	25.6	13837	PASS
365	198	1	100	3.4	1827	PASS
441	443	0.01	100	73.9	5775	PASS
442	198	40	100	70.4	38024	PASS
443	442	17	23	20.6	7815	PASS

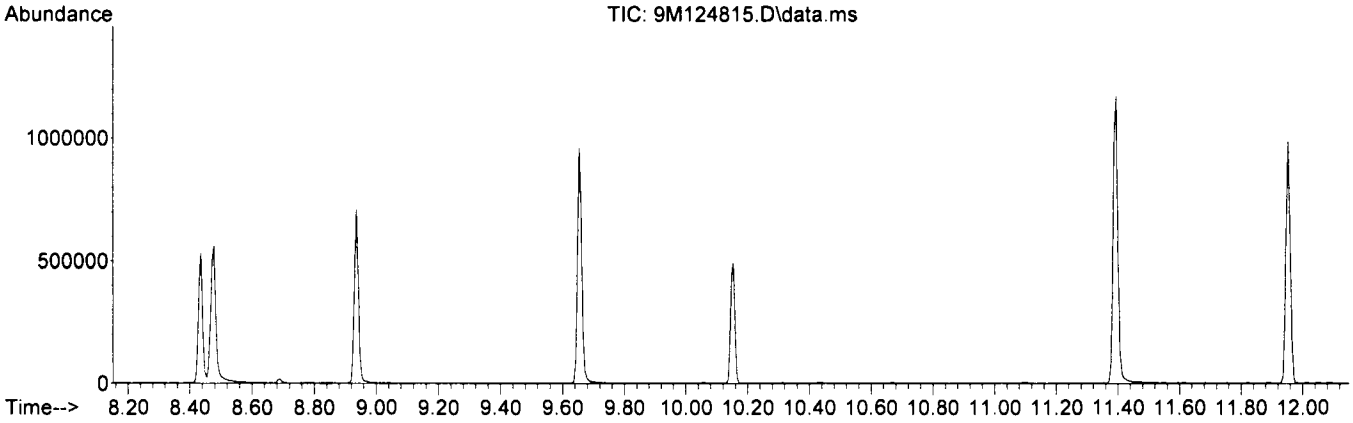
Data File	Sample Number	Analysis Date:
9M124816.D	CAL BNA@50PPM	10/03/23 09:37
9M124822.D	WMB110959(MS)	10/03/23 12:13
9M124823.D	WMB110959	10/03/23 12:37
9M124824.D	AD40498-001(T)	10/03/23 13:00
9M124825.D	AD40498-001(T)(M	10/03/23 13:23
9M124826.D	AD40498-001(T)(M	10/03/23 13:46
9M124827.D	AD40453-003(T)	10/03/23 14:09
9M124828.D	EF-SPLP V-401790	10/03/23 14:32
9M124829.D	AD40586-001	10/03/23 14:56
9M124830.D	AD40586-003	10/03/23 15:19
9M124831.D	AD40586-004	10/03/23 15:43
9M124832.D	AD40586-005	10/03/23 16:06
9M124833.D	AD40586-006	10/03/23 16:29
9M124834.D	AD40587-001	10/03/23 16:52
9M124835.D	AD40626-009	10/03/23 17:15
9M124836.D	AD40626-010	10/03/23 17:57
9M124837.D	AD40625-001	10/03/23 18:19
9M124838.D	AD40625-002	10/03/23 18:42
9M124839.D	AD40625-003	10/03/23 19:05
9M124840.D	AD40625-004	10/03/23 19:28

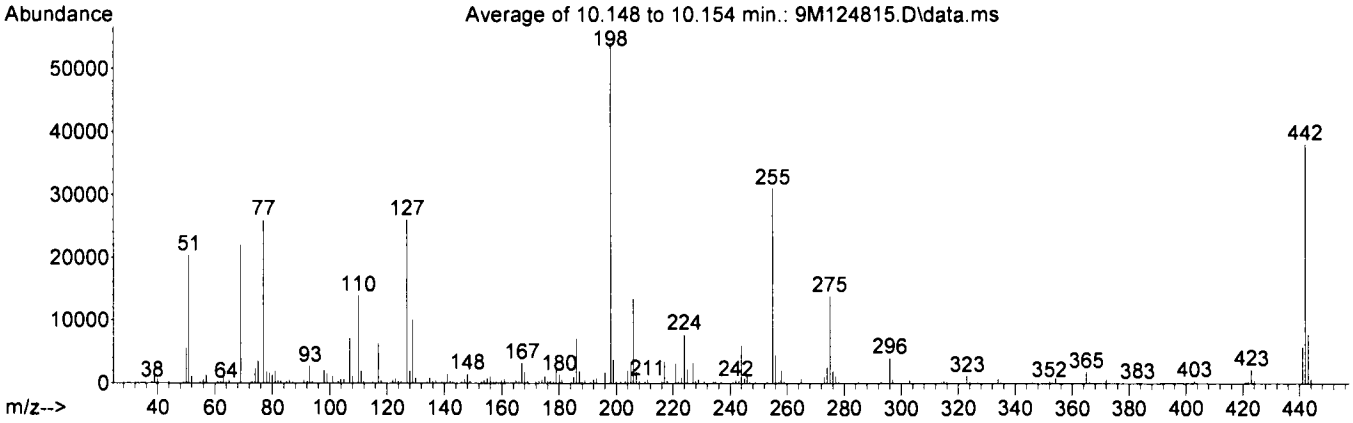
DFTPP

Data Path : G:\GcMsData\2023\GCMS_9\Data\10-03-23\
Data File : 9M124815.D
Acq On : 3 Oct 2023 9:14
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_0907.M
Title : @GCMS_9,mg,625,8270
Last Update : Thu Sep 07 14:55:39 2023





Spectrum Information: Average of 10.148 to 10.154 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.7	20356	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	40.7	21996	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	48.2	26036	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	54004	PASS
199	198	5	9	7.0	3773	PASS
275	198	10	30	25.6	13837	PASS
365	198	1	100	3.4	1827	PASS
441	443	0.01	100	73.9	5775	PASS
442	198	40	100	70.4	38024	PASS
443	442	17	23	20.6	7815	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 12Sm
Data File: 12M68458.D
Analysis Date: 10/03/23 09:05
Method: EPA8270E SIM

Tune Scan/Time Range: Average of 9.898 to 9.919 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	34.8	49097	PASS
68	69	0.00	2	1.4	713	PASS
69	198	0.00	100	36.5	51484	PASS
70	69	0.00	2	0.5	255	PASS
127	198	40	60	48.0	67580	PASS
197	198	0.00	1	0.3	439	PASS
198	198	100	100	100.0	140920	PASS
199	198	5	9	6.9	9709	PASS
275	198	10	30	24.7	34814	PASS
365	198	1	100	3.0	4270	PASS
441	443	0.01	100	79.7	15575	PASS
442	198	40	100	72.2	101786	PASS
443	442	17	23	19.2	19540	PASS

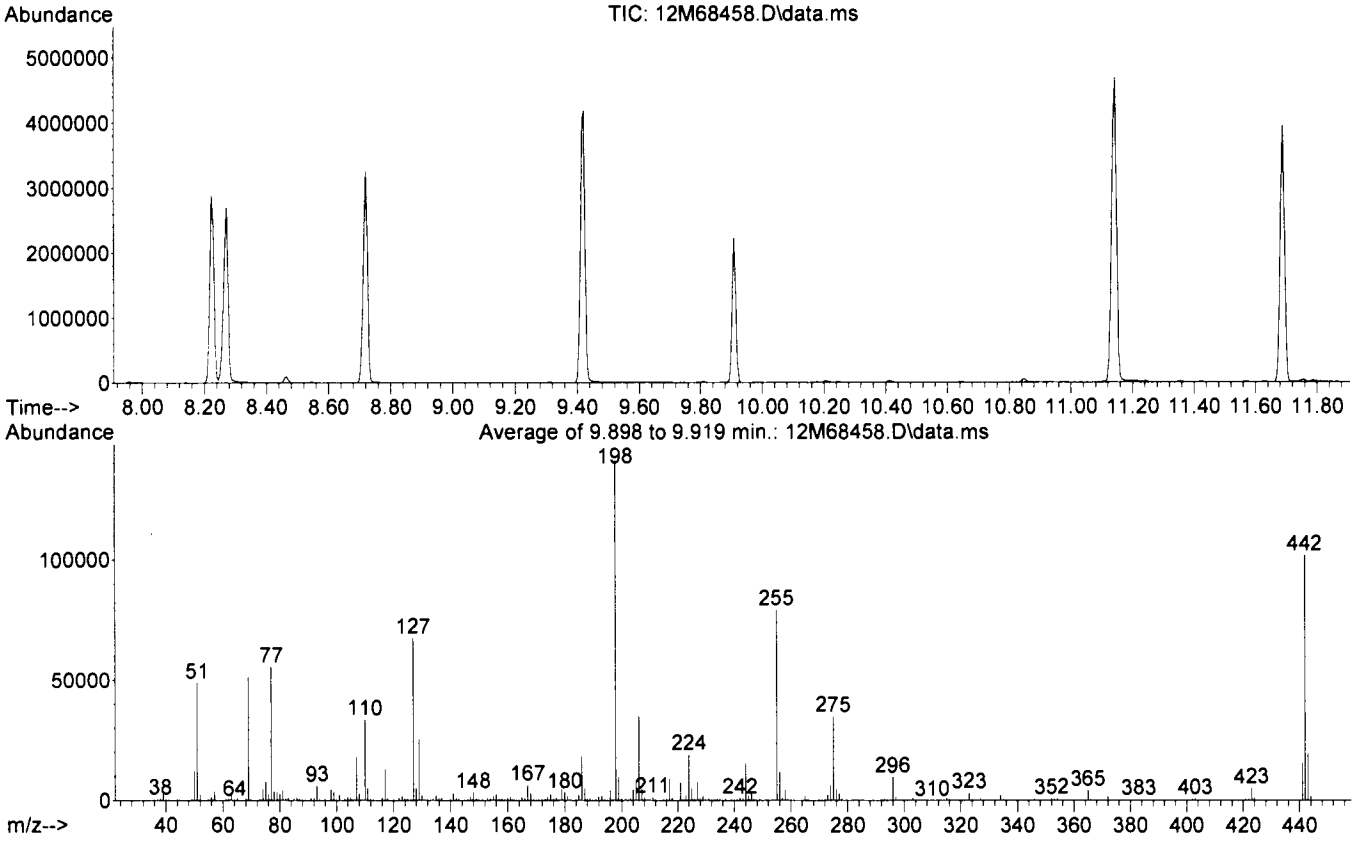
Data File	Sample Number	Analysis Date:
12M68459.D	CAL SIM@5PPM	10/03/23 09:27
12M68460.D	SIM@5PPM	10/03/23 09:49
12M68461.D	TCDD STD@5PPM	10/03/23 10:11
12M68469.D	WMB110959	10/03/23 13:11
12M68470.D	OMB110950	10/03/23 13:32
12M68471.D	AD40581-001(5X)	10/03/23 13:54
12M68472.D	AD40570-001	10/03/23 14:15
12M68473.D	AD40570-002	10/03/23 14:36
12M68474.D	AD40558-001	10/03/23 14:58
12M68475.D	AD40586-001	10/03/23 15:19
12M68476.D	AD40586-003	10/03/23 15:41
12M68477.D	AD40586-004	10/03/23 16:02
12M68478.D	AD40586-005	10/03/23 16:24
12M68479.D	AD40586-006	10/03/23 16:45
12M68480.D	AD40587-001	10/03/23 17:06
12M68481.D	AD40626-009	10/03/23 17:27
12M68482.D	AD40626-010	10/03/23 17:48
12M68483.D	AD40625-001	10/03/23 18:09
12M68484.D	AD40625-002	10/03/23 18:31
12M68485.D	AD40625-003	10/03/23 18:52
12M68486.D	AD40625-004	10/03/23 19:13
12M68487.D	AD40498-001(T)	10/03/23 19:34
12M68488.D	AD40453-003(T)	10/03/23 19:56
12M68489.D	EF-SPLP V-401790	10/03/23 20:17

DFTPP

Data Path : G:\GcMsData\2023\GCMS_12SM\Data\10-03-23\
Data File : 12M68458.D
Acq On : 3 Oct 2023 9:05
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BN
ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e

Method : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\12SM_0920.M
Title : @GCMS_12Sm,M:8270SIM
Last Update : Wed Sep 20 13:51:27 2023



Spectrum Information: Average of 9.898 to 9.919 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	34.8	49097	PASS
68	69	0.00	2	1.4	713	PASS
69	198	0.00	100	36.5	51484	PASS
70	69	0.00	2	0.5	255	PASS
127	198	40	60	48.0	67580	PASS
197	198	0.00	1	0.3	439	PASS
198	198	100	100	100.0	140920	PASS
199	198	5	9	6.9	9709	PASS
275	198	10	30	24.7	34814	PASS
365	198	1	100	3.0	4270	PASS
441	443	0.01	100	79.7	15575	PASS
442	198	40	100	72.2	101786	PASS
443	442	17	23	19.2	19540	PASS

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: WMB110959
Client Id:
Data File: 9M124823.D
Analysis Date: 10/03/23 12:37
Date Rec/Extracted: NA-10/02/23
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
123-91-1	1,4-Dioxane	0.50	U				

Worksheet #: 710763

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.

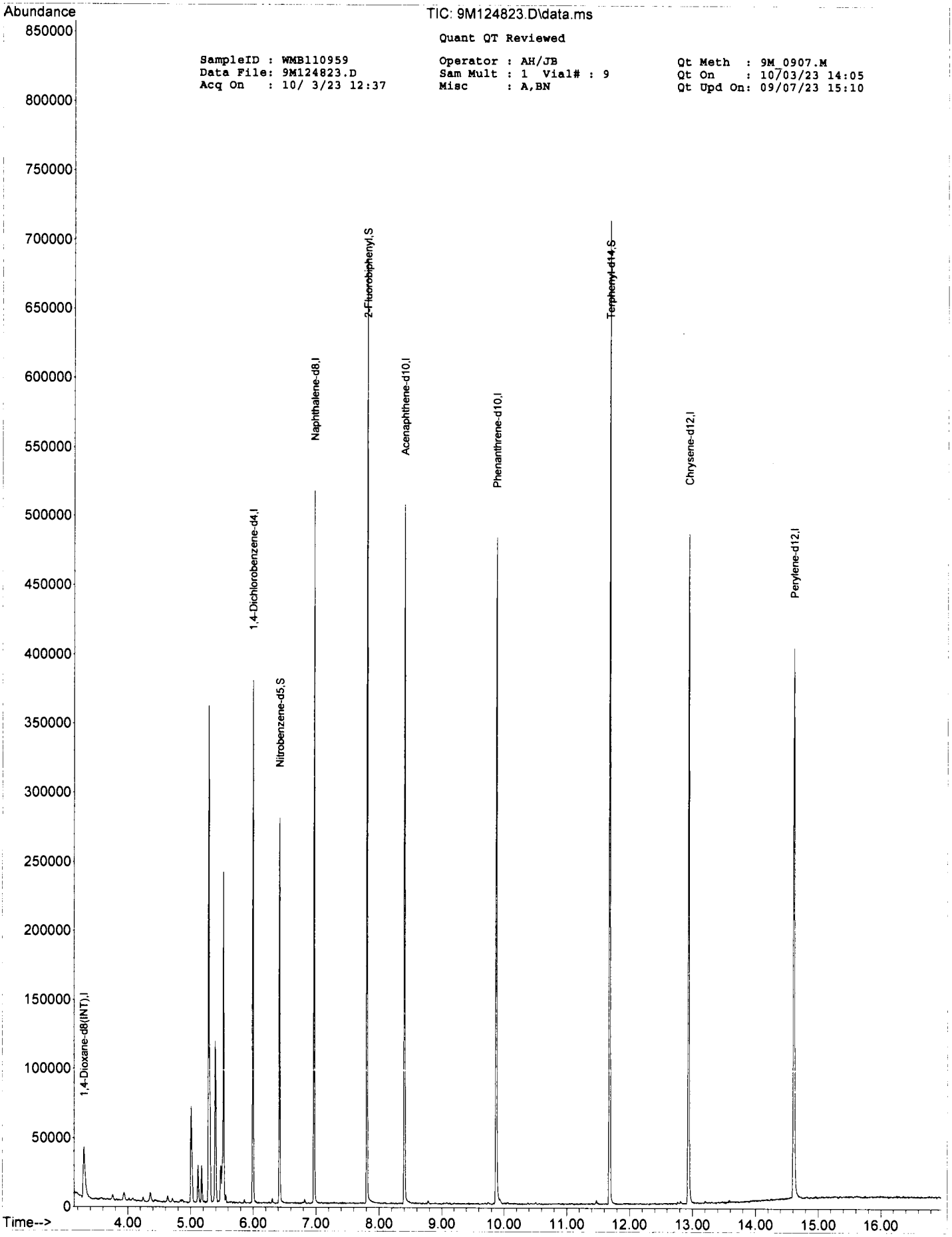
Quantitation Report (QT Reviewed)

SampleID : WMB110959 Operator : AH/JB Qt Meth : 9M_0907.M
Data File: 9M124823.D Sam Mult : 1 Vial# : 9 Qt On : 10/03/23 14:05
Acq On : 10/ 3/23 12:37 Misc : A,BN Qt Upd On: 09/07/23 15:10

Data Path : G:\GcMsData\2023\GCMS_9\Data\10-03-23\
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)	3.302	96	31772	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.996	152	56122	40.00	ng	0.00
31) Naphthalene-d8	6.972	136	211708	40.00	ng	0.00
50) Acenaphthene-d10	8.401	164	117457	40.00	ng	0.00
77) Phenanthrene-d10	9.878	188	210313	40.00	ng	0.00
91) Chrysene-d12	12.942	240	199132	40.00	ng	0.00
103) Perylene-d12	14.613	264	188859	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	0.000	112	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
16) Phenol-d5	0.000	99	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
32) Nitrobenzene-d5	6.425	128	43659	50.09	ng	0.00
Spiked Amount 50.000			Recovery =	100.18%		
55) 2-Fluorobiphenyl	7.807	172	203643	53.85	ng	0.00
Spiked Amount 50.000			Recovery =	107.70%		
80) 2,4,6-Tribromophenol	0.000	330	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
94) Terphenyl-d14	11.683	244	256605	62.22	ng	0.00
Spiked Amount 50.000			Recovery =	124.44%		
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed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TIC: 9M124823.D\data.ms
Quant QT Reviewed
SampleID : WMB110959
Data File: 9M124823.D
Acq On : 10/ 3/23 12:37
Operator : AH/JB
Sam Mult : 1 Vial# : 9
Misc : A,BN
Qt Meth : 9M_0907.M
Qt On : 10/03/23 14:05
Qt Upd On: 09/07/23 15:10
1,4-Dioxane-d8(INT),I
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: WMB110959
Client Id:
Data File: 12M68469.D
Analysis Date: 10/03/23 13:11
Date Rec/Extracted: NA-10/02/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 710765

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.

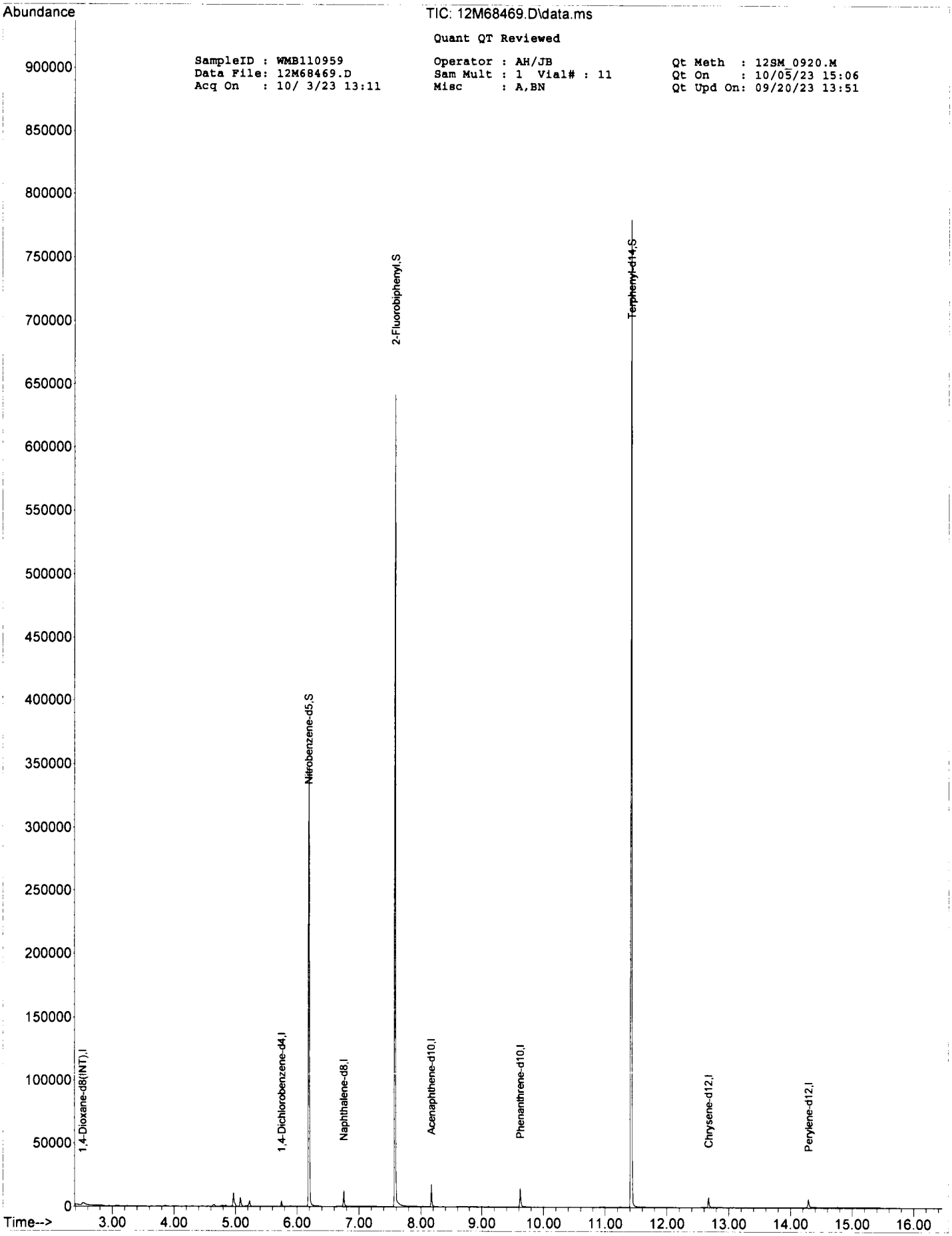
Quantitation Report (QT Reviewed)

SampleID : WMB110959 Operator : AH/JB Qt Meth : 12SM_0920.M
Data File: 12M68469.D Sam Mult : 1 Vial# : 11 Qt On : 10/05/23 15:06
Acq On : 10/ 3/23 13:11 Misc : A,BN Qt Upd On: 09/20/23 13:51

Data Path : G:\GcMsData\2023\GCMS_12SM\Data\10-03-23\
Qt Path : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.525	96	33096	0.40	ng	0.02
3) 1,4-Dichlorobenzene-d4	5.751	152	30370	0.40	ng	0.00
9) Naphthalene-d8	6.759	136	114125	0.40	ng	0.00
14) Acenaphthene-d10	8.176	164	71946	0.40	ng	0.00
22) Phenanthrene-d10	9.626	188	141285	0.40	ng	0.00
31) Chrysene-d12	12.677	240	75196	0.40	ng	0.00
36) Perylene-d12	14.296	264	63727	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.193	82	2696866	47.20	ng	0.00
Spiked Amount 50.000			Recovery =	94.40%		
17) 2-Fluorobiphenyl	7.586	172	5591264	39.05	ng	0.00
Spiked Amount 50.000			Recovery =	78.10%		
33) Terphenyl-d14	11.426	244	7121515	36.11	ng	0.00
Spiked Amount 50.000			Recovery =	72.22%		
Target Compounds						Qvalue

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


Abundance
TIC: 12M68469.D\data.ms
Quant QT Reviewed
SampleID : WMB110959
Data File: 12M68469.D
Acq On : 10/ 3/23 13:11
Operator : AH/JB
Sam Mult : 1 Vial# : 11
Misc : A,BN
Qt Meth : 12SM_0920.M
Qt On : 10/05/23 15:06
Qt Upd On: 09/20/23 13:51
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
1,4-Dioxane-d8(INT),I
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I

Form3
Recovery Data Laboratory Limits
QC Batch: WMB110959

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M124822.D	WMB110959(MS)	10/3/2023 12:13:00 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**	**24.6433**	**0**	**100**	**25**	**16**	**112**
Pyridine	1	41.8058	0	100	42	10	131
N-Nitrosodimethylamine	1	26.6834	0	100	27	24	118
Benzaldehyde	1	65.9948	0	100	66	10	103
Aniline	1	82.2657	0	100	82	10	149
Pentachloroethane	1	7.0146	0	100	7*	10	155
bis(2-Chloroethyl)ether	1	73.1233	0	100	73	42	118
N-Decane	1	60.4446	0	100	60	25	129
1,3-Dichlorobenzene	1	74.7333	0	100	75	13	126
1,4-Dichlorobenzene	1	72.5325	0	100	73	13	133
1,2-Dichlorobenzene	1	73.4857	0	100	73	16	129
Benzyl alcohol	1	48.9397	0	100	49	33	150
bis(2-chloroisopropyl)ether	1	61.3914	0	100	61	28	119
Acetophenone	1	82.7269	0	100	83	47	132
Hexachloroethane	1	72.9969	0	100	73	19	132
N-Nitroso-di-n-propylamine	1	75.7699	0	100	76	46	127
Nitrobenzene	1	77.3099	0	100	77	45	134
Isophorone	1	72.7454	0	100	73	48	121
bis(2-Chloroethoxy)methane	1	82.166	0	100	82	47	131
1,2,4-Trichlorobenzene	1	86.5963	0	100	87	32	135
Naphthalene	1	80.466	0	100	80	12	146
4-Chloroaniline	1	94.4493	0	100	94	10	161
Hexachlorobutadiene	1	83.2056	0	100	83	24	136
Caprolactam	1	13.8969	0	100	14	10	155
2-Methylnaphthalene	1	88.9114	0	100	89	34	156
1-Methylnaphthalene	1	92.2002	0	100	92	44	149
1,1'-Biphenyl	1	92.6493	0	100	93	51	137
1,2,4,5-Tetrachlorobenzene	1	91.7314	0	100	92	52	131
Hexachlorocyclopentadiene	1	120.8368	0	100	121	24	137
2-Chloronaphthalene	1	89.4471	0	100	89	51	129
1,4-Dimethylnaphthalene	1	86.789	0	100	87	50	137
Diphenyl Ether	1	96.866	0	100	97	55	134
2-Nitroaniline	1	88.3847	0	100	88	45	165
Coumarin	1	0	0	100	0*	10	194
Acenaphthylene	1	88.7153	0	100	89	46	130
Dimethylphthalate	1	74.4627	0	100	74	10	177
2,6-Dinitrotoluene	1	95.7744	0	100	96	55	135
Acenaphthene	1	87.8924	0	100	88	48	136
3-Nitroaniline	1	99.8148	0	100	100	24	169
Dibenzofuran	1	92.3637	0	100	92	50	147
2,4-Dinitrotoluene	1	100.1801	0	100	100	55	136
Fluorene	1	93.2208	0	100	93	53	132
4-Chlorophenyl-phenylether	1	98.1423	0	100	98	58	133
Diethylphthalate	1	95.2934	0	100	95	25	152
4-Nitroaniline	1	91.6867	0	100	92	33	166
Atrazine	1	105.7502	0	100	106	21	152
n-Nitrosodiphenylamine	1	79.2951	0	100	79	44	122
1,2-Diphenylhydrazine	1	82.7897	0	100	83	53	140
4-Bromophenyl-phenylether	1	101.0144	0	100	101	60	139
Hexachlorobenzene	1	102.165	0	100	102	58	132
N-Octadecane	1	88.4492	0	100	88	53	157
Phenanthrene	1	98.1156	0	100	98	56	136
Anthracene	1	89.2958	0	100	89	59	131
Carbazole	1	99.7795	0	100	100	53	159
Di-n-butylphthalate	1	104.1912	0	100	104	60	140
Fluoranthene	1	99.7579	0	100	100	61	139
Pyrene	1	97.9528	0	100	98	58	133
Benzidine	1	19.7326	0	100	20	10	43
Butylbenzylphthalate	1	107.8089	0	100	108	61	145
3,3'-Dichlorobenzidine	1	115.8611	0	100	116	10	145
Benzo[a]anthracene	1	99.7306	0	100	100	56	122

* - 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: WMB110959

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chrysene	1	98.2766	0	100	98	58	136
bis(2-Ethylhexyl)phthalate	1	100.2385	0	100	100	59	145
Di-n-octylphthalate	1	95.8414	0	100	96	57	147
Benzo[b]fluoranthene	1	107.8008	0	100	108	58	146
Benzo[k]fluoranthene	1	98.2205	0	100	98	57	140
Benzo[a]pyrene	1	103.1834	0	100	103	55	135
Indeno[1,2,3-cd]pyrene	1	98.516	0	100	99	59	147
Dibenzo[a,h]anthracene	1	102.2249	0	100	102	58	142
Benzo[g,h,i]perylene	1	99.7667	0	100	100	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

Quantitation Report (QT Reviewed)

SampleID : WMB110959(MS) Operator : AH/JB Qt Meth : 9M_0907.M
Data File: 9M124822.D Sam Mult : 1 Vial# : 8 Qt On : 10/03/23 12:50
Acq On : 10/ 3/23 12:13 Misc : A,BN Qt Upd On: 09/07/23 15:10

Data Path : G:\GcMsData\2023\GCMS_9\Data\10-03-23\
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)	3.302	96	31839	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.995	152	55395	40.00	ng	0.00
31) Naphthalene-d8	6.972	136	209192	40.00	ng	0.00
50) Acenaphthene-d10	8.407	164	114325	40.00	ng	0.00
77) Phenanthrene-d10	9.878	188	201677	40.00	ng	0.00
91) Chrysene-d12	12.942	240	193014	40.00	ng	0.00
103) Perylene-d12	14.589	264	187771	40.00	ng	-0.03
System Monitoring Compounds						
11) 2-Fluorophenol	0.000	112	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
16) Phenol-d5	0.000	99	0d	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
32) Nitrobenzene-d5	6.425	128	40125	46.59	ng	0.00
Spiked Amount 50.000			Recovery =	93.18%		
55) 2-Fluorobiphenyl	7.813	172	169090	45.94	ng	0.00
Spiked Amount 50.000			Recovery =	91.88%		
80) 2,4,6-Tribromophenol	0.000	330	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
94) Terphenyl-d14	11.689	244	242679	60.71	ng	0.00
Spiked Amount 50.000			Recovery =	121.42%		
Target Compounds						Qvalue
8) 1,4-Dioxane	3.331	88	19473	24.6433	ng	99
9) Pyridine	3.684	79	85326	41.8058	ng	69
10) N-Nitrosodimethylamine	3.637	74	31658	26.6834	ng	70
12) Benzaldehyde	5.648	77	104752	65.9948	ng	99
13) Aniline	5.731	93	210369	82.2657	ng	93
14) Pentachloroethane	5.772	117	4524	7.0146	ng	73
15) bis(2-Chloroethyl)ether	5.778	93	143527	73.1233	ng	94
19) N-Decane	5.860	57	119264	60.4446	ng	77
20) 1,3-Dichlorobenzene	5.954	146	150705	74.7333	ng	97
22) 1,4-Dichlorobenzene	6.013	146	150833	72.5325	ng	98
23) 1,2-Dichlorobenzene	6.131	146	144514	73.4857	ng	99
24) Benzyl alcohol	6.101	108	54868	48.9397	ng	71
25) bis(2-chloroisopropyl)...	6.201	45	137406	61.3914	ng	93
27) Acetophenone	6.307	105	209042	82.7269	ng	58
28) Hexachloroethane	6.395	117	56844	72.9969	ng	89
29) N-Nitroso-di-n-propyla...	6.301	70	105156	75.7699	ng	91
33) Nitrobenzene	6.437	77	150443	77.3099	ng	81
34) Isophorone	6.625	82	263938	72.7454	ng	84
38) bis(2-Chloroethoxy)met...	6.772	93	182975	82.1660	ng	98
40) 1,2,4-Trichlorobenzene	6.925	180	136628	86.5963	ng	97
41) Naphthalene	6.990	128	456159	80.4660	ng	98
42) 4-Chloroaniline	7.025	127	188854m	94.4493	ng	
43) Hexachlorobutadiene	7.078	225	72935	83.2056	ng	96
44) Caprolactam	7.360	113	7680	13.8969	ng	63
46) 2-Methylnaphthalene	7.525	142	316756	88.9114	ng	98
47) 1-Methylnaphthalene	7.525	142	316384	92.2002	ng	100
48) Methylnaphthalenes (To...	7.525	142	614915m	177.4696	ng	
49) 1,1'-Biphenyl	7.901	154	391318	92.6493	ng	93
51) 1,2,4,5-Tetrachloroben...	7.654	216	143457	91.7314	ng	99
52) Hexachlorocyclopentadiene	7.642	237	81801	120.8368	ng	99
56) 2-Chloronaphthalene	7.925	162	291457	89.4471	ng	91
57) 1,4-Dimethylnaphthalene	8.207	156	222644	86.7890	ng	87
58) Dimethylnaphthalenes (...	8.207	156	222644	86.7890	ng	87
59) Diphenyl Ether	7.984	170	207797	96.8660	ng	77
60) 2-Nitroaniline	8.001	65	101332	88.3847	ng	52
61) Coumarin	8.189	146	1481m	1.1592	ng	
62) Acenaphthylene	8.284	152	429038	88.7153	ng	98
63) Dimethylphthalate	8.142	163	259576	74.4627	ng	98
64) 2,6-Dinitrotoluene	8.201	165	76539	95.7744	ng	64
65) Acenaphthene	8.437	153	293483	87.8924	ng	96
66) 3-Nitroaniline	8.360	138	86106	99.8148	ng	75
68) Dibenzofuran	8.595	168	421999	92.3637	ng	83
69) 2,4-Dinitrotoluene	8.566	165	103630	100.1801	ng	60
72) Fluorene	8.919	166	342566	93.2208	ng	97
73) 4-Chlorophenyl-phenyle...	8.907	204	171055	98.1423	ng	80
74) Diethylphthalate	8.784	149	329029	95.2934	ng	95
75) 4-Nitroaniline	8.936	138	88323	91.6867	ng	75
76) Atrazine	9.560	200	97362	105.7502	ng	94
79) n-Nitrosodiphenylamine	9.019	169	248902	79.2951	ng	98
81) 1,2-Diphenylhydrazine	9.060	77	341398	82.7897	ng	85
82) 4-Bromophenyl-phenylether	9.395	248	106114	101.0144	ng	84

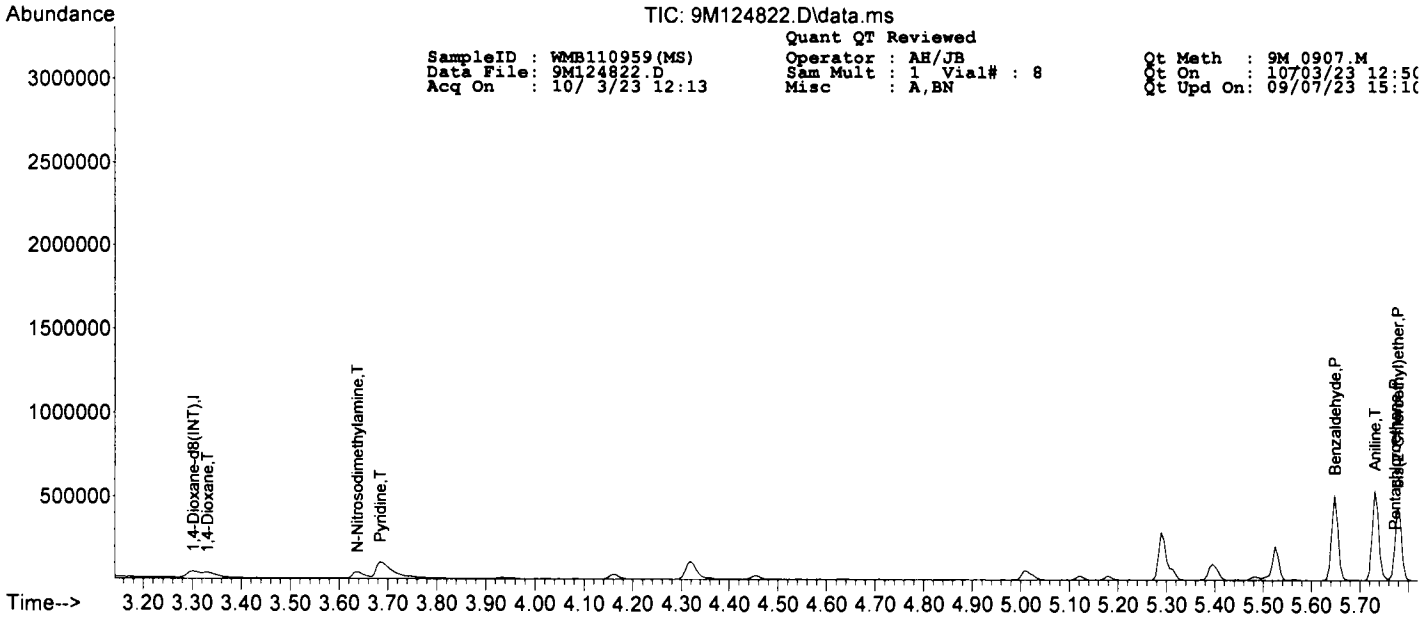
Quantitation Report (QT Reviewed)

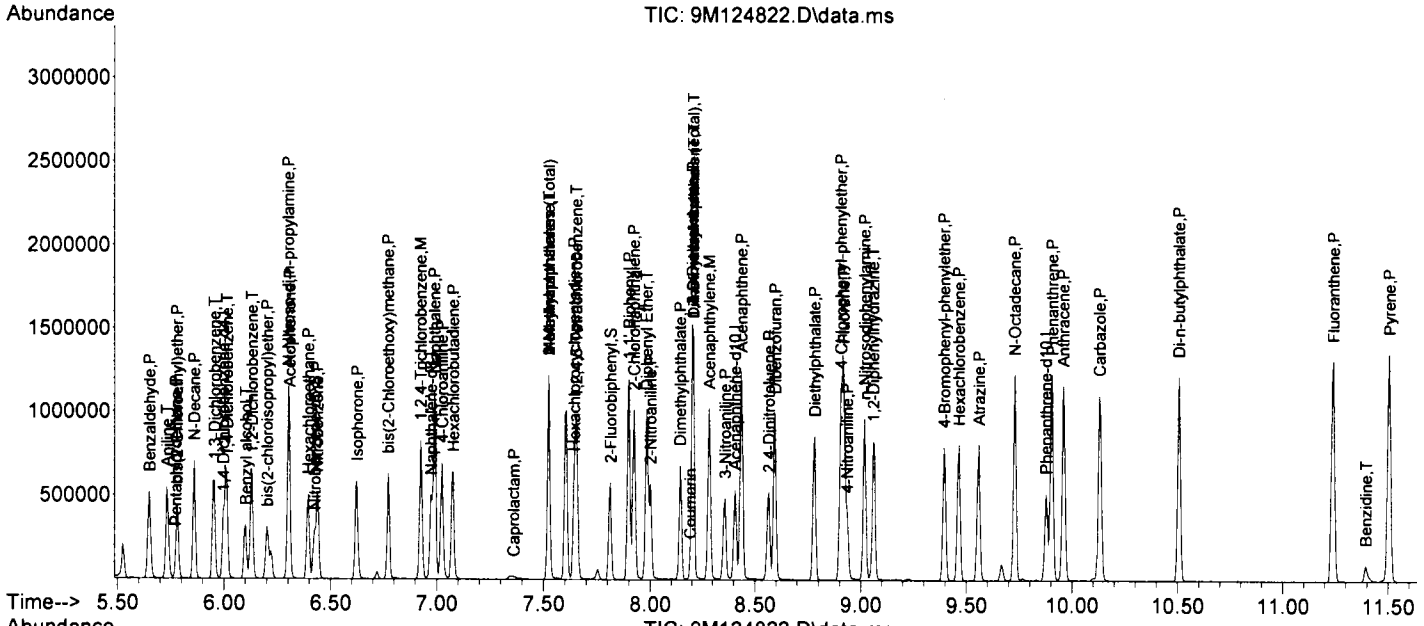
SampleID : WMBl10959(MS) Operator : AH/JB Qt Meth : 9M_0907.M
Data File: 9M124822.D Sam Mult : 1 Vial# : 8 Qt On : 10/03/23 12:50
Acq On : 10/ 3/23 12:13 Misc : A,BN Qt Upd On: 09/07/23 15:10

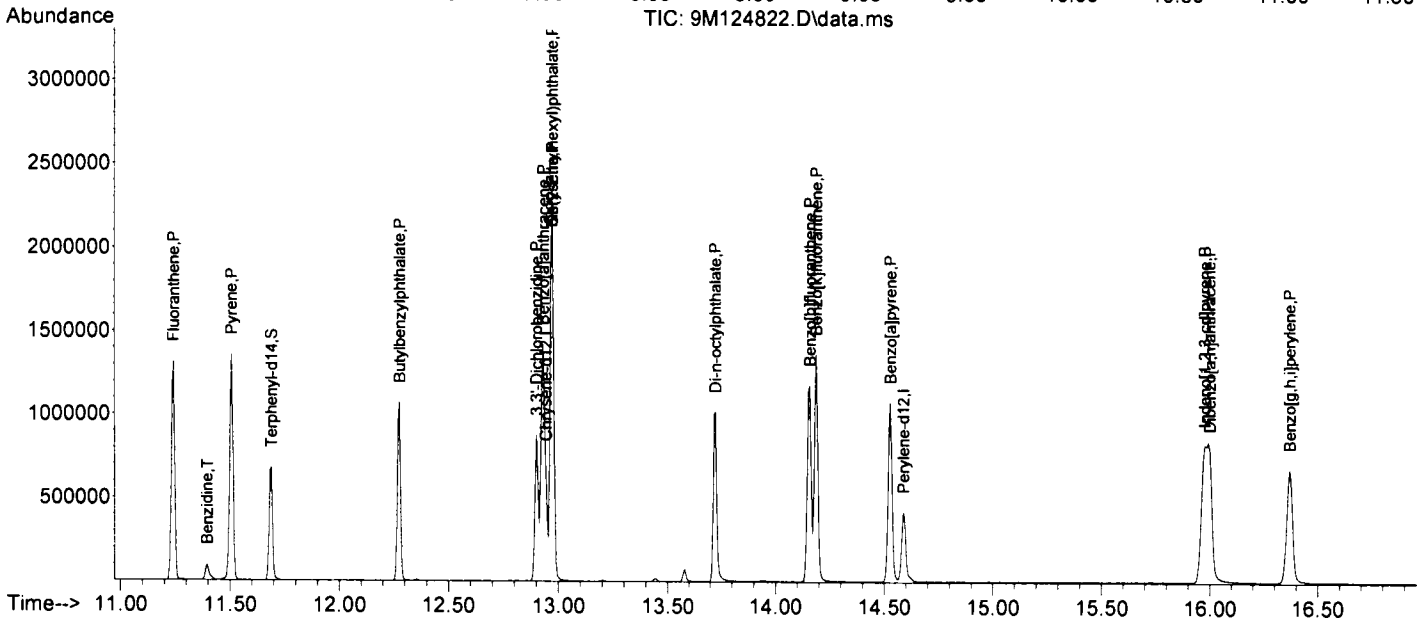
Data Path : G:\GcMsData\2023\GCMS_9\Data\10-03-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
83) Hexachlorobenzene	9.466	284	114456	102.1650	ng	59
84) N-Octadecane	9.731	57	198031	88.4492	ng	72
86) Phenanthrene	9.907	178	522001	98.1156	ng	100
87) Anthracene	9.960	178	486624	89.2958	ng	99
88) Carbazole	10.131	167	504992	99.7795	ng	96
89) Di-n-butylphthalate	10.507	149	627326	104.1912	ng	98
90) Fluoranthene	11.242	202	596476	99.7579	ng	92
92) Pyrene	11.507	202	604418	97.9528	ng	89
93) Benzidine	11.395	184	44971	19.7326	ng	88
97) Butylbenzylphthalate	12.277	149	273617	107.8089	ng	70
99) 3,3'-Dichlorobenzidine	12.901	252	212569	115.8611	ng	95
100) Benzo[a]anthracene	12.930	228	579051	99.7306	ng	99
101) Chrysene	12.972	228	547004	98.2766	ng	99
102) bis(2-Ethylhexyl)phtha...	12.972	149	361146	100.2385	ng	90
104) Di-n-octylphthalate	13.724	149	604661	95.8414	ng	100
105) Benzo[b]fluoranthene	14.160	252	574643	107.8008	ng	97
106) Benzo[k]fluoranthene	14.189	252	577774m	98.2205	ng	
107) Benzo[a]pyrene	14.530	252	514916	103.1834	ng	92
108) Indeno[1,2,3-cd]pyrene	15.977	276	598026	98.5160	ng	80
109) Dibenzo[a,h]anthracene	16.001	278	493443	102.2249	ng	87
110) Benzo[g,h,i]perylene	16.371	276	482860	99.7667	ng	75

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


Abundance
TIC: 9M124822.D\data.ms
Quant QT Reviewed
SampleID : WMB110959(MS)
Data File: 9M124822.D
Acq On : 10/ 3/23 12:13
Operator : AH/JB
Sam Mult : 1 Vial# : 8
Misc : A,BN
Qt Meth : 9M_0907.M
Qt On : 10703/23 12:5(
Qt Upd On: 09/07/23 15:1(
3000000
2500000
2000000
1500000
1000000
500000
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
Benzaldehyde,P
Aniline,T
Time-->
3.20 3.30 3.40 3.50 3.60 3.70 3.80 3.90 4.00 4.10 4.20 4.30 4.40 4.50 4.60 4.70 4.80 4.90 5.00 5.10 5.20 5.30 5.40 5.50 5.60 5.70


Abundance
TIC: 9M124822.D\data.ms
3000000
2500000
2000000
1500000
1000000
500000
Benzaldehyde,P
N-Decane,P
Isophorone,P
bis(2-Chloroethoxy)methane,P
Caprolactam,P
2-Fluorobiphenyl,S
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
N-Octadecane,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->
5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Abundance
TIC: 9M124822.D\data.ms
3000000
2500000
2000000
1500000
1000000
500000
Fluoranthene,P
Benzidine,T
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->
11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50 15.00 15.50 16.00 16.50

Form3
Recovery Data Laboratory Limits
QC Batch: WMB110959

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M124825.D	AD40498-001(T)(MS)	10/3/2023 1:23:00 PM
Non Spike(If applicable):	9M124824.D	AD40498-001(T)	10/3/2023 1:00:00 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**	**62.9106**	**0**	**100**	**63**	**16**	**112**
Pyridine	1	72.0746	0	100	72	10	131
N-Nitrosodimethylamine	1	71.491	0	100	71	24	118
Benzaldehyde	1	51.5413	0	100	52	10	103
Aniline	1	102.3785	0	100	102	10	149
Pentachloroethane	1	12.5413	0	100	13	10	155
bis(2-Chloroethyl)ether	1	84.8773	0	100	85	42	118
N-Decane	1	68.3053	0	100	68	25	129
1,3-Dichlorobenzene	1	85.2818	0	100	85	13	126
1,4-Dichlorobenzene	1	82.2817	0	100	82	13	133
1,2-Dichlorobenzene	1	82.8288	0	100	83	16	129
Benzyl alcohol	1	85.9698	0	100	86	33	150
bis(2-chloroisopropyl)ether	1	68.1177	0	100	68	28	119
Acetophenone	1	88.2742	0	100	88	47	132
Hexachloroethane	1	83.6075	0	100	84	19	132
N-Nitroso-di-n-propylamine	1	81.4986	0	100	81	46	127
Nitrobenzene	1	85.5102	0	100	86	45	134
Isophorone	1	80.0216	0	100	80	48	121
bis(2-Chloroethoxy)methane	1	88.7072	0	100	89	47	131
1,2,4-Trichlorobenzene	1	97.1476	0	100	97	32	135
Naphthalene	1	90.6486	0.6814	100	90	12	146
4-Chloroaniline	1	103.3438	0	100	103	10	161
Hexachlorobutadiene	1	95.3467	0	100	95	24	136
Caprolactam	1	67.4333	0	100	67	10	155
2-Methylnaphthalene	1	93.9665	0	100	94	34	156
1-Methylnaphthalene	1	92.606	0	100	93	44	149
1,1'-Biphenyl	1	93.2377	0	100	93	51	137
1,2,4,5-Tetrachlorobenzene	1	94.3939	0	100	94	52	131
Hexachlorocyclopentadiene	1	128.3553	0	100	128	24	137
2-Chloronaphthalene	1	94.7771	0	100	95	51	129
1,4-Dimethylnaphthalene	1	87.4256	0	100	87	50	137
Diphenyl Ether	1	98.3403	0	100	98	55	134
2-Nitroaniline	1	87.2781	0	100	87	45	165
Coumarin	1	13.7126	0	100	14	10	194
Acenaphthylene	1	94.5744	0	100	95	46	130
Dimethylphthalate	1	34.8515	0	100	35	10	177
2,6-Dinitrotoluene	1	97.6545	0	100	98	55	135
Acenaphthene	1	92.235	0	100	92	48	136
3-Nitroaniline	1	102.6371	0	100	103	24	169
Dibenzofuran	1	95.2834	0	100	95	50	147
2,4-Dinitrotoluene	1	103.2917	0	100	103	55	136
Fluorene	1	99.2177	0	100	99	53	132
4-Chlorophenyl-phenylether	1	102.8713	0	100	103	58	133
Diethylphthalate	1	93.6503	0	100	94	25	152
4-Nitroaniline	1	98.6167	0	100	99	33	166
Atrazine	1	108.8076	0	100	109	21	152
n-Nitrosodiphenylamine	1	83.6433	0	100	84	44	112
1,2-Diphenylhydrazine	1	92.1992	0	100	92	53	140
4-Bromophenyl-phenylether	1	104.1828	0	100	104	60	139
Hexachlorobenzene	1	104.0266	0	100	104	58	132
N-Octadecane	1	86.934	0	100	87	53	157
Phenanthrene	1	99.7479	0	100	100	56	136
Anthracene	1	93.5902	0	100	94	59	131
Carbazole	1	99.0756	0	100	99	53	149
Di-n-butylphthalate	1	107.4689	0	100	107	60	140
Fluoranthene	1	104.5653	0	100	105	61	139
Pyrene	1	99.6862	0	100	100	58	133
Benzidine	1	26.6603	0	100	27	10	43
Butylbenzylphthalate	1	108.5551	0	100	109	61	145
3,3'-Dichlorobenzidine	1	119.8025	0	100	120	10	145
Benzo[a]anthracene	1	102.547	0	100	103	56	122

* - 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: WMB110959

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chrysene	1	97.2595	0	100	97	58	136
bis(2-Ethylhexyl)phthalate	1	101.1516	0	100	101	59	145
Di-n-octylphthalate	1	98.517	0	100	99	57	147
Benzo[b]fluoranthene	1	108.7082	0	100	109	58	146
Benzo[k]fluoranthene	1	99.9189	0	100	100	57	140
Benzo[a]pyrene	1	106.3952	0	100	106	55	135
Indeno[1,2,3-cd]pyrene	1	101.3761	0	100	101	59	147
Dibenzo[a,h]anthracene	1	104.2501	0	100	104	58	142
Benzo[g,h,i]perylene	1	100.8258	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: WMB110959

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M124826.D	AD40498-001(T)(MSD)	10/3/2023 1:46:00 PM
Non Spike(If applicable):	9M124824.D	AD40498-001(T)	10/3/2023 1:00:00 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**	**53.1887**	**0**	**100**	**53**	**16**	**112**
Pyridine	1	62.5987	0	100	63	10	131
N-Nitrosodimethylamine	1	63.0645	0	100	63	24	118
Benzaldehyde	1	52.3127	0	100	52	10	103
Aniline	1	93.9506	0	100	94	10	149
Pentachloroethane	1	12.3505	0	100	12	10	155
bis(2-Chloroethyl)ether	1	77.8667	0	100	78	42	118
N-Decane	1	60.394	0	100	60	25	129
1,3-Dichlorobenzene	1	78.1904	0	100	78	13	126
1,4-Dichlorobenzene	1	76.7452	0	100	77	13	133
1,2-Dichlorobenzene	1	77.4591	0	100	77	16	129
Benzyl alcohol	1	81.337	0	100	81	33	150
bis(2-chloroisopropyl)ether	1	63.7731	0	100	64	28	119
Acetophenone	1	82.1401	0	100	82	47	132
Hexachloroethane	1	76.9878	0	100	77	19	132
N-Nitroso-di-n-propylamine	1	79.1842	0	100	79	46	127
Nitrobenzene	1	82.3564	0	100	82	45	134
Isophorone	1	77.6992	0	100	78	48	121
bis(2-Chloroethoxy)methane	1	86.8744	0	100	87	47	131
1,2,4-Trichlorobenzene	1	91.1465	0	100	91	32	135
Naphthalene	1	85.5516	0.6814	100	85	12	146
4-Chloroaniline	1	97.8475	0	100	98	10	161
Hexachlorobutadiene	1	88.6679	0	100	89	24	136
Caprolactam	1	65.5975	0	100	66	10	155
2-Methylnaphthalene	1	89.2038	0	100	89	34	156
1-Methylnaphthalene	1	88.9896	0	100	89	44	149
1,1'-Biphenyl	1	90.0247	0	100	90	51	137
1,2,4,5-Tetrachlorobenzene	1	90.7914	0	100	91	52	131
Hexachlorocyclopentadiene	1	124.2276	0	100	124	24	137
2-Chloronaphthalene	1	91.3411	0	100	91	51	129
1,4-Dimethylnaphthalene	1	85.1231	0	100	85	50	137
Diphenyl Ether	1	94.9144	0	100	95	55	134
2-Nitroaniline	1	88.0331	0	100	88	45	165
Coumarin	1	13.4223	0	100	13	10	194
Acenaphthylene	1	94.1945	0	100	94	46	130
Dimethylphthalate	1	50.1765	0	100	50	10	177
2,6-Dinitrotoluene	1	98.6051	0	100	99	55	135
Acenaphthene	1	92.4585	0	100	92	48	136
3-Nitroaniline	1	103.4078	0	100	103	24	169
Dibenzofuran	1	94.1609	0	100	94	50	147
2,4-Dinitrotoluene	1	102.7676	0	100	103	55	136
Fluorene	1	98.0035	0	100	98	53	132
4-Chlorophenyl-phenylether	1	101.4647	0	100	101	58	133
Diethylphthalate	1	96.4946	0	100	96	25	152
4-Nitroaniline	1	97.8717	0	100	98	33	166
Atrazine	1	106.8376	0	100	107	21	152
n-Nitrosodiphenylamine	1	86.3139	0	100	86	44	112
1,2-Diphenylhydrazine	1	94.6299	0	100	95	53	140
4-Bromophenyl-phenylether	1	105.4772	0	100	105	60	139
Hexachlorobenzene	1	107.2993	0	100	107	58	132
N-Octadecane	1	88.8852	0	100	89	53	157
Phenanthrene	1	103.5298	0	100	104	56	136
Anthracene	1	96.7019	0	100	97	59	131
Carbazole	1	99.4944	0	100	99	58	136
Di-n-butylphthalate	1	109.6566	0	100	110	60	140
Fluoranthene	1	107.6262	0	100	108	61	139
Pyrene	1	100.9001	0	100	101	58	133
Benzidine	1	26.4215	0	100	26	10	43
Butylbenzylphthalate	1	111.5637	0	100	112	61	145
3,3'-Dichlorobenzidine	1	123.8474	0	100	124	10	145
Benzo[a]anthracene	1	104.1619	0	100	104	56	122

* - 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: WMB110959

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chrysene	1	99.6842	0	100	100	58	136
bis(2-Ethylhexyl)phthalate	1	104.899	0	100	105	59	145
Di-n-octylphthalate	1	102.692	0	100	103	57	147
Benzo[b]fluoranthene	1	113.4693	0	100	113	58	146
Benzo[k]fluoranthene	1	99.1908	0	100	99	57	140
Benzo[a]pyrene	1	108.1798	0	100	108	55	135
Indeno[1,2,3-cd]pyrene	1	102.7414	0	100	103	59	147
Dibenzo[a,h]anthracene	1	106.5139	0	100	107	58	142
Benzo[g,h,i]perylene	1	102.1578	0	100	102	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: WMB110959

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M124826.D	AD40498-001(T)(MSD)	10/3/2023 1:46:00 PM
Duplicate(If applicable):	9M124825.D	AD40498-001(T)(MS)	10/3/2023 1:23:00 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**	**53.1887**	**62.9106**	**17**	**58**
Pyridine	1	62.5987	72.0746	14	143
N-Nitrosodimethylamine	1	63.0645	71.491	13	40
Benzaldehyde	1	52.3127	51.5413	1.5	92
Aniline	1	93.9506	102.3785	8.6	138
Pentachloroethane	1	12.3505	12.5413	1.5	79
bis(2-Chloroethyl)ether	1	77.8667	84.8773	8.6	42
N-Decane	1	60.394	68.3053	12	59
1,3-Dichlorobenzene	1	78.1904	85.2818	8.7	90
1,4-Dichlorobenzene	1	76.7452	82.2817	7	88
1,2-Dichlorobenzene	1	77.4591	82.8288	6.7	74
Benzyl alcohol	1	81.337	85.9698	5.5	35
bis(2-chloroisopropyl)ether	1	63.7731	68.1177	6.6	48
Acetophenone	1	82.1401	88.2742	7.2	30
Hexachloroethane	1	76.9878	83.6075	8.2	88
N-Nitroso-di-n-propylamine	1	79.1842	81.4986	2.9	56
Nitrobenzene	1	82.3564	85.5102	3.8	38
Isophorone	1	77.6992	80.0216	2.9	35
bis(2-Chloroethoxy)methane	1	86.8744	88.7072	2.1	44
1,2,4-Trichlorobenzene	1	91.1465	97.1476	6.4	50
Naphthalene	1	85.5516	90.6486	5.8	47
4-Chloroaniline	1	97.8475	103.3438	5.5	85
Hexachlorobutadiene	1	88.6679	95.3467	7.3	58
Caprolactam	1	65.5975	67.4333	2.8	33
2-Methylnaphthalene	1	89.2038	93.9665	5.2	38
1-Methylnaphthalene	1	88.9896	92.606	4	32
1,1'-Biphenyl	1	90.0247	93.2377	3.5	31
1,2,4,5-Tetrachlorobenzene	1	90.7914	94.3939	3.9	32
Hexachlorocyclopentadiene	1	124.2276	128.3553	3.3	48
2-Chloronaphthalene	1	91.3411	94.7771	3.7	35
1,4-Dimethylnaphthalene	1	85.1231	87.4256	2.7	31
Diphenyl Ether	1	94.9144	98.3403	3.5	32
2-Nitroaniline	1	88.0331	87.2781	0.86	37
Coumarin	1	13.4223	13.7126	2.1	97
Acenaphthylene	1	94.1945	94.5744	0.4	41
Dimethylphthalate	1	50.1765	34.8515	36	108
2,6-Dinitrotoluene	1	98.6051	97.6545	0.97	35
Acenaphthene	1	92.4585	92.235	0.24	35
3-Nitroaniline	1	103.4078	102.6371	0.75	64
Dibenzofuran	1	94.1609	95.2834	1.2	36
2,4-Dinitrotoluene	1	102.7676	103.2917	0.51	35
Fluorene	1	98.0035	99.2177	1.2	34
4-Chlorophenyl-phenylether	1	101.4647	102.8713	1.4	33
Diethylphthalate	1	96.4946	93.6503	3	37
4-Nitroaniline	1	97.8717	98.6167	0.76	35
Atrazine	1	106.8376	108.8076	1.8	47
n-Nitrosodiphenylamine	1	86.3139	83.6433	3.1	37
1,2-Diphenylhydrazine	1	94.6299	92.1992	2.6	36
4-Bromophenyl-phenylether	1	105.4772	104.1828	1.2	34
Hexachlorobenzene	1	107.2993	104.0266	3.1	34
N-Octadecane	1	88.8852	86.934	2.2	31
Phenanthrene	1	103.5298	99.7479	3.7	33
Anthracene	1	96.7019	93.5902	3.3	34
Carbazole	1	99.4944	99.0756	0.42	32
Di-n-butylphthalate	1	109.6566	107.4689	2	34
Fluoranthene	1	107.6262	104.5653	2.9	34
Pyrene	1	100.9001	99.6862	1.2	33
Benzidine	1	26.4215	26.6603	0.9	213
Butylbenzylphthalate	1	111.5637	108.5551	2.7	34
3,3'-Dichlorobenzidine	1	123.8474	119.8025	3.3	126
Benzo[a]anthracene	1	104.1619	102.547	1.6	33

* - 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: WMB110959

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chrysene	1	99.6842	97.2595	2.5	32
bis(2-Ethylhexyl)phthalate	1	104.899	101.1516	3.6	33
Di-n-octylphthalate	1	102.692	98.517	4.1	36
Benzo[b]fluoranthene	1	113.4693	108.7082	4.3	36
Benzo[k]fluoranthene	1	99.1908	99.9189	0.73	20
Benzo[a]pyrene	1	108.1798	106.3952	1.7	35
Indeno[1,2,3-cd]pyrene	1	102.7414	101.3761	1.3	35
Dibenzo[a,h]anthracene	1	106.5139	104.2501	2.1	35
Benzo[g,h,i]perylene	1	102.1578	100.8258	1.3	35

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

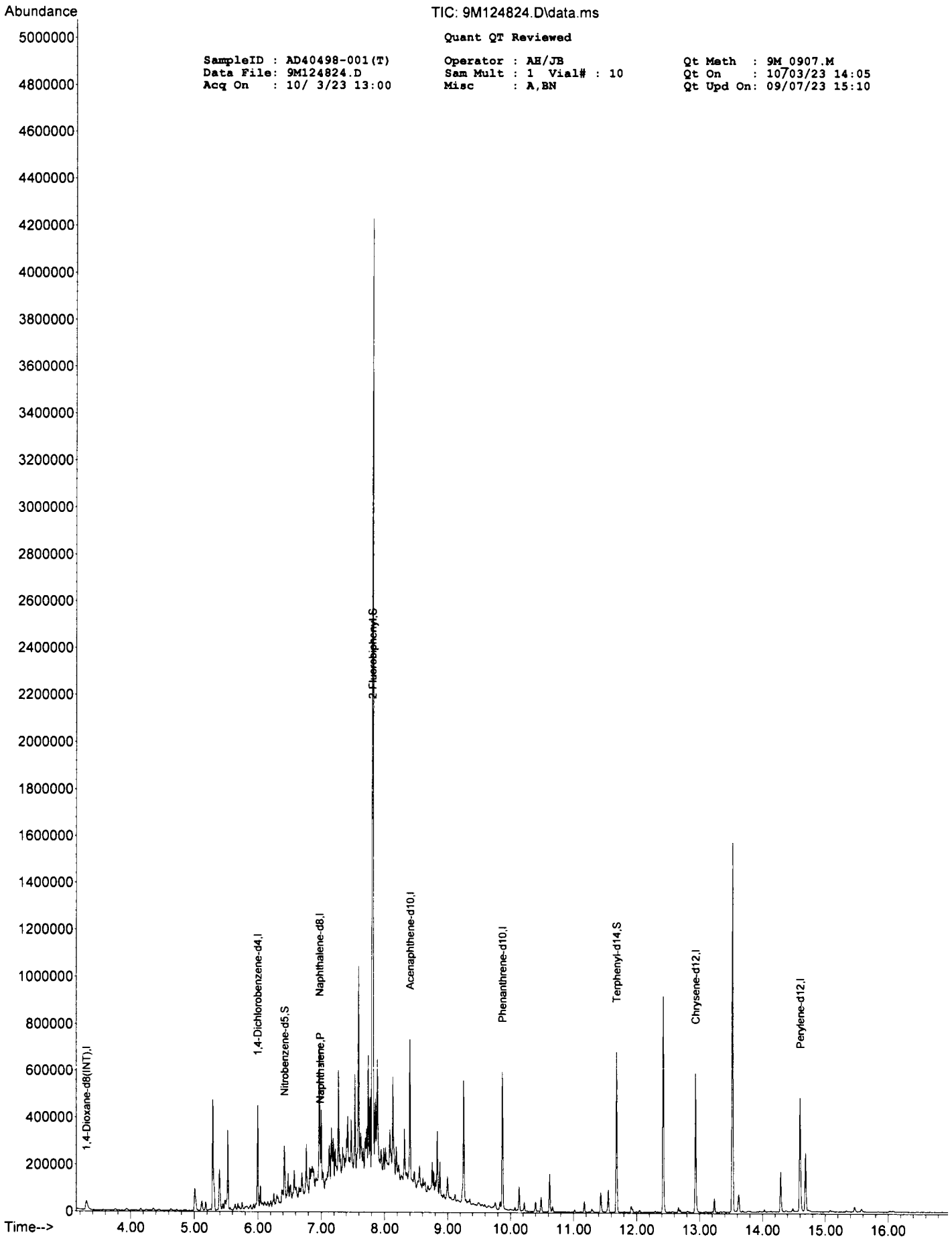
Quantitation Report (QT Reviewed)

SampleID : AD40498-001(T) Operator : AH/JB Qt Meth : 9M_0907.M
Data File: 9M124824.D Sam Mult : 1 Vial# : 10 Qt On : 10/03/23 14:05
Acq On : 10/ 3/23 13:00 Misc : A,BN Qt Upd On: 09/07/23 15:10

Data Path : G:\GcMsData\2023\GCMS_9\Data\10-03-23\
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)	3.302	96	33450	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.996	152	61582	40.00	ng	0.00
31) Naphthalene-d8	6.972	136	230579	40.00	ng	0.00
50) Acenaphthene-d10	8.401	164	128122	40.00	ng	0.00
77) Phenanthrene-d10	9.872	188	231936	40.00	ng	0.00
91) Chrysene-d12	12.936	240	225821	40.00	ng	0.00
103) Perylene-d12	14.601	264	220572	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	0.000	112	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
16) Phenol-d5	0.000	99	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
32) Nitrobenzene-d5	6.425	128	35162	37.04	ng	0.00
Spiked Amount 50.000			Recovery =	74.08%		
55) 2-Fluorobiphenyl	7.807	172	159791	38.74	ng	0.00
Spiked Amount 50.000			Recovery =	77.48%		
80) 2,4,6-Tribromophenol	0.000	330	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
94) Terphenyl-d14	11.683	244	225103	48.13	ng	0.00
Spiked Amount 50.000			Recovery =	96.26%		
Target Compounds						Qvalue
41) Naphthalene	6.984	128	4258m	0.6814	ng	

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


Abundance
TIC: 9M124824.D\data.ms
Quant QT Reviewed
SampleID : AD40498-001(T)
Data File: 9M124824.D
Acq On : 10/ 3/23 13:00
Operator : AH/JB
Sam Mult : 1 Vial# : 10
Misc : A,BN
Qt Meth : 9M_0907.M
Qt On : 10/03/23 14:05
Qt Upd On: 09/07/23 15:10
5000000
4800000
4600000
4400000
4200000
4000000
3800000
3600000
3400000
3200000
3000000
2800000
2600000
2400000
2200000
2000000
1800000
1600000
1400000
1200000
1000000
800000
600000
400000
200000
0
1,4-Dioxane-d8(INT),I
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
Naphthalene,P
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->
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

Quantitation Report (QT Reviewed)

SampleID : AD40498-001(T)(MS) Operator : AH/JB Qt Meth : 9M_0907.M
Data File: 9M124825.D Sam Mult : 1 Vial# : 11 Qt On : 10/04/23 15:24
Acq On : 10/ 3/23 13:23 Misc : A,BN Qt Upd On: 09/07/23 15:10

Data Path : G:\GcMsData\2023\GCMS_9\Data\10-03-23\
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)	3.302	96	31259	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.996	152	54667	40.00	ng	0.00
31) Naphthalene-d8	6.966	136	202448	40.00	ng	0.00
50) Acenaphthene-d10	8.401	164	112732	40.00	ng	0.00
77) Phenanthrene-d10	9.872	188	201927	40.00	ng	0.00
91) Chrysene-d12	12.942	240	197041	40.00	ng	0.00
103) Perylene-d12	14.583	264	191545	40.00	ng	-0.04
System Monitoring Compounds						
11) 2-Fluorophenol	0.000	112	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
16) Phenol-d5	0.000	99	0d	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
32) Nitrobenzene-d5	6.425	128	38964	46.75	ng	0.00
Spiked Amount 50.000			Recovery =	93.50%		
55) 2-Fluorobiphenyl	7.807	172	179975	49.59	ng	0.00
Spiked Amount 50.000			Recovery =	99.18%		
80) 2,4,6-Tribromophenol	0.000	330	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
94) Terphenyl-d14	11.683	244	236115	57.86	ng	0.00
Spiked Amount 50.000			Recovery =	115.72%		
Target Compounds						Qvalue
8) 1,4-Dioxane	3.331	88	48806	62.9106	ng	94
9) Pyridine	3.684	79	144425	72.0746	ng	67
10) N-Nitrosodimethylamine	3.631	74	83274	71.4910	ng	72
12) Benzaldehyde	5.649	77	80320	51.5413	ng	100
13) Aniline	5.731	93	257032	102.3785	ng	93
14) Pentachloroethane	5.772	117	7941	12.5413	ng	78
15) bis(2-Chloroethyl)ether	5.778	93	163563	84.8773	ng	97
19) N-Decane	5.860	57	132319	68.3053	ng	76
20) 1,3-Dichlorobenzene	5.949	146	168844	85.2818	ng	99
22) 1,4-Dichlorobenzene	6.013	146	168858	82.2817	ng	98
23) 1,2-Dichlorobenzene	6.131	146	160747	82.8288	ng	98
24) Benzyl alcohol	6.101	108	95117	85.9698	ng	72
25) bis(2-chloroisopropyl)...	6.201	45	150457	68.1177	ng	95
27) Acetophenone	6.307	105	220128	88.2742	ng	56
28) Hexachloroethane	6.396	117	64251	83.6075	ng	89
29) N-Nitroso-di-n-propyla...	6.301	70	111620	81.4986	ng	89
33) Nitrobenzene	6.437	77	161036	85.5102	ng	81
34) Isophorone	6.619	82	280978	80.0216	ng	83
38) bis(2-Chloroethoxy)met...	6.772	93	191173	88.7072	ng	98
40) 1,2,4-Trichlorobenzene	6.919	180	148334	97.1476	ng	98
41) Naphthalene	6.984	128	497317	90.6486	ng	98
42) 4-Chloroaniline	7.019	127	199977m	103.3438	ng	
43) Hexachlorobutadiene	7.072	225	80883	95.3467	ng	97
44) Caprolactam	7.307	113	36065	67.4333	ng	62
46) 2-Methylnaphthalene	7.519	142	323973	93.9665	ng	99
47) 1-Methylnaphthalene	7.595	142	307532	92.6060	ng	99
48) Methylnaphthalenes (To...	7.519	142	630452m	188.0150	ng	
49) 1,1'-Biphenyl	7.890	154	381108	93.2377	ng	95
51) 1,2,4,5-Tetrachloroben...	7.648	216	145564	94.3939	ng	97
52) Hexachlorocyclopentadiene	7.637	237	85680	128.3553	ng	99
56) 2-Chloronaphthalene	7.919	162	304521	94.7771	ng	91
57) 1,4-Dimethylnaphthalene	8.195	156	221152	87.4256	ng	88
58) Dimethylnaphthalenes (...	8.195	156	221152	87.4256	ng	88
59) Diphenyl Ether	7.978	170	208020	98.3403	ng	75
60) 2-Nitroaniline	7.995	65	98669	87.2781	ng	50
61) Coumarin	8.178	146	17275m	13.7126	ng	
62) Acenaphthylene	8.278	152	451000	94.5744	ng	98
63) Dimethylphthalate	8.137	163	119799	34.8515	ng	98
64) 2,6-Dinitrotoluene	8.195	165	76954	97.6545	ng	63
65) Acenaphthene	8.431	153	303692	92.2350	ng	97
66) 3-Nitroaniline	8.354	138	87307	102.6371	ng	75
68) Dibenzofuran	8.584	168	429273	95.2834	ng	85
69) 2,4-Dinitrotoluene	8.560	165	105360	103.2917	ng	57
72) Fluorene	8.913	166	359523	99.2177	ng	99
73) 4-Chlorophenyl-phenyle...	8.901	204	176799	102.8713	ng	80
74) Diethylphthalate	8.772	149	318850	93.6503	ng	97
75) 4-Nitroaniline	8.925	138	93675	98.6167	ng	76
76) Atrazine	9.554	200	98781	108.8076	ng	94
78) 4,6-Dinitro-2-methylph...	8.837	198	608	1.1376	ng	85
79) n-Nitrosodiphenylamine	9.013	169	262876	83.6433	ng	98
81) 1,2-Diphenylhydrazine	9.054	77	380671	92.1992	ng	84

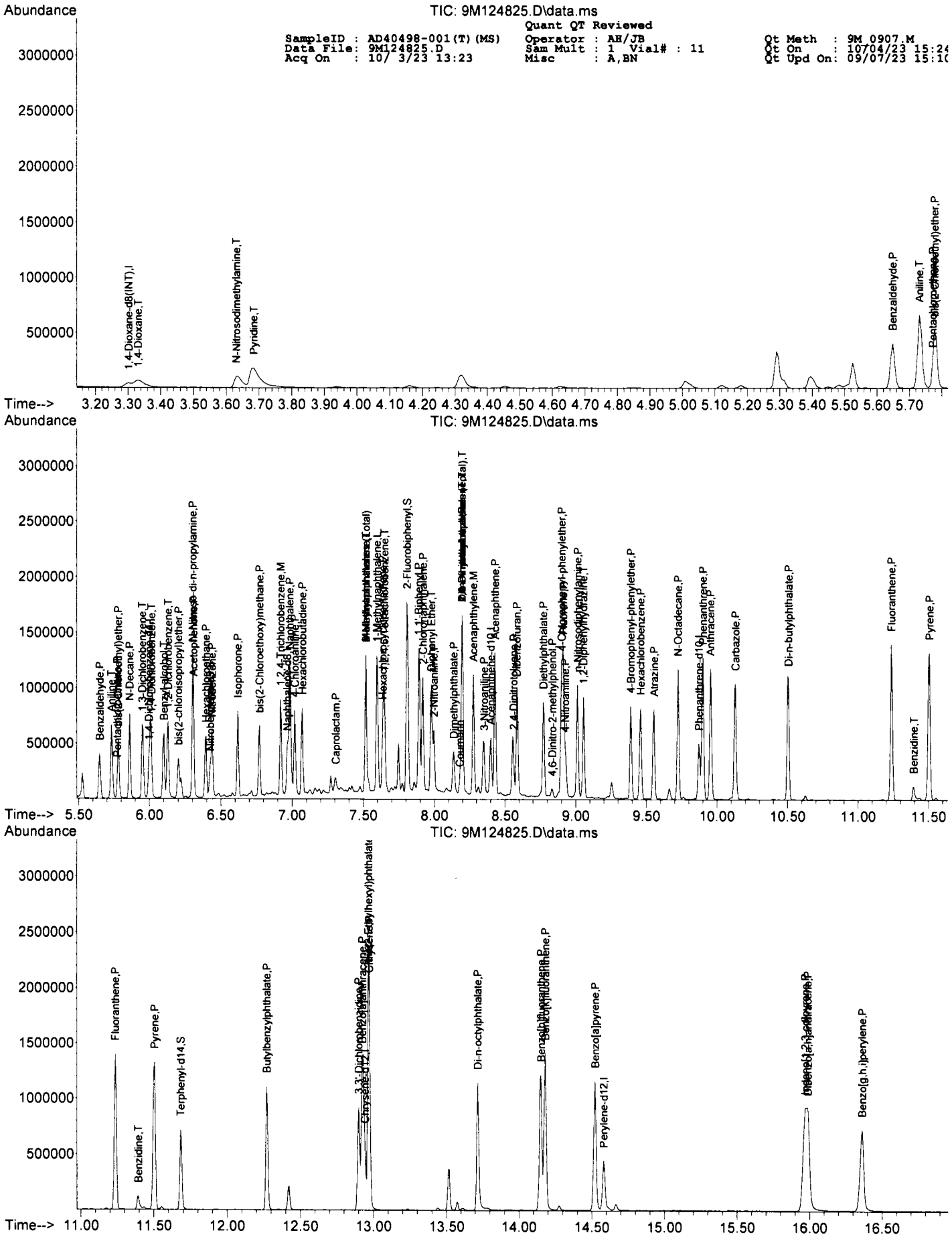
Quantitation Report (QT Reviewed)

SampleID : AD40498-001(T)(MS) Operator : AH/JB Qt Meth : 9M_0907.M
Data File: 9M124825.D Sam Mult : 1 Vial# : 11 Qt On : 10/04/23 15:24
Acq On : 10/ 3/23 13:23 Misc : A,BN Qt Upd On: 09/07/23 15:10

Data Path : G:\GcMsData\2023\GCMS_9\Data\10-03-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82)	4-Bromophenyl-phenylether	9.390	248	109578	104.1828	ng	82
83)	Hexachlorobenzene	9.460	284	116686	104.0266	ng	60
84)	N-Octadecane	9.725	57	194880	86.9340	ng	73
86)	Phenanthrene	9.901	178	531343	99.7479	ng	99
87)	Anthracene	9.954	178	510659	93.5902	ng	99
88)	Carbazole	10.131	167	502051	99.0756	ng	95
89)	Di-n-butylphthalate	10.507	149	647863	107.4689	ng	97
90)	Fluoranthene	11.236	202	625996	104.5653	ng	93
92)	Pyrene	11.507	202	627948	99.6862	ng	88
93)	Benzidine	11.395	184	62027	26.6603	ng	88
97)	Butylbenzylphthalate	12.272	149	281259	108.5551	ng	76
99)	3,3'-Dichlorobenzidine	12.901	252	224386	119.8025	ng	96
100)	Benzo[a]anthracene	12.925	228	607826	102.5470	ng	99
101)	Chrysene	12.972	228	552637	97.2595	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.966	149	372039	101.1516	ng	93
104)	Di-n-octylphthalate	13.719	149	635595	98.5170	ng	100
105)	Benzo[b]fluoranthene	14.154	252	591127	108.7082	ng	98
106)	Benzo[k]fluoranthene	14.183	252	599578m	99.9189	ng	
107)	Benzo[a]pyrene	14.524	252	541615	106.3952	ng	92
108)	Indeno[1,2,3-cd]pyrene	15.971	276	627757	101.3761	ng	80
109)	Dibenzo[a,h]anthracene	15.989	278	513333	104.2501	ng	88
110)	Benzo[g,h,i]perylene	16.366	276	497794	100.8258	ng	75

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


Abundance
TIC: 9M124825.D\data.ms
Quant QT Reviewed
SampleID : AD40498-001(T)(MS)
Data File: 9M124825.D
Acq On : 10/ 3/23 13:23
Operator : AH/JB
Sam Mult : 1 Vial# : 11
Misc : A,BN
Qt Meth : 9M_0907.M
Qt On : 10/04/23 15:24
Qt Upd On: 09/07/23 15:10
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
Benzaldehyde,P
Aniline,T
Time-->
3.20 3.30 3.40 3.50 3.60 3.70 3.80 3.90 4.00 4.10 4.20 4.30 4.40 4.50 4.60 4.70 4.80 4.90 5.00 5.10 5.20 5.30 5.40 5.50 5.60 5.70
Abundance
TIC: 9M124825.D\data.ms
Benzaldehyde,P
N-Decane,P
Isophorone,P
bis(2-Chloroethoxy)methane,P
Caprolactam,P
Diethylphthalate,P
Acenaphthene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->
5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50
Abundance
TIC: 9M124825.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->
11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50 15.00 15.50 16.00 16.50

Quantitation Report (QT Reviewed)

SampleID : AD40498-001(T)(MSD) Operator : AH/JB Qt Meth : 9M_0907.M
Data File: 9M124826.D Sam Mult : 1 Vial# : 12 Qt On : 10/05/23 14:04
Acq On : 10/ 3/23 13:46 Misc : A,BN Qt Upd On: 09/07/23 15:10

Data Path : G:\GcMsData\2023\GCMS_9\Data\10-03-23\
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)	3.302	96	32897	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.996	152	57525	40.00	ng	0.00
31) Naphthalene-d8	6.972	136	214871	40.00	ng	0.00
50) Acenaphthene-d10	8.401	164	119111	40.00	ng	0.00
77) Phenanthrene-d10	9.872	188	209034	40.00	ng	0.00
91) Chrysene-d12	12.942	240	206752	40.00	ng	0.00
103) Perylene-d12	14.583	264	198936	40.00	ng	-0.04
System Monitoring Compounds						
11) 2-Fluorophenol	0.000	112	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
16) Phenol-d5	0.000	99	0d	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
32) Nitrobenzene-d5	6.425	128	37826	42.76	ng	0.00
Spiked Amount 50.000			Recovery =	85.52%		
55) 2-Fluorobiphenyl	7.807	172	186595	48.66	ng	0.00
Spiked Amount 50.000			Recovery =	97.32%		
80) 2,4,6-Tribromophenol	0.000	330	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
94) Terphenyl-d14	11.683	244	250399	58.48	ng	0.00
Spiked Amount 50.000			Recovery =	116.96%		
Target Compounds						Qvalue
8) 1,4-Dioxane	3.331	88	43426	53.1887	ng	99
9) Pyridine	3.684	79	132010	62.5987	ng	66
10) N-Nitrosodimethylamine	3.631	74	77308	63.0645	ng	72
12) Benzaldehyde	5.649	77	85794	52.3127	ng	98
13) Aniline	5.731	93	248233	93.9506	ng	93
14) Pentachloroethane	5.772	117	8230	12.3505	ng	85
15) bis(2-Chloroethyl)ether	5.778	93	157916	77.8667	ng	95
19) N-Decane	5.860	57	123124	60.3940	ng	77
20) 1,3-Dichlorobenzene	5.954	146	162916	78.1904	ng	96
22) 1,4-Dichlorobenzene	6.007	146	165730	76.7452	ng	98
23) 1,2-Dichlorobenzene	6.131	146	158185	77.4591	ng	98
24) Benzyl alcohol	6.101	108	94696	81.3370	ng	70
25) bis(2-chloroisopropyl)...	6.201	45	148225	63.7731	ng	93
27) Acetophenone	6.307	105	215540	82.1401	ng	57
28) Hexachloroethane	6.390	117	62257	76.9878	ng	85
29) N-Nitroso-di-n-propyla...	6.301	70	114120	79.1842	ng	92
33) Nitrobenzene	6.437	77	164614	82.3564	ng	80
34) Isophorone	6.619	82	289565	77.6992	ng	85
38) bis(2-Chloroethoxy)met...	6.772	93	198712	86.8744	ng	97
40) 1,2,4-Trichlorobenzene	6.919	180	147711	91.1465	ng	97
41) Naphthalene	6.984	128	498155	85.5516	ng	98
42) 4-Chloroaniline	7.019	127	200960m	97.8475	ng	
43) Hexachlorobutadiene	7.072	225	79833	88.6679	ng	97
44) Caprolactam	7.307	113	37236	65.5975	ng	62
46) 2-Methylnaphthalene	7.519	142	326425	89.2038	ng	98
47) 1-Methylnaphthalene	7.601	142	313657	88.9896	ng	99
48) Methylnaphthalenes (To...	7.519	142	639395m	179.6576	ng	
49) 1,1'-Biphenyl	7.895	154	390555	90.0247	ng	93
51) 1,2,4,5-Tetrachloroben...	7.648	216	147931	90.7914	ng	97
52) Hexachlorocyclopentadiene	7.637	237	87617	124.2276	ng	99
56) 2-Chloronaphthalene	7.919	162	310088	91.3411	ng	90
57) 1,4-Dimethylnaphthalene	8.201	156	227512	85.1231	ng	86
58) Dimethylnaphthalenes (...	8.201	156	227512	85.1231	ng	86
59) Diphenyl Ether	7.978	170	212134	94.9144	ng	76
60) 2-Nitroaniline	7.995	65	105154	88.0331	ng	51
61) Coumarin	8.184	146	17866m	13.4223	ng	
62) Acenaphthylene	8.278	152	474606	94.1945	ng	98
63) Dimethylphthalate	8.137	163	182237	50.1765	ng	98
64) 2,6-Dinitrotoluene	8.195	165	82100	98.6051	ng	63
65) Acenaphthene	8.431	153	321654	92.4585	ng	95
66) 3-Nitroaniline	8.354	138	92940	103.4078	ng	76
68) Dibenzofuran	8.590	168	448220	94.1609	ng	83
69) 2,4-Dinitrotoluene	8.560	165	110757	102.7676	ng	60
72) Fluorene	8.913	166	375218	98.0035	ng	99
73) 4-Chlorophenyl-phenyle...	8.901	204	184249	101.4647	ng	81
74) Diethylphthalate	8.778	149	347124	96.4946	ng	96
75) 4-Nitroaniline	8.931	138	98228	97.8717	ng	73
76) Atrazine	9.554	200	102481	106.8376	ng	94
78) 4,6-Dinitro-2-methylph...	8.837	198	601	1.0863	ng	56
79) n-Nitrosodiphenylamine	9.013	169	280817	86.3139	ng	98
81) 1,2-Diphenylhydrazine	9.054	77	404458	94.6299	ng	85

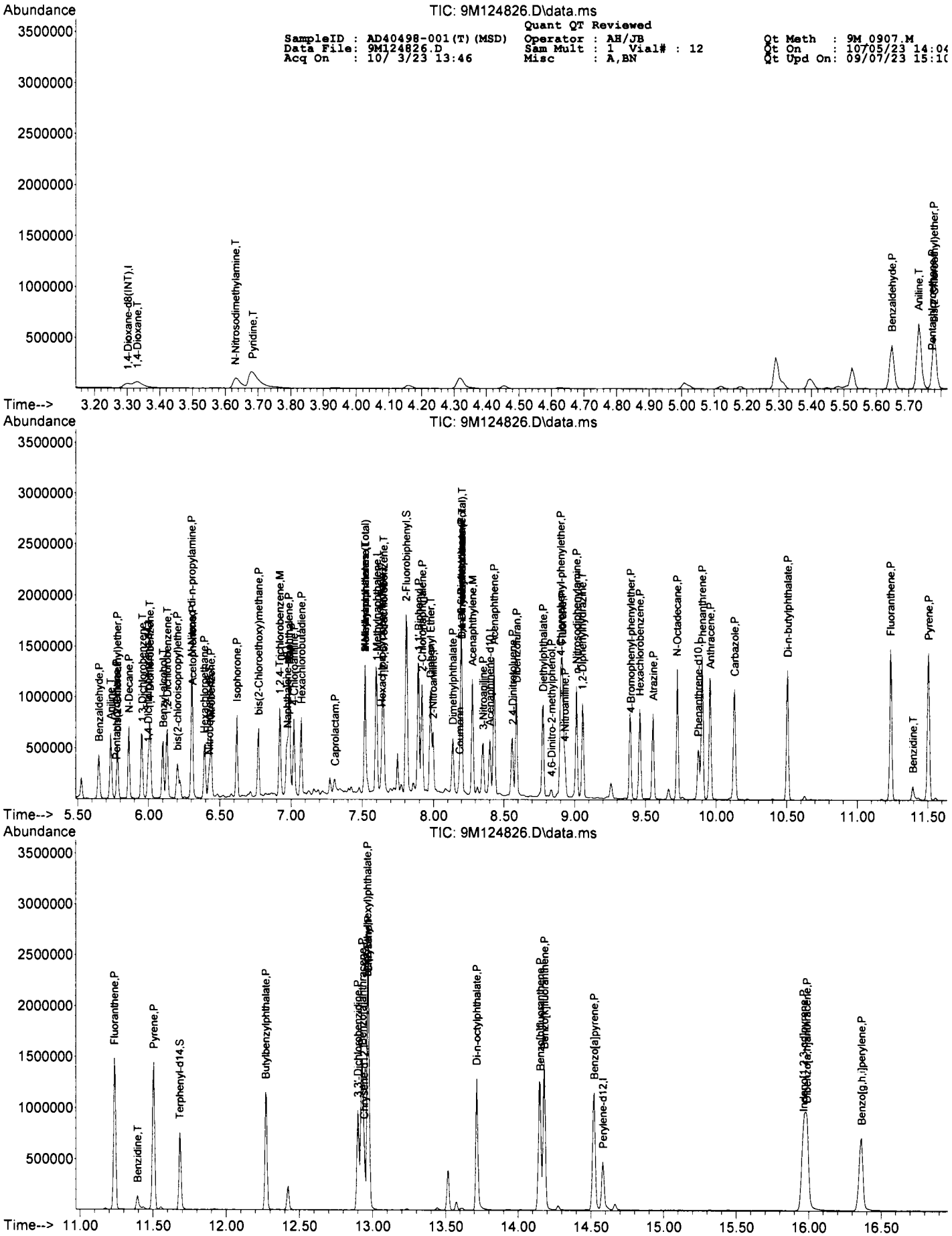
Quantitation Report (QT Reviewed)

SampleID : AD40498-001(T)(MSD) Operator : AH/JB Qt Meth : 9M_0907.M
Data File: 9M124826.D Sam Mult : 1 Vial# : 12 Qt On : 10/05/23 14:04
Acq On : 10/ 3/23 13:46 Misc : A,BN Qt Upd On: 09/07/23 15:10

Data Path : G:\GcMsData\2023\GCMS_9\Data\10-03-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82)	4-Bromophenyl-phenylether	9.395	248	114844	105.4772	ng	78
83)	Hexachlorobenzene	9.460	284	124593	107.2993	ng	62
84)	N-Octadecane	9.725	57	206267	88.8852	ng	74
86)	Phenanthrene	9.901	178	570899	103.5298	ng	99
87)	Anthracene	9.960	178	546208	96.7019	ng	99
88)	Carbazole	10.131	167	521918	99.4944	ng	95
89)	Di-n-butylphthalate	10.507	149	684318	109.6566	ng	97
90)	Fluoranthene	11.236	202	666998	107.6262	ng	94
92)	Pyrene	11.507	202	666919	100.9001	ng	89
93)	Benzidine	11.395	184	64501	26.4215	ng	87
97)	Butylbenzylphthalate	12.272	149	303300	111.5637	ng	77
99)	3,3'-Dichlorobenzidine	12.901	252	243394	123.8474	ng	96
100)	Benzo[a]anthracene	12.930	228	647826	104.1619	ng	99
101)	Chrysene	12.972	228	594330	99.6842	ng	100
102)	bis(2-Ethylhexyl)phtha...	12.966	149	404837	104.8990	ng	92
104)	Di-n-octylphthalate	13.719	149	690733	102.6920	ng	100
105)	Benzo[b]fluoranthene	14.154	252	640825	113.4693	ng	97
106)	Benzo[k]fluoranthene	14.183	252	618176m	99.1908	ng	
107)	Benzo[a]pyrene	14.524	252	571949	108.1798	ng	92
108)	Indeno[1,2,3-cd]pyrene	15.966	276	660760	102.7414	ng	81
109)	Dibenzo[a,h]anthracene	15.989	278	544718	106.5139	ng	88
110)	Benzo[g,h,i]perylene	16.366	276	523832	102.1578	ng	75

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


Abundance
TIC: 9M124826.D\data.ms
Quant QT Reviewed
SampleID : AD40498-001(T)(MSD)
Data File: 9M124826.D
Acq On : 10/ 3/23 13:46
Operator : AH/JB
Sam Mult : 1 Vial# : 12
Misc : A,BN
Qt Meth : 9M_0907.M
Qt On : 10/05/23 14:04
Qt Upd On: 09/07/23 15:10
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
Benzaldehyde,P
Aniline,T
Time-->
Abundance
TIC: 9M124826.D\data.ms
Benzaldehyde,P
N-Decane,P
Isophorone,P
bis(2-Chloroethoxy)methane,P
Caprolactam,P
2-Fluorobiphenyl,S
Dimethylphthalate,P
Acenaphthylene,M
Acenaphthene,P
Diethylphthalate,P
4,6-Dinitro-2-methylphenol,P
4-Nitroaniline,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
N-Octadecane,P
Phenanthrene-d10,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->
Abundance
TIC: 9M124826.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

GC/MS Base Neutral/Acid Extractable Data
Logbook Data

QC110959

Hampton-Clarke

Extraction of Semi-volatile – Aqueous
Method 3510 C

Batch No.: 110959
Start extraction time: 6:36 pm
End extraction time: 6:03 am
Recirculator: Start temp: 15.9, 15.0
End temp: 15.9, 14.8

Date: 10/2/23
Shaker Used: 2,3,4
Condenser used: 1,2,5
Condenser Flow: 2500 CCM

Sample Number	# In Batch	Initial Volume	Final Volume	pH Verif NaOH ≥12	pH Verif H_2SO_4 <2	Fraction BN	Fraction BNA	Fraction AE	Extracted By/ Comments TCLP/SPLP Extract Fluid	Ext by	QC	
MB 110959	X	1000	1.0	X		X			SPLP 401790 9127	gm	40498-001	
MBS 110959	X	↓	↓	↓		↓				↓		
MS 40498-001	X	250	↓									
MSD 40498-001	X	↓	↓									
AQ 40498-001	1	500	0.5						1		1	1/2 Surr.
AQ 40453-003	2	↓	↓						2		2	↓
SPLP 401790 9127	X	↓	↓									
AQ 40586-001	3	960	1.0									
↓ -003	4	500	0.5									1/2 Surr.
-004	5	↓	↓									↓
-005	6											
↓ -006	7	↓	↓	↓		↓				↓		

Spike Standard

Vol (µl)	Conc. (ppm/ppb)	Lot No.	
50	2000	15467	BN Mix
↓	↓	15438	Toxic Mix
↓	↓	402241	CLP Mix

Surrogate Standard

Vol (µl)	Conc. (ppm/ppb)	Lot No.	
50	1000/2000	399522	BNA Surr.

Reagent Lots: $MeCl_2$ 15498 Acetone _____ Hexane _____ baked Na_2SO_4 404476
10N NaOH 404438 H_2SO_4 _____ Other _____

Relinquished By: gm Date: 10/2/23
Received By: KT Date: 10/03/23

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RUN LOG

1-1-9M124630

Instrument: GCMS_9 Year: 2023
Analyst: AH/JB

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
9M124630.	CAL DFTPP	Ee1=1.2;Ed1=0.54;	OK, V-399279	JB 09/07/23		Aqueous	1	1		09/07 10:40
9M124631.	CAL BNA@50PPM	IsRo	RR	JB 09/07/23		Aqueous	1	1	625\8270	09/07 11:03
9M124632.	CAL BNA@196PPM		OK, V-403050	JB 09/07/23		Aqueous	1	1	625\8270	09/07 11:26
9M124633.	CAL BNA@160PPM		OK, V-403049	JB 09/07/23		Aqueous	1	1	625\8270	09/07 11:50
9M124634.	CAL BNA@120PPM		OK, V-403048	JB 09/07/23		Aqueous	1	1	625\8270	09/07 12:13
9M124635.	CAL BNA@80PPM		OK, V-403047	JB 09/07/23		Aqueous	1	1	625\8270	09/07 12:36
9M124636.	CAL BNA@10PPM		OK, V-403044	JB 09/07/23		Aqueous	1	1	625\8270	09/07 13:00
9M124637.	CAL BNA@2PPM		OK, V-403052	JB 09/07/23		Aqueous	1	1	625\8270	09/07 13:23
9M124638.	CAL BNA@0.5PPM		OK, V-403053	JB 09/07/23		Aqueous	1	1	625\8270	09/07 13:46
9M124639.	CAL BNA@20PPM		OK, V-403045	JB 09/07/23		Aqueous	1	1	625\8270	09/07 14:10
9M124640.	CAL BNA@50PPM		OK, V-403046	JB 09/07/23		Aqueous	1	1	625\8270	09/07 14:33
9M124641.	ICV BNA@50PPM		OK, V-403064	JB 09/07/23		Aqueous	1	1	625\8270	09/07 15:02
9M124642.	WMB110804(MS)		OK WMB110804	KT 09/07/23,KT 09/08/23,KT 09/08/23		Aqueous	1	1	625\8270	09/07 15:42
9M124643.	SMB110788(MS)		OK SMB110788	KT 09/08/23		Soil	1	1	8270E	09/07 16:21
9M124644.	SMB110788		OK	KT 09/08/23		Soil	1	1	8270E	09/07 16:44

Anc	Area Not Checked	Ep	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Etn	Tcln/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for anh
B8m	Blank 8000 series missing	Eto	Tcln Extraction Performed Outside of Hold	FvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Fvnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hh	Analysis Before Collection Date	Fvrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R1\8 R2\8	Rpt Out on MsMed (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R1\8 R2\8	Rpt Out on MsMed (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Rto	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

Instrument: GCMS_9 Year: 2023
Analyst: AH/JB

1-1-9M124815

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
9M124815.	CAL DFTPP	Ee1=57;Ed1=0.18;	OK, V-399279	JB 10/05/23		Aqueous	1	1		10/03 09:14
9M124816.	CAL BNA@50PPM		OK, V-403046	JB 10/05/23		Aqueous	1	1	625\8270	10/03 09:37
9M124822.	WMB110959(MS)	M16M18	OK WMB110959	JB 10/03/23		Aqueous	1	1	625\8270	10/03 12:13
9M124823.	WMB110959		OK	JB 10/03/23		Aqueous	1	1	625\8270	10/03 12:37
9M124824.	AD40498-001(T)	Esm	OK WMB110959	JB 10/03/23	BNPSPLP-82	Aqueous	1	1	625\8270	10/03 13:00
9M124825.	AD40498-001(T)(M	Esm	OK WMB110959	JB 10/05/23	BNPSPLP-82	Aqueous	1	1	625\8270	10/03 13:23
9M124826.	AD40498-001(T)(M	Esm	OK WMB110959	JB 10/05/23	BNPSPLP-82	Aqueous	1	1	625\8270	10/03 13:46
9M124827.	AD40453-003(T)		OK	JB 10/05/23	BNPAH-8270	Aqueous	1	1	8270E	10/03 14:09
9M124828.	EF-SPLP V-401790(		OK	JB 10/05/23		Aqueous	1	9	8270E	10/03 14:32
9M124829.	AD40586-001		OK	JB 10/05/23	BN-8270	Aqueous	1	1	8270E	10/03 14:56
9M124830.	AD40586-003		OK	JB 10/05/23	BN-8270	Aqueous	1	1	8270E	10/03 15:19
9M124831.	AD40586-004		OK	JB 10/05/23	BN-8270	Aqueous	1	1	8270E	10/03 15:43
9M124832.	AD40586-005		OK	JB 10/05/23	BN-8270	Aqueous	1	1	8270E	10/03 16:06
9M124833.	AD40586-006		OK	JB 10/05/23	BN-8270	Aqueous	1	1	8270E	10/03 16:29
9M124834.	AD40587-001		OK	JB 10/05/23	BNA-625.1	Aqueous	1	1	625	10/03 16:52
9M124835.	AD40626-009		OK	JB 10/05/23	BNA25-8270	Aqueous	1	1	8270E	10/03 17:15
9M124836.	AD40626-010		OK	JB 10/05/23	BNA25-8270	Aqueous	1	1	8270E	10/03 17:57
9M124837.	AD40625-001		OK	JB 10/05/23	BNA25-8270	Aqueous	1	1	8270E	10/03 18:19
9M124838.	AD40625-002		OK	JB 10/05/23	BNA25-8270	Aqueous	1	1	8270E	10/03 18:42
9M124839.	AD40625-003		OK	JB 10/05/23	BNA25-8270	Aqueous	1	1	8270E	10/03 19:05
9M124840.	AD40625-004		OK	JB 10/05/23	BNA25-8270	Aqueous	1	1	8270E	10/03 19:28

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Etn	Tetn/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for eph
B8m	Blank 8000 series missing	Eto	Tetn Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C1B	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C1R	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R1B R2B	Rpd Out on MsMsd (col1 and or col2) 600 series
C2B	Calibration Column 2 Out (600 Series)	I1B I2B	Initial cal 600 series failed Column 1 and or 2	R1R R2R	Rpd Out on MsMsd (col1 and or col2) 8000 series
C2R	Calibration Column 2 Out (8000 Series)	I1R I2R	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

Instrument: GCMS_12Year: 2023
Analyst: AH/JB

1-1-12M68242

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
12M68242.	CAL DFTPP	Ee1=3.2;Ed1=0.53;	OK, V-399279	kt 09/21/23		Aqueous	1	1		09/20 08:06
12M68243.	SIM@5PPM	IsCnAnc	RR	jb 09/25/23		Aqueous	1	1	8270ESI	09/20 08:24
12M68244.	CAL SIM@0.2PPM		ok, v-403071	jb 09/25/23		Aqueous	1	1	8270ESI	09/20 08:47
12M68245.	CAL SIM@0.1PPM		ok, v-403074	jb 09/25/23		Aqueous	1	1	8270ESI	09/20 09:13
12M68246.	SIM@0.02PPM		RR	jb 09/25/23		Aqueous	1	1	8270ESI	09/20 09:34
12M68247.	SIM@0.5PPM		RR	jb 09/25/23		Aqueous	1	1	8270ESI	09/20 09:55
12M68248.	CAL SIM@1PPM		ok, v-403072	jb 09/25/23		Aqueous	1	1	8270ESI	09/20 10:17
12M68249.	CAL SIM@10PPM		ok, v-403067	jb 09/25/23		Aqueous	1	1	8270ESI	09/20 10:38
12M68250.	CAL SIM@19.6PPM		ok, v-403066	jb 09/25/23		Aqueous	1	1	8270ESI	09/20 11:00
12M68251.	CAL SIM@5PPM		ok, v-403068	jb 09/25/23		Aqueous	1	1	8270ESI	09/20 11:21
12M68252.	SIM@0.5PPM		RR	jb 09/25/23		Aqueous	1	1	8270ESI	09/20 11:54
12M68253.	SIM@0.02PPM		RR	jb 09/25/23		Aqueous	1	1	8270ESI	09/20 12:40
12M68254.	CAL SIM@0.5PPM		ok, v-,ok, v-403069	jb 09/25/23		Aqueous	1	1	8270ESI	09/20 13:02
12M68255.	CAL SIM@0.02PPM		ok, v-403070	jb 09/25/23		Aqueous	1	1	8270ESI	09/20 13:25
12M68256.	ICV SIM@1PPM	Is	ok, v-403075	jb 09/25/23		Aqueous	1	1	8270ESI	09/20 13:47

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Eto	Trip/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for eob
B8m	Blank 8000 series missing	Eto	Trip Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endop
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calrpt csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

1-1-12M68458

Instrument: GCMS_12Year: 2023
Analyst: AH/JB

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
12M68458.	CAL DFTPP	Ee1=4.6;Ed1=0.85;	OK, V-399279	JB 10/05/23		Aqueous	1	1		10/03 09:05
12M68459.	CAL SIM@5PPM		OK, V-403068	JB 10/05/23		Aqueous	1	1	8270ESI	10/03 09:27
12M68460.	SIM@5PPM		NOT USED	JB 10/05/23		Aqueous	1	1	8270ESI	10/03 09:49
12M68461.	TCDD STD@5PPM		OK, V-400459	JB 10/05/23		Aqueous	1	1	8270ESI	10/03 10:11
12M68469.	WMB110959		OK	JB 10/05/23		Aqueous	1	1	8270ESI	10/03 13:11
12M68470.	OMB110950		OK	JB 10/05/23		Oil/Other	1	1	8270ESI	10/03 13:32
12M68471.	AD40581-001(5X)	SdAoEba	NOT USED	JB 10/05/23	BNP-SIM-827	Oil/Other	5	5	8270ESI	10/03 13:54
12M68472.	AD40570-001		OK	JB 10/04/23	BN-SIM-8270	Aqueous	1	1	8270ESI	10/03 14:15
12M68473.	AD40570-002		OK	JB 10/04/23	BN-SIM-8270	Aqueous	1	1	8270ESI	10/03 14:36
12M68474.	AD40558-001		OK	JB 10/04/23	BNA-SIM-827	Aqueous	1	1	8270ESI	10/03 14:58
12M68475.	AD40586-001		OK	JB 10/05/23	BN-SIM-8270	Aqueous	1	1	8270ESI	10/03 15:19
12M68476.	AD40586-003		OK	JB 10/05/23	BN-SIM-8270	Aqueous	1	1	8270ESI	10/03 15:41
12M68477.	AD40586-004		OK	JB 10/05/23	BN-SIM-8270	Aqueous	1	1	8270ESI	10/03 16:02
12M68478.	AD40586-005		OK	JB 10/05/23	BN-SIM-8270	Aqueous	1	1	8270ESI	10/03 16:24
12M68479.	AD40586-006		OK	JB 10/05/23	BN-SIM-8270	Aqueous	1	1	8270ESI	10/03 16:45
12M68480.	AD40587-001		OK	JB 10/05/23	ERROR	Aqueous	1	1	8270ESI	10/03 17:06
12M68481.	AD40626-009		OK	JB 10/05/23	BNA-SIM-827	Aqueous	1	1	8270ESI	10/03 17:27
12M68482.	AD40626-010		OK	JB 10/05/23	BNA-SIM-827	Aqueous	1	1	8270ESI	10/03 17:48
12M68483.	AD40625-001		OK	JB 10/05/23	BNA-SIM-827	Aqueous	1	1	8270ESI	10/03 18:09
12M68484.	AD40625-002		OK	JB 10/05/23	BNA-SIM-827	Aqueous	1	1	8270ESI	10/03 18:31
12M68485.	AD40625-003		OK	JB 10/05/23	BNA-SIM-827	Aqueous	1	1	8270ESI	10/03 18:52
12M68486.	AD40625-004		OK	JB 10/05/23	BNA-SIM-827	Aqueous	1	1	8270ESI	10/03 19:13
12M68487.	AD40498-001(T)	AncEsm	OK	JB 10/05/23	ERROR	Aqueous	1	1	625\8270	10/03 19:34
12M68488.	AD40453-003(T)	Esm	OK	JB 10/05/23	ERROR	Aqueous	1	1	8270ESI	10/03 19:56
12M68489.	EF-SPLP V-401790(		OK	JB 10/05/23		Aqueous	1	9	8270ESI	10/03 20:17

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 ... not checked
B8m	Blank 600 series missing	Etn	Tcln/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for anh
B8m	Blank 8000 series missing	Eto	Tcln Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C8f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Ddft
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Endino Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-392947

Prepared By: Bis, Yolanta
Department: Organics
ApprovedBy: akmal
Description: Pyridine Stock Std.
BatchNumber:
ApproveDate: 04/11/23
Prep Date: 4/5/2023
Concentration: 10,000 ppm
Checked: Yes
Expiration Date: 4/5/2024
Final Volume: 1 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12769	Pyridine	10 ul	neat neat	10000 ppm
14864	Methylene Chloride Optima-4L	990 ul	NEAT neat	

Veritech Lot Number: V-394768

Prepared By: Hamid, Akmal
Department: Organics
ApprovedBy: akmal
Description: BNA Internal Std.
BatchNumber:
ApproveDate: 05/03/23
Prep Date: 5/3/2023
Concentration: 2000 ppm
Checked: Yes
Expiration Date: 5/3/2024
Final Volume: 500 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15084	Naphthalene-D8	1 g	NEAT neat	2000 ppm
15086	Phenanthrene-d10	1 g	NEAT neat	2000 ppm
15087	Chrysene-d12	1 g	NEAT neat	2000 ppm
15088	Perylene-d12	1 g	NEAT neat	2000 ppm
13897	Acenaphthene-d10	1 g	NEAT neat	2000 ppm
12507	1,4-Dichlorobenzene-D4	1 g	NEAT neat	2000 ppm
15082	1,4 Dioxane-D8	1 g	NEAT neat	2000 ppm
14864	Methylene Chloride Optima-4L	500 ml	NEAT neat	

Veritech Lot Number: V-399186

Prepared By: Hamid, Akmal
Department: Organics
ApprovedBy: akmal
Description: DFTPP STOCK STD.
BatchNumber:
ApproveDate: 07/11/23
Prep Date: 7/11/2023
Concentration: 2000 ppm
Checked: Yes
Expiration Date: 7/11/2024
Final Volume: 5 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14599	DFTPP STD.	.01 g	NEAT neat	2000 ppm
15387	dichloromethane	5 ml	neat neat	

Veritech Lot Number: V-399279

Prepared By: Bis, Yolanta
Department: Organics
ApprovedBy: akmal
Description: DFTPP Mix
BatchNumber:
ApproveDate: 07/12/23
Prep Date: 7/12/2023
Concentration: 50 ppm
Checked: Yes
Expiration Date: 1/12/2024
Final Volume: 1 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-399186	DFTPP STOCK STD.	25 ul	2000 ppm	50 ppm
15268	DDT - Endrin Mix	200 ul	500 ppm	100 ppm
14759	Phenolics Mix	50 ul	2000 ppm	100 ppm
15050	EPA TCL Benzidines Mix	50 ul	2000 ppm	100 ppm
14765	dichloromethane	675 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-394768

Prepared By: Hamid, Akmal
Description: BNA Internal Std.
Prep Date: 5/3/2023
Expiration Date: 5/3/2024
Department: Organics
BatchNumber:
Concentration: 2000 ppm
Final Volume: 500 ml
ApprovedBy: akmal
ApproveDate: 05/03/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15084	Naphthalene-D8	1 g	NEAT neat	2000 ppm
15086	Phenanthrene-d10	1 g	NEAT neat	2000 ppm
15087	Chrysene-d12	1 g	NEAT neat	2000 ppm
15088	Perylene-d12	1 g	NEAT neat	2000 ppm
13897	Acenaphthene-d10	1 g	NEAT neat	2000 ppm
12507	1,4-Dichlorobenzene-D4	1 g	NEAT neat	2000 ppm
15082	1,4 Dioxane-D8	1 g	NEAT neat	2000 ppm
14864	Methylene Chloride Optima-4L	500 ml	NEAT neat	

Veritech Lot Number: V-399522

Prepared By: Hamid, Akmal
Description: BNA Surrog.Std.(danger)
Prep Date: 7/14/2023
Expiration Date: 7/14/2024
Department: Organics
BatchNumber:
Concentration: 1000-2000 pp
Final Volume: 1000 ml
ApprovedBy: akmal
ApproveDate: 07/14/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
13086	2-Fluorobiphenyl	1 g	NEAT neat	1000 ppm
14141	p-Terphenyl-d14	1 g	NEAT neat	1000 ppm
14820	Phenol-2,3,4,5,6-d5	2 g	NEAT neat	2000 ppm
14809	2,4,6-Tribromophenol	2 g	NEAT neat	2000 ppm
12021	Nitrobenzene-d5	800 ul	NEAT neat	1000 ppm
12716	2-Fluorophenol	1.6 ml	NEAT neat	2000 ppm
15396	Acetone	1000 ml	neat neat	

Veritech Lot Number: V-400407

Prepared By: Bis, Yolanta
Description: INTERNAL STD@20PPM
Prep Date: 7/25/2023
Expiration Date: 1/25/2024
Department: Organics
BatchNumber:
Concentration: 20 ppm
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 08/04/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-394768	BNA Internal Std.	.5 ml	2000 ppm	20 ppm
14765	dichloromethane	49.5 ml	neat neat	

Veritech Lot Number: V-400459

Prepared By: Bis, Yolanta
Description: TCDD STD
Prep Date: 7/26/2023
Expiration Date: 1/25/2024
Department: Organics
BatchNumber:
Concentration: 5 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 08/04/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14978	2,3,7,8-Tetrachlorodibenzo-p-dioxin	100 ul	50 ppm	5 ppm
v-400407	INTERNAL STD@20PPM	20 ul	20 ppm	0.4 ppm
14765	dichloromethane	880 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-399522

Prepared By: Hamid, Akmal
Description: BNA Surrog.Std.(danger)
Prep Date: 7/14/2023
Expiration Date: 7/14/2024
Department: Organics
BatchNumber:
Concentration: 1000-2000 pp
Final Volume: 1000 ml
ApprovedBy: akmal
ApproveDate: 07/14/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
13086	2-Fluorobiphenyl	1 g	NEAT neat	1000 ppm
14141	p-Terphenyl-d14	1 g	NEAT neat	1000 ppm
14820	Phenol-2,3,4,5,6-d5	2 g	NEAT neat	2000 ppm
14809	2,4,6-Tribromophenol	2 g	NEAT neat	2000 ppm
12021	Nitrobenzene-d5	800 ul	NEAT neat	1000 ppm
12716	2-Fluorophenol	1.6 ml	NEAT neat	2000 ppm
15396	Acetone	1000 ml	neat neat	

Veritech Lot Number: V-401784

Prepared By: Hamid, Akmal
Description: BNA-Pest Mix(Danger)
Prep Date: 8/16/2023
Expiration Date: 8/16/2024
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 08/16/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15448	4,4'-DDD	.05 g	NEAT neat	5000 ppm
13106	4,4' -DDE	.05 g	NEAT neat	5000 ppm
14867	4,4-DDT	.05 g	NEAT neat	5000 ppm
14864	Methylene Chloride Optima-4L	10 ml	NEAT neat	

Veritech Lot Number: V-401785

Prepared By: Hamid, Akmal
Description: BNA-6 MIX
Prep Date: 8/16/2023
Expiration Date: 8/16/2024
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 08/16/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14821	Biphenyl	.05 g	NEAT neat	5000 ppm
14182	Coumarin	.05 g	NEAT neat	5000 ppm
13496	Octadecane	.05 g	NEAT neat	5000 ppm
14901	Pentachloroethane	.05 g	NEAT neat	5000 ppm
9435	1,4-Dimethylnaphthalene	.0518 g	95 %	5000 ppm
14183	n-Decane	.05 g	NEAT neat	5000 ppm
14864	Methylene Chloride Optima-4L	10 ml	NEAT neat	

Veritech Lot Number: V-401789

Prepared By: Hamid, Akmal
Description: BNA-7 MIX
Prep Date: 8/16/2023
Expiration Date: 8/16/2024
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 08/16/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14808	2,3,4,6-Tetrachlorophenol	.05 g	NEAT neat	5000 ppm
14821	Biphenyl	.05 g	NEAT neat	5000 ppm
14182	Coumarin	.05 g	NEAT neat	5000 ppm
13496	Octadecane	.05 g	NEAT neat	5000 ppm
14901	Pentachloroethane	.05 g	NEAT neat	5000 ppm
9435	1,4-Dimethylnaphthalene	.0518 g	95 %	5000 ppm
14183	n-Decane	.05 g	NEAT neat	5000 ppm
14864	Methylene Chloride Optima-4L	10 ml	NEAT neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-401784

Prepared By: Hamid, Akmal
Description: BNA-Pest Mix(Danger)
Prep Date: 8/16/2023
Expiration Date: 8/16/2024
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 08/16/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15448	4,4'-DDD	.05 g	NEAT neat	5000 ppm
13106	4,4' -DDE	.05 g	NEAT neat	5000 ppm
14867	4,4-DDT	.05 g	NEAT neat	5000 ppm
14864	Methylene Chloride Optima-4L	10 ml	NEAT neat	

Veritech Lot Number: V-401785

Prepared By: Hamid, Akmal
Description: BNA-6 MIX
Prep Date: 8/16/2023
Expiration Date: 8/16/2024
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 08/16/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14821	Biphenyl	.05 g	NEAT neat	5000 ppm
14182	Coumarin	.05 g	NEAT neat	5000 ppm
13496	Octadecane	.05 g	NEAT neat	5000 ppm
14901	Pentachloroethane	.05 g	NEAT neat	5000 ppm
9435	1,4-Dimethylnaphthalene	.0518 g	95 %	5000 ppm
14183	n-Decane	.05 g	NEAT neat	5000 ppm
14864	Methylene Chloride Optima-4L	10 ml	NEAT neat	

Veritech Lot Number: V-402021

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#1(1st Source)(DANG
Prep Date: 8/18/2023
Expiration Date: 8/18/2024
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 08/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12844	Caprolactam	.1 g	NEAT neat	10000 ppm
12843	1,2,4,5-Tetrachlorobenzene	.1 g	NEAT neat	10000 ppm
15451	Atrazine	.1 g	NEAT neat	10000 ppm
11341	Acetophenone	.1 g	NEAT neat	10000 ppm
9149	Diphenyl Ether	.1 g	NEAT neat	10000 ppm
14833	1,4-Dioxane	.1 g	NEAT neat	10000 ppm
14864	Methylene Chloride Optima-4L	10 ml	NEAT neat	

Veritech Lot Number: V-403042

Prepared By: Bis, Yolanta
Description: BNA STOCK Std.A (DANGER)
Prep Date: 9/7/2023
Expiration Date: 2/5/2024
Department: Organics
BatchNumber:
Concentration: 250 ppm
Final Volume: 600 ul
ApprovedBy: akmal
ApproveDate: 09/07/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15472	8270 Mega Mix	150 ul	1000 ppm	250 ppm
14896	Benzoic Acid Mix	75 ul	2000 ppm	250 ppm
14133	Benzidine Mix	75 ul	2000 ppm	250 ppm
v-399522	BNA Surrog.Std.(danger)	75 ul	1000-2000 pp	125-250 pp
v-401784	BNA-Pest Mix(Danger)	30 ul	5000 ppm	250 ppm
v-401785	BNA-6 MIX	30 ul	5000 ppm	250 ppm
14864	Methylene Chloride Optima-4L	165 ul	NEAT neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-401791

Prepared By: Hamid, Akmal
Description: Benzaldehyde Std
Prep Date: 8/16/2023
Expiration Date: 8/16/2024
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 08/16/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9150	Benzaldehyde	.1 g	NEAT neat	10000 ppm
14864	Methylene Chloride Optima-4L	10 ml	NEAT neat	

Veritech Lot Number: V-401792

Prepared By: Hamid, Akmal
Description: Benzaldehyde Std (2nd source)
Prep Date: 8/16/2023
Expiration Date: 8/16/2024
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 25 ml
ApprovedBy: akmal
ApproveDate: 08/16/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9150	Benzaldehyde	.25 g	NEAT neat	10000 ppm
15415	Acetone	25 ml	neat neat	

Veritech Lot Number: V-402021

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#1(1st Source)(DANG
Prep Date: 8/18/2023
Expiration Date: 8/18/2024
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 08/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12844	Caprolactam	.1 g	NEAT neat	10000 ppm
12843	1,2,4,5-Tetrachlorobenzene	.1 g	NEAT neat	10000 ppm
15451	Atrazine	.1 g	NEAT neat	10000 ppm
11341	Acetophenone	.1 g	NEAT neat	10000 ppm
9149	Diphenyl Ether	.1 g	NEAT neat	10000 ppm
14833	1,4-Dioxane	.1 g	NEAT neat	10000 ppm
14864	Methylene Chloride Optima-4L	10 ml	NEAT neat	

Veritech Lot Number: V-402022

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#1(2nd Source)(DAN
Prep Date: 8/18/2023
Expiration Date: 8/18/2024
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 08/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12844	Caprolactam	.5 g	NEAT neat	10000 ppm
12843	1,2,4,5-Tetrachlorobenzene	.5 g	NEAT neat	10000 ppm
15451	Atrazine	.5 g	NEAT neat	10000 ppm
11341	Acetophenone	.5 g	NEAT neat	10000 ppm
9149	Diphenyl Ether	.5 g	NEAT neat	10000 ppm
14204	1- Methylnaphthalene	.5 g	NEAT neat	10000 ppm
14833	1,4-Dioxane	.5 g	NEAT neat	10000 ppm
15415	Acetone	50 ml	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-402883

Prepared By: Bis, Yolanta
Description: BNA STOCK Std.B(DANGER)
Prep Date: 9/5/2023
Expiration Date: 2/28/2024
Department: Organics
BatchNumber:
Concentration: 250 ppm
Final Volume: 600 ul
ApprovedBy: akmal
ApproveDate: 09/07/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14446	Polynuclear Aromatic Hydrocarbons Mix.	75 ul	2000 ppm	250 ppm
15050	EPA TCL Benzidines Mix	75 ul	2000 ppm	250 ppm
14140	EPA TCL Hazardous subs. Mix	75 ul	2000 ppm	250 ppm
15169	EPA TCL BASE-NEUTRALS Mix	75 ul	2000 ppm	250 ppm
v-399522	BNA Surrog.Std.(danger)	75 ul	1000-2000 pp	125-250 pp
V-392947	Pyridine Stock Std.	15 ul	10,000 ppm	250 ppm
v-401789	BNA-7 MIX	30 ul	5000 ppm	250 ppm
14759	Phenolics Mix	75 ul	2000 ppm	250 ppm
14864	Methylene Chloride Optima-4L	180 ul	NEAT neat	

Veritech Lot Number: V-403042

Prepared By: Bis, Yolanta
Description: BNA STOCK Std.A (DANGER)
Prep Date: 9/7/2023
Expiration Date: 2/5/2024
Department: Organics
BatchNumber:
Concentration: 250 ppm
Final Volume: 600 ul
ApprovedBy: akmal
ApproveDate: 09/07/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15472	8270 Mega Mix	150 ul	1000 ppm	250 ppm
14896	Benzoic Acid Mix	75 ul	2000 ppm	250 ppm
14133	Benzidine Mix	75 ul	2000 ppm	250 ppm
v-399522	BNA Surrog.Std.(danger)	75 ul	1000-2000 pp	125-250 pp
v-401784	BNA-Pest Mix(Danger)	30 ul	5000 ppm	250 ppm
v-401785	BNA-6 MIX	30 ul	5000 ppm	250 ppm
14864	Methylene Chloride Optima-4L	165 ul	NEAT neat	

Veritech Lot Number: V-403043

Prepared By: Bis, Yolanta
Description: BNA STOCK Std.(DANGER)
Prep Date: 9/8/2023
Expiration Date: 2/5/2024
Department: Organics
BatchNumber:
Concentration: 200 ppm
Final Volume: 500 ul
ApprovedBy: akmal
ApproveDate: 09/07/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-403042	BNA STOCK Std.A (DANGER)	400 ul	250 ppm	250 ppm
v-402021	8270 EXTRA MIX#1(1st Source)(DANGER)	10 ul	10000 ppm	250 ppm
v-401791	Benzaldehyde Std	10 ul	10000 ppm	250 ppm
14864	Methylene Chloride Optima-4L	80 ul	NEAT neat	

Veritech Lot Number: V-403044

Prepared By: Bis, Yolanta
Description: BNA 10 ppm curve(DANGER)
Prep Date: 9/7/2023
Expiration Date: 2/5/2024
Department: Organics
BatchNumber: B-35447
Concentration: 10 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 09/07/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-403043	BNA STOCK Std.(DANGER)	5 ul	200 ppm	10 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14864	Methylene Chloride Optima-4L	93 ul	NEAT neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-403045

Prepared By: Bis, Yolanta
Description: BNA 20 ppm curve(DANGER)
Prep Date: 9/7/2023
Expiration Date: 2/5/2024
Department: Organics
BatchNumber: B-35447
Concentration: 20 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 09/07/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-403043	BNA STOCK Std.(DANGER)	10 ul	200 ppm	20 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14864	Methylene Chloride Optima-4L	88 ul	NEAT neat	

Veritech Lot Number: V-403046

Prepared By: Bis, Yolanta
Description: BNA 50 ppm curve(DANGER)
Prep Date: 9/7/2023
Expiration Date: 2/5/2024
Department: Organics
BatchNumber: B-35447
Concentration: 50 ppm
Final Volume: 600 ul
ApprovedBy: akmal
ApproveDate: 09/07/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-403043	BNA STOCK Std.(DANGER)	150 ul	200 ppm	50 ppm
V-394768	BNA Internal Std.	12 ul	2000 ppm	40 ppm
14864	Methylene Chloride Optima-4L	438 ul	NEAT neat	

Veritech Lot Number: V-403047

Prepared By: Bis, Yolanta
Description: BNA 80 ppm curve(DANGER)
Prep Date: 9/7/2023
Expiration Date: 2/5/2024
Department: Organics
BatchNumber: B-35447
Concentration: 80 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 09/07/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-403043	BNA STOCK Std.(DANGER)	40 ul	200 ppm	80 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14864	Methylene Chloride Optima-4L	58 ul	NEAT neat	

Veritech Lot Number: V-403048

Prepared By: Bis, Yolanta
Description: BNA 120 ppm curve(DANGER)
Prep Date: 9/7/2023
Expiration Date: 2/5/2024
Department: Organics
BatchNumber: B-35447
Concentration: 120 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 09/07/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-403043	BNA STOCK Std.(DANGER)	60 ul	200 ppm	120 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14864	Methylene Chloride Optima-4L	38 ul	NEAT neat	

Veritech Lot Number: V-403049

Prepared By: Bis, Yolanta
Description: BNA 160 ppm curve(DANGER)
Prep Date: 9/7/2023
Expiration Date: 2/5/2024
Department: Organics
BatchNumber: B-35447
Concentration: 160 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 09/07/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-403043	BNA STOCK Std.(DANGER)	80 ul	200 ppm	160 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14864	Methylene Chloride Optima-4L	18 ul	NEAT neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-403050

Prepared By: Bis, Yolanta
Description: BNA 196 ppm curve(DANGER)
Prep Date: 9/7/2023
Expiration Date: 2/5/2024
Department: Organics
BatchNumber: B-35447
Concentration: 196 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 09/07/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-403043	BNA STOCK Std.(DANGER)	98 ul	200 ppm	196 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14864	Methylene Chloride Optima-4L	0	NEAT neat	

Veritech Lot Number: V-403051

Prepared By: Bis, Yolanta
Description: BNA 50 ppm curve(DANGER)
Prep Date: 9/7/2023
Expiration Date: 2/5/2024
Department: Organics
BatchNumber: B-35447
Concentration: 50 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 09/07/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-403043	BNA STOCK Std.(DANGER)	25 ul	200 ppm	50 ppm
14864	Methylene Chloride Optima-4L	75 ul	NEAT neat	

Veritech Lot Number: V-403052

Prepared By: Bis, Yolanta
Description: BNA 2 ppm curve(DANGER)
Prep Date: 9/7/2023
Expiration Date: 2/5/2024
Department: Organics
BatchNumber: B-35447
Concentration: 2 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 09/07/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-403051	BNA 50 ppm curve(DANGER)	4 ul	50 ppm	2 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14864	Methylene Chloride Optima-4L	94 ul	NEAT neat	

Veritech Lot Number: V-403053

Prepared By: Bis, Yolanta
Description: BNA 0.5 ppm curve(DANGER)
Prep Date: 9/7/2023
Expiration Date: 2/5/2024
Department: Organics
BatchNumber: B-35447
Concentration: 0.5 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 09/07/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-403051	BNA 50 ppm curve(DANGER)	1 ul	50 ppm	2 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14864	Methylene Chloride Optima-4L	97 ul	NEAT neat	

Veritech Lot Number: V-403064

Prepared By: Bis, Yolanta
Description: BNA ICV CAL@50ppm(DANGER)
Prep Date: 9/7/2023
Expiration Date: 2/28/2024
Department: Organics
BatchNumber:
Concentration: 50 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 09/07/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
v-402883	BNA STOCK Std.B(DANGER)	40 ul	250 ppm	50 ppm
v-402022	8270 EXTRA MIX#1(2nd Source)(DANGER)	1 ul	10000 ppm	50 ppm
v-401792	Benzaldehyde Std (2nd source)	1 ul	10000 ppm	50 ppm
V-394768	BNA Internal Std.	4 ul	2000 ppm	40 ppm
14864	Methylene Chloride Optima-4L	154 ul	NEAT neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-403065

Prepared By: Bis, Yolanta
Description: BNA SIMS STOCK. Std.(DANGER)
Prep Date: 9/7/2023
Expiration Date: 2/28/2024
Department: Organics
BatchNumber:
Concentration: 20 ppm
Final Volume: 1.5 ml
ApprovedBy: akmal
ApproveDate: 09/07/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14864	Methylene Chloride Optima-4L	1272 ul	NEAT neat	
15169	EPA TCL BASE-NEUTRALS Mix	15 ul	2000 ppm	20 ppm
14140	EPA TCL Hazardous subs. Mix	15 ul	2000 ppm	20 ppm
14446	Polynuclear Aromatic Hydrocarbons Mix.	15 ul	2000 ppm	20 ppm
14759	Phenolics Mix	15 ul	2000 ppm	20 ppm
V-399522	BNA Surrog.Std.(danger)	150 ul	1000-2000 pp	100-200 pp
V-402021	8270 EXTRA MIX#1(1st Source)(DANGER)	3 ul	10000 ppm	20 ppm
15050	EPA TCL Benzidines Mix	15 ul	2000 ppm	20 ppm

Veritech Lot Number: V-403066

Prepared By: Bis, Yolanta
Description: BNA SIM CAL STD(DANGER)
Prep Date: 9/7/2023
Expiration Date: 1/25/2024
Department: Organics
BatchNumber: B-35449
Concentration: 19.6 ppm
Final Volume: 400 ul
ApprovedBy: akmal
ApproveDate: 09/07/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14864	Methylene Chloride Optima-4L	0 ul	NEAT neat	
V-403065	BNA SIMS STOCK. Std.(DANGER)	392 ul	20 ppm	19.6 ppm
V-400407	INTERNAL STD@20PPM	8 ul	20 ppm	0.4 ppm

Veritech Lot Number: V-403067

Prepared By: Bis, Yolanta
Description: BNA SIM CAL STD.(DANGER)
Prep Date: 9/7/2023
Expiration Date: 1/25/2024
Department: Organics
BatchNumber: B-35449
Concentration: 10 ppm
Final Volume: 400 ul
ApprovedBy: akmal
ApproveDate: 09/07/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14864	Methylene Chloride Optima-4L	192 ul	NEAT neat	
V-403065	BNA SIMS STOCK. Std.(DANGER)	200 ul	20 ppm	10 ppm
V-400407	INTERNAL STD@20PPM	8 ul	20 ppm	0.4 ppm

Veritech Lot Number: V-403068

Prepared By: Bis, Yolanta
Description: BNA SIM CAL STD.(DANGER)
Prep Date: 9/7/2023
Expiration Date: 1/25/2024
Department: Organics
BatchNumber: B-35449
Concentration: 5 ppm
Final Volume: 1600 ul
ApprovedBy: akmal
ApproveDate: 09/07/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14864	Methylene Chloride Optima-4L	1168 ul	NEAT neat	
V-403065	BNA SIMS STOCK. Std.(DANGER)	400 ul	20 ppm	5 ppm
V-400407	INTERNAL STD@20PPM	32 ul	20 ppm	0.4 ppm

Veritech Lot Number: V-403069

Prepared By: Bis, Yolanta
Description: BNA SIM CAL STD.(DANGER)
Prep Date: 9/7/2023
Expiration Date: 1/25/2024
Department: Organics
BatchNumber: B-35449
Concentration: 0.5 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 09/07/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14864	Methylene Chloride Optima-4L	955 ul	NEAT neat	
V-403065	BNA SIMS STOCK. Std.(DANGER)	25 ul	20 ppm	0.5 ppm
V-400407	INTERNAL STD@20PPM	20 ul	20 ppm	0.4 ppm

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-403070

Prepared By: Bis, Yolanta
Description: BNA SIM CAL STD.(DANGER)
Prep Date: 9/7/2023
Expiration Date: 1/25/2024
Department: Organics
BatchNumber: B-35449
Concentration: 0.02 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 09/07/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14864	Methylene Chloride Optima-4L	960 ul	NEAT neat	
V-403073	BNA SIM CAL STD.(DANGER)	20 ul	1 ppm	0.02 ppm
V-400407	INTERNAL STD@20PPM	20 ul	20 ppm	0.4 ppm

Veritech Lot Number: V-403071

Prepared By: Bis, Yolanta
Description: BNA SIM CAL STD.(DANGER)
Prep Date: 9/7/2023
Expiration Date: 1/25/2024
Department: Organics
BatchNumber: B-35449
Concentration: 0.2 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 09/07/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14864	Methylene Chloride Optima-4L	970 ul	NEAT neat	
V-403065	BNA SIMS STOCK. Std.(DANGER)	10 ul	20 ppm	0.2 ppm
V-400407	INTERNAL STD@20PPM	20 ul	20 ppm	0.4 ppm

Veritech Lot Number: V-403072

Prepared By: Bis, Yolanta
Description: BNA SIM CAL STD.(DANGER)
Prep Date: 9/7/2023
Expiration Date: 1/25/2024
Department: Organics
BatchNumber: B-35449
Concentration: 1 ppm
Final Volume: 400 ul
ApprovedBy: akmal
ApproveDate: 09/07/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14864	Methylene Chloride Optima-4L	372 ul	NEAT neat	
V-403065	BNA SIMS STOCK. Std.(DANGER)	20 ul	20 ppm	1 ppm
V-400407	INTERNAL STD@20PPM	8 ul	20 ppm	0.4 ppm

Veritech Lot Number: V-403073

Prepared By: Bis, Yolanta
Description: BNA SIM CAL STD.(DANGER)
Prep Date: 9/7/2023
Expiration Date: 1/25/2024
Department: Organics
BatchNumber: B-35449
Concentration: 1 ppm
Final Volume: 400 ul
ApprovedBy: akmal
ApproveDate: 09/07/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14864	Methylene Chloride Optima-4L	380 ul	NEAT neat	
V-403065	BNA SIMS STOCK. Std.(DANGER)	20 ul	20 ppm	1 ppm

Veritech Lot Number: V-403074

Prepared By: Bis, Yolanta
Description: BNA SIM CAL STD.(DANGER)
Prep Date: 9/7/2023
Expiration Date: 1/25/2024
Department: Organics
BatchNumber: B-35449
Concentration: 0.1 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 09/07/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14864	Methylene Chloride Optima-4L	975 ul	NEAT neat	
V-403065	BNA SIMS STOCK. Std.(DANGER)	5 ul	20 ppm	0.1 ppm
V-400407	INTERNAL STD@20PPM	20 ul	20 ppm	0.4 ppm

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-403075

Prepared By:	Bis, Yolanta	Department:	Organics	ApprovedBy:	akmal
Description:	BNA SIMICV 5PPM STD(DANGER)	BatchNumber:		ApproveDate:	09/07/23
Prep Date:	9/7/2023	Concentration:	5 ppm	Checked:	Yes
Expiration Date:	1/25/2024	Final Volume:	1 ml		

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-403042	BNA STOCK Std.A (DANGER)	20 ul	250 ppm	5 ppm
V-402021	8270 EXTRA MIX#1(1st Source)(DANGER)	.5 ul	10000 ppm	5 ppm
V-400407	INTERNAL STD@20PPM	20 ul	20 ppm	0.4 ppm
14864	Methylene Chloride Optima-4L	960 ul	NEAT neat	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 9149

Description: Diphenyl Ether

ApprovedBy: akmal
ApproveDate: 12/15/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	240834-5g	MKBH5698V	12/12/14	12/31/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 9150

Description: Benzaldehyde

ApprovedBy: akmal
ApproveDate: 12/15/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	B1334-5g	MKBP5021V	12/12/14	12/31/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 9435

Description: 1,4-Dimethylnaphthalene

ApprovedBy: akmal
ApproveDate: 04/24/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	D170305-5G	STBD6188V	04/24/15	04/24/25	Hamid, Akmal	5	5G	95	%

Veritech Control/Receipt Number: 11341

Description: Acetophenone

ApprovedBy: akmal
ApproveDate: 12/26/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	42163-1ML-F	BCBV0864	12/20/17	12/20/25	Hamid, Akmal	1	1ML	NEAT	NEAT

Veritech Control/Receipt Number: 12021

Description: Nitrobenzene-d5

ApprovedBy: akmal
ApproveDate: 10/01/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma- Aldrich	151955-5G	MBBC0000V	10/01/18	07/08/29	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12507

Description: 1,4-Dichlorobenzene-D4

ApprovedBy: akmal
ApproveDate: 05/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL	DLM-268-0	PR-18488/08247CB1	05/20/19	06/07/27	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 12716

Description: 2-Fluorophenol

ApprovedBy: akmal
ApproveDate: 08/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	F12804-10G	STBH4989	08/08/19	05/21/28	Hamid, Akmal	1	10G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 12769

Description: Pyridine

ApprovedBy: janee
ApproveDate: 09/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Fisher	P368-1	190224	09/20/19	09/19/24	Wonge, Janee	1	1 L	neat	neat

Veritech Control/Receipt Number: 12843

Description: 1,2,4,5-Tetrachlorobenzene

ApprovedBy: akmal
ApproveDate: 03/04/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	131857-5G	MKCG5992	10/17/19	07/23/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12844

Description: Caprolactam

ApprovedBy: akmal
ApproveDate: 03/04/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	C2204-5G	MKCG1442	10/17/19	07/23/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 13086

Description: 2-Fluorobiphenyl

ApprovedBy: akmal
ApproveDate: 03/03/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	102741-10G	MKCK0527	03/03/20	08/31/30	Hamid, Akmal	1	10G	NEAT	NEAT

Veritech Control/Receipt Number: 13106

Description: 4,4' -DDE

ApprovedBy: akmal
ApproveDate: 03/10/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	RPN-10875-1G	9710700	03/10/20	02/28/25	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 13496

Description: Octadecane

ApprovedBy: akmal
ApproveDate: 09/11/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	O652-25G	MKCG6046	09/11/20	09/11/30	Hamid, Akmal	1	25G	NEAT	NEAT

Veritech Control/Receipt Number: 13897

Description: Acenaphthene-d10

ApprovedBy: akmal
ApproveDate: 04/28/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL	DLM-108-0	PR-30913	04/23/21	08/16/29	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 12844

Description: Caprolactam

ApprovedBy: akmal
ApproveDate: 03/04/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	C2204-5G	MKCG1442	10/17/19	07/23/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 13086

Description: 2-Fluorobiphenyl

ApprovedBy: akmal
ApproveDate: 03/03/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	102741-10G	MKCK0527	03/03/20	08/31/30	Hamid, Akmal	1	10G	NEAT	NEAT

Veritech Control/Receipt Number: 13106

Description: 4,4' -DDE

ApprovedBy: akmal
ApproveDate: 03/10/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	RPN-10875-1G	9710700	03/10/20	02/28/25	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 13496

Description: Octadecane

ApprovedBy: akmal
ApproveDate: 09/11/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	O652-25G	MKCG6046	09/11/20	09/11/30	Hamid, Akmal	1	25G	NEAT	NEAT

Veritech Control/Receipt Number: 13897

Description: Acenaphthene-d10

ApprovedBy: akmal
ApproveDate: 04/28/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL	DLM-108-0	PR-30913	04/23/21	08/16/29	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14133

Description: Benzidine Mix

ApprovedBy: akmal
ApproveDate: 08/12/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Restek	31834	A0172557	08/12/21	12/31/25	Hamid, Akmal	2	1ML	2000	PPM

Veritech Control/Receipt Number: 14140

Description: EPA TCL Hazardous subs. Mix

ApprovedBy: akmal
ApproveDate: 08/16/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	47990-U	LRAC9004	08/16/21	02/28/24	Hamid, Akmal	1	1ML	2000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14133

Description: Benzidine Mix

ApprovedBy: akmal
ApproveDate: 08/12/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Restek	31834	A0172557	08/12/21	12/31/25	Hamid, Akmal	2	1ML	2000	PPM

Veritech Control/Receipt Number: 14140

Description: EPA TCL Hazardous subs. Mix

ApprovedBy: akmal
ApproveDate: 08/16/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	47990-U	LRAC9004	08/16/21	02/28/24	Hamid, Akmal	1	1ML	2000	PPM

Veritech Control/Receipt Number: 14141

Description: p-Terphenyl-d14

ApprovedBy: akmal
ApproveDate: 08/16/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	364630-500MG	MBBD0055	08/16/21	08/16/30	Hamid, Akmal	5	500M	NEAT	NEAT

Veritech Control/Receipt Number: 14182

Description: Coumarin

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-11508	12354100	09/14/21	09/30/29	Hamid, Akmal	2	IG	NEAT	NEAT

Veritech Control/Receipt Number: 14183

Description: n-Decane

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	n-12526-1G	12277000	09/14/21	09/30/25	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14204

Description: 1- Methylnaphthalene

ApprovedBy: Akmal
ApproveDate: 09/28/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	45795-250MG	BCCC3346	09/28/21	01/31/25	Hamid, Akmal	5	250M	NEAT	NEAT

Veritech Control/Receipt Number: 14446

Description: Polynuclear Aromatic Hydrocarbons Mix.

ApprovedBy: akmal
ApproveDate: 02/11/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	CRM48905	LRAD0869	02/07/22	11/30/24	Hamid, Akmal	1	1ML	2000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14599

Description
DFTPP STD.

ApprovedBy: akmal
ApproveDate: 05/23/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Millipore Sigma	442543	LRAD1983	05/20/22	03/31/25	Hamid, Akmal	2	100M	NEAT	NEAT

Veritech Control/Receipt Number: 14759

Description
Phenolics Mix

ApprovedBy: akmal
ApproveDate: 07/28/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Spex Certiprep	CLPS-A	AA191210005	07/28/22	07/25/25	Hamid, Akmal	2	1ML	2000	PPM

Veritech Control/Receipt Number: 14765

Description
dichloromethane

ApprovedBy: akmal
ApproveDate: 08/16/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco/EMD	DX0831	62161	08/02/22	08/01/27	Lopez, Jose	100	4L	neat	neat

Veritech Control/Receipt Number: 14808

Description
2,3,4,6-Tetrachlorophenol

ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	442282	LRAC9464	09/15/22	04/30/25	Hamid, Akmal	5	100M	NEAT	NEAT

Veritech Control/Receipt Number: 14809

Description
2,4,6-Tribromophenol

ApprovedBy: akmal
ApproveDate: 07/14/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	137715-5G	MKCJ7664	09/15/22	09/15/30	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 14820

Description
Phenol-2,3,4,5,6-d5

ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	425370-5G	MBBC5662	09/15/22	09/15/27	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 14821

Description
Biphenyl

ApprovedBy: akmal
ApproveDate: 09/16/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	35800-1G	BCCF1061	09/16/22	10/31/25	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14833

Description: 1,4-Dioxane

ApprovedBy: akmal
ApproveDate: 09/19/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem-Service	N-10220-1G	13649600	09/19/22	09/30/25	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14864

Description: Methylene Chloride Optima-4L

ApprovedBy: akmal
ApproveDate: 09/29/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Fisher Chemical	D151-4	223493	09/28/22	08/31/27	Hamid, Akmal	4	4L	NEAT	NEAT

Veritech Control/Receipt Number: 14867

Description: 4,4-DDT

ApprovedBy: akmal
ApproveDate: 10/05/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SUPELCO	31041-100MG	BCCH5458	10/05/22	03/31/27	Hamid, Akmal	2	100M	NEAT	NEAT

Veritech Control/Receipt Number: 14896

Description: Benzoic Acid Mix

ApprovedBy: akmal
ApproveDate: 10/18/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Restek	31879	A0183914	10/17/22	04/20/26	Hamid, Akmal	1	1ML	2000	PPM

Veritech Control/Receipt Number: 14901

Description: Pentachloroethane

ApprovedBy: akmal
ApproveDate: 10/20/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	P2000-5ML-A	MKCM0117	10/19/22	10/19/27	Hamid, Akmal	1	5ML	NEAT	NEAT

Veritech Control/Receipt Number: 15050

Description: EPA TCL Benzidines Mix

ApprovedBy: akmal
ApproveDate: 01/20/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco	48906	LRAD1455	01/20/23	01/31/25	Hamid, Akmal	2	1ML	2000	PPM

Veritech Control/Receipt Number: 15082

Description: 1,4-Dioxane-D8

ApprovedBy: akmal
ApproveDate: 06/15/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL, Inc.	DLM-28-0	I-26030A	02/06/23	02/06/26	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14141

Description: p-Terphenyl-d14

ApprovedBy: akmal
ApproveDate: 08/16/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	364630-500MG	MBBD0055	08/16/21	08/16/30	Hamid, Akmal	5	500M	NEAT	NEAT

Veritech Control/Receipt Number: 14182

Description: Coumarin

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-11508	12354100	09/14/21	09/30/29	Hamid, Akmal	2	IG	NEAT	NEAT

Veritech Control/Receipt Number: 14183

Description: n-Decane

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	n-12526-1G	12277000	09/14/21	09/30/25	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14446

Description: Polynuclear Aromatic Hydrocarbons Mix.

ApprovedBy: akmal
ApproveDate: 02/11/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	CRM48905	LRAD0869	02/07/22	11/30/24	Hamid, Akmal	1	1ML	2000	PPM

Veritech Control/Receipt Number: 14759

Description: Phenolics Mix

ApprovedBy: akmal
ApproveDate: 07/28/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Spex Certiprep	CLPS-A	AA191210005	07/28/22	07/25/25	Hamid, Akmal	2	1ML	2000	PPM

Veritech Control/Receipt Number: 14765

Description: dichloromethane

ApprovedBy: akmal
ApproveDate: 08/16/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco/EMD	DX0831	62161	08/02/22	08/01/27	Lopez, Jose	100	4L	neat	neat

Veritech Control/Receipt Number: 14809

Description: 2,4,6-Tribromophenol

ApprovedBy: akmal
ApproveDate: 07/14/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	137715-5G	MKCJ7664	09/15/22	09/15/30	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15084

Description: Naphthalene-D8

ApprovedBy: akmal
ApproveDate: 02/07/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL INC,	DLM-365-0	PR-30164/121418NP	02/06/23	01/04/29	Hamid, Akmal	1	IG	NEAT	NEAT

Veritech Control/Receipt Number: 15086

Description: Phenanthrene-d10

ApprovedBy: akmal
ApproveDate: 02/07/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL INC,	DLM-371-0	PR-29119	02/06/23	11/10/27	Hamid, Akmal	1	IG	NEAT	NEAT

Veritech Control/Receipt Number: 15087

Description: Chrysene-d12

ApprovedBy: akmal
ApproveDate: 05/02/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL INC,	DLM-261-0	PR33506	02/06/23	11/30/32	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 15088

Description: Perylene-d12

ApprovedBy: akmal
ApproveDate: 02/07/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL INC,	DLM-366-0	PR-31716	02/06/23	05/18/30	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 15169

Description: EPA TCL BASE-NEUTRALS Mix

ApprovedBy: akmal
ApproveDate: 03/23/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SIGMA ALDRICH	47991-U	LRAD4201	03/23/23	02/28/26	Hamid, Akmal	2	1ML	2000	PPM

Veritech Control/Receipt Number: 15268

Description: DDT - Endrin Mix

ApprovedBy: akmal
ApproveDate: 05/11/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma Aldrich	48282	LRAD4476	05/10/23	03/31/26	Hamid, Akmal	3	1ML	500	PPM

Veritech Control/Receipt Number: 15387

Description: dichloromethane

ApprovedBy: akmal
ApproveDate: 07/05/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco/emd	DX0831	63146	06/28/23	06/27/28	Lopez, Jose	100	4L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15396

Description: Acetone

ApprovedBy: akmal
ApproveDate: 07/11/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9254-03	22L2862006	07/06/23	12/18/25	Lopez, Jose	108	4L	neat	neat

Veritech Control/Receipt Number: 15415

Description: Acetone

ApprovedBy: akmal
ApproveDate: 07/24/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9254-03	22L2862006	07/24/23	12/18/25	Lopez, Jose	108	4L	neat	neat

Veritech Control/Receipt Number: 15448

Description: 4,4'-DDD

ApprovedBy: akmal
ApproveDate: 08/15/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	35486-250mg	BCCF1670	08/15/23	10/31/25	Hamid, Akmal	1	250M	NEAT	NEAT

Veritech Control/Receipt Number: 15451

Description: Atrazine

ApprovedBy: akmal
ApproveDate: 08/15/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	45330-250mg	BCCH0564	08/15/23	01/31/27	Hamid, Akmal	3	250M	NEAT	NEAT

Veritech Control/Receipt Number: 15472

Description: 8270 Mega Mix

ApprovedBy: akmal
ApproveDate: 08/25/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Restek	31850	A0199300	08/25/23	12/31/24	Hamid, Akmal	2	1ML	1000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14820

Description: Phenol-2,3,4,5,6-d5

ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	425370-5G	MBBC5662	09/15/22	09/15/27	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 14821

Description: Biphenyl

ApprovedBy: akmal
ApproveDate: 09/16/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	35800-1G	BCCF1061	09/16/22	10/31/25	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14833

Description: 1,4-Dioxane

ApprovedBy: akmal
ApproveDate: 09/19/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem-Service	N-10220-1G	13649600	09/19/22	09/30/25	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14864

Description: Methylene Chloride Optima-4L

ApprovedBy: akmal
ApproveDate: 09/29/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Fisher Chemical	D151-4	223493	09/28/22	08/31/27	Hamid, Akmal	4	4L	NEAT	NEAT

Veritech Control/Receipt Number: 14867

Description: 4,4-DDT

ApprovedBy: akmal
ApproveDate: 10/05/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SUPELCO	31041-100MG	BCCH5458	10/05/22	03/31/27	Hamid, Akmal	2	100M	NEAT	NEAT

Veritech Control/Receipt Number: 14896

Description: Benzoic Acid Mix

ApprovedBy: akmal
ApproveDate: 10/18/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Restek	31879	A0183914	10/17/22	04/20/26	Hamid, Akmal	1	1ML	2000	PPM

Veritech Control/Receipt Number: 14901

Description: Pentachloroethane

ApprovedBy: akmal
ApproveDate: 10/20/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	P2000-5ML-A	MKCM0117	10/19/22	10/19/27	Hamid, Akmal	1	5ML	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14978

Description: 2,3,7,8-Tetrachlorodibenzo-p-dioxin

ApprovedBy: akmal
ApproveDate: 12/09/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
AccuStandard	D-404S	222041639	12/09/22	05/03/32	Hamid, Akmal	1	1ML	50	PPM

Veritech Control/Receipt Number: 15050

Description: EPA TCL Benzidines Mix

ApprovedBy: akmal
ApproveDate: 01/20/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco	48906	LRAD1455	01/20/23	01/31/25	Hamid, Akmal	2	1ML	2000	PPM

Veritech Control/Receipt Number: 15082

Description: 1,4-Dioxane-D8

ApprovedBy: akmal
ApproveDate: 06/15/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL, Inc.	DLM-28-0	I-26030A	02/06/23	02/06/26	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 15084

Description: Naphthalene-D8

ApprovedBy: akmal
ApproveDate: 02/07/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL INC,	DLM-365-0	PR-30164/121418NP	02/06/23	01/04/29	Hamid, Akmal	1	IG	NEAT	NEAT

Veritech Control/Receipt Number: 15086

Description: Phenanthrene-d10

ApprovedBy: akmal
ApproveDate: 02/07/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL INC,	DLM-371-0	PR-29119	02/06/23	11/10/27	Hamid, Akmal	1	IG	NEAT	NEAT

Veritech Control/Receipt Number: 15087

Description: Chrysene-d12

ApprovedBy: akmal
ApproveDate: 05/02/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL INC,	DLM-261-0	PR33506	02/06/23	11/30/32	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 15088

Description: Perylene-d12

ApprovedBy: akmal
ApproveDate: 02/07/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL INC,	DLM-366-0	PR-31716	02/06/23	05/18/30	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15169

Description: EPA TCL BASE-NEUTRALS Mix

ApprovedBy: akmal
ApproveDate: 03/23/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SIGMA ALDRICH	47991-U	LRAD4201	03/23/23	02/28/26	Hamid, Akmal	2	1ML	2000	PPM

Veritech Control/Receipt Number: 15396

Description: Acetone

ApprovedBy: akmal
ApproveDate: 07/11/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9254-03	22L2862006	07/06/23	12/18/25	Lopez, Jose	108	4L	neat	neat

Veritech Control/Receipt Number: 15448

Description: 4,4'-DDD

ApprovedBy: akmal
ApproveDate: 08/15/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	35486-250mg	BCCF1670	08/15/23	10/31/25	Hamid, Akmal	1	250M	NEAT	NEAT

Veritech Control/Receipt Number: 15451

Description: Atrazine

ApprovedBy: akmal
ApproveDate: 08/15/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	45330-250mg	BCCH0564	08/15/23	01/31/27	Hamid, Akmal	3	250M	NEAT	NEAT

Veritech Control/Receipt Number: 15472

Description: 8270 Mega Mix

ApprovedBy: akmal
ApproveDate: 08/25/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Restek	31850	A0199300	08/25/23	12/31/24	Hamid, Akmal	2	1ML	1000	PPM

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-399186

Prepared By: Hamid, Akmal
Description: DFTPP STOCK STD.
Prep Date: 7/11/2023
Expiration Date: 7/11/2024
Department: Organics
BatchNumber:
Concentration: 2000 ppm
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 07/11/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14599	DFTPP STD.	.01 g	NEAT neat	2000 ppm
15387	dichloromethane	5 ml	neat neat	

Veritech Lot Number: V-399279

Prepared By: Bis, Yolanta
Description: DFTPP Mix
Prep Date: 7/12/2023
Expiration Date: 1/12/2024
Department: Organics
BatchNumber:
Concentration: 50 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 07/12/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-399186	DFTPP STOCK STD.	25 ul	2000 ppm	50 ppm
15268	DDT - Endrin Mix	200 ul	500 ppm	100 ppm
14759	Phenolics Mix	50 ul	2000 ppm	100 ppm
15050	EPA TCL Benzidines Mix	50 ul	2000 ppm	100 ppm
14765	dichloromethane	675 ul	neat neat	

Veritech Lot Number: V-399522

Prepared By: Hamid, Akmal
Description: BNA Surrog.Std.(danger)
Prep Date: 7/14/2023
Expiration Date: 7/14/2024
Department: Organics
BatchNumber:
Concentration: 1000-2000 pp
Final Volume: 1000 ml
ApprovedBy: akmal
ApproveDate: 07/14/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
13086	2-Fluorobiphenyl	1 g	NEAT neat	1000 ppm
14141	p-Terphenyl-d14	1 g	NEAT neat	1000 ppm
14820	Phenol-2,3,4,5,6-d5	2 g	NEAT neat	2000 ppm
14809	2,4,6-Tribromophenol	2 g	NEAT neat	2000 ppm
12021	Nitrobenzene-d5	800 ul	NEAT neat	1000 ppm
12716	2-Fluorophenol	1.6 ml	NEAT neat	2000 ppm
15396	Acetone	1000 ml	neat neat	

Veritech Lot Number: V-401792

Prepared By: Hamid, Akmal
Description: Benzaldehyde Std (2nd source)
Prep Date: 8/16/2023
Expiration Date: 8/16/2024
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 25 ml
ApprovedBy: akmal
ApproveDate: 08/16/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9150	Benzaldehyde	.25 g	NEAT neat	10000 ppm
15415	Acetone	25 ml	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-399522

Prepared By: Hamid, Akmal
Description: BNA Surrog.Std.(danger)
Prep Date: 7/14/2023
Expiration Date: 7/14/2024
Department: Organics
BatchNumber:
Concentration: 1000-2000 pp
Final Volume: 1000 ml
ApprovedBy: akmal
ApproveDate: 07/14/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
13086	2-Fluorobiphenyl	1 g	NEAT neat	1000 ppm
14141	p-Terphenyl-d14	1 g	NEAT neat	1000 ppm
14820	Phenol-2,3,4,5,6-d5	2 g	NEAT neat	2000 ppm
14809	2,4,6-Tribromophenol	2 g	NEAT neat	2000 ppm
12021	Nitrobenzene-d5	800 ul	NEAT neat	1000 ppm
12716	2-Fluorophenol	1.6 ml	NEAT neat	2000 ppm
15396	Acetone	1000 ml	neat neat	

Veritech Lot Number: V-401792

Prepared By: Hamid, Akmal
Description: Benzaldehyde Std (2nd source)
Prep Date: 8/16/2023
Expiration Date: 8/16/2024
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 25 ml
ApprovedBy: akmal
ApproveDate: 08/16/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9150	Benzaldehyde	.25 g	NEAT neat	10000 ppm
15415	Acetone	25 ml	neat neat	

Veritech Lot Number: V-402022

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#1(2nd Source)(DAN
Prep Date: 8/18/2023
Expiration Date: 8/18/2024
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 08/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12844	Caprolactam	.5 g	NEAT neat	10000 ppm
12843	1,2,4,5-Tetrachlorobenzene	.5 g	NEAT neat	10000 ppm
15451	Atrazine	.5 g	NEAT neat	10000 ppm
11341	Acetophenone	.5 g	NEAT neat	10000 ppm
9149	Diphenyl Ether	.5 g	NEAT neat	10000 ppm
14204	1- Methylnaphthalene	.5 g	NEAT neat	10000 ppm
14833	1,4-Dioxane	.5 g	NEAT neat	10000 ppm
15415	Acetone	50 ml	neat neat	

Veritech Lot Number: V-402023

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#2A
Prep Date: 8/18/2023
Expiration Date: 8/18/2024
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 25 ml
ApprovedBy: akmal
ApproveDate: 08/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14184	Carbazole	.25 g	NEAT neat	10000 ppm
14821	Biphenyl	.25 g	NEAT neat	10000 ppm
13496	Octadecane	.25 g	NEAT neat	10000 ppm
14182	Coumarin	.25 g	NEAT neat	10000 ppm
14183	n-Decane	.25 g	NEAT neat	10000 ppm
13659	PYRIDINE	.25 g	NEAT neat	10000 ppm
9435	1,4-Dimethylnaphthalene	.263 g	95 %	10000 ppm
14901	Pentachloroethane	.25 g	NEAT neat	10000 ppm
15415	Acetone	25 ml	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-402022

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#1(2nd Source)(DAN
Prep Date: 8/18/2023
Expiration Date: 8/18/2024
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 08/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12844	Caprolactam	.5 g	NEAT neat	10000 ppm
12843	1,2,4,5-Tetrachlorobenzene	.5 g	NEAT neat	10000 ppm
15451	Atrazine	.5 g	NEAT neat	10000 ppm
11341	Acetophenone	.5 g	NEAT neat	10000 ppm
9149	Diphenyl Ether	.5 g	NEAT neat	10000 ppm
14204	1- Methylnaphthalene	.5 g	NEAT neat	10000 ppm
14833	1,4-Dioxane	.5 g	NEAT neat	10000 ppm
15415	Acetone	50 ml	neat neat	

Veritech Lot Number: V-402023

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#2A
Prep Date: 8/18/2023
Expiration Date: 8/18/2024
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 25 ml
ApprovedBy: akmal
ApproveDate: 08/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14184	Carbazole	.25 g	NEAT neat	10000 ppm
14821	Biphenyl	.25 g	NEAT neat	10000 ppm
13496	Octadecane	.25 g	NEAT neat	10000 ppm
14182	Coumarin	.25 g	NEAT neat	10000 ppm
14183	n-Decane	.25 g	NEAT neat	10000 ppm
13659	PYRIDINE	.25 g	NEAT neat	10000 ppm
9435	1,4-Dimethylnaphthalene	.263 g	95 %	10000 ppm
14901	Pentachloroethane	.25 g	NEAT neat	10000 ppm
15415	Acetone	25 ml	neat neat	

Veritech Lot Number: V-402241

Prepared By: Bis, Yolanta
Description: CLP SPK (AQ)(DANGER)
Prep Date: 8/24/2023
Expiration Date: 2/24/2024
Department: Organics
BatchNumber:
Concentration: 2000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 08/25/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
v-402022	8270 EXTRA MIX#1(2nd Source)(DANGER)	2 ml	10000 ppm	2000 ppm
v-402023	8270 EXTRA MIX#2A	2 ml	10000 ppm	2000 ppm
v-401792	Benzaldehyde Std (2nd source)	2 ml	10000 ppm	2000 ppm
15415	Acetone	4 ml	neat neat	

Veritech Lot Number: V-404438

Prepared By: User, Organics
Description: 10N Sodium Hydroxide
Prep Date: 9/28/2023
Expiration Date: 3/26/2024
Department: Organics
BatchNumber:
Concentration: 10 n
Final Volume: 4000 ml
ApprovedBy: akmal
ApproveDate: 09/29/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O	4000 ml		10 n
15484	Sodium Hydroxide Pellets	1600 g	neat neat	10 n

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-404476

Prepared By:	User, Organics	Department:	Organics	ApprovedBy:	akmal
Description:	"BAKED SODIUM SULFATE"	BatchNumber:		ApproveDate:	09/29/23
Prep Date:	9/29/2023	Concentration:	4000 g	Checked:	Yes
Expiration Date:	10/13/2023	Final Volume:	4000 g		

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15481	Sodium Sulfate		neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-402241

Prepared By:	Bis, Yolanta	Department:	Organics	ApprovedBy:	akmal
Description:	CLP SPK (AQ)(DANGER)	BatchNumber:		ApproveDate:	08/25/23
Prep Date:	8/24/2023	Concentration:	2000 ppm	Checked:	Yes
Expiration Date:	2/24/2024	Final Volume:	10 ml		

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
v-402022	8270 EXTRA MIX#1(2nd Source)(DANGER)	2 ml	10000 ppm	2000 ppm
v-402023	8270 EXTRA MIX#2A	2 ml	10000 ppm	2000 ppm
v-401792	Benzaldehyde Std (2nd source)	2 ml	10000 ppm	2000 ppm
15415	Acetone	4 ml	neat neat	

Veritech Lot Number: V-404438

Prepared By:	User, Organics	Department:	Organics	ApprovedBy:	akmal
Description:	10N Sodium Hydroxide	BatchNumber:		ApproveDate:	09/29/23
Prep Date:	9/28/2023	Concentration:	10 n	Checked:	Yes
Expiration Date:	3/26/2024	Final Volume:	4000 ml		

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O	4000 ml		10 n
15484	Sodium Hydroxide Pellets	1600 g	neat neat	10 n

Veritech Lot Number: V-404476

Prepared By:	User, Organics	Department:	Organics	ApprovedBy:	akmal
Description:	"BAKED SODIUM SULFATE"	BatchNumber:		ApproveDate:	09/29/23
Prep Date:	9/29/2023	Concentration:	4000 g	Checked:	Yes
Expiration Date:	10/13/2023	Final Volume:	4000 g		

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15481	Sodium Sulfate		neat neat	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 9149

Description: Diphenyl Ether

ApprovedBy: akmal
ApproveDate: 12/15/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	240834-5g	MKBH5698V	12/12/14	12/31/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 9150

Description: Benzaldehyde

ApprovedBy: akmal
ApproveDate: 12/15/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	B1334-5g	MKBP5021V	12/12/14	12/31/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 9435

Description: 1,4-Dimethylnaphthalene

ApprovedBy: akmal
ApproveDate: 04/24/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	D170305-5G	STBD6188V	04/24/15	04/24/25	Hamid, Akmal	5	5G	95	%

Veritech Control/Receipt Number: 11341

Description: Acetophenone

ApprovedBy: akmal
ApproveDate: 12/26/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	42163-1ML-F	BCBV0864	12/20/17	12/20/25	Hamid, Akmal	1	1ML	NEAT	NEAT

Veritech Control/Receipt Number: 12021

Description: Nitrobenzene-d5

ApprovedBy: akmal
ApproveDate: 10/01/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma- Aldrich	151955-5G	MBBC0000V	10/01/18	07/08/29	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12716

Description: 2-Fluorophenol

ApprovedBy: akmal
ApproveDate: 08/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	F12804-10G	STBH4989	08/08/19	05/21/28	Hamid, Akmal	1	10G	NEAT	NEAT

Veritech Control/Receipt Number: 12843

Description: 1,2,4,5-Tetrachlorobenzene

ApprovedBy: akmal
ApproveDate: 03/04/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	131857-5G	MKCG5992	10/17/19	07/23/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 12844

Description: Caprolactam

ApprovedBy: akmal
ApproveDate: 03/04/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	C2204-5G	MKCG1442	10/17/19	07/23/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 13086

Description: 2-Fluorobiphenyl

ApprovedBy: akmal
ApproveDate: 03/03/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	102741-10G	MKCK0527	03/03/20	08/31/30	Hamid, Akmal	1	10G	NEAT	NEAT

Veritech Control/Receipt Number: 13496

Description: Octadecane

ApprovedBy: akmal
ApproveDate: 09/11/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	O652-25G	MKCG6046	09/11/20	09/11/30	Hamid, Akmal	1	25G	NEAT	NEAT

Veritech Control/Receipt Number: 13659

Description: PYRIDINE

ApprovedBy: jessica
ApproveDate: 12/10/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Fisher	P368-1	203790	12/10/20	12/09/30	Patel, Jessica	1	1 L	NEAT	NEAT

Veritech Control/Receipt Number: 14141

Description: p-Terphenyl-d14

ApprovedBy: akmal
ApproveDate: 08/16/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	364630-500MG	MBBD0055	08/16/21	08/16/30	Hamid, Akmal	5	500M	NEAT	NEAT

Veritech Control/Receipt Number: 14182

Description: Coumarin

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-11508	12354100	09/14/21	09/30/29	Hamid, Akmal	2	IG	NEAT	NEAT

Veritech Control/Receipt Number: 14183

Description: n-Decane

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	n-12526-1G	12277000	09/14/21	09/30/25	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14184

Description: Carbazole

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-11403-1G	12358900	09/14/21	10/31/25	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14204

Description: 1- Methylnaphthalene

ApprovedBy: Akmal
ApproveDate: 09/28/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	45795-250MG	BCCC3346	09/28/21	01/31/25	Hamid, Akmal	5	250M	NEAT	NEAT

Veritech Control/Receipt Number: 14809

Description: 2,4,6-Tribromophenol

ApprovedBy: akmal
ApproveDate: 07/14/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	137715-5G	MKCJ7664	09/15/22	09/15/30	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 14820

Description: Phenol-2,3,4,5,6-d5

ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	425370-5G	MBBC5662	09/15/22	09/15/27	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 14821

Description: Biphenyl

ApprovedBy: akmal
ApproveDate: 09/16/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	35800-1G	BCCF1061	09/16/22	10/31/25	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14833

Description: 1,4-Dioxane

ApprovedBy: akmal
ApproveDate: 09/19/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem-Service	N-10220-1G	13649600	09/19/22	09/30/25	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14901

Description: Pentachloroethane

ApprovedBy: akmal
ApproveDate: 10/20/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	P2000-5ML-A	MKCM0117	10/19/22	10/19/27	Hamid, Akmal	1	5ML	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15340

Description: DI H2O

ApprovedBy: jessica
ApproveDate: 06/25/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
EVOQUA	1	1	06/01/23	06/01/24	Cousineau, Paul	1			

Veritech Control/Receipt Number: 15396

Description: Acetone

ApprovedBy: akmal
ApproveDate: 07/11/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9254-03	22L2862006	07/06/23	12/18/25	Lopez, Jose	108	4L	neat	neat

Veritech Control/Receipt Number: 15415

Description: Acetone

ApprovedBy: akmal
ApproveDate: 07/24/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9254-03	22L2862006	07/24/23	12/18/25	Lopez, Jose	108	4L	neat	neat

Veritech Control/Receipt Number: 15451

Description: Atrazine

ApprovedBy: akmal
ApproveDate: 08/15/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	45330-250mg	BCCH0564	08/15/23	01/31/27	Hamid, Akmal	3	250M	NEAT	NEAT

Veritech Control/Receipt Number: 15481

Description: Sodium Sulfate

ApprovedBy: akmal
ApproveDate: 09/07/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Allan Corp	6399	313201	08/29/23	06/04/24	Lopez, Jose	6	100L	neat	neat

Veritech Control/Receipt Number: 15484

Description: Sodium Hydroxide Pellets

ApprovedBy: akmal
ApproveDate: 09/07/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Lab Sales Service	KEH02719	LS-2755095	08/29/23	12/12/27	Lopez, Jose	3	12kg	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15438

Description: Comp Mix#1(Toxic Substances Mix #2)

ApprovedBy: akmal
ApproveDate: 08/23/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ACCUSTANDAR	Z-014E-PAK	222041218-01	08/03/23	06/12/25	Revolus, Jean	20	1ml	2000	PPM

Veritech Control/Receipt Number: 15467

Description: Base/ Neutral Composite Mixture

ApprovedBy: akmal
ApproveDate: 08/25/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ACCUSTANDAR	CLP-HC-BN-PAK	223081140	08/23/23	09/22/24	Revolus, Jean	4	1ml	2000	PPM

Veritech Control/Receipt Number: 15498

Description: Dichloromethane

ApprovedBy: akmal
ApproveDate: 09/07/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco/emd	DX0831-1	63223	09/06/23	09/05/28	Lopez, Jose	56	4L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14821

Description: Biphenyl

ApprovedBy: akmal
ApproveDate: 09/16/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	35800-1G	BCCF1061	09/16/22	10/31/25	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14833

Description: 1,4-Dioxane

ApprovedBy: akmal
ApproveDate: 09/19/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem-Service	N-10220-1G	13649600	09/19/22	09/30/25	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14901

Description: Pentachloroethane

ApprovedBy: akmal
ApproveDate: 10/20/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	P2000-5ML-A	MKCM0117	10/19/22	10/19/27	Hamid, Akmal	1	5ML	NEAT	NEAT

Veritech Control/Receipt Number: 15050

Description: EPA TCL Benzidines Mix

ApprovedBy: akmal
ApproveDate: 01/20/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco	48906	LRAD1455	01/20/23	01/31/25	Hamid, Akmal	2	1ML	2000	PPM

Veritech Control/Receipt Number: 15268

Description: DDT - Endrin Mix

ApprovedBy: akmal
ApproveDate: 05/11/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma Aldrich	48282	LRAD4476	05/10/23	03/31/26	Hamid, Akmal	3	1ML	500	PPM

Veritech Control/Receipt Number: 15340

Description: DI H2O

ApprovedBy: jessica
ApproveDate: 06/25/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
EVOQUA	1	1	06/01/23	06/01/24	Cousineau, Paul	1			

Veritech Control/Receipt Number: 15387

Description: dichloromethane

ApprovedBy: akmal
ApproveDate: 07/05/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco/emd	DX0831	63146	06/28/23	06/27/28	Lopez, Jose	100	4L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15396

Description: Acetone

ApprovedBy: akmal
ApproveDate: 07/11/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9254-03	22L2862006	07/06/23	12/18/25	Lopez, Jose	108	4L	neat	neat

Veritech Control/Receipt Number: 15415

Description: Acetone

ApprovedBy: akmal
ApproveDate: 07/24/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9254-03	22L2862006	07/24/23	12/18/25	Lopez, Jose	108	4L	neat	neat

Veritech Control/Receipt Number: 15451

Description: Atrazine

ApprovedBy: akmal
ApproveDate: 08/15/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	45330-250mg	BCCH0564	08/15/23	01/31/27	Hamid, Akmal	3	250M	NEAT	NEAT

Veritech Control/Receipt Number: 15481

Description: Sodium Sulfate

ApprovedBy: akmal
ApproveDate: 09/07/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Allan Corp	6399	313201	08/29/23	06/04/24	Lopez, Jose	6	100L	neat	neat

Veritech Control/Receipt Number: 15484

Description: Sodium Hydroxide Pellets

ApprovedBy: akmal
ApproveDate: 09/07/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Lab Sales Service	KEH02719	LS-2755095	08/29/23	12/12/27	Lopez, Jose	3	12kg	neat	neat

Hampton-Clarke
Analytical & Field Services

Last Page of Report

ATTACHMENT C

Data Usability Summary Reports (DUSRs)

[Not included]