



Cover Page

Order ID : O1233

Project ID : NYCDDC Phase II SCI Arthur Kill Road CEQR

Client : Louis Berger U.S., Inc., A WSP Company

Lab Sample Number	Client Sample Number
O1233-02	B-P34A
O1233-03	B-P34B
O1233-04	B-P36A
O1233-05	B-P36B
O1233-06	B-P37A
O1233-07	B-P37B
O1233-08	B-38A
O1233-09	B-P38B
O1233-10	WC-38
O1233-11	B-P38C
O1233-12	FB01

I certify that the 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 hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 2/2/2023

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Louis Berger U.S., Inc., A WSP Company

Project Name: NYCDDC Phase II SCI Arthur Kill Road CEQR

Project # N/A

Chemtech Project # O1233

Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:

10 Solid samples were received on 01/19/2023.

1 Water sample was received on 01/19/2023.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Corrosivity, Diesel Range Organics, Gasoline Range Organics, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, Paint Filter, PCB, Pesticide-TCL, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-PAH, SVOC-TCL BNA -20, TCLP Extraction, TCLP ICP Metals, TCLP Mercury, TCLP METALS, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for SVOC-TCL BNA -20.

C. Analytical Techniques:

The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um df. The samples were analyzed on instrument BNA_G using GC Column ZB-Semi Volatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GG. The samples were analyzed on instrument BNA_P using GC Column ZB-Semi Volatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GG. The analysis of SVOC-TCL BNA -20 was based on method 8270E and extraction was done based on method 3541.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS recoveries met the requirements for all compounds .

The MSD recoveries met the acceptable requirements .

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank analysis did not indicate the presence of lab contamination.

The % RSD is greater than 15% in the Initial Calibration (Method 8270-BF011923.M) for 2-Nitrophenol , Benzoic acid, 2-Nitroaniline , 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, Butylbenzylphthalate , Bis(2-ethylhexyl)phthalate, Indeno(1,2,3-cd)pyrene,



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Benzo(g,h,i)perylene, these compounds are passing on Linear Regression and Di-n-octyl phthalate is passing on Quadratic regression.

The % RSD is greater than 15% in the Initial Calibration (8270-BP012323.M) for Hexachlorocyclopentadiene, 2 -Nitroaniline , 2,6-Dinitrotoluene , 3-Nitroaniline, 4-Nitrophenol, 2,4-Dinitrotoluene, 4-Nitroaniline, Pentachlorophenol these compounds are passing on Linear Regression and 2-Nitrophenol, 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol passing on Quadratic regression.

The Continuous Calibration File ID BF132164.D met the requirements except for 2,4-Dinitrotoluene, The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Continuous Calibration File ID BP013571.D met the requirements except for 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2-Nitrophenol and 4,6-Dinitro-2-methylphenol, The associate samples have no positive hit for these compounds therefore no corrective action was taken. .

The Tuning criteria met requirements.

Sample B-P38C was diluted due to high concentration.

E. Additional Comments:

This data Package has been revised to correct the Client ID of sample # 08 as per client request.

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the 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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following "Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A**QA REVIEW GENERAL DOCUMENTATION**

Project #: 01233

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

☒

Check chain-of-custody for proper relinquish/return of samples

☒

Is the chain of custody signed and complete

☒

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

☒

Collect information for each project id from server. Were all requirements followed

☒**COVER PAGE:**

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

☒

Do lab numbers and client Ids on cover page agree with the Chain of Custody

☒**CHAIN OF CUSTODY:**

Do requested analyses on Chain of Custody agree with form I results

☒

Do requested analyses on Chain of Custody agree with the log-in page

☒

Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody

☒

Were the samples received within hold time

☒

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

☒**ANALYTICAL:**

Was method requirement followed?

☒

Was client requirement followed?

☒

Does the case narrative summarize all QC failure?

☒

All runlogs and manual integration are reviewed for requirements

☒

All manual calculations and /or hand notations verified

☒

1st Level QA Review Signature: SOHIL JODHANI

Date: 02/02/2023

2nd Level QA Review Signature: _____

Date: _____



284 Sheffield Street, Mountainside, New Jersey - 07092

Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID: O1233
Client: Louis Berger U.S., Inc., A WSP Company
Contact: Jonathan Ganz

OrderDate: 1/19/2023 1:53:00 PM
Project: NYCDDC Phase II SCI Arthur Kill Road CEQR
Location: N11,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
O1233-02	B-P34A	SOIL	SVOC-TCL BNA -20	8270E	01/18/23	01/20/23	01/20/23	01/19/23
O1233-03	B-P34B	SOIL	SVOC-TCL BNA -20	8270E	01/18/23	01/20/23	01/21/23	01/19/23
O1233-04	B-P36A	SOIL	SVOC-TCL BNA -20	8270E	01/18/23	01/20/23	01/21/23	01/19/23
O1233-05	B-P36B	SOIL	SVOC-TCL BNA -20	8270E	01/18/23	01/20/23	01/21/23	01/19/23
O1233-06	B-P37A	SOIL	SVOC-TCL BNA -20	8270E	01/18/23	01/20/23	01/23/23	01/19/23
O1233-07	B-P37B	SOIL	SVOC-TCL BNA -20	8270E	01/18/23	01/20/23	01/20/23	01/19/23
O1233-08	B-P38A	SOIL	SVOC-TCL BNA -20	8270E	01/18/23	01/20/23	01/23/23	01/19/23
O1233-09	B-P38B	SOIL	SVOC-TCL BNA -20	8270E	01/18/23	01/20/23	01/21/23	01/19/23
O1233-10	WC-38	SOIL	SVOC-PAH	8270E	01/18/23	01/20/23	01/24/23	01/19/23
O1233-11	B-P38C	SOIL	SVOC-TCL BNA -20	8270E	01/18/23	01/20/23	01/21/23	01/19/23
O1233-11DL	B-P38CDL	SOIL	SVOC-TCL BNA -20	8270E	01/18/23	01/20/23	01/25/23	01/19/23



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Hit Summary Sheet SW-846

SDG No.: O1233

Client: Louis Berger U.S., Inc., A WSP Company

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : B-P34A								
O1233-02	B-P34A	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	1,800.000	AB	0	0	ug/Kg
O1233-02	B-P34A	SOIL	Benzophenone *	790.000	J	0	0	ug/Kg
O1233-02	B-P34A	SOIL	Heptafluorobutyric acid, n-octadec *	300.000	J	0	0	ug/Kg
O1233-02	B-P34A	SOIL	Methanone, (1-hydroxycyclohexy *	100.000	J	0	0	ug/Kg
O1233-02	B-P34A	SOIL	n-Hexadecanoic acid *	220.000	J	0	0	ug/Kg
Total Tics :				3,210.00				
Total Concentration:				3,210.00				
Client ID : B-P34B								
O1233-03	B-P34B	SOIL	1-Dodecanol, 2-octyl- *	190.000	J	0	0	ug/Kg
O1233-03	B-P34B	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	1,300.000	AB	0	0	ug/Kg
O1233-03	B-P34B	SOIL	Benzophenone *	130.000	J	0	0	ug/Kg
O1233-03	B-P34B	SOIL	n-Hexadecanoic acid *	170.000	J	0	0	ug/Kg
Total Tics :				1,790.00				
Total Concentration:				1,790.00				
Client ID : B-P36A								
O1233-04	B-P36A	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	1,400.000	AB	0	0	ug/Kg
O1233-04	B-P36A	SOIL	Benzophenone *	140.000	J	0	0	ug/Kg
O1233-04	B-P36A	SOIL	n-Hexadecanoic acid *	160.000	J	0	0	ug/Kg
O1233-04	B-P36A	SOIL	Pentadecafluorooctanoic acid, oct: *	160.000	J	0	0	ug/Kg
Total Tics :				1,860.00				
Total Concentration:				1,860.00				
Client ID : B-P36B								
O1233-05	B-P36B	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	1,400.000	AB	0	0	ug/Kg
O1233-05	B-P36B	SOIL	3-Hexen-2-one *	79.300	J	0	0	ug/Kg
O1233-05	B-P36B	SOIL	Benzophenone *	99.200	J	0	0	ug/Kg
O1233-05	B-P36B	SOIL	Pentadecafluorooctanoic acid, oct: *	95.800	J	0	0	ug/Kg
Total Tics :				1,674.30				
Total Concentration:				1,674.30				
Client ID : B-P37A								
O1233-06	B-P37A	SOIL	Phenanthrene	120.000	J	95	190	ug/Kg
O1233-06	B-P37A	SOIL	Fluoranthene	220.000		90.7	190	ug/Kg
O1233-06	B-P37A	SOIL	Pyrene	190.000		84.3	190	ug/Kg
O1233-06	B-P37A	SOIL	Chrysene	110.000	J	97.1	190	ug/Kg
O1233-06	B-P37A	SOIL	Bis(2-ethylhexyl)phthalate	110.000	J	100	190	ug/Kg
O1233-06	B-P37A	SOIL	Benzo(b)fluoranthene	140.000	J	78.4	190	ug/Kg
O1233-06	B-P37A	SOIL	Benzo(a)pyrene	92.400	J	76.9	190	ug/Kg
Total Svoc :				982.40				
O1233-06	B-P37A	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	630.000	AB	0	0	ug/Kg

Hit Summary Sheet SW-846

SDG No.: O1233
Client: Louis Berger U.S., Inc., A WSP Company

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
O1233-06	B-P37A	SOIL	Benzophenone	*	160.000	J 0	0	ug/Kg
O1233-06	B-P37A	SOIL	unknown21.522	*	110.000	J 0	0	ug/Kg
Total Tics :				900.00				
Total Concentration:				1,882.40				
Client ID : B-P37B								
O1233-07	B-P37B	SOIL	Bis(2-ethylhexyl)phthalate		150.000	J 110	200	ug/Kg
Total Svoc :				150.00				
O1233-07	B-P37B	SOIL	n-Hexadecanoic acid	*	310.000	J 0	0	ug/Kg
O1233-07	B-P37B	SOIL	Octadecanoic acid	*	130.000	J 0	0	ug/Kg
O1233-07	B-P37B	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	1,400.000	AB 0	0	ug/Kg
O1233-07	B-P37B	SOIL	Benzophenone	*	210.000	J 0	0	ug/Kg
Total Tics :				2,050.00				
Total Concentration:				2,200.00				
Client ID : B-P38A								
O1233-08	B-P38A	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	660.000	AB 0	0	ug/Kg
O1233-08	B-P38A	SOIL	Benzophenone	*	180.000	J 0	0	ug/Kg
O1233-08	B-P38A	SOIL	Cyclotetradecane	*	140.000	J 0	0	ug/Kg
Total Tics :				980.00				
Total Concentration:				980.00				
Client ID : B-P38B								
O1233-09	B-P38B	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	1,600.000	AB 0	0	ug/Kg
O1233-09	B-P38B	SOIL	Benzophenone	*	240.000	J 0	0	ug/Kg
O1233-09	B-P38B	SOIL	n-Hexadecanoic acid	*	160.000	J 0	0	ug/Kg
O1233-09	B-P38B	SOIL	Oxalic acid, cyclobutyl hexadecyl	*	220.000	J 0	0	ug/Kg
O1233-09	B-P38B	SOIL	Supraene	*	140.000	J 0	0	ug/Kg
O1233-09	B-P38B	SOIL	unknown12.807	*	380.000	J 0	0	ug/Kg
Total Tics :				2,740.00				
Total Concentration:				2,740.00				
Client ID : B-P38C								
O1233-11	B-P38C	SOIL	Naphthalene		4,600.000	E 85.9	200	ug/Kg
O1233-11	B-P38C	SOIL	2-Methylnaphthalene		4,300.000	E 87.2	200	ug/Kg
O1233-11	B-P38C	SOIL	Bis(2-ethylhexyl)phthalate		150.000	J 100	200	ug/Kg
Total Svoc :				9,050.00				
O1233-11	B-P38C	SOIL	Cyclohexane, 1-ethyl-2-methyl-	*	860.000	J 0	0	ug/Kg
O1233-11	B-P38C	SOIL	Decane, 3-methyl-	*	1,000.000	J 0	0	ug/Kg
O1233-11	B-P38C	SOIL	Heptane, 2,5-dimethyl-	*	800.000	J 0	0	ug/Kg
O1233-11	B-P38C	SOIL	Heptane, 2-methyl-	*	910.000	J 0	0	ug/Kg
O1233-11	B-P38C	SOIL	Benzene, 1,2,3-trimethyl-	*	2,100.000	J 0	0	ug/Kg
O1233-11	B-P38C	SOIL	Benzene, 1,3-diethyl-5-methyl-	*	990.000	J 0	0	ug/Kg
O1233-11	B-P38C	SOIL	Benzene, 1-ethyl-2-methyl-	*	1,100.000	J 0	0	ug/Kg
O1233-11	B-P38C	SOIL	Benzene, 1-ethyl-3,5-dimethyl-	*	1,400.000	J 0	0	ug/Kg



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Hit Summary Sheet
SW-846

SDG No.: O1233

Client: Louis Berger U.S., Inc., A WSP Company

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
O1233-11	B-P38C	SOIL	Benzene, 1-ethyl-3-methyl-	* 800.000	J	0	0	ug/Kg
O1233-11	B-P38C	SOIL	Benzene, 1-methyl-4-(1-methylpro	* 950.000	J	0	0	ug/Kg
O1233-11	B-P38C	SOIL	Benzene, 2-butenyl-	* 1,300.000	J	0	0	ug/Kg
O1233-11	B-P38C	SOIL	Benzene, 4-ethyl-1,2-dimethyl-	* 890.000	J	0	0	ug/Kg
O1233-11	B-P38C	SOIL	1-Phenyl-1-butene	* 2,300.000	J	0	0	ug/Kg
O1233-11	B-P38C	SOIL	Nonane	* 1,400.000	J	0	0	ug/Kg
O1233-11	B-P38C	SOIL	Octane	* 1,400.000	J	0	0	ug/Kg
O1233-11	B-P38C	SOIL	Octane, 2,6-dimethyl-	* 1,900.000	J	0	0	ug/Kg
O1233-11	B-P38C	SOIL	o-Cymene	* 840.000	J	0	0	ug/Kg
O1233-11	B-P38C	SOIL	unknown7.748	* 1,600.000	J	0	0	ug/Kg
O1233-11	B-P38C	SOIL	unknown8.666	* 1,000.000	J	0	0	ug/Kg
O1233-11	B-P38C	SOIL	1-Methylnaphthalene	* 2,000.000	J	92.3	200	ug/Kg
Total Tics :				25,540.00				
Total Concentration:				34,590.00				
Client ID : B-P38CDL								
O1233-11DL	B-P38CDL	SOIL	Naphthalene	4,300.000	D	430	990	ug/Kg
O1233-11DL	B-P38CDL	SOIL	2-Methylnaphthalene	3,600.000	D	440	990	ug/Kg
Total Svoc :				7,900.00				
Total Concentration:				7,900.00				

QC SUMMARY



Surrogate Summary

SW-846

SDG No.: O1233

Client: Louis Berger U.S., Inc., A WSP Company

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
O1233-02	B-P34A	2-Fluorophenol	150	140	93		18	112
		Phenol-d6	150	149	99		21	104
		Nitrobenzene-d5	100	102	102		27	109
		2-Fluorobiphenyl	100	81.2	81		30	103
		2,4,6-Tribromophenol	150	163	109		10	121
O1233-02MS	B-P34AMS	Terphenyl-d14	100	79.7	80		21	107
		2-Fluorophenol	150	111	74		18	112
		Phenol-d6	150	118	79		21	104
		Nitrobenzene-d5	100	81.4	81		27	109
		2-Fluorobiphenyl	100	65.7	66		30	103
O1233-02MSD	B-P34AMSD	2,4,6-Tribromophenol	150	131	88		10	121
		Terphenyl-d14	100	73.6	74		21	107
		2-Fluorophenol	150	111	74		18	112
		Phenol-d6	150	117	78		21	104
		Nitrobenzene-d5	100	82.3	82		27	109
O1233-03	B-P34B	2-Fluorobiphenyl	100	66.1	66		30	103
		2,4,6-Tribromophenol	150	131	87		10	121
		Terphenyl-d14	100	74.4	74		21	107
		2-Fluorophenol	150	101	67		18	112
		Phenol-d6	150	103	69		21	104
O1233-04	B-P36A	Nitrobenzene-d5	100	72.2	72		27	109
		2-Fluorobiphenyl	100	60.7	61		30	103
		2,4,6-Tribromophenol	150	108	72		10	121
		Terphenyl-d14	100	64.8	65		21	107
		2-Fluorophenol	150	117	78		18	112
O1233-05	B-P36B	Phenol-d6	150	123	82		21	104
		Nitrobenzene-d5	100	86.0	86		27	109
		2-Fluorobiphenyl	100	70.7	71		30	103
		2,4,6-Tribromophenol	150	136	90		10	121
		Terphenyl-d14	100	76.2	76		21	107
O1233-06	B-P37A	2-Fluorophenol	150	87.7	58		18	112
		Phenol-d6	150	98.6	66		21	104
		Nitrobenzene-d5	100	69.2	69		27	109
		2-Fluorobiphenyl	100	57.5	58		30	103
		2,4,6-Tribromophenol	150	80.4	54		10	121
O1233-07	B-P37B	Terphenyl-d14	100	61.3	61		21	107
		2-Fluorophenol	150	112	75		18	112
		Phenol-d6	150	102	68		21	104
		Nitrobenzene-d5	100	58.8	59		27	109
		2-Fluorobiphenyl	100	63.1	63		30	103
O1233-08	B-P38A	2,4,6-Tribromophenol	150	101	67		10	121
		Terphenyl-d14	100	67.9	68		21	107
		2-Fluorophenol	150	104	69		18	112
		Phenol-d6	150	106	71		21	104
		Nitrobenzene-d5	100	75.7	76		27	109
		2-Fluorobiphenyl	100	63.8	64		30	103
		2,4,6-Tribromophenol	150	114	76		10	121
		Terphenyl-d14	100	67.0	67		21	107
		2-Fluorophenol	150	135	90		18	112
		Phenol-d6	150	119	80		21	104
		Nitrobenzene-d5	100	63.8	64		27	109
		2-Fluorobiphenyl	100	65.9	66		30	103



Surrogate Summary

SW-846

SDG No.: O1233

Client: Louis Berger U.S., Inc., A WSP Company

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
O1233-08	B-P38A	2,4,6-Tribromophenol	150	94.2	63		10	121
		Terphenyl-d14	100	71.2	71		21	107
O1233-09	B-P38B	2-Fluorophenol	150	125	84		18	112
		Phenol-d6	150	131	87		21	104
		Nitrobenzene-d5	100	92.0	92		27	109
		2-Fluorobiphenyl	100	73.8	74		30	103
		2,4,6-Tribromophenol	150	139	93		10	121
		Terphenyl-d14	100	76.1	76		21	107
O1233-11	B-P38C	2-Fluorophenol	150	113	75		18	112
		Phenol-d6	150	123	82		21	104
		Nitrobenzene-d5	100	96.6	97		27	109
		2-Fluorobiphenyl	100	65.0	65		30	103
		2,4,6-Tribromophenol	150	134	89		10	121
		Terphenyl-d14	100	68.5	68		21	107
O1233-11DL	B-P38CDL	2-Fluorophenol	150	111	74		18	112
		Phenol-d6	150	103	69		21	104
		Nitrobenzene-d5	100	80.9	81		27	109
		2-Fluorobiphenyl	100	61.8	62		30	103
		2,4,6-Tribromophenol	150	112	75		10	121
		Terphenyl-d14	100	82.7	83		21	107
PB150378BL	PB150378BL	2-Fluorophenol	150	128	85		18	112
		Phenol-d6	150	125	83		21	104
		Nitrobenzene-d5	100	78.9	79		27	109
		2-Fluorobiphenyl	100	67.6	68		30	103
		2,4,6-Tribromophenol	150	131	88		10	121
		Terphenyl-d14	100	70.3	70		21	107
PB150378BS	PB150378BS	2-Fluorophenol	150	146	97		18	112
		Phenol-d6	150	144	96		21	104
		Nitrobenzene-d5	100	90.3	90		27	109
		2-Fluorobiphenyl	100	85.2	85		30	103
		2,4,6-Tribromophenol	150	141	94		10	121
		Terphenyl-d14	100	103	103		21	107



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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O1233

Client: Louis Berger U.S., Inc., A WSP Company

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits		RPD
									Low	High	
Lab Sample ID:	O1233-02MS	Client Sample ID:	B-P34AMS					DataFile:	BF132171.D		
Benzaldehyde	2000	0	1200	ug/Kg	60				26	163	
Phenol	2000	0	1700	ug/Kg	85				67	126	
bis(2-Chloroethyl)ether	2000	0	1700	ug/Kg	85				74	116	
2-Chlorophenol	2000	0	1800	ug/Kg	90				61	138	
2-Methylphenol	2000	0	1700	ug/Kg	85				66	122	
2,2-oxybis(1-Chloropropane)	2000	0	1700	ug/Kg	85				52	115	
Acetophenone	2000	0	1600	ug/Kg	80				75	111	
3+4-Methylphenols	2000	0	1700	ug/Kg	85				53	132	
N-Nitroso-di-n-propylamine	2000	0	1700	ug/Kg	85				59	119	
Hexachloroethane	2000	0	1800	ug/Kg	90				65	117	
Nitrobenzene	2000	0	1700	ug/Kg	85				70	119	
Isophorone	2000	0	1700	ug/Kg	85				76	122	
2-Nitrophenol	2000	0	2000	ug/Kg	100				54	145	
2,4-Dimethylphenol	2000	0	1700	ug/Kg	85				83	144	
bis(2-Chloroethoxy)methane	2000	0	1600	ug/Kg	80				68	112	
2,4-Dichlorophenol	2000	0	1700	ug/Kg	85				72	118	
Naphthalene	2000	0	1600	ug/Kg	80				72	110	
4-Chloroaniline	2000	0	590	ug/Kg	29				10	100	
Hexachlorobutadiene	2000	0	1600	ug/Kg	80				66	114	
Caprolactam	2000	0	2000	ug/Kg	100				51	134	
4-Chloro-3-methylphenol	2000	0	1800	ug/Kg	90				57	132	
2-Methylnaphthalene	2000	0	1500	ug/Kg	75				59	123	
Hexachlorocyclopentadiene	3900	0	3600	ug/Kg	92				10	175	
2,4,6-Trichlorophenol	2000	0	1700	ug/Kg	85				72	117	
2,4,5-Trichlorophenol	2000	0	1600	ug/Kg	80				72	117	
1,1-Biphenyl	2000	0	1600	ug/Kg	80				75	113	
2-Chloronaphthalene	2000	0	1600	ug/Kg	80				67	118	
2-Nitroaniline	2000	0	1800	ug/Kg	90				69	127	
Dimethylphthalate	2000	0	1600	ug/Kg	80				70	113	
Acenaphthylene	2000	0	1600	ug/Kg	80				79	118	
2,6-Dinitrotoluene	2000	0	2000	ug/Kg	100				70	125	
3-Nitroaniline	2000	0	1300	ug/Kg	65				20	111	
Acenaphthene	2000	0	1800	ug/Kg	90				70	121	
2,4-Dinitrophenol	3900	0	4200	ug/Kg	108				16	160	
4-Nitrophenol	3900	0	3900	ug/Kg	100				45	133	
Dibenzofuran	2000	0	1500	ug/Kg	75				72	110	
2,4-Dinitrotoluene	2000	0	2100	ug/Kg	105				55	128	
Diethylphthalate	2000	0	1700	ug/Kg	85				70	112	
4-Chlorophenyl-phenylether	2000	0	1600	ug/Kg	80				71	108	
Fluorene	2000	0	1600	ug/Kg	80				68	116	
4-Nitroaniline	2000	0	1900	ug/Kg	95				55	120	
4,6-Dinitro-2-methylphenol	2000	0	1900	ug/Kg	95				32	145	
N-Nitrosodiphenylamine	2000	0	1500	ug/Kg	75				73	118	
4-Bromophenyl-phenylether	2000	0	1500	ug/Kg	75				65	121	
Hexachlorobenzene	2000	0	1700	ug/Kg	85				67	118	
Atrazine	2000	0	1800	ug/Kg	90				79	127	
Pentachlorophenol	3900	0	3100	ug/Kg	79				47	128	



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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O1233

Client: Louis Berger U.S., Inc., A WSP Company

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec		RPD		Limits	
						Qual	RPD	Qual	Low	High	RPD
Phenanthrene	2000	0	1500	ug/Kg	75				72	113	
Anthracene	2000	0	1500	ug/Kg	75				62	124	
Carbazole	2000	0	1700	ug/Kg	85				59	119	
Di-n-butylphthalate	2000	0	1800	ug/Kg	90				69	118	
Fluoranthene	2000	0	1700	ug/Kg	85				59	125	
Pyrene	2000	0	1600	ug/Kg	80				52	128	
Butylbenzylphthalate	2000	0	1900	ug/Kg	95				64	126	
3,3-Dichlorobenzidine	2000	0	830	ug/Kg	42				10	164	
Benzo(a)anthracene	2000	0	1700	ug/Kg	85				71	114	
Chrysene	2000	0	1600	ug/Kg	80				57	121	
bis(2-Ethylhexyl)phthalate	2000	0	1800	ug/Kg	90				66	127	
Di-n-octyl phthalate	2000	0	1700	ug/Kg	85				71	126	
Benzo(b)fluoranthene	2000	0	1800	ug/Kg	90				67	121	
Benzo(k)fluoranthene	2000	0	1700	ug/Kg	85				74	114	
Benzo(a)pyrene	2000	0	1600	ug/Kg	80				70	142	
Indeno(1,2,3-cd)pyrene	2000	0	1500	ug/Kg	75				61	125	
Dibenz(a,h)anthracene	2000	0	1700	ug/Kg	85				67	130	
Benzo(g,h,i)perylene	2000	0	1500	ug/Kg	75				53	140	
1,2,4,5-Tetrachlorobenzene	2000	0	1500	ug/Kg	75				69	124	
1,4-Dioxane	2000	0	1500	ug/Kg	75				46	112	
2,3,4,6-Tetrachlorophenol	2000	0	1800	ug/Kg	90				56	133	

Matrix Spike/Matrix Spike Duplicate Summary
SW-846SDG No.: 01233Client: Louis Berger U.S., Inc., A WSP CompanyAnalytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits		
									Low	High	RPD
Lab Sample ID:	01233-02MSD	Client Sample ID:	B-P34AMSD					DataFile:	BF132172.D		
Benzaldehyde	1900	0	1200	ug/Kg	63		5		26	163	20
Phenol	1900	0	1700	ug/Kg	89		5		67	126	20
bis(2-Chloroethyl)ether	1900	0	1700	ug/Kg	89		5		74	116	20
2-Chlorophenol	1900	0	1800	ug/Kg	95		5		61	138	20
2-Methylphenol	1900	0	1700	ug/Kg	89		5		66	122	20
2,2-oxybis(1-Chloropropane)	1900	0	1700	ug/Kg	89		5		52	115	20
Acetophenone	1900	0	1600	ug/Kg	84		5		75	111	20
3+4-Methylphenols	1900	0	1700	ug/Kg	89		5		53	132	20
N-Nitroso-di-n-propylamine	1900	0	1600	ug/Kg	84		1		59	119	20
Hexachloroethane	1900	0	1800	ug/Kg	95		5		65	117	20
Nitrobenzene	1900	0	1700	ug/Kg	89		5		70	119	20
Isophorone	1900	0	1700	ug/Kg	89		5		76	122	20
2-Nitrophenol	1900	0	2000	ug/Kg	105		5		54	145	20
2,4-Dimethylphenol	1900	0	1700	ug/Kg	89		5		83	144	20
bis(2-Chloroethoxy)methane	1900	0	1600	ug/Kg	84		5		68	112	20
2,4-Dichlorophenol	1900	0	1700	ug/Kg	89		5		72	118	20
Naphthalene	1900	0	1600	ug/Kg	84		5		72	110	20
4-Chloroaniline	1900	0	600	ug/Kg	32		10		10	100	20
Hexachlorobutadiene	1900	0	1600	ug/Kg	84		5		66	114	20
Caprolactam	1900	0	2000	ug/Kg	105		5		51	134	20
4-Chloro-3-methylphenol	1900	0	1800	ug/Kg	95		5		57	132	20
2-Methylnaphthalene	1900	0	1500	ug/Kg	79		5		59	123	20
Hexachlorocyclopentadiene	3900	0	3700	ug/Kg	95		3		10	175	20
2,4,6-Trichlorophenol	1900	0	1700	ug/Kg	89		5		72	117	20
2,4,5-Trichlorophenol	1900	0	1600	ug/Kg	84		5		72	117	20
1,1-Biphenyl	1900	0	1600	ug/Kg	84		5		75	113	20
2-Chloronaphthalene	1900	0	1600	ug/Kg	84		5		67	118	20
2-Nitroaniline	1900	0	1800	ug/Kg	95		5		69	127	20
Dimethylphthalate	1900	0	1600	ug/Kg	84		5		70	113	20
Acenaphthylene	1900	0	1600	ug/Kg	84		5		79	118	20
2,6-Dinitrotoluene	1900	0	1900	ug/Kg	100		0		70	125	20
3-Nitroaniline	1900	0	1200	ug/Kg	63		3		20	111	20
Acenaphthene	1900	0	1800	ug/Kg	95		5		70	121	20
2,4-Dinitrophenol	3900	0	4200	ug/Kg	108		0		16	160	20
4-Nitrophenol	3900	0	3900	ug/Kg	100		0		45	133	20
Dibenzofuran	1900	0	1600	ug/Kg	84		11		72	110	20
2,4-Dinitrotoluene	1900	0	2100	ug/Kg	111		6		55	128	20
Diethylphthalate	1900	0	1600	ug/Kg	84		1		70	112	20
4-Chlorophenyl-phenylether	1900	0	1600	ug/Kg	84		5		71	108	20
Fluorene	1900	0	1600	ug/Kg	84		5		68	116	20
4-Nitroaniline	1900	0	1900	ug/Kg	100		5		55	120	20
4,6-Dinitro-2-methylphenol	1900	0	1900	ug/Kg	100		5		32	145	20
N-Nitrosodiphenylamine	1900	0	1500	ug/Kg	79		5		73	118	20
4-Bromophenyl-phenylether	1900	0	1500	ug/Kg	79		5		65	121	20
Hexachlorobenzene	1900	0	1600	ug/Kg	84		1		67	118	20
Atrazine	1900	0	1800	ug/Kg	95		5		79	127	20
Pentachlorophenol	3900	0	3100	ug/Kg	79		0		47	128	20



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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O1233

Client: Louis Berger U.S., Inc., A WSP Company

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits		
									Low	High	RPD
Phenanthrene	1900	0	1500	ug/Kg	79		5		72	113	20
Anthracene	1900	0	1500	ug/Kg	79		5		62	124	20
Carbazole	1900	0	1600	ug/Kg	84		1		59	119	20
Di-n-butylphthalate	1900	0	1700	ug/Kg	89		1		69	118	20
Fluoranthene	1900	0	1700	ug/Kg	89		5		59	125	20
Pyrene	1900	0	1600	ug/Kg	84		5		52	128	20
Butylbenzylphthalate	1900	0	1900	ug/Kg	100		5		64	126	20
3,3-Dichlorobenzidine	1900	0	870	ug/Kg	46		9		10	164	20
Benzo(a)anthracene	1900	0	1600	ug/Kg	84		1		71	114	20
Chrysene	1900	0	1600	ug/Kg	84		5		57	121	20
bis(2-Ethylhexyl)phthalate	1900	0	1700	ug/Kg	89		1		66	127	20
Di-n-octyl phthalate	1900	0	1700	ug/Kg	89		5		71	126	20
Benzo(b)fluoranthene	1900	0	1800	ug/Kg	95		5		67	121	20
Benzo(k)fluoranthene	1900	0	1700	ug/Kg	89		5		74	114	20
Benzo(a)pyrene	1900	0	1600	ug/Kg	84		5		70	142	20
Indeno(1,2,3-cd)pyrene	1900	0	1500	ug/Kg	79		5		61	125	20
Dibenz(a,h)anthracene	1900	0	1600	ug/Kg	84		1		67	130	20
Benzo(g,h,i)perylene	1900	0	1500	ug/Kg	79		5		53	140	20
1,2,4,5-Tetrachlorobenzene	1900	0	1500	ug/Kg	79		5		69	124	20
1,4-Dioxane	1900	0	1500	ug/Kg	79		5		46	112	20
2,3,4,6-Tetrachlorophenol	1900	0	1800	ug/Kg	95		5		56	133	20



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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O1233

Client: Louis Berger U.S., Inc., A WSP Company

Analytical Method: 8270E

DataFile: BP013684.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB150378BS	Benzaldehyde	1700	960	ug/Kg	56				10	109	
	Phenol	1700	1600	ug/Kg	94				62	112	
	bis(2-Chloroethyl)ether	1700	1500	ug/Kg	88				60	101	
	2-Chlorophenol	1700	1600	ug/Kg	94				65	112	
	2-Methylphenol	1700	1500	ug/Kg	88				61	108	
	2,2-oxybis(1-Chloropropane)	1700	1600	ug/Kg	94				51	100	
	Acetophenone	1700	1400	ug/Kg	82				55	104	
	3+4-Methylphenols	1700	1500	ug/Kg	88				58	111	
	N-Nitroso-di-n-propylamine	1700	1500	ug/Kg	88				63	95	
	Hexachloroethane	1700	1600	ug/Kg	94				59	102	
	Nitrobenzene	1700	1400	ug/Kg	82				57	101	
	Isophorone	1700	1400	ug/Kg	82				59	99	
	2-Nitrophenol	1700	1400	ug/Kg	82				61	111	
	2,4-Dimethylphenol	1700	1500	ug/Kg	88				67	119	
	bis(2-Chloroethoxy)methane	1700	1400	ug/Kg	82				53	105	
	2,4-Dichlorophenol	1700	1500	ug/Kg	88				62	107	
	Naphthalene	1700	1400	ug/Kg	82				62	100	
	4-Chloroaniline	1700	810	ug/Kg	48				16	100	
	Hexachlorobutadiene	1700	1500	ug/Kg	88				53	98	
	Caprolactam	1700	1400	ug/Kg	82				42	122	
	4-Chloro-3-methylphenol	1700	1500	ug/Kg	88				58	112	
	2-Methylnaphthalene	1700	1300	ug/Kg	76				60	104	
	Hexachlorocyclopentadiene	3300	3600	ug/Kg	109				45	134	
	2,4,6-Trichlorophenol	1700	1500	ug/Kg	88				59	102	
	2,4,5-Trichlorophenol	1700	1400	ug/Kg	82				61	98	
	1,1-Biphenyl	1700	1400	ug/Kg	82				57	103	
	2-Chloronaphthalene	1700	1400	ug/Kg	82				58	99	
	2-Nitroaniline	1700	1400	ug/Kg	82				53	105	
	Dimethylphthalate	1700	1400	ug/Kg	82				61	99	
	Acenaphthylene	1700	1400	ug/Kg	82				63	101	
	2,6-Dinitrotoluene	1700	1400	ug/Kg	82				61	104	
	3-Nitroaniline	1700	1100	ug/Kg	65				28	100	
	Acenaphthene	1700	1600	ug/Kg	94				57	104	
	2,4-Dinitrophenol	3300	2900	ug/Kg	88				37	128	
	4-Nitrophenol	3300	3100	ug/Kg	94				48	119	
	Dibenzofuran	1700	1400	ug/Kg	82				63	99	
	2,4-Dinitrotoluene	1700	1500	ug/Kg	88				60	106	
	Diethylphthalate	1700	1400	ug/Kg	82				60	101	
	4-Chlorophenyl-phenylether	1700	1400	ug/Kg	82				58	98	
	Fluorene	1700	1400	ug/Kg	82				61	101	
	4-Nitroaniline	1700	1300	ug/Kg	76				47	102	
	4,6-Dinitro-2-methylphenol	1700	1400	ug/Kg	82				48	132	
	N-Nitrosodiphenylamine	1700	1400	ug/Kg	82				56	107	
	4-Bromophenyl-phenylether	1700	1400	ug/Kg	82				55	99	
	Hexachlorobenzene	1700	1500	ug/Kg	88				64	98	
	Atrazine	1700	1600	ug/Kg	94				47	125	



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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O1233

Client: Louis Berger U.S., Inc., A WSP Company

Analytical Method: 8270E

DataFile: BP013684.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB150378BS	Pentachlorophenol	3300	2800	ug/Kg	85				67	105	
	Phenanthrene	1700	1400	ug/Kg	82				59	103	
	Anthracene	1700	1400	ug/Kg	82				61	105	
	Carbazole	1700	1400	ug/Kg	82				61	99	
	Di-n-butylphthalate	1700	1400	ug/Kg	82				58	104	
	Fluoranthene	1700	1400	ug/Kg	82				57	107	
	Pyrene	1700	1600	ug/Kg	94				59	103	
	Butylbenzylphthalate	1700	1600	ug/Kg	94				55	103	
	3,3-Dichlorobenzidine	1700	1300	ug/Kg	76				30	89	
	Benzo(a)anthracene	1700	1500	ug/Kg	88				60	102	
	Chrysene	1700	1400	ug/Kg	82				59	101	
	bis(2-Ethylhexyl)phthalate	1700	1500	ug/Kg	88				51	114	
	Di-n-octyl phthalate	1700	1300	ug/Kg	76				52	114	
	Benzo(b)fluoranthene	1700	1700	ug/Kg	100				62	109	
	Benzo(k)fluoranthene	1700	1600	ug/Kg	94				62	109	
	Benzo(a)pyrene	1700	1400	ug/Kg	82				63	103	
	Indeno(1,2,3-cd)pyrene	1700	1300	ug/Kg	76				63	101	
	Dibenz(a,h)anthracene	1700	1300	ug/Kg	76				61	112	
	Benzo(g,h,i)perylene	1700	1200	ug/Kg	71				57	116	
	1,2,4,5-Tetrachlorobenzene	1700	1400	ug/Kg	82				53	101	
	1,4-Dioxane	1700	1100	ug/Kg	65				50	96	
	2,3,4,6-Tetrachlorophenol	1700	1500	ug/Kg	88				59	108	



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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB150378BL

Lab Name: CHEMTECH

Contract: loui01

Lab Code: CHEM Case No.: O1233

SAS No.: O1233 SDG NO.: O1233

Lab File ID: BP013572.D

Lab Sample ID: PB150378BL

Instrument ID: BNA_P

Date Extracted: 01/20/2023

Matrix: (soil/water) SOIL

Date Analyzed: 01/24/2023

Level: (low/med) LOW

Time Analyzed: 15:50

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB150378BS	PB150378BS	BP013684.D	01/31/2023
B-P34A	O1233-02	BF132170.D	01/20/2023
B-P34AMS	O1233-02MS	BF132171.D	01/20/2023
B-P34AMSD	O1233-02MSD	BF132172.D	01/20/2023
B-P34B	O1233-03	BF132178.D	01/21/2023
B-P36A	O1233-04	BF132179.D	01/21/2023
B-P36B	O1233-05	BF132180.D	01/21/2023
B-P37B	O1233-07	BF132174.D	01/20/2023
B-P38B	O1233-09	BF132181.D	01/21/2023
B-P38C	O1233-11	BF132182.D	01/21/2023
B-P37A	O1233-06	BG056390.D	01/23/2023
B-P38A	O1233-08	BG056392.D	01/23/2023

COMMENTS:



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: loui01Lab Code: CHEMSAS No.: 01233 SDG NO.: 01233Lab File ID: BF132139.DDFTPP Injection Date: 01/19/2023Instrument ID: BNA_FDFTPP Injection Time: 10:46

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	40.6
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	37.4
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	48.4
197	Less than 2.0% of mass 198	0.7
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	28.2
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	12.5
442	Greater than 50% of mass 198	82.8
443	15.0 - 24.0% of mass 442	16 (19.3) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF132140.D	01/19/2023	11:21
SSTDICC005	SSTDICC005	BF132141.D	01/19/2023	11:53
SSTDICC010	SSTDICC010	BF132142.D	01/19/2023	12:26
SSTDICC020	SSTDICC020	BF132143.D	01/19/2023	12:59
SSTDICCC040	SSTDICCC040	BF132144.D	01/19/2023	13:32
SSTDICC050	SSTDICC050	BF132145.D	01/19/2023	14:05
SSTDICC060	SSTDICC060	BF132146.D	01/19/2023	14:38
SSTDICC080	SSTDICC080	BF132147.D	01/19/2023	15:11



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: loui01Lab Code: CHEMSAS No.: 01233 SDG NO.: 01233Lab File ID: BF132163.DDFTPP Injection Date: 01/20/2023Instrument ID: BNA_FDFTPP Injection Time: 16:08

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.5
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	36
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	46.9
197	Less than 2.0% of mass 198	0.7
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	28.3
365	Greater than 1% of mass 198	4.3
441	Present, but less than mass 443	13.9
442	Greater than 50% of mass 198	89.3
443	15.0 - 24.0% of mass 442	17.6 (19.7) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF132164.D	01/20/2023	16:40
B-P34A	O1233-02	BF132170.D	01/20/2023	20:03
B-P34AMS	O1233-02MS	BF132171.D	01/20/2023	20:35
B-P34AMSD	O1233-02MSD	BF132172.D	01/20/2023	21:08
B-P37B	O1233-07	BF132174.D	01/20/2023	22:13
B-P34B	O1233-03	BF132178.D	01/21/2023	00:23
B-P36A	O1233-04	BF132179.D	01/21/2023	00:56
B-P36B	O1233-05	BF132180.D	01/21/2023	01:28
B-P38B	O1233-09	BF132181.D	01/21/2023	02:00
B-P38C	O1233-11	BF132182.D	01/21/2023	02:33



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: loui01Lab Code: CHEMSAS No.: 01233 SDG NO.: 01233Lab File ID: BG056125.DDFTPP Injection Date: 12/27/2022Instrument ID: BNA_GDFTPP Injection Time: 14:13

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	15.4
68	Less than 2.0% of mass 69	0.2 (0.7) 1
69	Mass 69 relative abundance	23.8
70	Less than 2.0% of mass 69	0.1 (0.6) 1
127	10.0 - 80.0% of mass 198	34.9
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	31.4
365	Greater than 1% of mass 198	4
441	Present, but less than mass 443	10.6
442	Greater than 50% of mass 198	69.2
443	15.0 - 24.0% of mass 442	14.8 (21.4) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BG056126.D	12/27/2022	14:55
SSTDICC005	SSTDICC005	BG056127.D	12/27/2022	15:36
SSTDICC010	SSTDICC010	BG056128.D	12/27/2022	16:17
SSTDICC020	SSTDICC020	BG056129.D	12/27/2022	16:58
SSTDICCC040	SSTDICCC040	BG056130.D	12/27/2022	17:40
SSTDICC050	SSTDICC050	BG056131.D	12/27/2022	18:21
SSTDICC060	SSTDICC060	BG056132.D	12/27/2022	19:01
SSTDICC080	SSTDICC080	BG056133.D	12/27/2022	19:42



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: loui01Lab Code: CHEMSAS No.: O1233 SDG NO.: O1233Lab File ID: BG056379.DDFTPP Injection Date: 01/23/2023Instrument ID: BNA_GDFTPP Injection Time: 10:46

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	14
68	Less than 2.0% of mass 69	0.1 (0.4) 1
69	Mass 69 relative abundance	21.6
70	Less than 2.0% of mass 69	0.2 (0.8) 1
127	10.0 - 80.0% of mass 198	33.3
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	32.6
365	Greater than 1% of mass 198	4
441	Present, but less than mass 443	12.8
442	Greater than 50% of mass 198	78.9
443	15.0 - 24.0% of mass 442	15.9 (20.1) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BG056380.D	01/23/2023	11:41
B-P37A	O1233-06	BG056390.D	01/23/2023	19:09
B-P38A	O1233-08	BG056392.D	01/23/2023	20:31



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: loui01Lab Code: CHEMSAS No.: 01233 SDG NO.: 01233Lab File ID: BP013544.DDFTPP Injection Date: 01/23/2023Instrument ID: BNA_PDFTPP Injection Time: 10:51

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.2
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	34.1
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	46.8
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	26.5
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	15.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.9 (19.9) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BP013545.D	01/23/2023	11:25
SSTDICC005	SSTDICC005	BP013546.D	01/23/2023	12:00
SSTDICC010	SSTDICC010	BP013547.D	01/23/2023	12:34
SSTDICC020	SSTDICC020	BP013548.D	01/23/2023	13:08
SSTDICCC040	SSTDICCC040	BP013549.D	01/23/2023	13:42
SSTDICC050	SSTDICC050	BP013550.D	01/23/2023	14:17
SSTDICC060	SSTDICC060	BP013551.D	01/23/2023	14:51
SSTDICC080	SSTDICC080	BP013552.D	01/23/2023	16:01



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: loui01Lab Code: CHEMSAS No.: O1233 SDG NO.: O1233Lab File ID: BP013570.DDFTPP Injection Date: 01/24/2023Instrument ID: BNA_PDFTPP Injection Time: 14:38

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	33.8
68	Less than 2.0% of mass 69	0.5 (1.7) 1
69	Mass 69 relative abundance	32.2
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	44.7
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	25.6
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	15.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.5 (19.5) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BP013571.D	01/24/2023	15:13
PB150378BL	PB150378BL	BP013572.D	01/24/2023	15:50
B-P38CDL	O1233-11DL	BP013590.D	01/25/2023	02:09



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5B

**SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)**

Lab Name: CHEMTECHContract: loui01Lab Code: CHEMSAS No.: 01233SDG NO.: 01233Lab File ID: BP013668.DDFTPP Injection Date: 01/31/2023Instrument ID: BNA_PDFTPP Injection Time: 10:47

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	24
68	Less than 2.0% of mass 69	0.5 (1.8) 1
69	Mass 69 relative abundance	27.1
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	34.4
197	Less than 2.0% of mass 198	0.5
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.3
275	10.0 - 60.0% of mass 198	27.4
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	15.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.5 (19.5) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BP013669.D	01/31/2023	11:21
SSTDICC005	SSTDICC005	BP013670.D	01/31/2023	11:55
SSTDICC010	SSTDICC010	BP013671.D	01/31/2023	12:30
SSTDICC020	SSTDICC020	BP013672.D	01/31/2023	13:04
SSTDICCC040	SSTDICCC040	BP013673.D	01/31/2023	13:38
SSTDICC050	SSTDICC050	BP013674.D	01/31/2023	14:12
SSTDICC060	SSTDICC060	BP013675.D	01/31/2023	14:47
SSTDICC080	SSTDICC080	BP013676.D	01/31/2023	15:56
PB150378BS	PB150378BS	BP013684.D	01/31/2023	21:04



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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O1233 SAS No.: O1233 SDG NO.: O1233

EPA Sample No.: SSTDCCC040 Date Analyzed: 01/20/2023

Lab File ID: BF132164.D Time Analyzed: 16:40

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	175584	7.09	590884	8.38	314145	10.14
	UPPER LIMIT	351168	7.59	1181770	8.878	628290	10.642
	LOWER LIMIT	87792	6.59	295442	7.878	157073	9.642
	EPA SAMPLE NO.						
01	B-P34A	165824	7.09	608025	8.38	328729	10.14
02	B-P34AMS	184212	7.09	674454	8.38	369043	10.14
03	B-P34AMSD	185010	7.09	669898	8.38	363370	10.14
04	B-P37B	177955	7.09	631961	8.38	341753	10.14
05	B-P34B	185742	7.09	675652	8.38	368118	10.14
06	B-P36A	189363	7.09	681160	8.38	365830	10.14
07	B-P36B	179392	7.09	645668	8.38	348624	10.14
08	B-P38B	175268	7.09	626552	8.38	338703	10.14
09	B-P38C	95858	7.10	389884	8.39	294398	10.14

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O1233 SAS No.: O1233 SDG NO.: O1233

EPA Sample No.: SSTDCCC040

Date Analyzed: 01/20/2023

Lab File ID: BF132164.D

Time Analyzed: 16:40

Instrument ID: BNA_F

GC Column: DB-UI ID: 0.18 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	631542	11.642	364265	14.307	316916	15.901
UPPER LIMIT	1263080	12.142	728530	14.807	633832	16.401
LOWER LIMIT	315771	11.142	182133	13.807	158458	15.401
EPA SAMPLE NO.						
01 B-P34A	655100	11.64	482863	14.30	384782	15.90
02 B-P34AMS	748390	11.64	455426	14.31	405760	15.90
03 B-P34AMSD	736982	11.64	439968	14.31	406965	15.90
04 B-P37B	670384	11.64	444362	14.30	375935	15.90
05 B-P34B	732948	11.64	480445	14.30	398304	15.90
06 B-P36A	725377	11.64	477461	14.30	393144	15.90
07 B-P36B	667878	11.64	443182	14.30	380998	15.90
08 B-P38B	667544	11.64	452870	14.30	378822	15.90
09 B-P38C	605609	11.64	411820	14.30	355739	15.90

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O1233 SAS No.: O1233 SDG NO.: O1233

EPA Sample No.: SSTDCCC040 Date Analyzed: 01/23/2023

Lab File ID: BG056380.D Time Analyzed: 11:41

Instrument ID: BNA_G GC Column: ZB-GR ID: 0.25 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	35880	8.299	143339	11.14	121624	14.92
UPPER LIMIT	71760	8.799	286678	11.637	243248	15.42
LOWER LIMIT	17940	7.799	71669.5	10.637	60812	14.42
EPA SAMPLE NO.						
01 B-P37A	38461	8.30	155511	11.13	129252	14.91
02 B-P38A	36838	8.30	157784	11.13	127381	14.91

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O1233 SAS No.: O1233 SDG NO.: O1233

EPA Sample No.: SSTDCCC040 Date Analyzed: 01/23/2023

Lab File ID: BG056380.D Time Analyzed: 11:41

Instrument ID: BNA_G GC Column: ZB-GR ID: 0.25 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	314903	17.652	266234	21.947	293224	25.384
UPPER LIMIT	629806	18.152	532468	22.447	586448	25.884
LOWER LIMIT	157452	17.152	133117	21.447	146612	24.884
EPA SAMPLE NO.						
01 B-P37A	335669	17.64	299254	21.94	323323	25.37
02 B-P38A	312833	17.65	275682	21.94	296075	25.36

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O1233 SAS No.: O1233 SDG NO.: O1233

EPA Sample No.: SSTDCCC040 Date Analyzed: 01/24/2023

Lab File ID: BP013571.D Time Analyzed: 15:13

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	306718	8.163	1319960	10.99	845480	14.80
UPPER LIMIT	613436	8.663	2639920	11.493	1690960	15.298
LOWER LIMIT	153359	7.663	659980	10.493	422740	14.298
EPA SAMPLE NO.						
01 PB150378BL	291029	8.16	1295640	10.99	837908	14.80
02 B-P38CDL	476799	8.16	1980990	10.99	1235300	14.79

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O1233 SAS No.: O1233 SDG NO.: O1233

EPA Sample No.: SSTDCCC040 Date Analyzed: 01/24/2023

Lab File ID: BP013571.D Time Analyzed: 15:13

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	1830850	17.551	1775330	21.627	1903850	24.215
UPPER LIMIT	3661700	18.051	3550660	22.127	3807700	24.715
LOWER LIMIT	915425	17.051	887665	21.127	951925	23.715
EPA SAMPLE NO.						
01 PB150378BL	1910080	17.55	1883140	21.63	2131870	24.22
02 B-P38CDL	2590770	17.55	1671770	21.62	1637100	24.20

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH
Lab Code: CHEM Case No.: O1233 SAS No.: O1233 SDG NO.: O1233
EPA Sample No.: SSTDICCC040 Date Analyzed: 01/31/2023
Lab File ID: BP013673.D Time Analyzed: 13:38
Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	222064	8.14	832306	10.97	549003	14.78
UPPER LIMIT	444128	8.64	1664610	11.469	1098010	15.281
LOWER LIMIT	111032	7.64	416153	10.469	274502	14.281
EPA SAMPLE NO.						
01 PB150378BS	297815	8.14	1192600	10.97	801024	14.78

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O1233 SAS No.: O1233 SDG NO.: O1233

EPA Sample No.: SSTDICCC040 Date Analyzed: 01/31/2023

Lab File ID: BP013673.D Time Analyzed: 13:38

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	1258360	17.533	1280890	21.61	1494510	24.186
UPPER LIMIT	2516720	18.033	2561780	22.11	2989020	24.686
LOWER LIMIT	629180	17.033	640445	21.11	747255	23.686
EPA SAMPLE NO.						
01 PB150378BS	1851080	17.53	1639740	21.61	1453640	24.18

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

SAMPLE DATA



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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P34A	SDG No.:	O1233
Lab Sample ID:	O1233-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.3
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF132170.D	1	01/20/23 12:30	01/20/23 20:03	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	170	U	170	390	ug/Kg
108-95-2	Phenol	79.3	U	79.3	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	94.1	U	94.1	200	ug/Kg
95-57-8	2-Chlorophenol	80.0	U	80.0	200	ug/Kg
95-48-7	2-Methylphenol	130	U	130	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	110	U	110	200	ug/Kg
98-86-2	Acetophenone	93.9	U	93.9	200	ug/Kg
65794-96-9	3+4-Methylphenols	110	U	110	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	89.2	U	89.2	93.8	ug/Kg
67-72-1	Hexachloroethane	86.4	U	86.4	200	ug/Kg
98-95-3	Nitrobenzene	86.6	U	86.6	200	ug/Kg
78-59-1	Isophorone	78.1	U	78.1	200	ug/Kg
88-75-5	2-Nitrophenol	110	U	110	200	ug/Kg
105-67-9	2,4-Dimethylphenol	120	U	120	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	130	U	130	200	ug/Kg
120-83-2	2,4-Dichlorophenol	95.7	U	95.7	200	ug/Kg
91-20-3	Naphthalene	86.6	U	86.6	200	ug/Kg
106-47-8	4-Chloroaniline	110	U	110	200	ug/Kg
87-68-3	Hexachlorobutadiene	120	U	120	200	ug/Kg
105-60-2	Caprolactam	120	U	120	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	92.2	U	92.2	200	ug/Kg
91-57-6	2-Methylnaphthalene	87.9	U	87.9	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	200	U	200	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	100	U	100	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	98.0	U	98.0	200	ug/Kg
92-52-4	1,1-Biphenyl	100	U	100	200	ug/Kg
91-58-7	2-Chloronaphthalene	100	U	100	200	ug/Kg
88-74-4	2-Nitroaniline	130	U	130	200	ug/Kg
131-11-3	Dimethylphthalate	94.8	U	94.8	200	ug/Kg
208-96-8	Acenaphthylene	80.5	U	80.5	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	91.5	U	91.5	200	ug/Kg



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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P34A	SDG No.:	O1233
Lab Sample ID:	O1233-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.3
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF132170.D	1	01/20/23 12:30	01/20/23 20:03	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	120	U	120	200	ug/Kg
83-32-9	Acenaphthene	92.5	U	92.5	200	ug/Kg
51-28-5	2,4-Dinitrophenol	150	U	150	390	ug/Kg
100-02-7	4-Nitrophenol	160	U	160	390	ug/Kg
132-64-9	Dibenzofuran	87.0	U	87.0	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	99.1	U	99.1	200	ug/Kg
84-66-2	Diethylphthalate	94.3	U	94.3	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	110	U	110	200	ug/Kg
86-73-7	Fluorene	92.3	U	92.3	200	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	100	U	100	390	ug/Kg
86-30-6	n-Nitrosodiphenylamine	96.3	U	96.3	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	120	U	120	200	ug/Kg
118-74-1	Hexachlorobenzene	120	U	120	200	ug/Kg
1912-24-9	Atrazine	110	U	110	200	ug/Kg
87-86-5	Pentachlorophenol	140	U	140	390	ug/Kg
85-01-8	Phenanthrene	98.0	U	98.0	200	ug/Kg
120-12-7	Anthracene	98.4	U	98.4	200	ug/Kg
86-74-8	Carbazole	98.7	U	98.7	200	ug/Kg
84-74-2	Di-n-butylphthalate	100	U	100	200	ug/Kg
206-44-0	Fluoranthene	93.5	U	93.5	200	ug/Kg
129-00-0	Pyrene	87.0	U	87.0	200	ug/Kg
85-68-7	Butylbenzylphthalate	96.9	U	96.9	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	160	U	160	390	ug/Kg
56-55-3	Benzo(a)anthracene	100	U	100	200	ug/Kg
218-01-9	Chrysene	100	U	100	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	100	U	100	200	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	80.9	U	80.9	200	ug/Kg
207-08-9	Benzo(k)fluoranthene	86.3	U	86.3	200	ug/Kg
50-32-8	Benzo(a)pyrene	79.3	U	79.3	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	120	U	120	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	120	U	120	200	ug/Kg



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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P34A	SDG No.:	O1233
Lab Sample ID:	O1233-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.3
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF132170.D	1	01/20/23 12:30	01/20/23 20:03	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	110	U	110	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	110	U	110	200	ug/Kg
123-91-1	1,4-Dioxane	100	U	100	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	95.2	U	95.2	200	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	140		18 - 112	93%	SPK: 150
13127-88-3	Phenol-d6	149		21 - 104	99%	SPK: 150
4165-60-0	Nitrobenzene-d5	102		27 - 109	102%	SPK: 100
321-60-8	2-Fluorobiphenyl	81.2		30 - 103	81%	SPK: 100
118-79-6	2,4,6-Tribromophenol	163		10 - 121	109%	SPK: 150
1718-51-0	Terphenyl-d14	79.7		21 - 107	80%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	166000	7.09
1146-65-2	Naphthalene-d8	608000	8.378
15067-26-2	Acenaphthene-d10	329000	10.142
1517-22-2	Phenanthrene-d10	655000	11.636
1719-03-5	Chrysene-d12	483000	14.301
1520-96-3	Perylene-d12	385000	15.895

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	1800	AB	5.34	ug/Kg
000119-61-9	Benzophenone	790	J	10.9	ug/Kg
000947-19-3	Methanone, (1-hydroxycyclohexyl)ph	100	J	11.2	ug/Kg
000057-10-3	n-Hexadecanoic acid	220	J	12.1	ug/Kg
000400-57-7	Heptafluorobutyric acid, n-octadec	300	J	14.1	ug/Kg

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
 Data File : BF132170.D
 Acq On : 20 Jan 2023 20:03
 Operator : CG\JU
 Sample : 01233-02
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-P34A

Quant Time: Jan 21 03:56:22 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 00:50:42 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.090	152	165824	20.000	ng	0.00
21) Naphthalene-d8	8.378	136	608025	20.000	ng	0.00
39) Acenaphthene-d10	10.142	164	328729	20.000	ng	0.00
64) Phenanthrene-d10	11.636	188	655100	20.000	ng	0.00
76) Chrysene-d12	14.301	240	482863	20.000	ng	0.00
86) Perylene-d12	15.895	264	384782	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.719	112	1326882	139.781	ng	0.01
7) Phenol-d6	6.701	99	1776920	148.704	ng	0.00
23) Nitrobenzene-d5	7.654	82	1162760	101.590	ng	0.00
42) 2,4,6-Tribromophenol	10.936	330	573955	163.458	ng	0.00
45) 2-Fluorobiphenyl	9.454	172	1826404	81.185	ng	0.00
79) Terphenyl-d14	13.236	244	2298218	79.728	ng	0.00

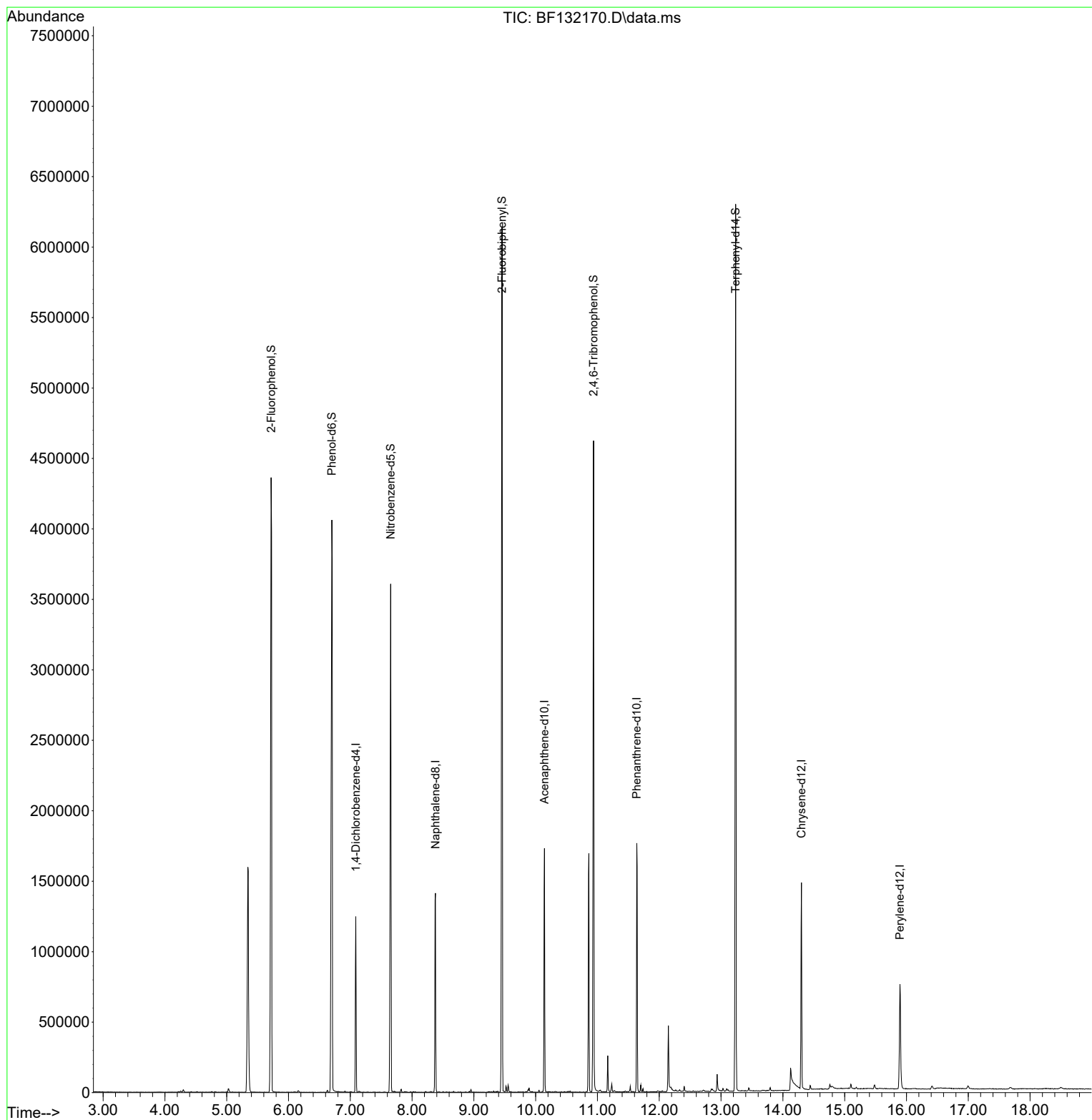
Target Compounds	Qvalue

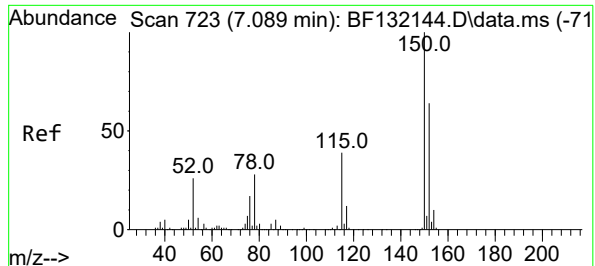
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132170.D
Acq On : 20 Jan 2023 20:03
Operator : CG\JU
Sample : 01233-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P34A

Quant Time: Jan 21 03:56:22 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 20 00:50:42 2023
Response via : Initial Calibration

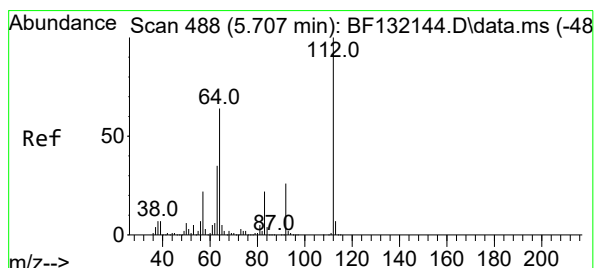
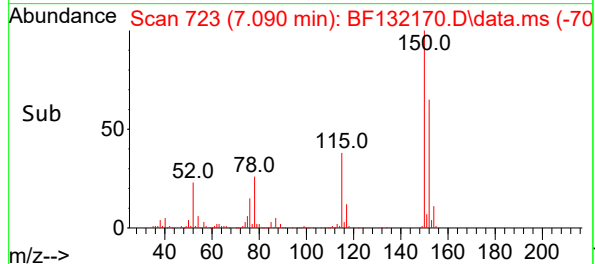
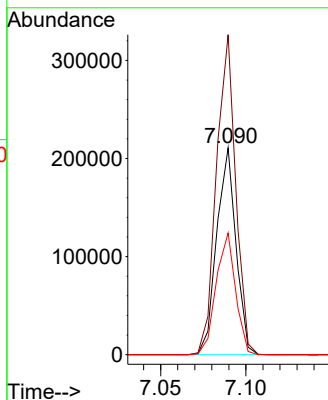
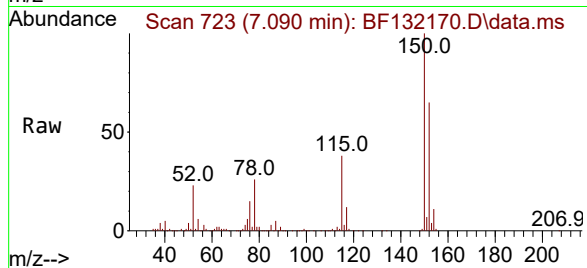




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.090 min Scan# 71
Delta R.T. 0.001 min
Lab File: BF132170.D
Acq: 20 Jan 2023 20:03

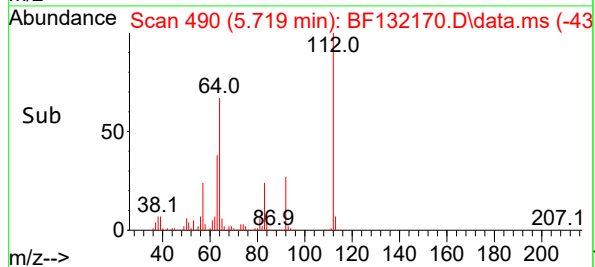
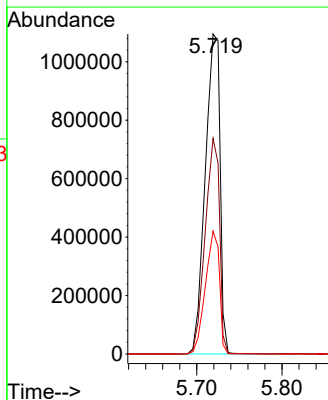
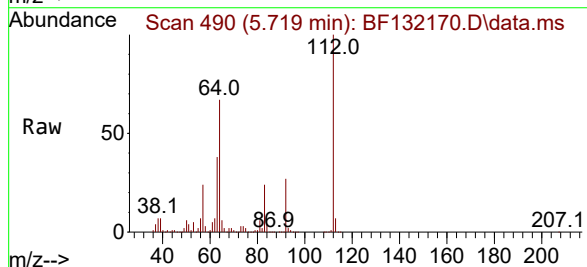
Instrument :
BNA_F
ClientSampleId :
B-P34A

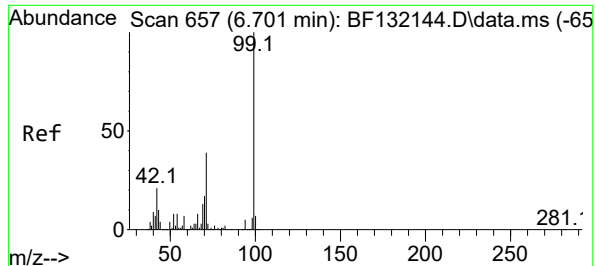
Tgt Ion:152 Resp: 165824
Ion Ratio Lower Upper
152 100
150 154.7 125.8 188.8
115 58.9 49.2 73.8



#5
2-Fluorophenol
Concen: 139.781 ng
RT: 5.719 min Scan# 490
Delta R.T. 0.012 min
Lab File: BF132170.D
Acq: 20 Jan 2023 20:03

Tgt Ion:112 Resp: 1326882
Ion Ratio Lower Upper
112 100
64 67.3 51.4 77.0
63 38.4 28.2 42.2

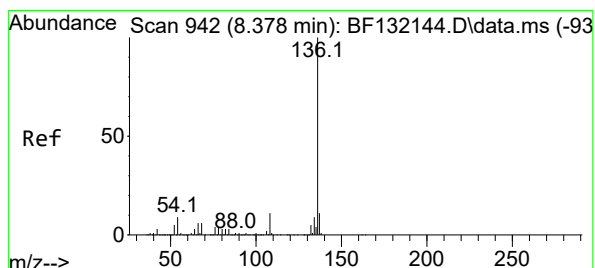
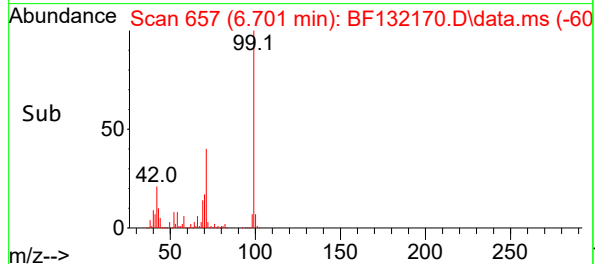
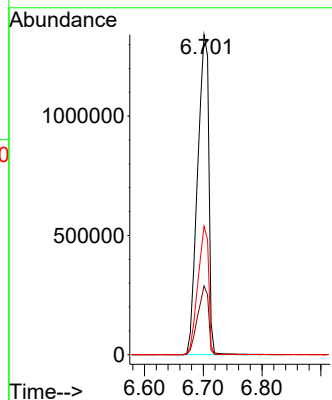
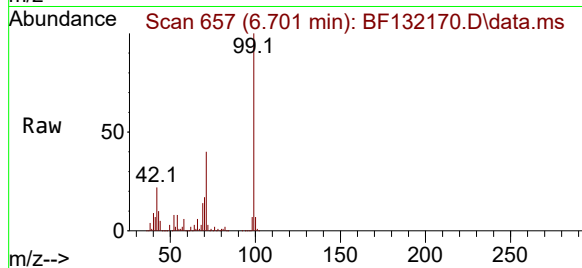




#7
Phenol-d6
Concen: 148.704 ng
RT: 6.701 min Scan# 657
Delta R.T. 0.000 min
Lab File: BF132170.D
Acq: 20 Jan 2023 20:03

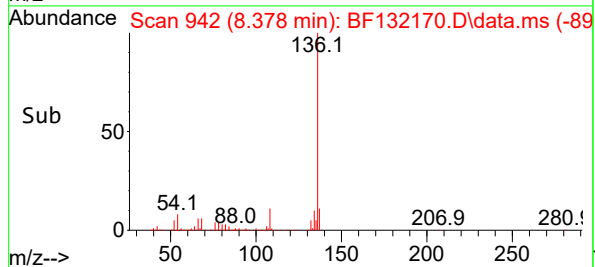
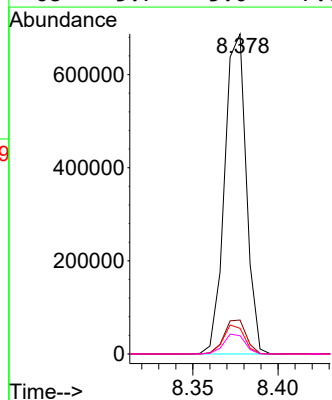
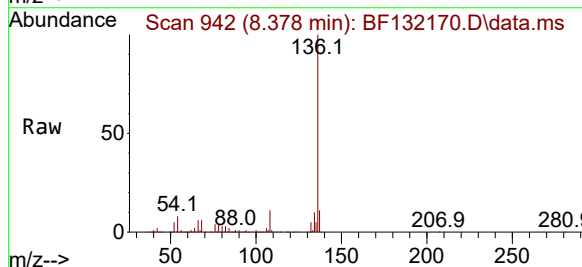
Instrument :
BNA_F
ClientSampleId :
B-P34A

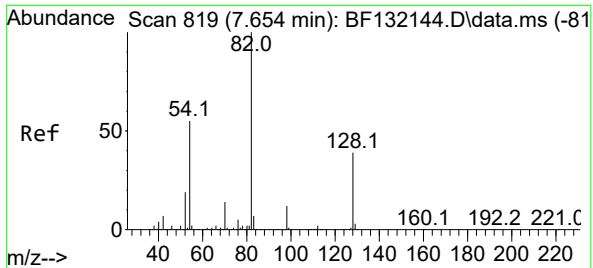
Tgt Ion: 99 Resp: 1776920
Ion Ratio Lower Upper
99 100
42 21.5 16.6 24.8
71 40.1 30.8 46.2



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.378 min Scan# 942
Delta R.T. -0.000 min
Lab File: BF132170.D
Acq: 20 Jan 2023 20:03

Tgt Ion:136 Resp: 608025
Ion Ratio Lower Upper
136 100
137 10.6 8.9 13.3
54 8.0 7.0 10.6
68 5.7 5.0 7.6





#23

Nitrobenzene-d5

Concen: 101.590 ng

RT: 7.654 min Scan# 819

Delta R.T. 0.000 min

Lab File: BF132170.D

Acq: 20 Jan 2023 20:03

Instrument :

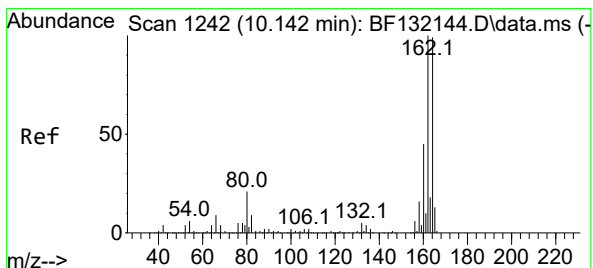
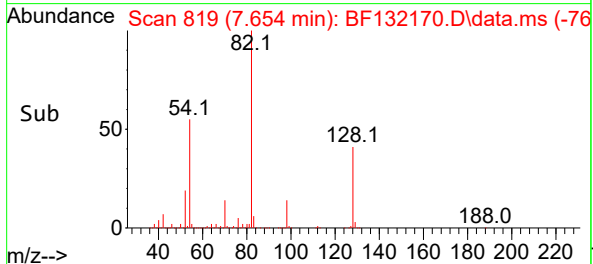
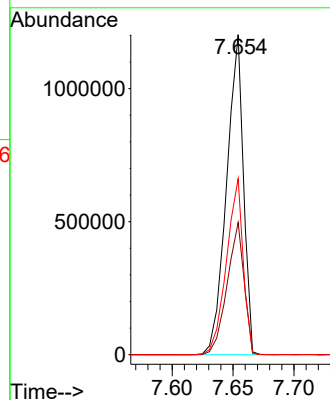
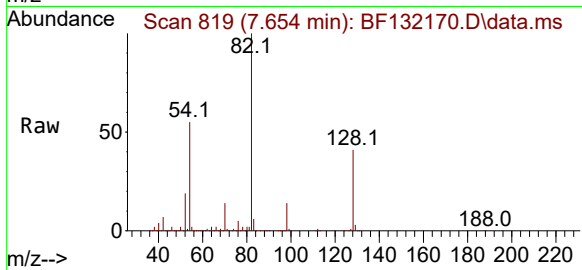
BNA_F

ClientSampleId :

B-P34A

Tgt Ion: 82 Resp: 1162760

Ion	Ratio	Lower	Upper
82	100		
128	41.3	31.1	46.7
54	55.0	43.9	65.9



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.142 min Scan# 1242

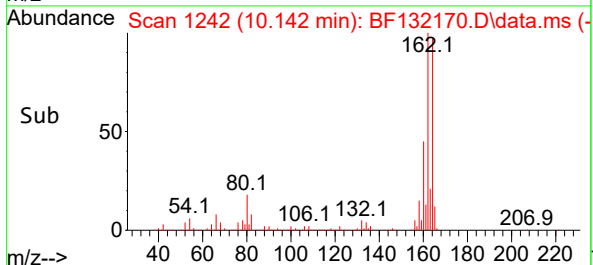
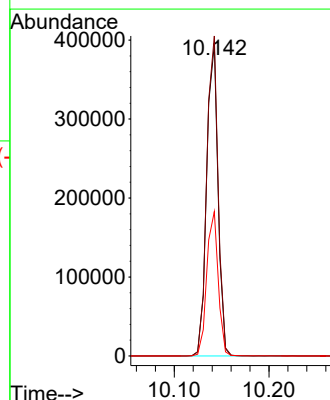
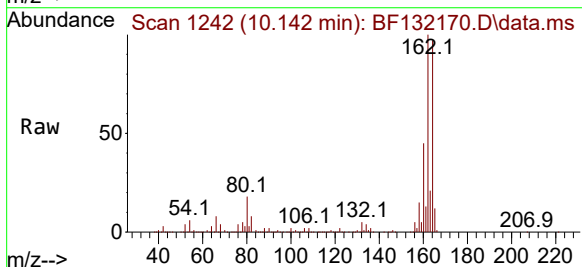
Delta R.T. 0.000 min

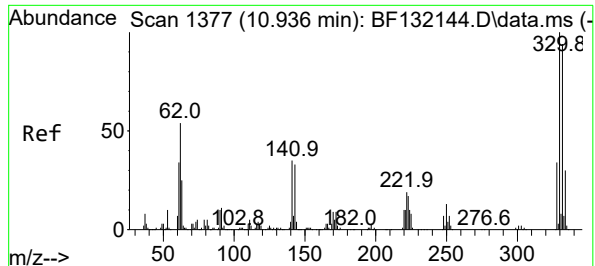
Lab File: BF132170.D

Acq: 20 Jan 2023 20:03

Tgt Ion: 164 Resp: 328729

Ion	Ratio	Lower	Upper
164	100		
162	102.7	81.2	121.8
160	46.3	36.9	55.3





#42

2,4,6-Tribromophenol

Concen: 163.458 ng

RT: 10.936 min Scan# 1125

Delta R.T. 0.000 min

Lab File: BF132170.D

Acq: 20 Jan 2023 20:03

Instrument :

BNA_F

ClientSampleId :

B-P34A

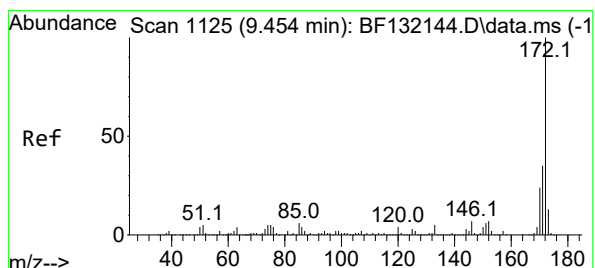
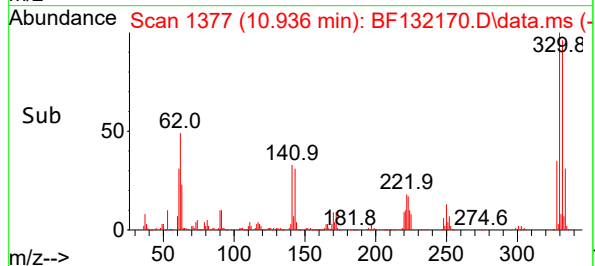
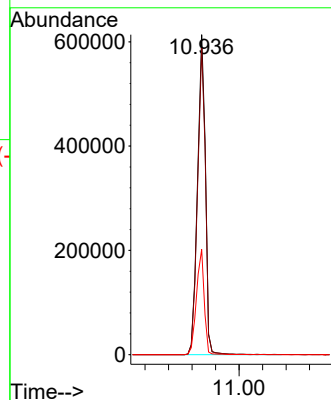
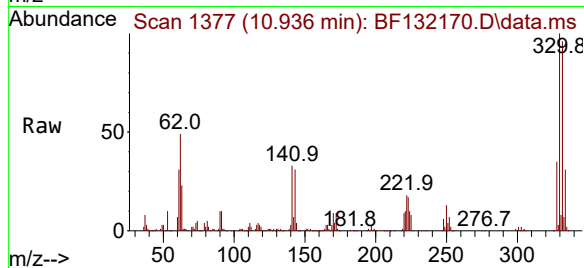
Tgt Ion:330 Resp: 573955

Ion Ratio Lower Upper

330 100

332 96.1 75.6 113.4

141 32.5 27.1 40.7



#45

2-Fluorobiphenyl

Concen: 81.185 ng

RT: 9.454 min Scan# 1125

Delta R.T. 0.000 min

Lab File: BF132170.D

Acq: 20 Jan 2023 20:03

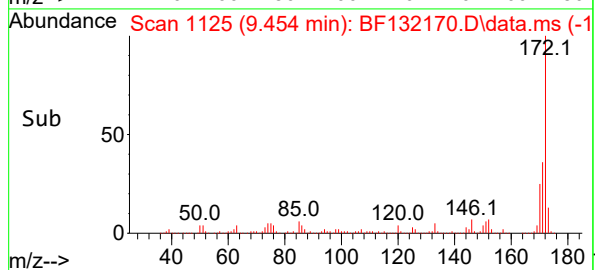
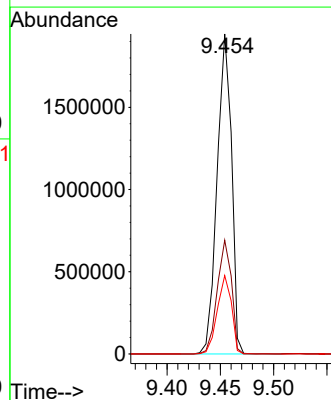
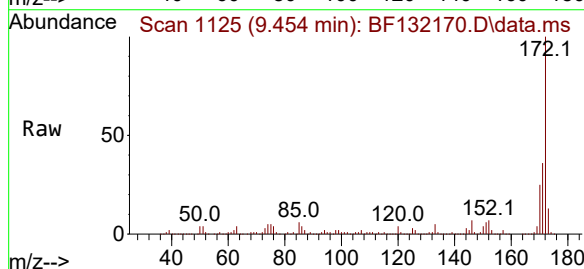
Tgt Ion:172 Resp: 1826404

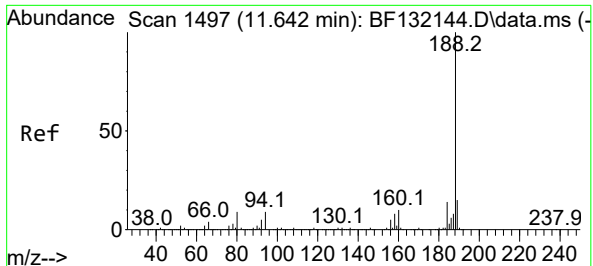
Ion Ratio Lower Upper

172 100

171 35.5 28.2 42.2

170 24.5 19.6 29.4

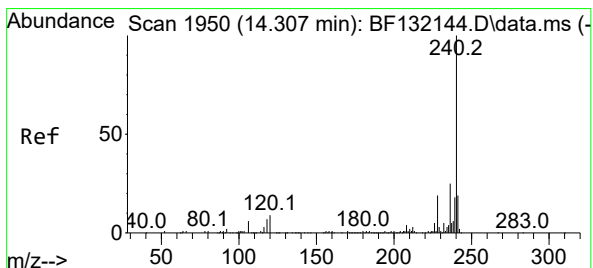
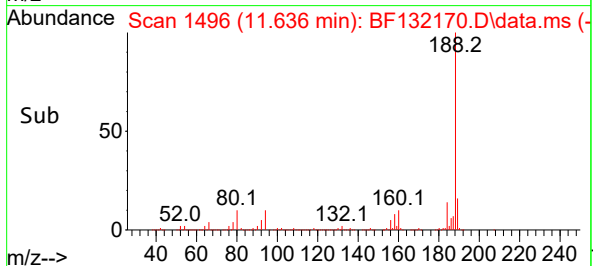
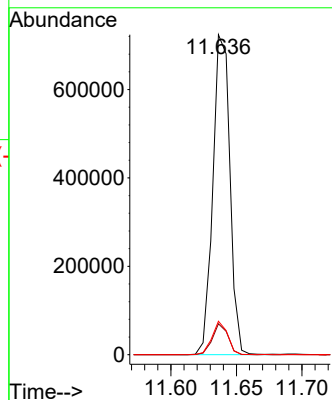
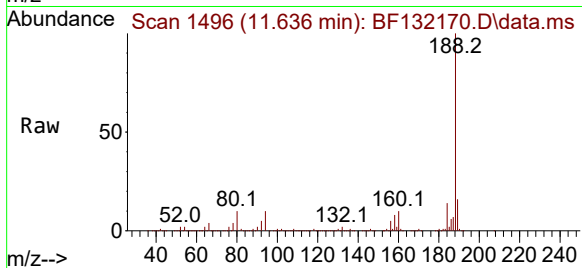




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.636 min Scan# 1496
Delta R.T. -0.006 min
Lab File: BF132170.D
Acq: 20 Jan 2023 20:03

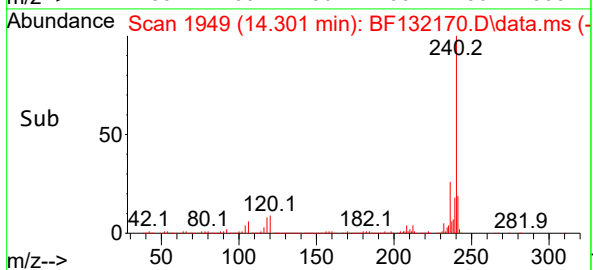
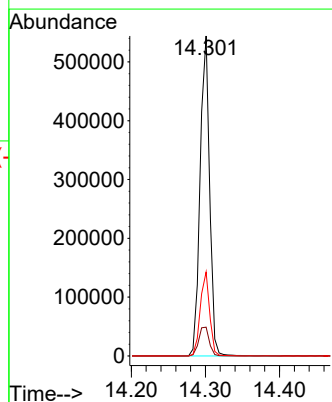
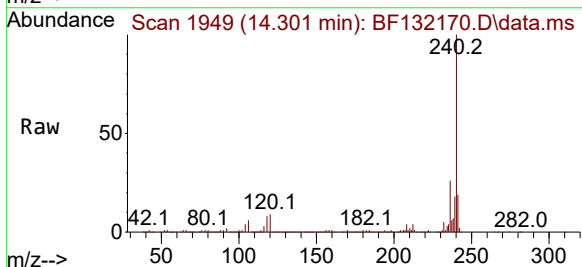
Instrument :
BNA_F
ClientSampleId :
B-P34A

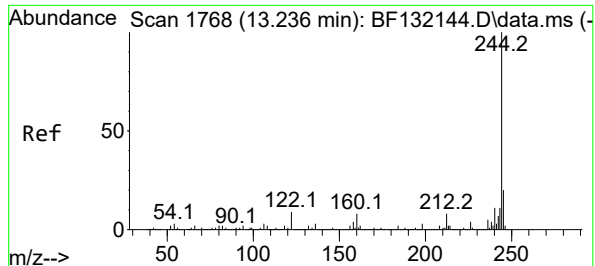
Tgt Ion:188 Resp: 655100
Ion Ratio Lower Upper
188 100
94 9.7 6.9 10.3
80 10.4 7.5 11.3



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.301 min Scan# 1949
Delta R.T. -0.006 min
Lab File: BF132170.D
Acq: 20 Jan 2023 20:03

Tgt Ion:240 Resp: 482863
Ion Ratio Lower Upper
240 100
120 9.0 6.9 10.3
236 26.2 20.3 30.5





#79

Terphenyl-d14

Concen: 79.728 ng

RT: 13.236 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF132170.D

Acq: 20 Jan 2023 20:03

Instrument :

BNA_F

ClientSampleId :

B-P34A

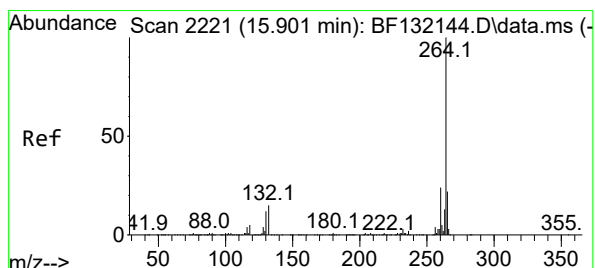
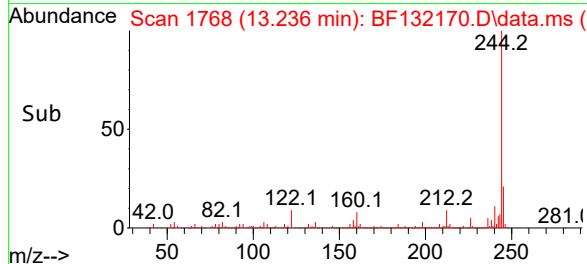
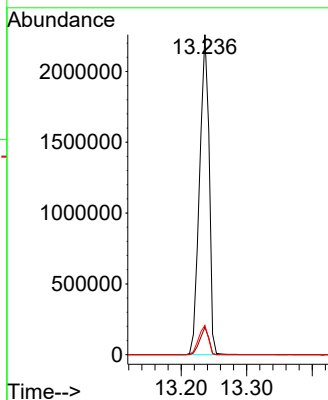
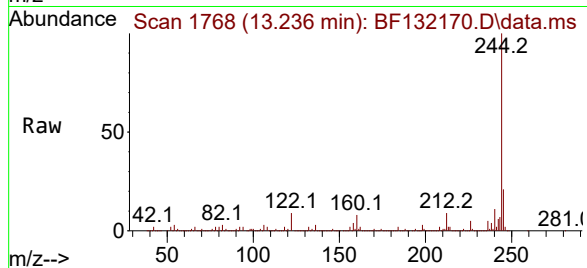
Tgt Ion:244 Resp: 2298218

Ion Ratio Lower Upper

244 100

212 8.6 6.7 10.1

122 9.1 7.4 11.2



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.895 min Scan# 2220

Delta R.T. -0.006 min

Lab File: BF132170.D

Acq: 20 Jan 2023 20:03

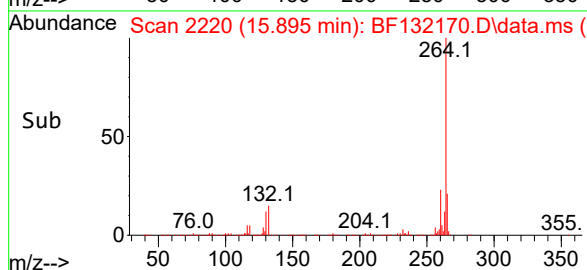
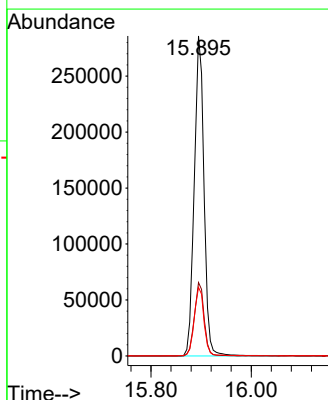
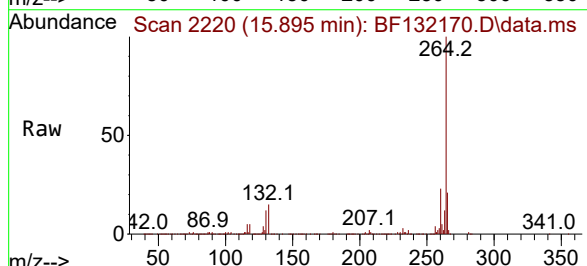
Tgt Ion:264 Resp: 384782

Ion Ratio Lower Upper

264 100

260 23.0 19.1 28.7

265 21.5 17.4 26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
 Data File : BF132170.D
 Acq On : 20 Jan 2023 20:03
 Operator : CG\JU
 Sample : 01233-02
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-P34A

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF132170.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.343	420	426	438	rVB	1595638	2340160	37.75%	5.482%
2	5.719	484	490	493	rBV	4359832	5094324	82.17%	11.934%
3	6.701	651	657	660	rBV	4059404	5288414	85.30%	12.389%
4	7.090	719	723	726	rBV	1245877	992766	16.01%	2.326%
5	7.654	813	819	822	rBV	3606612	3467630	55.93%	8.123%
6	8.378	938	942	945	rBV	1410037	1268443	20.46%	2.971%
7	9.454	1119	1125	1128	rBV	6135162	5566542	89.79%	13.040%
8	10.142	1238	1242	1245	rBV	1726414	1459040	23.53%	3.418%
9	10.860	1360	1364	1367	rBV	1687039	1478355	23.85%	3.463%
10	10.936	1372	1377	1380	rBV	4620949	4354265	70.23%	10.200%
11	11.166	1412	1416	1422	rBV	256198	201384	3.25%	0.472%
12	11.636	1493	1496	1500	rBV	1762152	1570274	25.33%	3.679%
13	12.148	1575	1583	1588	rBV	469968	436622	7.04%	1.023%
14	12.936	1713	1717	1723	rBV	121218	118092	1.90%	0.277%
15	13.236	1763	1768	1771	rBV	6294525	6199653	100.00%	14.523%
16	14.124	1916	1919	1945	rBV3	158024	501868	8.10%	1.176%
17	14.301	1945	1949	1953	rBV	1462189	1308482	21.11%	3.065%
18	15.895	2214	2220	2232	rBV2	742312	1041172	16.79%	2.439%

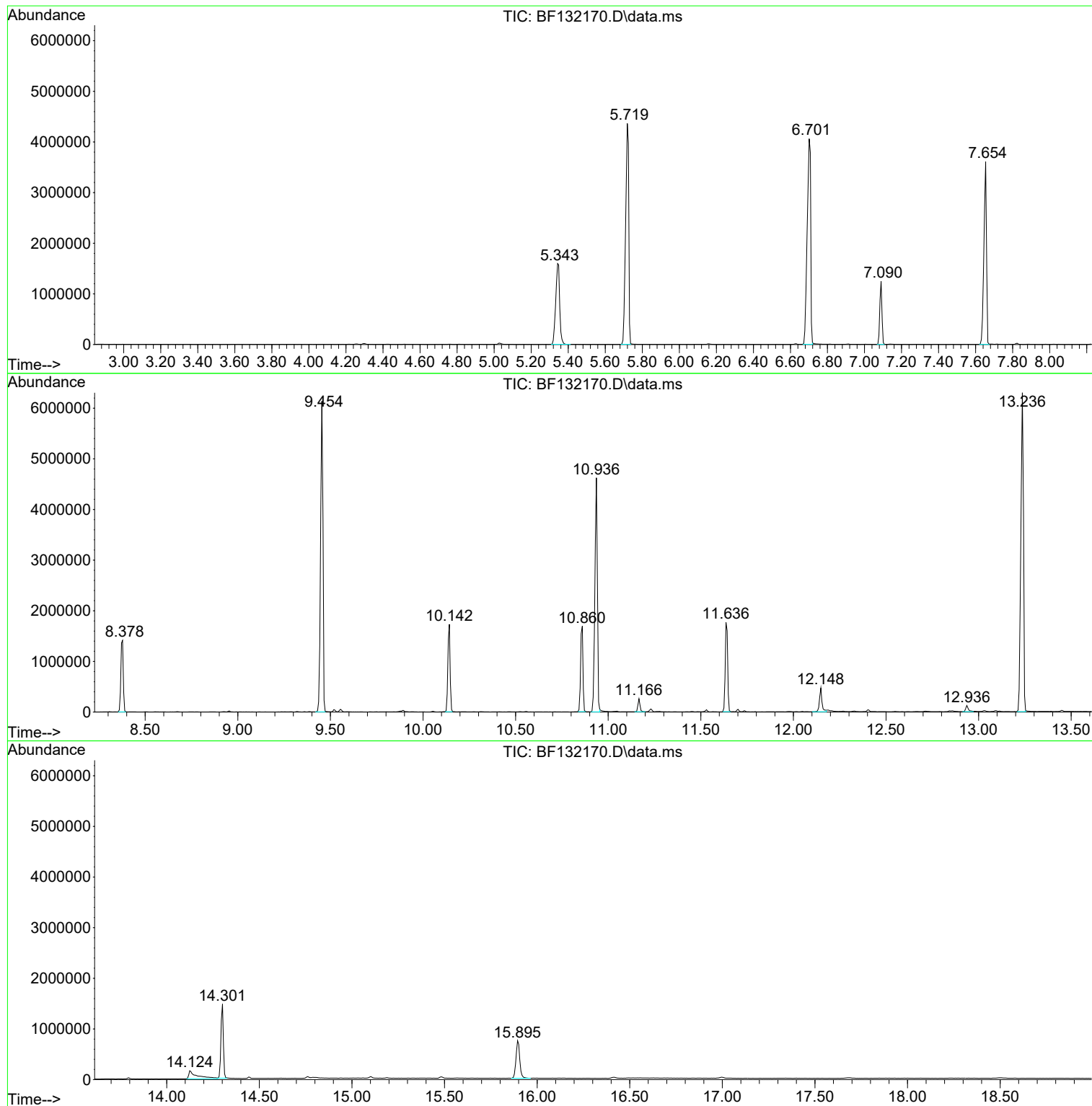
Sum of corrected areas: 42687486

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132170.D
Acq On : 20 Jan 2023 20:03
Operator : CG\JU
Sample : 01233-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P34A

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132170.D
Acq On : 20 Jan 2023 20:03
Operator : CG\JU
Sample : 01233-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P34A

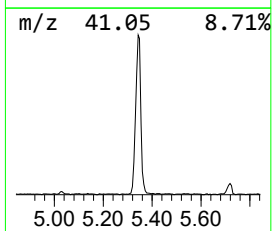
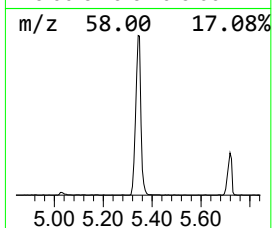
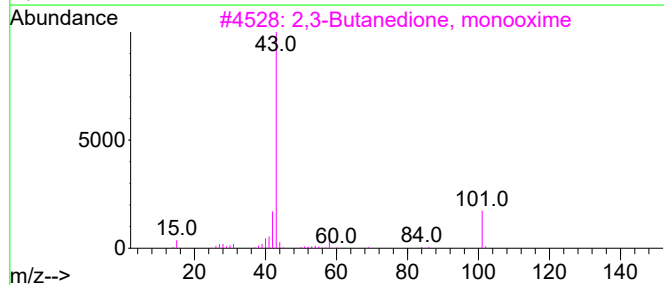
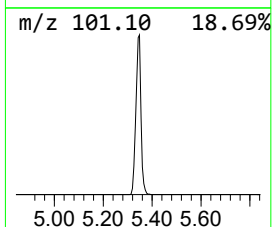
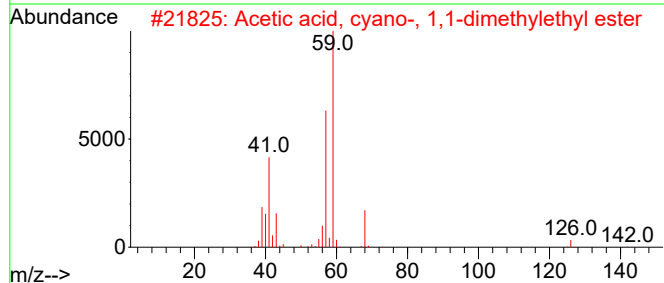
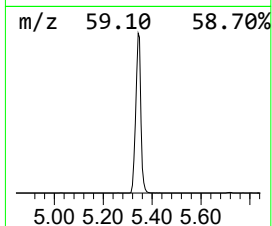
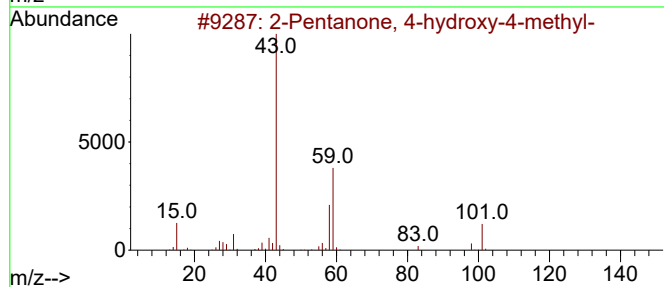
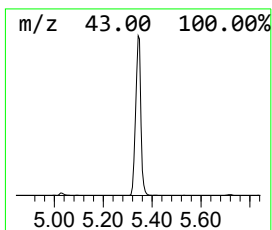
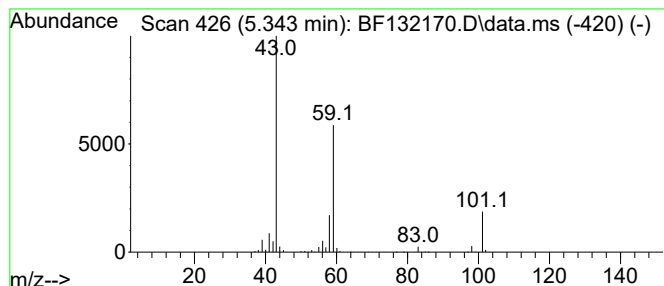
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.343	47.14 ng	2340160	1,4-Dichlorobenzene-d4	7.090

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59		
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25		
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16		
4	Acetone	58	C3H6O	000067-64-1	12		
5	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12		



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132170.D
Acq On : 20 Jan 2023 20:03
Operator : CG\JU
Sample : 01233-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P34A

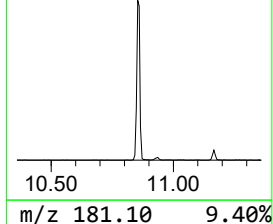
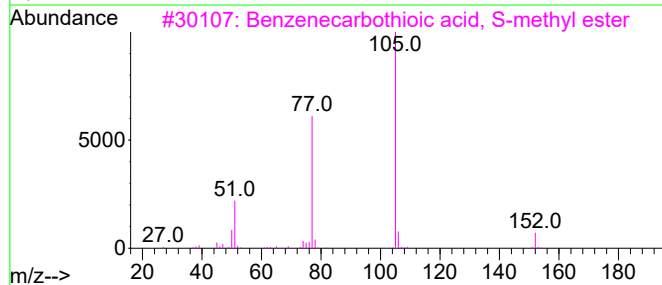
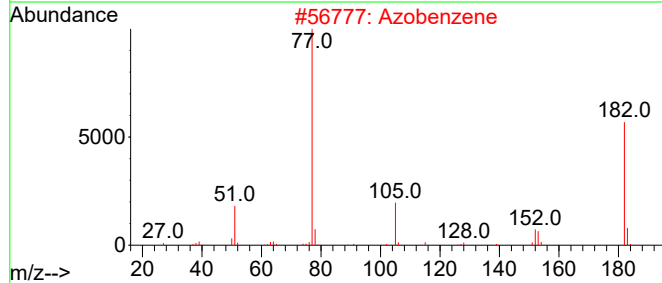
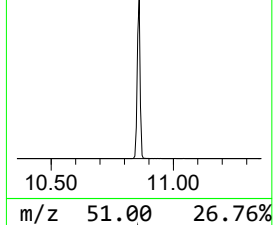
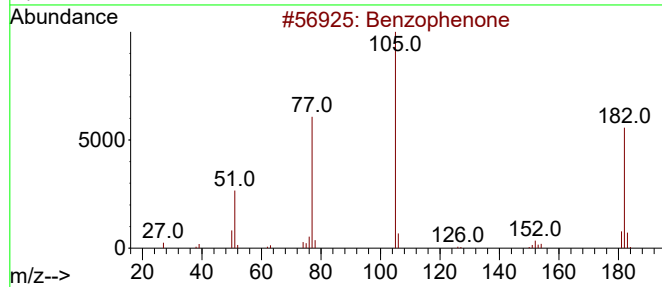
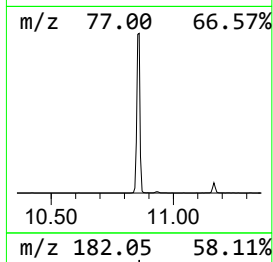
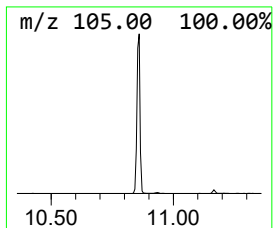
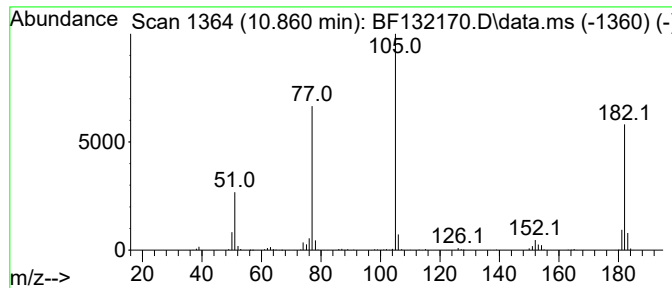
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.860	20.26 ng	1478360	Acenaphthene-d10	10.142

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	96
2			Azobenzene	182	C12H10N2	000103-33-3	64
3			Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	49
4			Ethanone, 2-bromo-1-phenyl-	198	C8H7BrO	000070-11-1	47
5			N-Methylbenzamide, N-trifluoroac...	231	C10H8F3NO2	1000446-91-5	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132170.D
Acq On : 20 Jan 2023 20:03
Operator : CG\JU
Sample : 01233-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

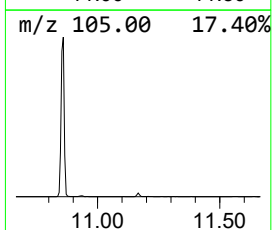
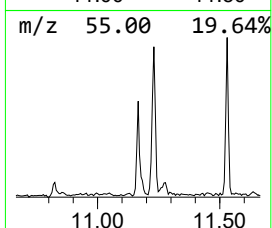
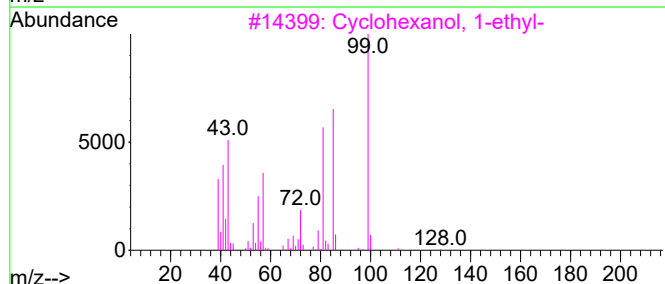
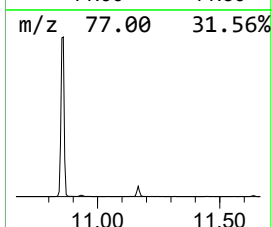
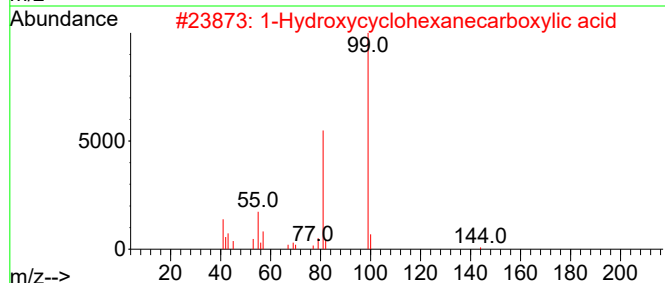
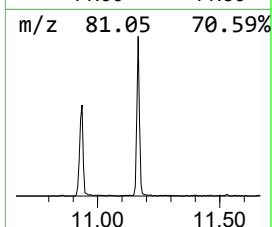
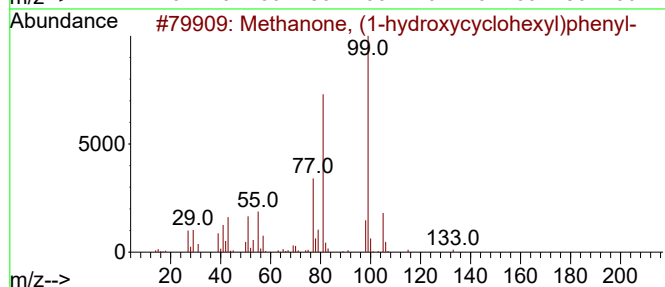
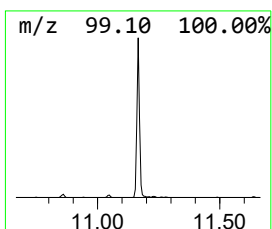
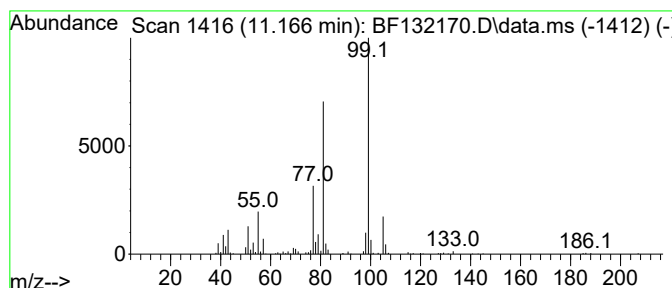
Instrument :
BNA_F
ClientSampleId :
B-P34A

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 Methanone, (1-hydroxycyclohexyl) Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD		R.T.	
11.166	2.56 ng	201384	Phenanthrene-d10		11.636	
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	Methanone, (1-hydroxycyclohexyl)...		204	C13H16O2	000947-19-3	91
2	1-Hydroxycyclohexanecarboxylic acid		144	C7H12O3	001123-28-0	50
3	Cyclohexanol, 1-ethyl-		128	C8H16O	001940-18-7	50
4	1,1'-Bicyclohexyl-1,1'-diol		198	C12H22O2	002888-11-1	38
5	Hexanoic acid, thio-, S-butyl ester		188	C10H20O5	002432-79-3	38



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132170.D
Acq On : 20 Jan 2023 20:03
Operator : CG\JU
Sample : 01233-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

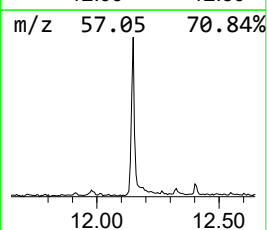
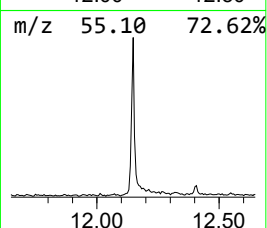
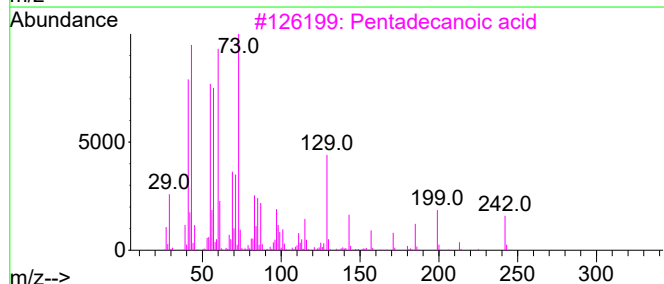
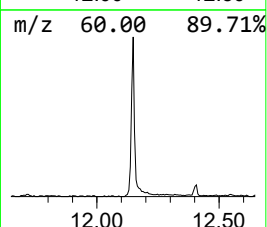
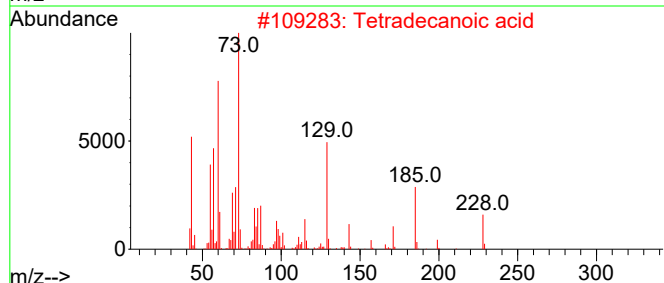
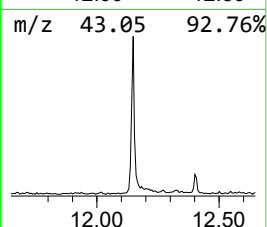
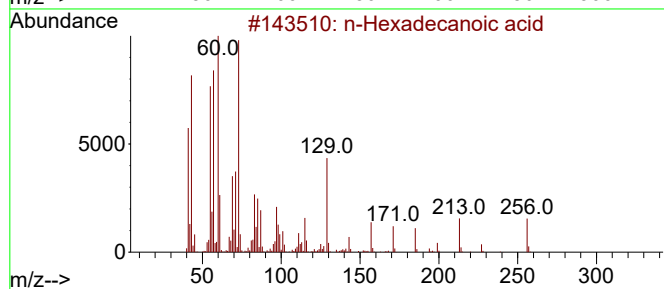
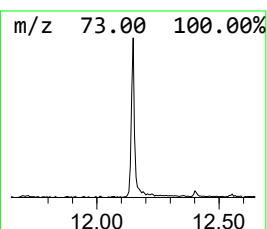
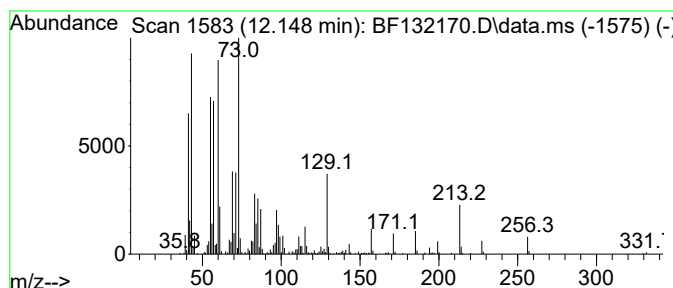
Instrument :
BNA_F
ClientSampleId :
B-P34A

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.	
12.148	5.56 ng	436622	Phenanthrene-d10	11.636	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tetradecanoic acid	228	C14H28O2	000544-63-8	91
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
4	Octadecanoic acid	284	C18H36O2	000057-11-4	87
5	Tridecanoic acid	214	C13H26O2	000638-53-9	74



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132170.D
Acq On : 20 Jan 2023 20:03
Operator : CG\JU
Sample : 01233-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

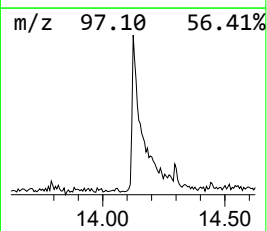
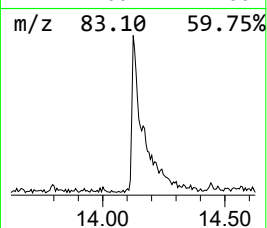
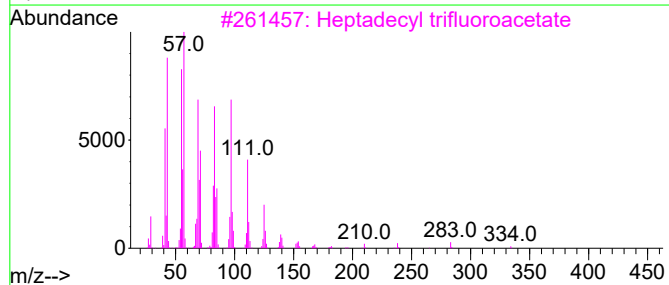
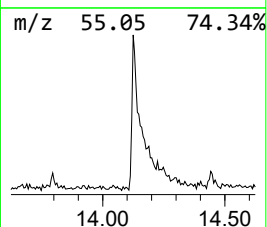
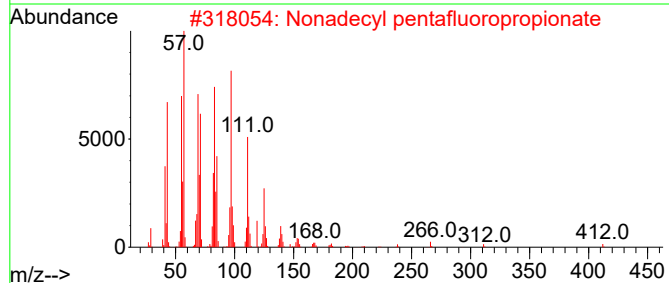
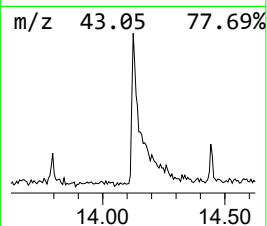
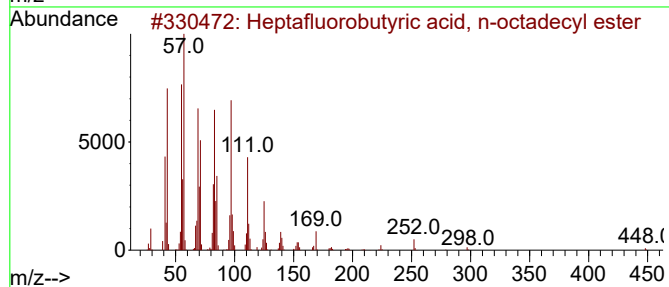
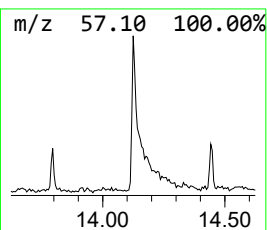
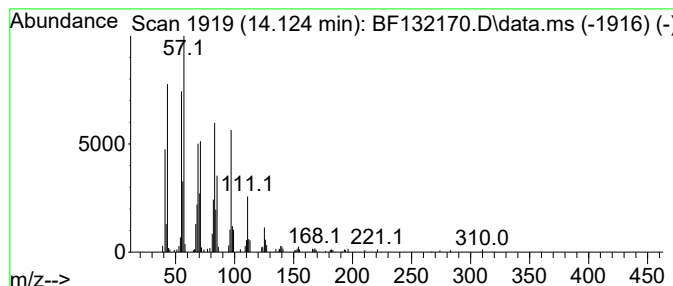
Instrument :
BNA_F
ClientSampleId :
B-P34A

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 Heptafluorobutyric acid, n-... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.	
14.124	7.67 ng	501868	Chrysene-d12	14.301	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptafluorobutyric acid, n-octad...	466	C22H37F7O2	000400-57-7	91
2	Nonadecyl pentafluoropropionate	430	C22H39F5O2	1000351-88-8	91
3	Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	91
4	Hexacosyl propyl ether	424	C29H60O	1000406-28-4	91
5	Butyl docosyl ether	382	C26H54O	1000406-40-8	91



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132170.D
Acq On : 20 Jan 2023 20:03
Operator : CG\JU
Sample : 01233-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P34A

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
2-Pentanone, 4-...	5.343	47.1	ng	2340160	1	7.090	992766	20.0
Benzophenone	10.860	20.3	ng	1478360	3	10.142	1459040	20.0
Methanone, (1-h...	11.166	2.6	ng	201384	4	11.636	1570270	20.0
n-Hexadecanoic ...	12.148	5.6	ng	436622	4	11.636	1570270	20.0
Heptafluorobuty...	14.124	7.7	ng	501868	5	14.301	1308480	20.0



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P34B	SDG No.:	O1233
Lab Sample ID:	O1233-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.7
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF132178.D	1	01/20/23 12:30	01/21/23 00:23	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	150	U	150	360	ug/Kg
108-95-2	Phenol	74.4	U	74.4	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	88.3	U	88.3	190	ug/Kg
95-57-8	2-Chlorophenol	75.1	U	75.1	190	ug/Kg
95-48-7	2-Methylphenol	120	U	120	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	110	U	110	190	ug/Kg
98-86-2	Acetophenone	88.0	U	88.0	190	ug/Kg
65794-96-9	3+4-Methylphenols	110	U	110	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	83.7	U	83.7	87.9	ug/Kg
67-72-1	Hexachloroethane	81.0	U	81.0	190	ug/Kg
98-95-3	Nitrobenzene	81.2	U	81.2	190	ug/Kg
78-59-1	Isophorone	73.2	U	73.2	190	ug/Kg
88-75-5	2-Nitrophenol	100	U	100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	110	U	110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	120	U	120	190	ug/Kg
120-83-2	2,4-Dichlorophenol	89.8	U	89.8	190	ug/Kg
91-20-3	Naphthalene	81.2	U	81.2	190	ug/Kg
106-47-8	4-Chloroaniline	110	U	110	190	ug/Kg
87-68-3	Hexachlorobutadiene	110	U	110	190	ug/Kg
105-60-2	Caprolactam	110	U	110	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	86.5	U	86.5	190	ug/Kg
91-57-6	2-Methylnaphthalene	82.4	U	82.4	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	190	U	190	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	93.9	U	93.9	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	91.9	U	91.9	190	ug/Kg
92-52-4	1,1-Biphenyl	95.1	U	95.1	190	ug/Kg
91-58-7	2-Chloronaphthalene	94.0	U	94.0	190	ug/Kg
88-74-4	2-Nitroaniline	120	U	120	190	ug/Kg
131-11-3	Dimethylphthalate	88.9	U	88.9	190	ug/Kg
208-96-8	Acenaphthylene	75.5	U	75.5	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	85.9	U	85.9	190	ug/Kg



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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P34B	SDG No.:	O1233
Lab Sample ID:	O1233-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.7
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF132178.D	1	01/20/23 12:30	01/21/23 00:23	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	110	U	110	190	ug/Kg
83-32-9	Acenaphthene	86.7	U	86.7	190	ug/Kg
51-28-5	2,4-Dinitrophenol	140	U	140	360	ug/Kg
100-02-7	4-Nitrophenol	150	U	150	360	ug/Kg
132-64-9	Dibenzofuran	81.6	U	81.6	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	93.0	U	93.0	190	ug/Kg
84-66-2	Diethylphthalate	88.5	U	88.5	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	100	U	100	190	ug/Kg
86-73-7	Fluorene	86.6	U	86.6	190	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	94.8	U	94.8	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	90.4	U	90.4	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	110	U	110	190	ug/Kg
118-74-1	Hexachlorobenzene	110	U	110	190	ug/Kg
1912-24-9	Atrazine	98.9	U	98.9	190	ug/Kg
87-86-5	Pentachlorophenol	130	U	130	360	ug/Kg
85-01-8	Phenanthrene	91.9	U	91.9	190	ug/Kg
120-12-7	Anthracene	92.3	U	92.3	190	ug/Kg
86-74-8	Carbazole	92.6	U	92.6	190	ug/Kg
84-74-2	Di-n-butylphthalate	95.6	U	95.6	190	ug/Kg
206-44-0	Fluoranthene	87.7	U	87.7	190	ug/Kg
129-00-0	Pyrene	81.6	U	81.6	190	ug/Kg
85-68-7	Butylbenzylphthalate	90.9	U	90.9	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	150	U	150	360	ug/Kg
56-55-3	Benzo(a)anthracene	95.4	U	95.4	190	ug/Kg
218-01-9	Chrysene	94.0	U	94.0	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	97.4	U	97.4	190	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	75.8	U	75.8	190	ug/Kg
207-08-9	Benzo(k)fluoranthene	80.9	U	80.9	190	ug/Kg
50-32-8	Benzo(a)pyrene	74.4	U	74.4	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	110	U	110	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	110	U	110	190	ug/Kg



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P34B	SDG No.:	O1233
Lab Sample ID:	O1233-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.7
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF132178.D	1	01/20/23 12:30	01/21/23 00:23	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	110	U	110	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	100	U	100	190	ug/Kg
123-91-1	1,4-Dioxane	97.9	U	97.9	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	89.3	U	89.3	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	101		18 - 112	67%	SPK: 150
13127-88-3	Phenol-d6	103		21 - 104	69%	SPK: 150
4165-60-0	Nitrobenzene-d5	72.2		27 - 109	72%	SPK: 100
321-60-8	2-Fluorobiphenyl	60.7		30 - 103	61%	SPK: 100
118-79-6	2,4,6-Tribromophenol	108		10 - 121	72%	SPK: 150
1718-51-0	Terphenyl-d14	64.8		21 - 107	65%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	186000		7.089		
1146-65-2	Naphthalene-d8	676000		8.378		
15067-26-2	Acenaphthene-d10	368000		10.142		
1517-22-2	Phenanthrene-d10	733000		11.636		
1719-03-5	Chrysene-d12	480000		14.301		
1520-96-3	Perylene-d12	398000		15.895		
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	1300	AB		5.34	ug/Kg
000119-61-9	Benzophenone	130	J		10.9	ug/Kg
000057-10-3	n-Hexadecanoic acid	170	J		12.1	ug/Kg
005333-42-6	1-Dodecanol, 2-octyl-	190	J		14.1	ug/Kg

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
 Data File : BF132178.D
 Acq On : 21 Jan 2023 00:23
 Operator : CG\JU
 Sample : 01233-03
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-P34B

Quant Time: Jan 21 03:58:55 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 00:50:42 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.089	152	185742	20.000	ng	0.00
21) Naphthalene-d8	8.378	136	675652	20.000	ng	0.00
39) Acenaphthene-d10	10.142	164	368118	20.000	ng	0.00
64) Phenanthrene-d10	11.636	188	732948	20.000	ng	0.00
76) Chrysene-d12	14.301	240	480445	20.000	ng	0.00
86) Perylene-d12	15.895	264	398304	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.713	112	1069702	100.604	ng	0.00
7) Phenol-d6	6.701	99	1382198	103.267	ng	0.00
23) Nitrobenzene-d5	7.654	82	918338	72.204	ng	0.00
42) 2,4,6-Tribromophenol	10.936	330	425240	108.147	ng	0.00
45) 2-Fluorobiphenyl	9.454	172	1528993	60.693	ng	0.00
79) Terphenyl-d14	13.236	244	1857599	64.767	ng	0.00

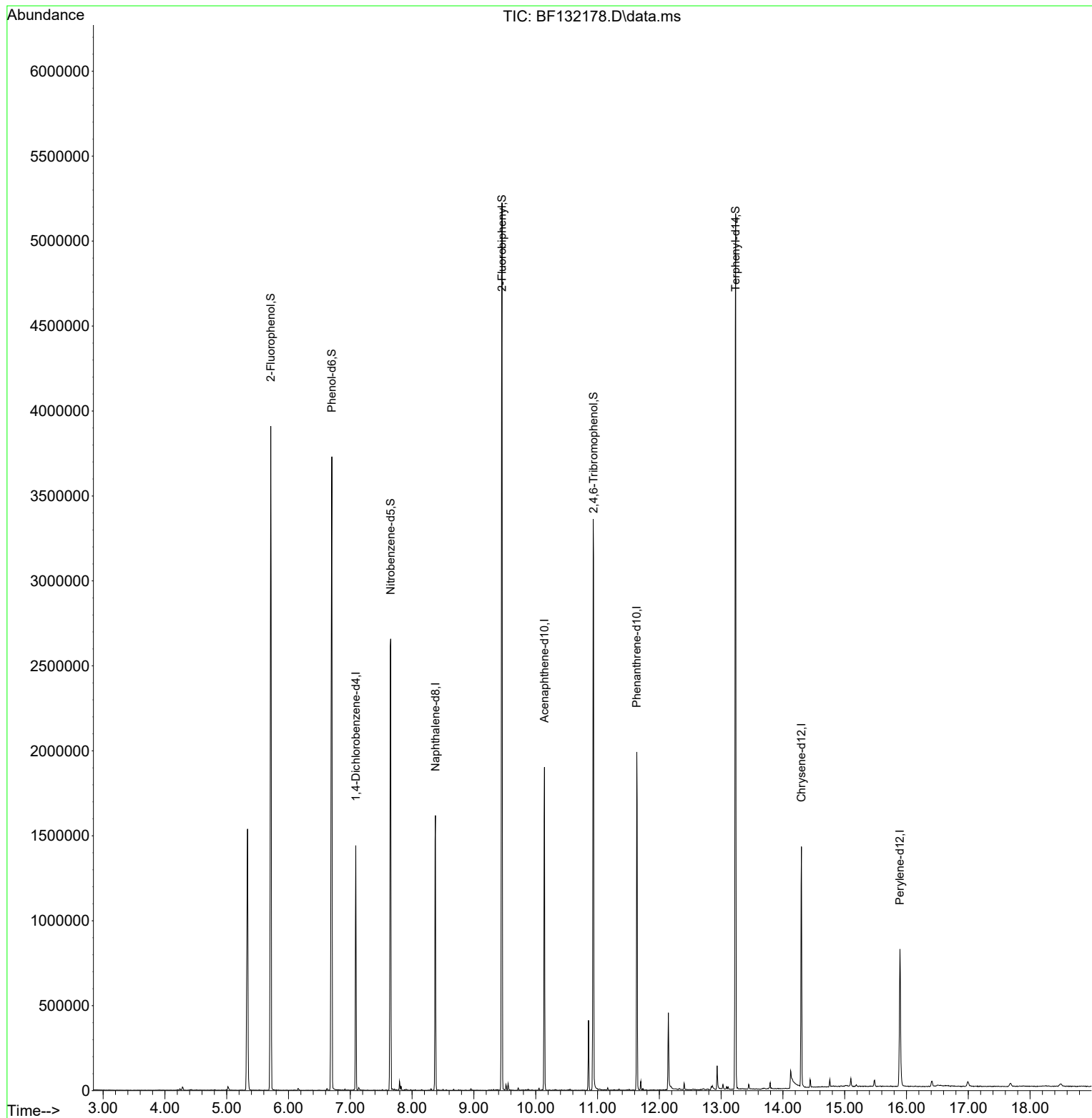
Target Compounds	Qvalue

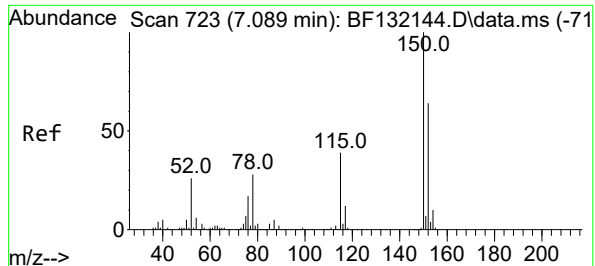
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132178.D
Acq On : 21 Jan 2023 00:23
Operator : CG\JU
Sample : 01233-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P34B

Quant Time: Jan 21 03:58:55 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 20 00:50:42 2023
Response via : Initial Calibration

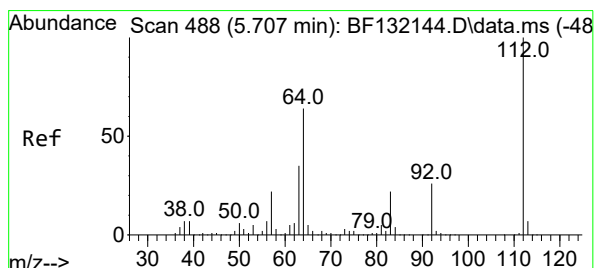
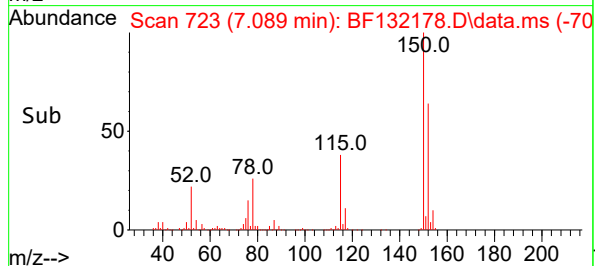
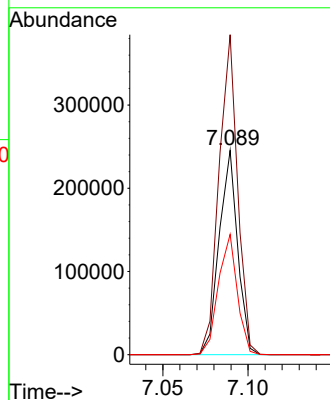
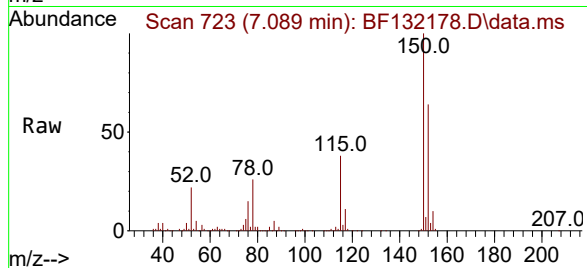




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.089 min Scan# 71
Delta R.T. 0.000 min
Lab File: BF132178.D
Acq: 21 Jan 2023 00:23

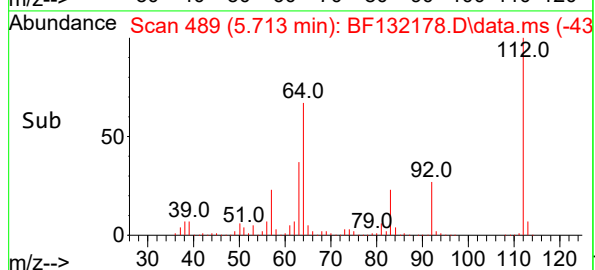
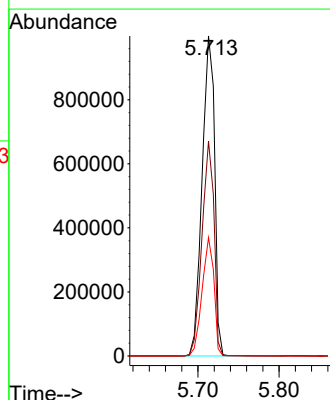
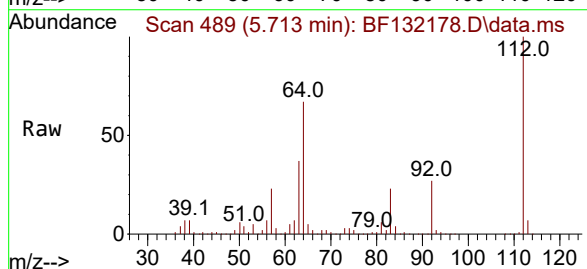
Instrument :
BNA_F
ClientSampleId :
B-P34B

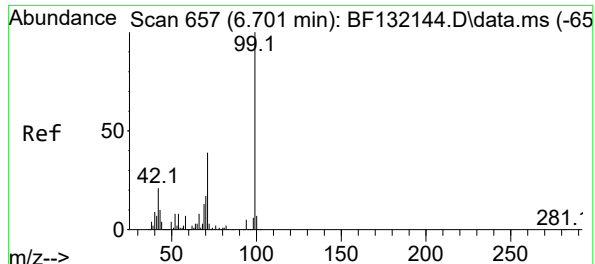
Tgt Ion:152 Resp: 185742
Ion Ratio Lower Upper
152 100
150 156.6 125.8 188.8
115 58.9 49.2 73.8



#5
2-Fluorophenol
Concen: 100.604 ng
RT: 5.713 min Scan# 489
Delta R.T. 0.006 min
Lab File: BF132178.D
Acq: 21 Jan 2023 00:23

Tgt Ion:112 Resp: 1069702
Ion Ratio Lower Upper
112 100
64 67.2 51.4 77.0
63 37.0 28.2 42.2



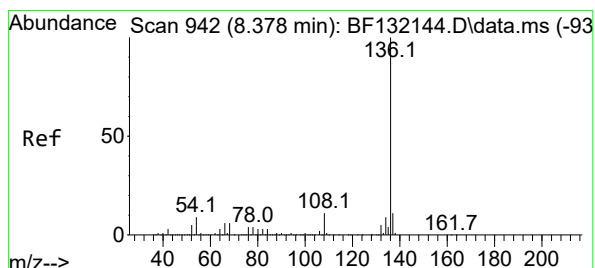
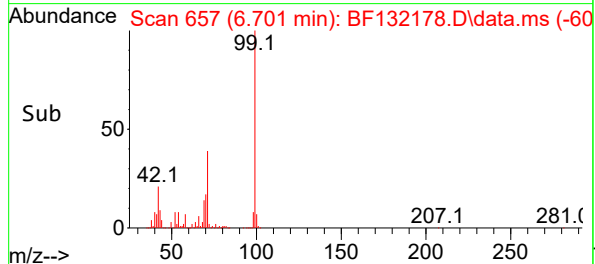
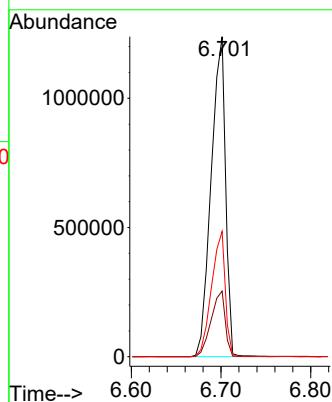
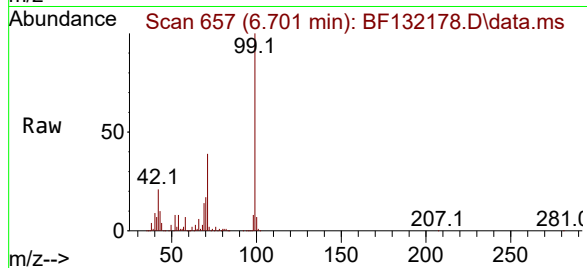


#7
Phenol-d6
Concen: 103.267 ng
RT: 6.701 min Scan# 61
Delta R.T. -0.000 min
Lab File: BF132178.D
Acq: 21 Jan 2023 00:23

Instrument :
BNA_F
ClientSampleId :
B-P34B

Tgt Ion: 99 Resp: 1382198

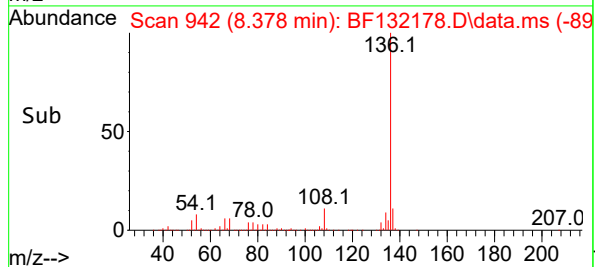
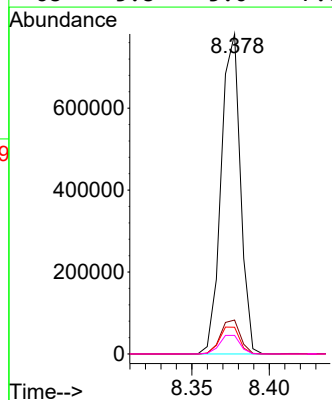
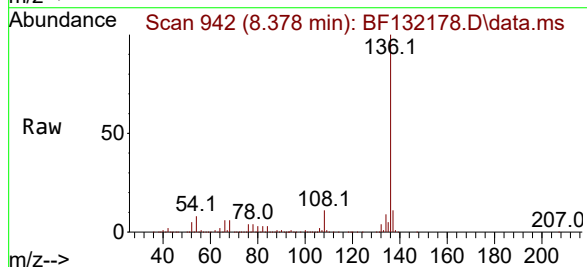
Ion	Ratio	Lower	Upper
99	100		
42	20.5	16.6	24.8
71	39.1	30.8	46.2

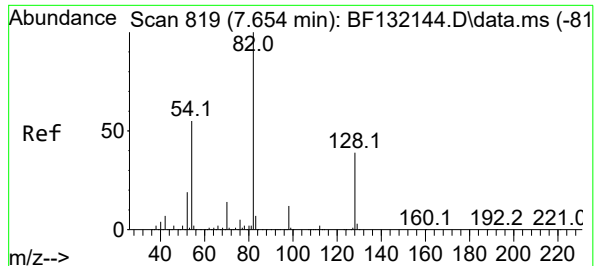


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.378 min Scan# 942
Delta R.T. -0.000 min
Lab File: BF132178.D
Acq: 21 Jan 2023 00:23

Tgt Ion: 136 Resp: 675652

Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.9	13.3
54	8.3	7.0	10.6
68	5.8	5.0	7.6





#23

Nitrobenzene-d5

Concen: 72.204 ng

RT: 7.654 min Scan# 819

Delta R.T. -0.000 min

Lab File: BF132178.D

Acq: 21 Jan 2023 00:23

Instrument :

BNA_F

ClientSampleId :

B-P34B

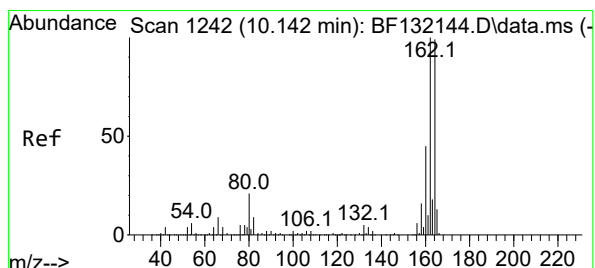
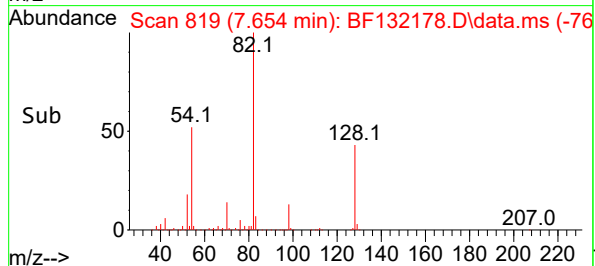
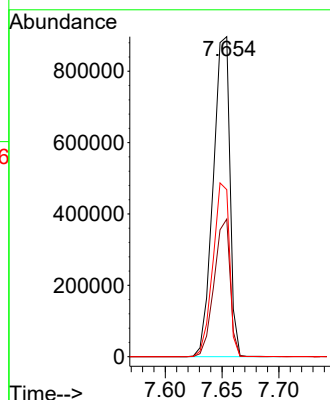
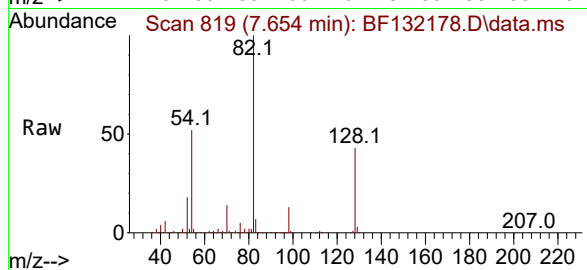
Tgt Ion: 82 Resp: 918338

Ion Ratio Lower Upper

82 100

128 43.0 31.1 46.7

54 52.2 43.9 65.9



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.142 min Scan# 1242

Delta R.T. -0.000 min

Lab File: BF132178.D

Acq: 21 Jan 2023 00:23

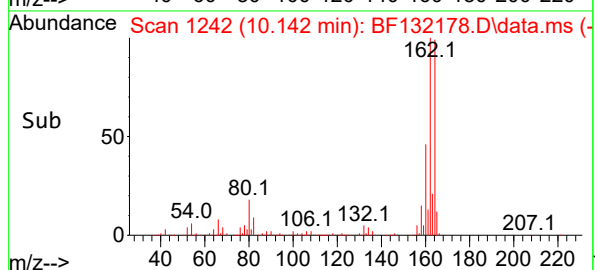
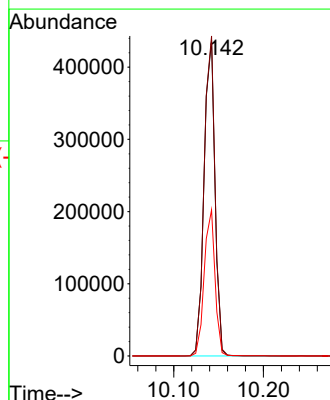
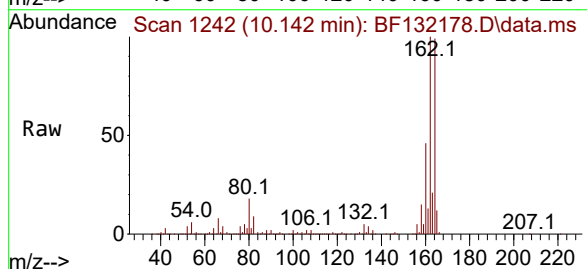
Tgt Ion: 164 Resp: 368118

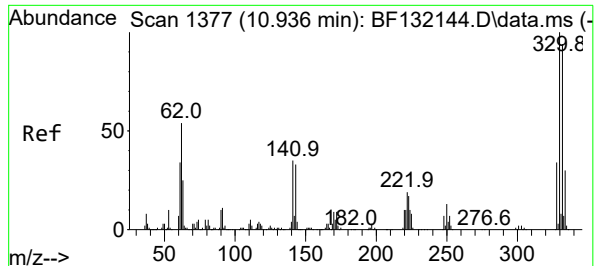
Ion Ratio Lower Upper

164 100

162 101.4 81.2 121.8

160 46.3 36.9 55.3





#42

2,4,6-Tribromophenol

Concen: 108.147 ng

RT: 10.936 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF132178.D

Acq: 21 Jan 2023 00:23

Instrument :

BNA_F

ClientSampleId :

B-P34B

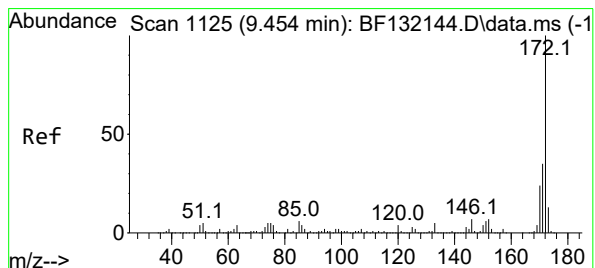
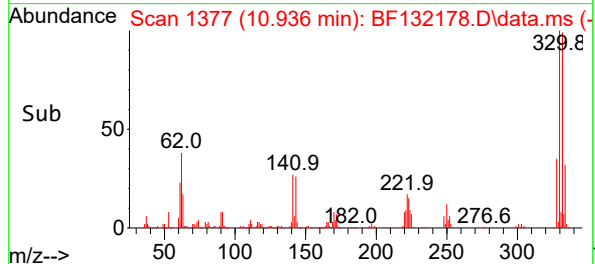
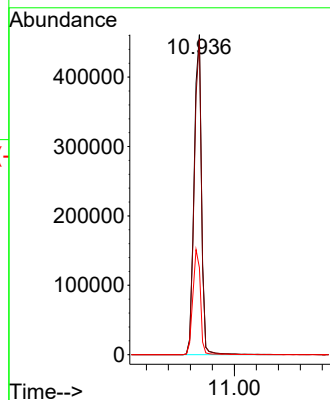
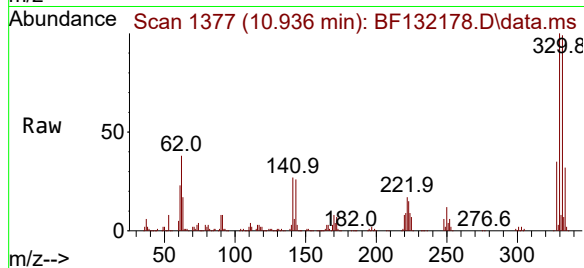
Tgt Ion:330 Resp: 425240

Ion Ratio Lower Upper

330 100

332 96.7 75.6 113.4

141 33.8 27.1 40.7



#45

2-Fluorobiphenyl

Concen: 60.693 ng

RT: 9.454 min Scan# 1125

Delta R.T. -0.000 min

Lab File: BF132178.D

Acq: 21 Jan 2023 00:23

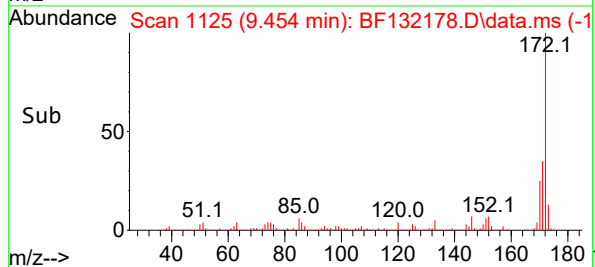
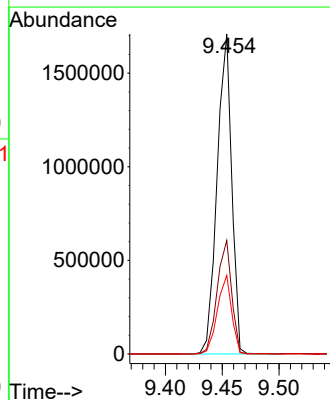
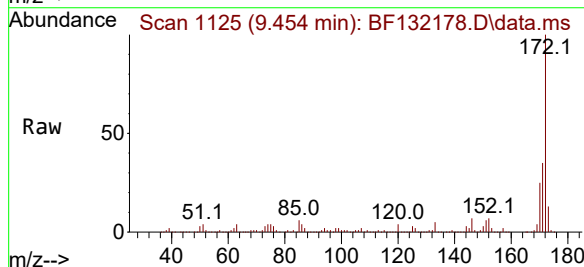
Tgt Ion:172 Resp: 1528993

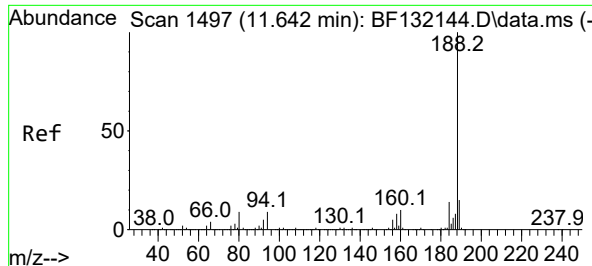
Ion Ratio Lower Upper

172 100

171 35.4 28.2 42.2

170 24.5 19.6 29.4

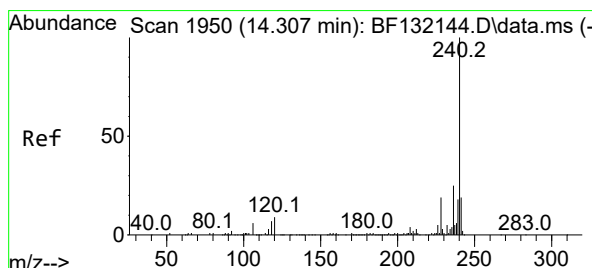
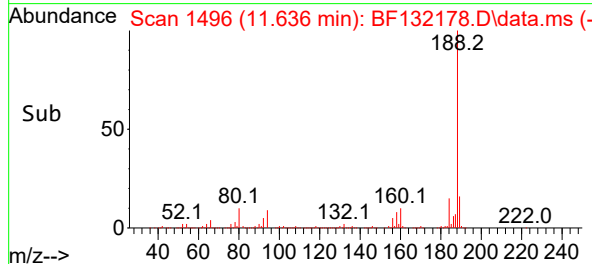
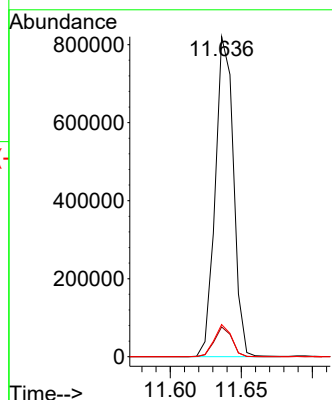
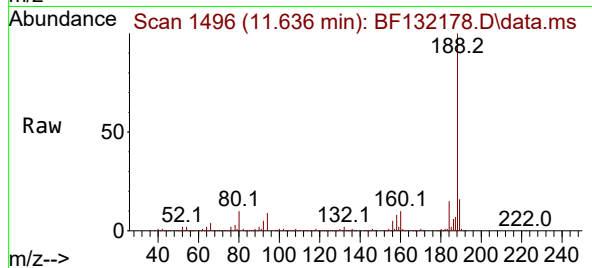




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.636 min Scan# 1496
Delta R.T. -0.006 min
Lab File: BF132178.D
Acq: 21 Jan 2023 00:23

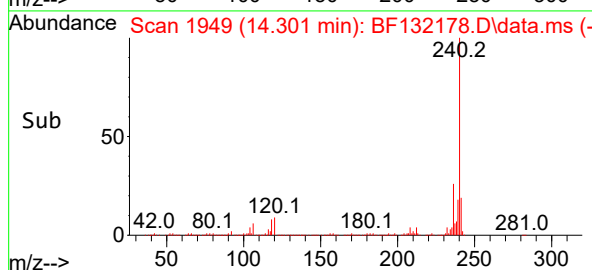
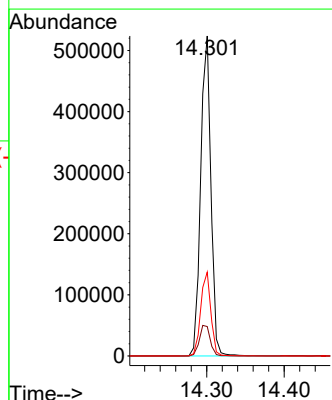
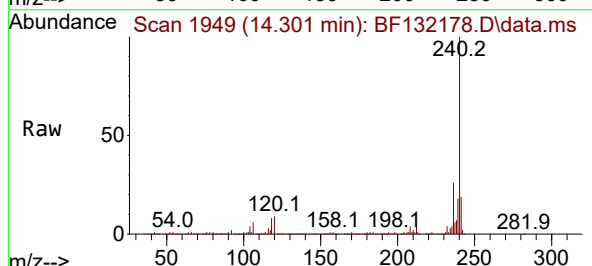
Instrument :
BNA_F
ClientSampleId :
B-P34B

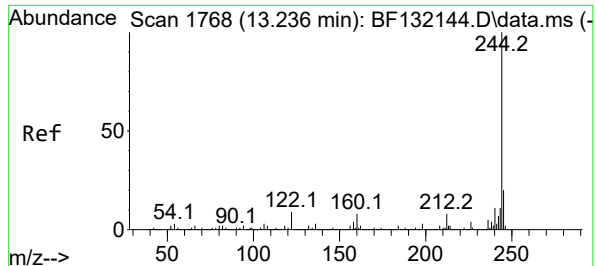
Tgt Ion:188 Resp: 732948
Ion Ratio Lower Upper
188 100
94 9.3 6.9 10.3
80 10.0 7.5 11.3



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.301 min Scan# 1949
Delta R.T. -0.006 min
Lab File: BF132178.D
Acq: 21 Jan 2023 00:23

Tgt Ion:240 Resp: 480445
Ion Ratio Lower Upper
240 100
120 9.2 6.9 10.3
236 26.2 20.3 30.5





#79

Terphenyl-d14

Concen: 64.767 ng

RT: 13.236 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF132178.D

Acq: 21 Jan 2023 00:23

Instrument :

BNA_F

ClientSampleId :

B-P34B

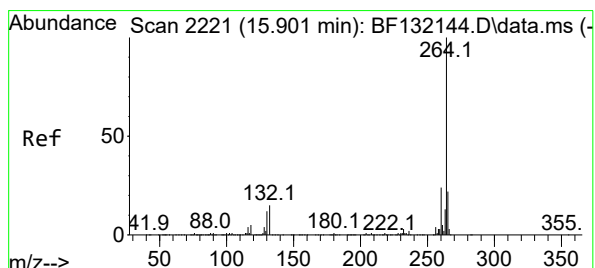
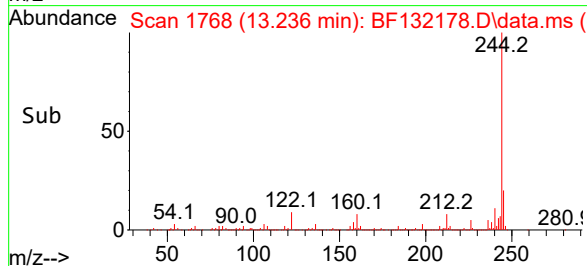
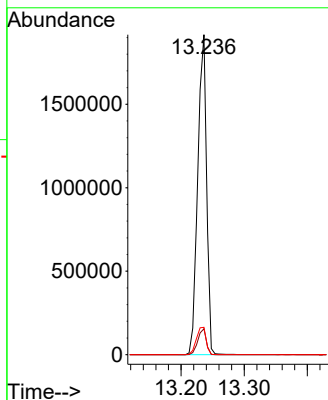
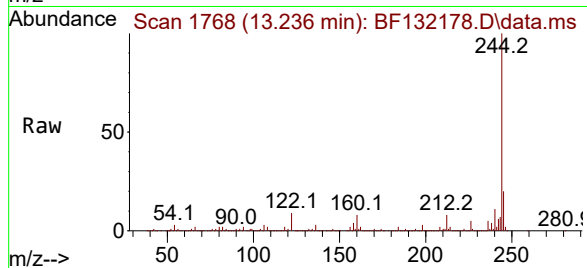
Tgt Ion:244 Resp: 1857599

Ion Ratio Lower Upper

244 100

212 8.1 6.7 10.1

122 8.5 7.4 11.2



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.895 min Scan# 2220

Delta R.T. -0.006 min

Lab File: BF132178.D

Acq: 21 Jan 2023 00:23

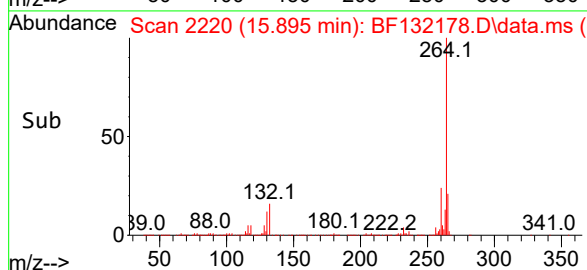
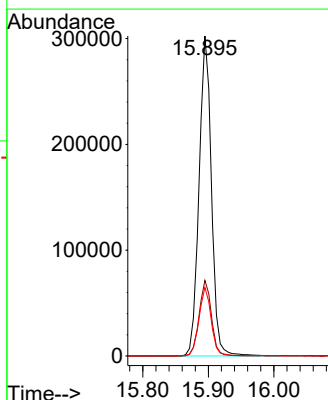
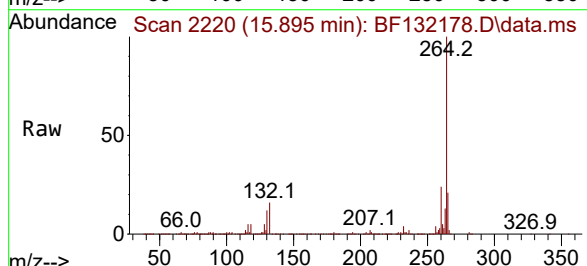
Tgt Ion:264 Resp: 398304

Ion Ratio Lower Upper

264 100

260 23.6 19.1 28.7

265 21.4 17.4 26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
 Data File : BF132178.D
 Acq On : 21 Jan 2023 00:23
 Operator : CG\JU
 Sample : 01233-03
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-P34B

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF132178.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.337	419	425	434	rBV	1536674	1956241	39.30%	5.567%
2	5.713	484	489	492	rBV	3906561	4024791	80.86%	11.453%
3	6.701	651	657	660	rBV	3728526	4081944	82.01%	11.615%
4	7.089	719	723	726	rVB	1438377	1115403	22.41%	3.174%
5	7.654	813	819	822	rBV	2656206	2717983	54.61%	7.734%
6	8.378	938	942	945	rBV	1616149	1420503	28.54%	4.042%
7	9.454	1120	1125	1128	rBV	5222418	4611788	92.66%	13.123%
8	10.142	1238	1242	1245	rBV	1898673	1615636	32.46%	4.597%
9	10.854	1360	1363	1366	rBV	409668	296750	5.96%	0.844%
10	10.930	1372	1376	1380	rBV	3360171	3292830	66.16%	9.370%
11	11.636	1492	1496	1500	rBV	1989756	1760265	35.37%	5.009%
12	12.148	1579	1583	1589	rBV	452974	411307	8.26%	1.170%
13	12.936	1714	1717	1723	rBV	138955	127799	2.57%	0.364%
14	13.236	1763	1768	1771	rBV	5152422	4977323	100.00%	14.163%
15	14.124	1916	1919	1939	rBV2	105264	334000	6.71%	0.950%
16	14.301	1945	1949	1952	rBV	1408920	1298365	26.09%	3.695%
17	15.895	2214	2220	2233	rBV	807256	1099361	22.09%	3.128%

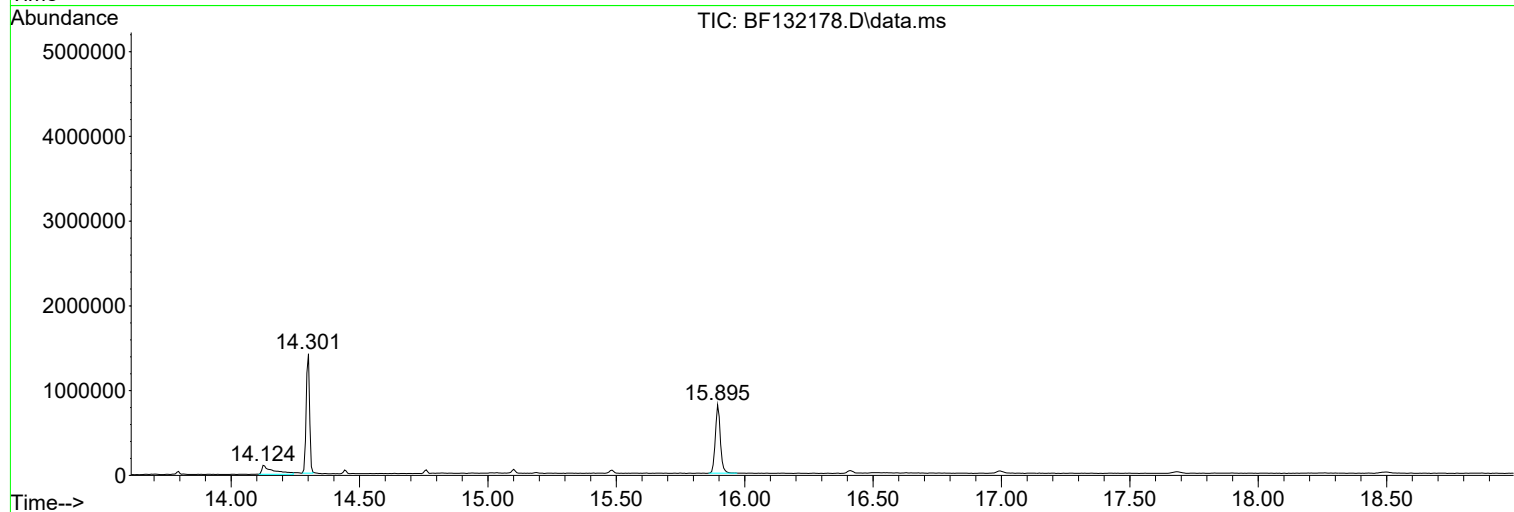
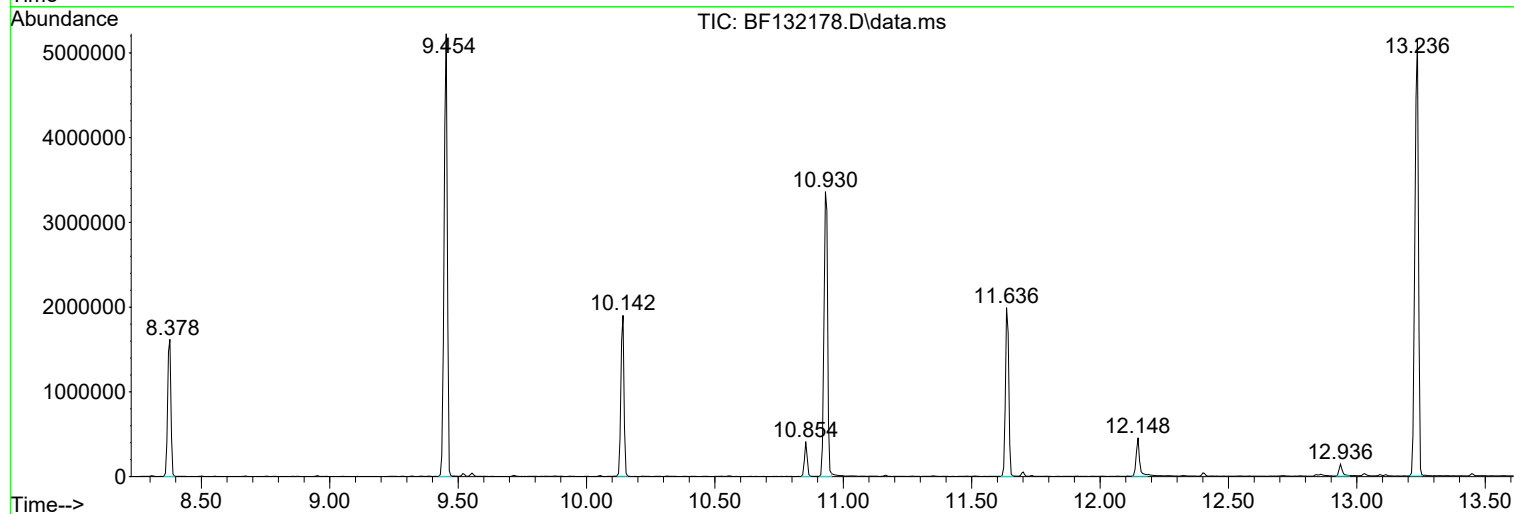
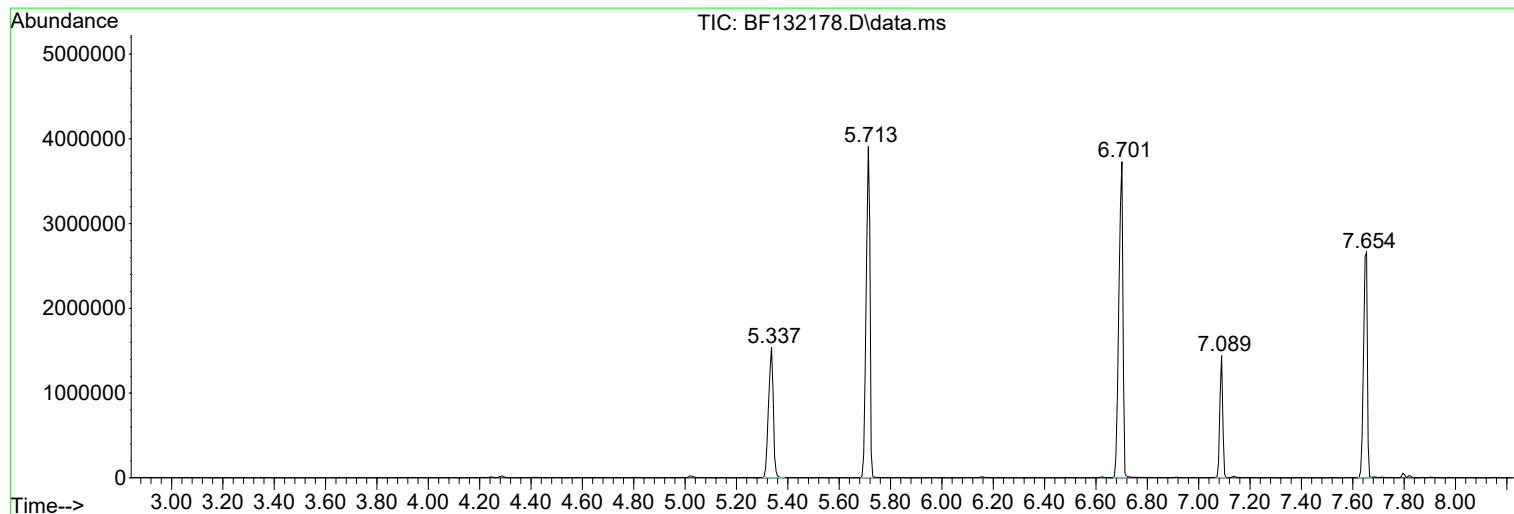
Sum of corrected areas: 35142289

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132178.D
Acq On : 21 Jan 2023 00:23
Operator : CG\JU
Sample : 01233-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P34B

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132178.D
Acq On : 21 Jan 2023 00:23
Operator : CG\JU
Sample : 01233-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P34B

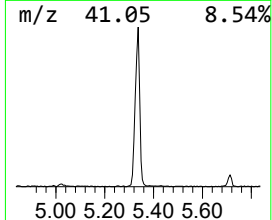
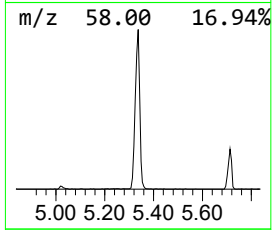
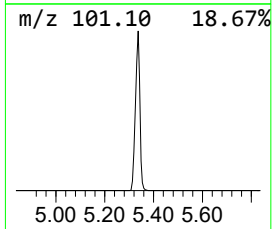
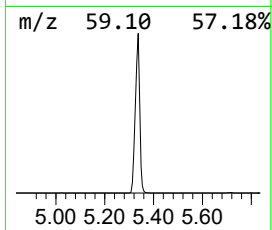
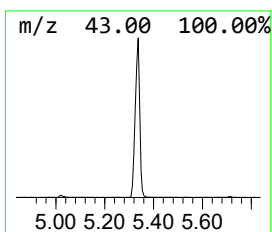
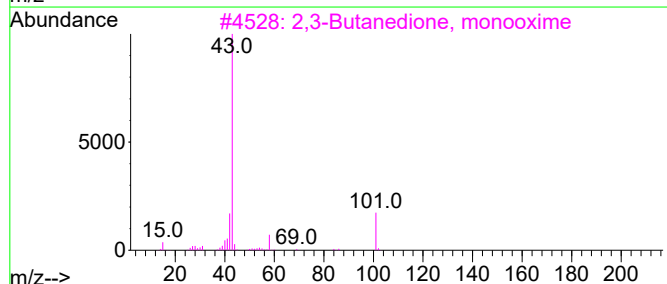
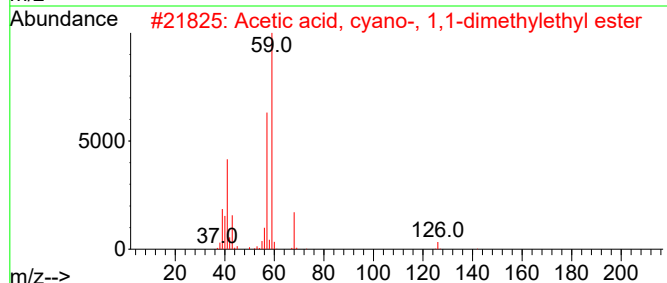
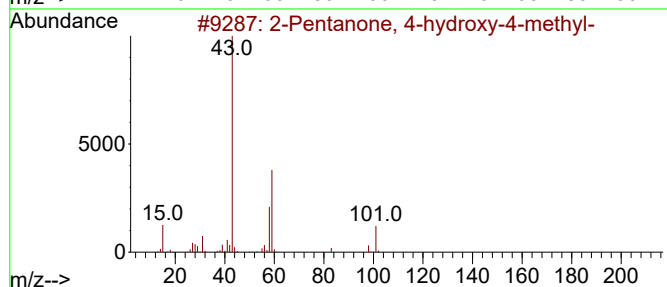
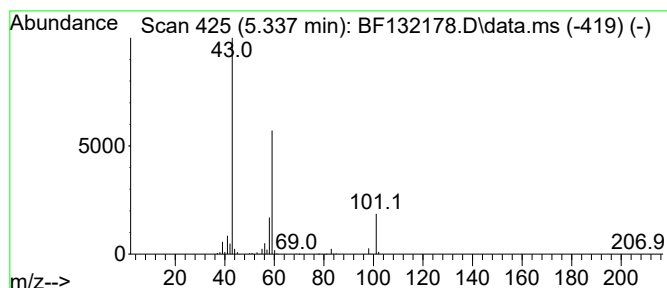
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.337	35.08 ng	1956240	1,4-Dichlorobenzene-d4	7.089

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2		Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
3		2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
4		1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5		Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132178.D
Acq On : 21 Jan 2023 00:23
Operator : CG\JU
Sample : 01233-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P34B

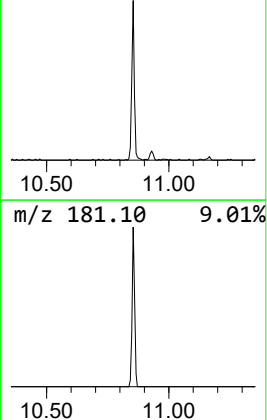
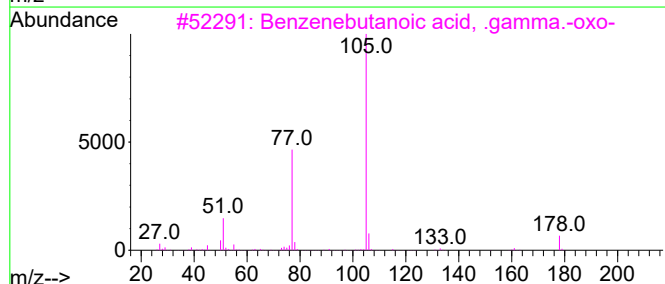
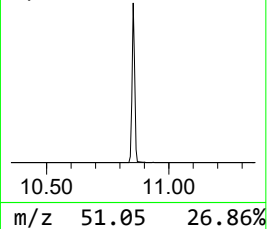
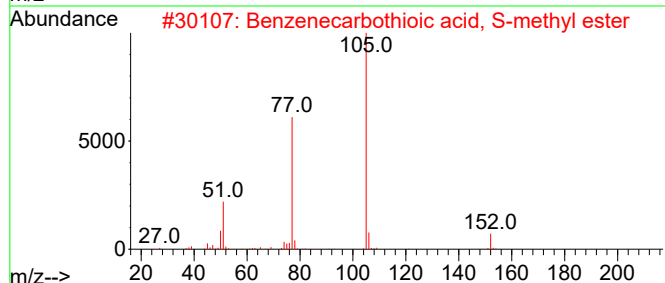
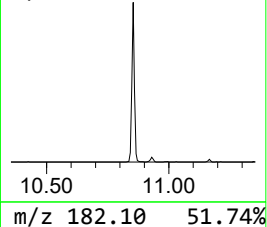
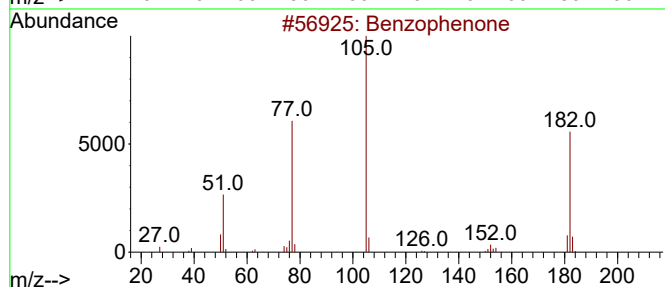
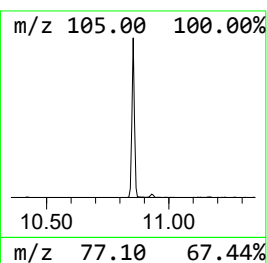
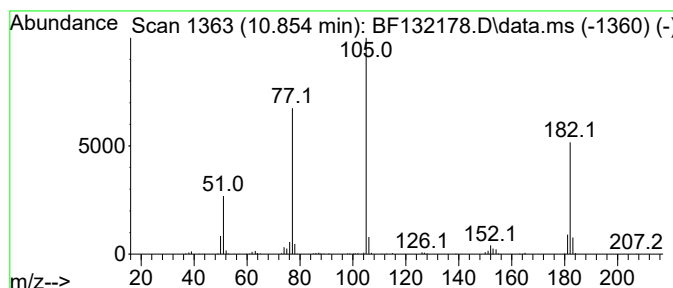
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 Benzophenone Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.854	3.67 ng	296750	Acenaphthene-d10	10.142

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	96
2			Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	49
3			Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47
4			Vinyl benzoate	148	C9H8O2	000769-78-8	47
5			Benzenecetic acid, .alpha.-oxo-...	164	C9H8O3	015206-55-0	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132178.D
Acq On : 21 Jan 2023 00:23
Operator : CG\JU
Sample : 01233-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

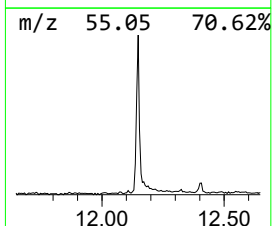
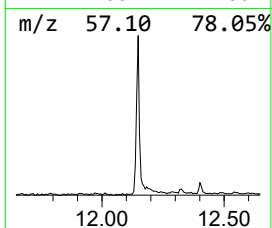
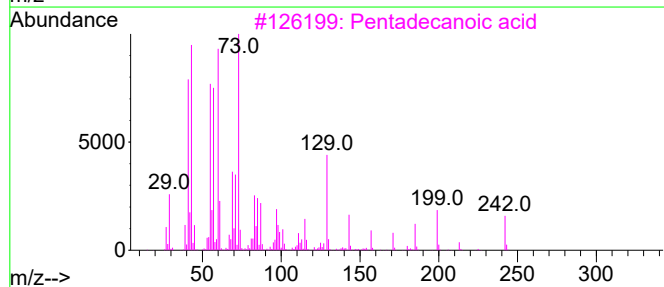
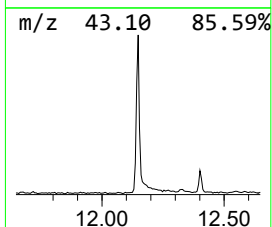
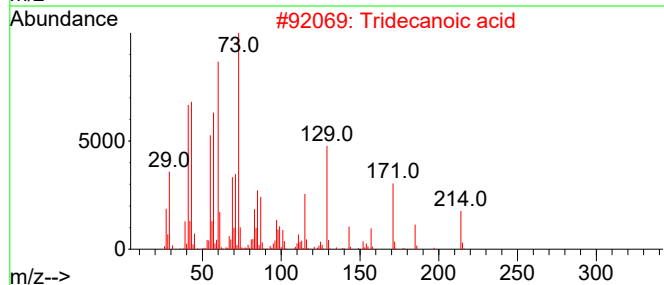
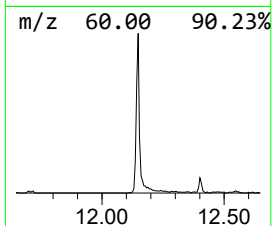
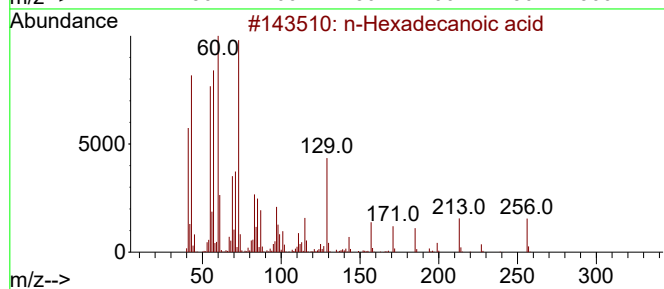
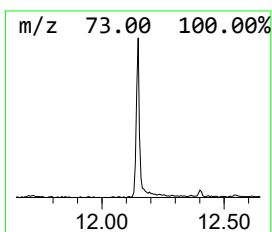
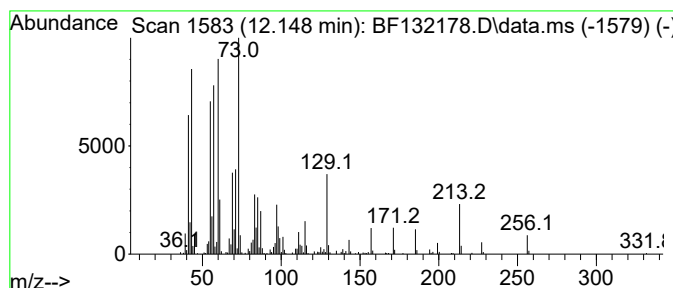
Instrument :
BNA_F
ClientSampleId :
B-P34B

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.	
12.148	4.67 ng	411307	Phenanthrene-d10	11.636	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tridecanoic acid	214	C13H26O2	000638-53-9	96
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	93
4	Octadecanoic acid	284	C18H36O2	000057-11-4	90
5	Dodecanoic acid	200	C12H24O2	000143-07-7	74



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132178.D
Acq On : 21 Jan 2023 00:23
Operator : CG\JU
Sample : 01233-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

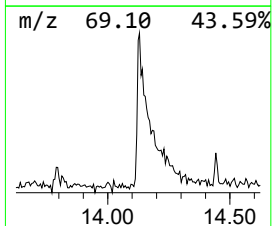
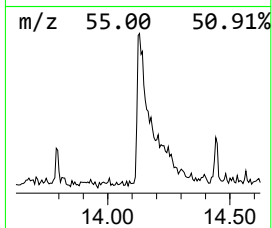
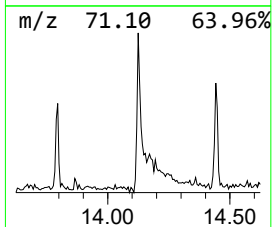
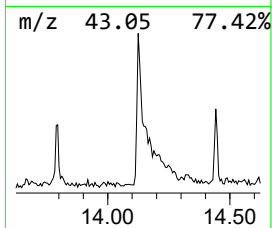
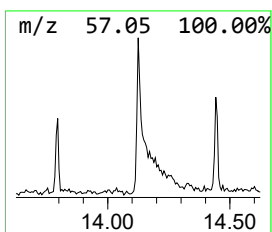
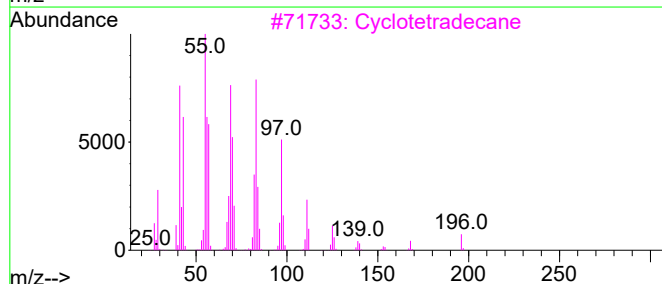
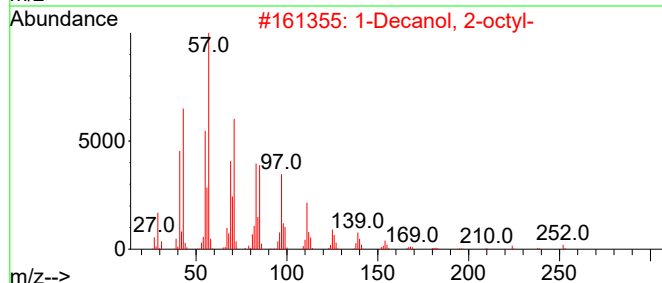
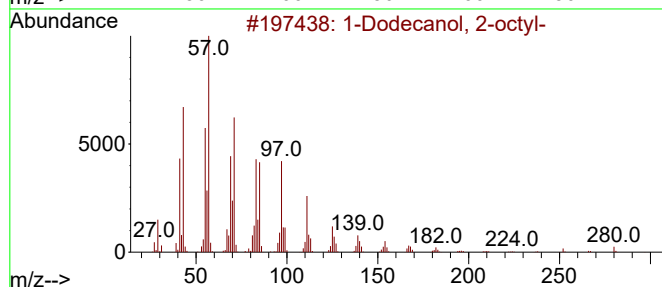
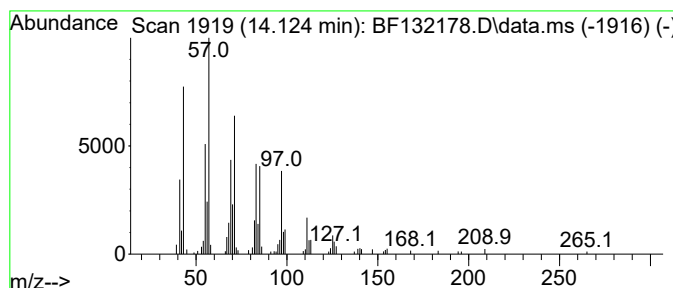
Instrument :
BNA_F
ClientSampleId :
B-P34B

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 1-Dodecanol, 2-octyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.		
14.124	5.14 ng	334000	Chrysene-d12	14.301		
Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		1-Dodecanol, 2-octyl-	298	C20H42O	005333-42-6	91
2		1-Decanol, 2-octyl-	270	C18H38O	045235-48-1	91
3		Cyclotetradecane	196	C14H28	000295-17-0	89
4		Sulfurous acid, octadecyl 2-prop...	376	C21H44O3S	1000309-12-7	87
5		Carbonic acid, octadecyl prop-1-...	354	C22H42O3	1000383-11-5	74



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132178.D
Acq On : 21 Jan 2023 00:23
Operator : CG\JU
Sample : 01233-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P34B

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
2-Pentanone, 4-...	5.337	35.1	ng	1956240	1	7.089	1115400	20.0
Benzophenone	10.854	3.7	ng	296750	3	10.142	1615640	20.0
n-Hexadecanoic ...	12.148	4.7	ng	411307	4	11.636	1760270	20.0
1-Dodecanol, 2-...	14.124	5.1	ng	334000	5	14.301	1298370	20.0



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P36A	SDG No.:	O1233
Lab Sample ID:	O1233-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	89.6
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF132179.D	1	01/20/23 12:30	01/21/23 00:56	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	160	U	160	370	ug/Kg
108-95-2	Phenol	75.5	U	75.5	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	89.5	U	89.5	190	ug/Kg
95-57-8	2-Chlorophenol	76.2	U	76.2	190	ug/Kg
95-48-7	2-Methylphenol	120	U	120	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	110	U	110	190	ug/Kg
98-86-2	Acetophenone	89.3	U	89.3	190	ug/Kg
65794-96-9	3+4-Methylphenols	110	U	110	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	84.8	U	84.8	89.2	ug/Kg
67-72-1	Hexachloroethane	82.2	U	82.2	190	ug/Kg
98-95-3	Nitrobenzene	82.4	U	82.4	190	ug/Kg
78-59-1	Isophorone	74.3	U	74.3	190	ug/Kg
88-75-5	2-Nitrophenol	100	U	100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	110	U	110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	120	U	120	190	ug/Kg
120-83-2	2,4-Dichlorophenol	91.1	U	91.1	190	ug/Kg
91-20-3	Naphthalene	82.4	U	82.4	190	ug/Kg
106-47-8	4-Chloroaniline	110	U	110	190	ug/Kg
87-68-3	Hexachlorobutadiene	110	U	110	190	ug/Kg
105-60-2	Caprolactam	110	U	110	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	87.7	U	87.7	190	ug/Kg
91-57-6	2-Methylnaphthalene	83.6	U	83.6	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	190	U	190	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	95.2	U	95.2	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	93.2	U	93.2	190	ug/Kg
92-52-4	1,1-Biphenyl	96.4	U	96.4	190	ug/Kg
91-58-7	2-Chloronaphthalene	95.3	U	95.3	190	ug/Kg
88-74-4	2-Nitroaniline	120	U	120	190	ug/Kg
131-11-3	Dimethylphthalate	90.2	U	90.2	190	ug/Kg
208-96-8	Acenaphthylene	76.6	U	76.6	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	87.1	U	87.1	190	ug/Kg



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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P36A	SDG No.:	O1233
Lab Sample ID:	O1233-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	89.6
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF132179.D	1	01/20/23 12:30	01/21/23 00:56	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	110	U	110	190	ug/Kg
83-32-9	Acenaphthene	88.0	U	88.0	190	ug/Kg
51-28-5	2,4-Dinitrophenol	140	U	140	370	ug/Kg
100-02-7	4-Nitrophenol	150	U	150	370	ug/Kg
132-64-9	Dibenzofuran	82.7	U	82.7	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	94.3	U	94.3	190	ug/Kg
84-66-2	Diethylphthalate	89.8	U	89.8	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	100	U	100	190	ug/Kg
86-73-7	Fluorene	87.9	U	87.9	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	96.1	U	96.1	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	91.6	U	91.6	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	110	U	110	190	ug/Kg
118-74-1	Hexachlorobenzene	120	U	120	190	ug/Kg
1912-24-9	Atrazine	100	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	130	U	130	370	ug/Kg
85-01-8	Phenanthrene	93.2	U	93.2	190	ug/Kg
120-12-7	Anthracene	93.7	U	93.7	190	ug/Kg
86-74-8	Carbazole	93.9	U	93.9	190	ug/Kg
84-74-2	Di-n-butylphthalate	97.0	U	97.0	190	ug/Kg
206-44-0	Fluoranthene	89.0	U	89.0	190	ug/Kg
129-00-0	Pyrene	82.7	U	82.7	190	ug/Kg
85-68-7	Butylbenzylphthalate	92.2	U	92.2	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	150	U	150	370	ug/Kg
56-55-3	Benzo(a)anthracene	96.8	U	96.8	190	ug/Kg
218-01-9	Chrysene	95.3	U	95.3	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	98.8	U	98.8	190	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	76.9	U	76.9	190	ug/Kg
207-08-9	Benzo(k)fluoranthene	82.1	U	82.1	190	ug/Kg
50-32-8	Benzo(a)pyrene	75.5	U	75.5	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	110	U	110	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	110	U	110	190	ug/Kg



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P36A	SDG No.:	O1233
Lab Sample ID:	O1233-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	89.6
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF132179.D	1	01/20/23 12:30	01/21/23 00:56	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	110	U	110	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	100	U	100	190	ug/Kg
123-91-1	1,4-Dioxane	99.3	U	99.3	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	90.5	U	90.5	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	117		18 - 112	78%	SPK: 150
13127-88-3	Phenol-d6	123		21 - 104	82%	SPK: 150
4165-60-0	Nitrobenzene-d5	86.0		27 - 109	86%	SPK: 100
321-60-8	2-Fluorobiphenyl	70.7		30 - 103	71%	SPK: 100
118-79-6	2,4,6-Tribromophenol	136		10 - 121	90%	SPK: 150
1718-51-0	Terphenyl-d14	76.2		21 - 107	76%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	189000		7.089		
1146-65-2	Naphthalene-d8	681000		8.378		
15067-26-2	Acenaphthene-d10	366000		10.142		
1517-22-2	Phenanthrene-d10	725000		11.636		
1719-03-5	Chrysene-d12	477000		14.301		
1520-96-3	Perylene-d12	393000		15.895		
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	1400	AB		5.34	ug/Kg
000119-61-9	Benzophenone	140	J		10.9	ug/Kg
000057-10-3	n-Hexadecanoic acid	160	J		12.1	ug/Kg
1000406-04-8	Pentadecafluorooctanoic acid, octa	160	J		14.1	ug/Kg

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132179.D
Acq On : 21 Jan 2023 00:56
Operator : CG\JU
Sample : 01233-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P36A

Quant Time: Jan 21 03:59:10 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 20 00:50:42 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.089	152	189363	20.000	ng	0.00
21) Naphthalene-d8	8.378	136	681160	20.000	ng	0.00
39) Acenaphthene-d10	10.142	164	365830	20.000	ng	0.00
64) Phenanthrene-d10	11.636	188	725377	20.000	ng	0.00
76) Chrysene-d12	14.301	240	477461	20.000	ng	0.00
86) Perylene-d12	15.895	264	393144	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.719	112	1263847	116.590	ng	0.01
7) Phenol-d6	6.701	99	1681809	123.249	ng	0.00
23) Nitrobenzene-d5	7.654	82	1102226	85.962	ng	0.00
42) 2,4,6-Tribromophenol	10.936	330	529540	135.515	ng	0.00
45) 2-Fluorobiphenyl	9.454	172	1770150	70.705	ng	0.00
79) Terphenyl-d14	13.236	244	2172272	76.211	ng	0.00

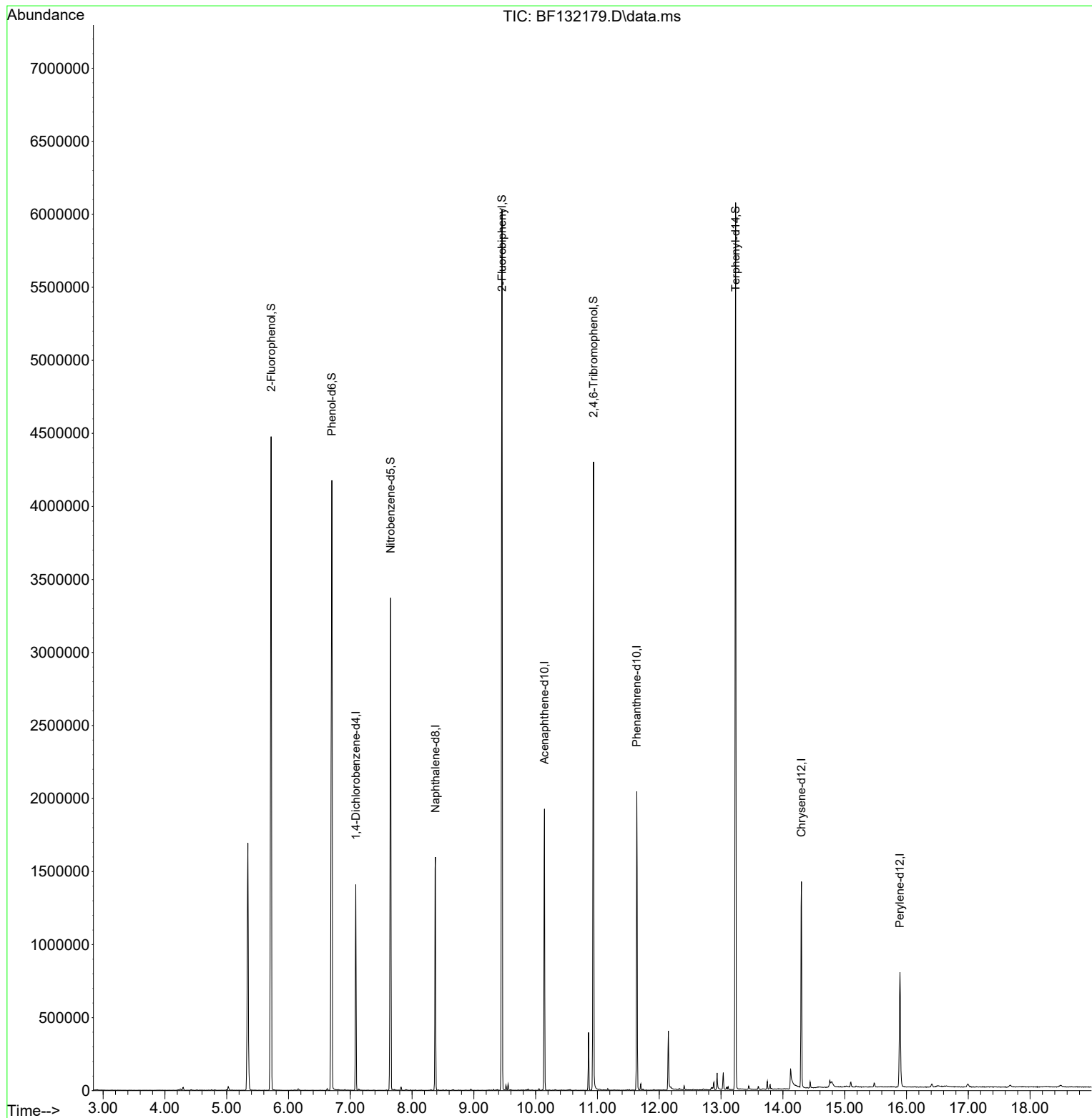
Target Compounds	Qvalue

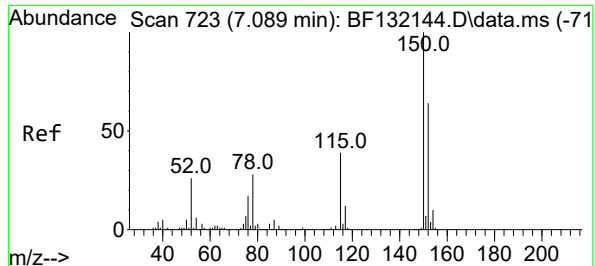
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132179.D
Acq On : 21 Jan 2023 00:56
Operator : CG\JU
Sample : 01233-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P36A

Quant Time: Jan 21 03:59:10 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 20 00:50:42 2023
Response via : Initial Calibration

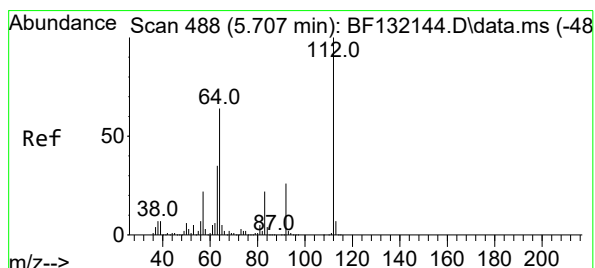
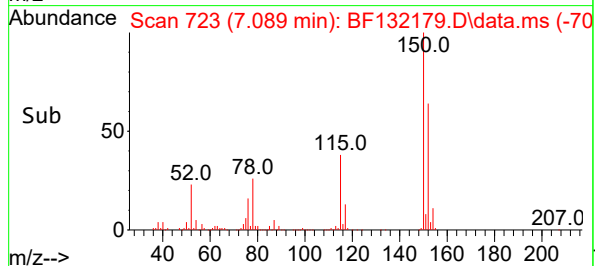
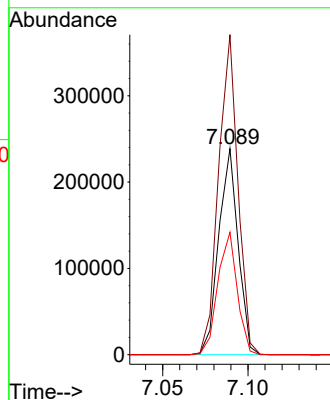
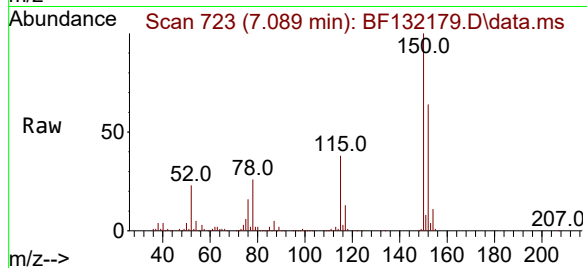




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.089 min Scan# 71
 Delta R.T. 0.000 min
 Lab File: BF132179.D
 Acq: 21 Jan 2023 00:56

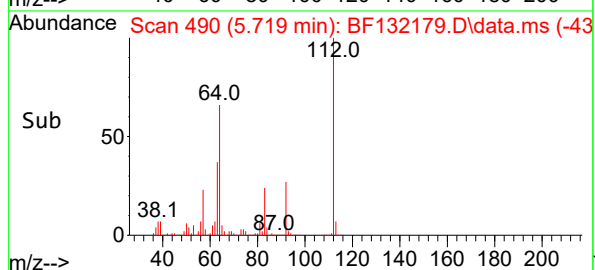
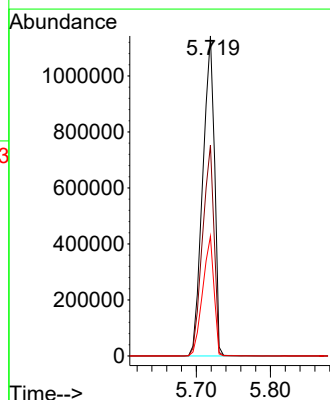
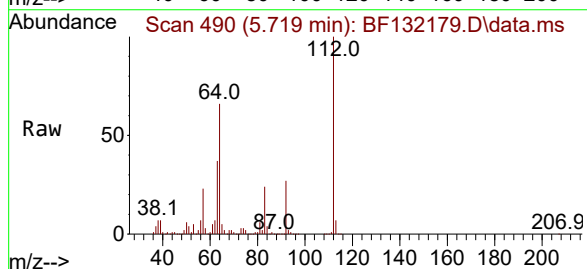
Instrument :
 BNA_F
 ClientSampleId :
 B-P36A

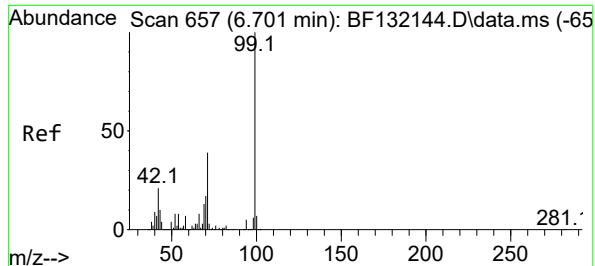
Tgt Ion:152 Resp: 189363
 Ion Ratio Lower Upper
 152 100
 150 155.3 125.8 188.8
 115 59.4 49.2 73.8



#5
 2-Fluorophenol
 Concen: 116.590 ng
 RT: 5.719 min Scan# 490
 Delta R.T. 0.012 min
 Lab File: BF132179.D
 Acq: 21 Jan 2023 00:56

Tgt Ion:112 Resp: 1263847
 Ion Ratio Lower Upper
 112 100
 64 65.9 51.4 77.0
 63 37.4 28.2 42.2





#7

Phenol-d6

Concen: 123.249 ng

RT: 6.701 min Scan# 6

Delta R.T. 0.000 min

Lab File: BF132179.D

Acq: 21 Jan 2023 00:56

Instrument :

BNA_F

ClientSampleId :

B-P36A

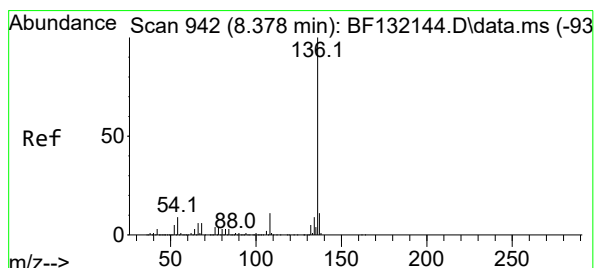
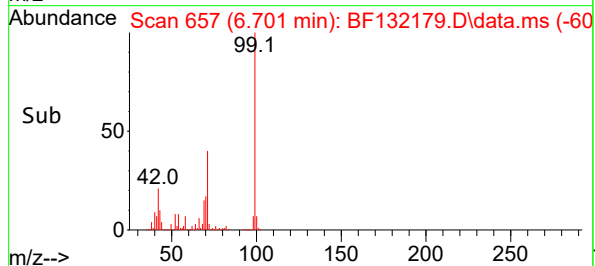
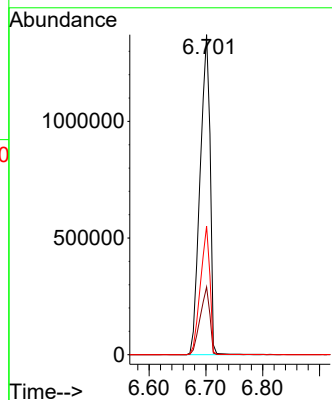
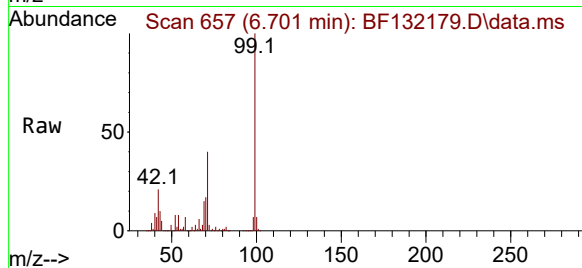
Tgt Ion: 99 Resp: 1681809

Ion Ratio Lower Upper

99 100

42 21.2 16.6 24.8

71 40.2 30.8 46.2



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.378 min Scan# 942

Delta R.T. -0.000 min

Lab File: BF132179.D

Acq: 21 Jan 2023 00:56

Tgt Ion:136 Resp: 681160

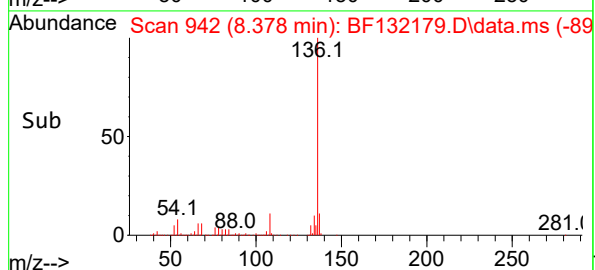
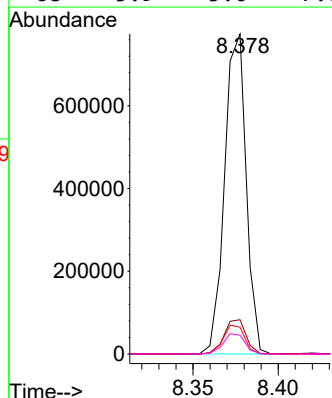
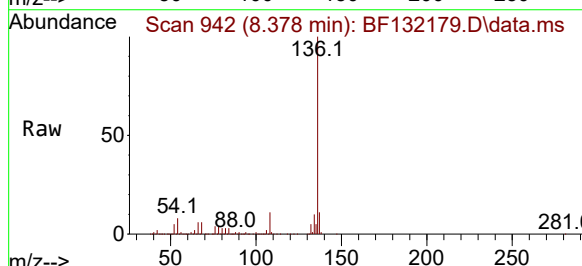
Ion Ratio Lower Upper

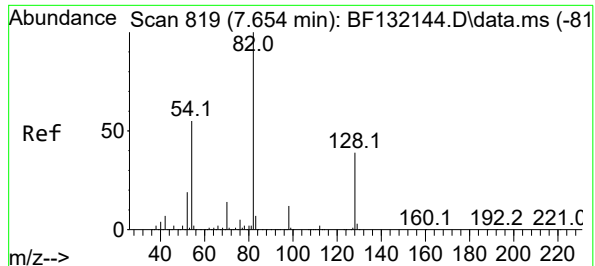
136 100

137 10.7 8.9 13.3

54 8.3 7.0 10.6

68 5.9 5.0 7.6





#23

Nitrobenzene-d5

Concen: 85.962 ng

RT: 7.654 min Scan# 819

Delta R.T. -0.000 min

Lab File: BF132179.D

Acq: 21 Jan 2023 00:56

Instrument :

BNA_F

ClientSampleId :

B-P36A

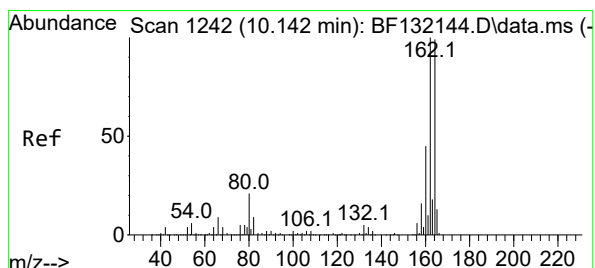
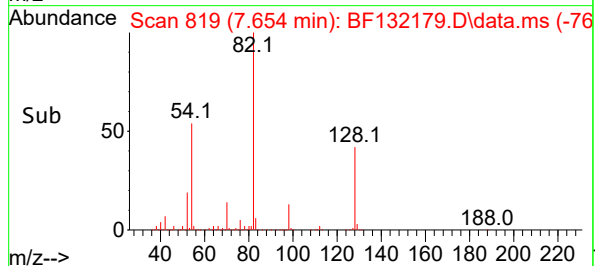
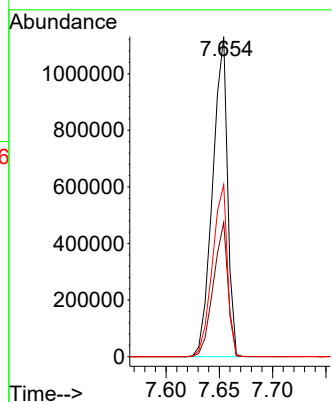
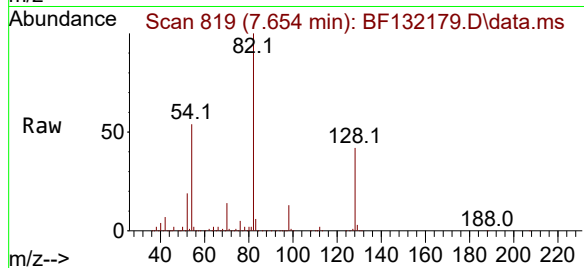
Tgt Ion: 82 Resp: 1102226

Ion Ratio Lower Upper

82 100

128 41.9 31.1 46.7

54 53.7 43.9 65.9



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.142 min Scan# 1242

Delta R.T. -0.000 min

Lab File: BF132179.D

Acq: 21 Jan 2023 00:56

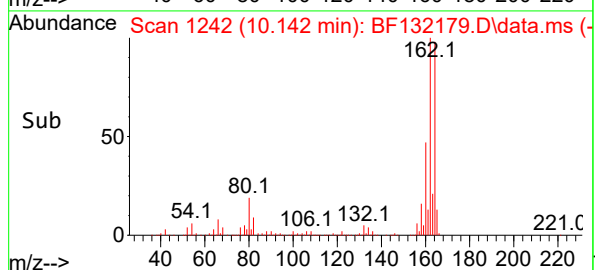
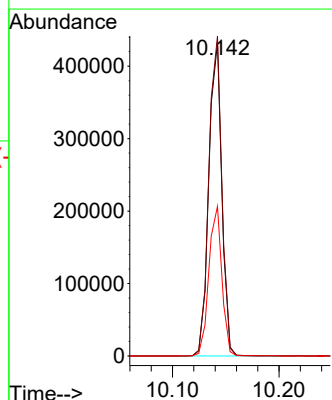
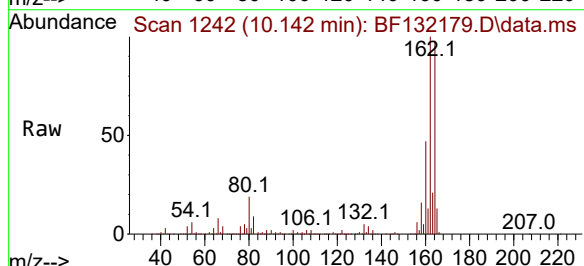
Tgt Ion: 164 Resp: 365830

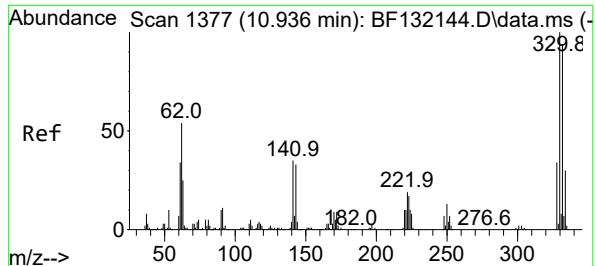
Ion Ratio Lower Upper

164 100

162 102.1 81.2 121.8

160 47.8 36.9 55.3





#42

2,4,6-Tribromophenol

Concen: 135.515 ng

RT: 10.936 min Scan# 1377

Delta R.T. 0.000 min

Lab File: BF132179.D

Acq: 21 Jan 2023 00:56

Instrument :

BNA_F

ClientSampleId :

B-P36A

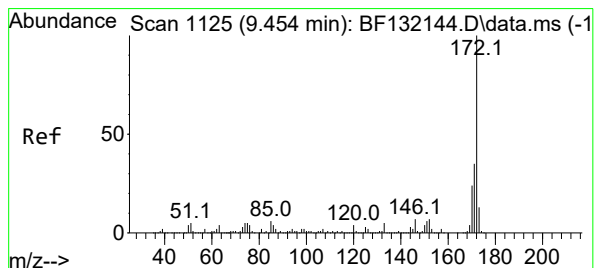
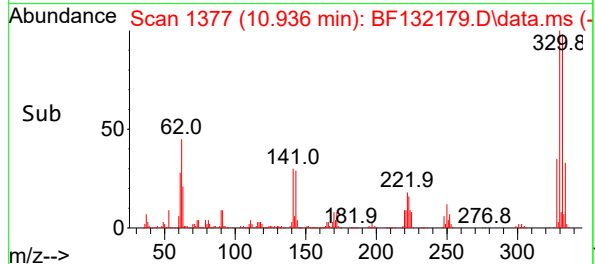
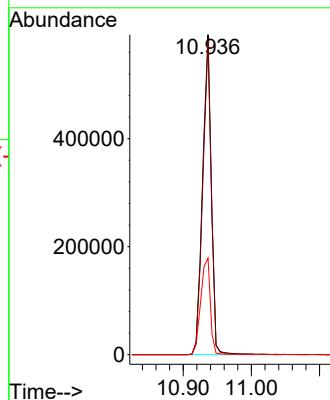
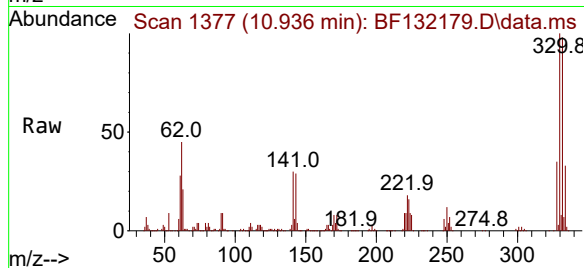
Tgt Ion:330 Resp: 529540

Ion Ratio Lower Upper

330 100

332 96.1 75.6 113.4

141 33.1 27.1 40.7



#45

2-Fluorobiphenyl

Concen: 70.705 ng

RT: 9.454 min Scan# 1125

Delta R.T. 0.000 min

Lab File: BF132179.D

Acq: 21 Jan 2023 00:56

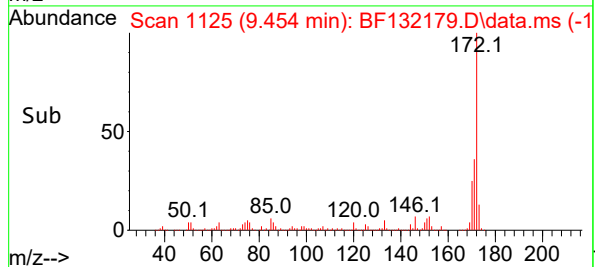
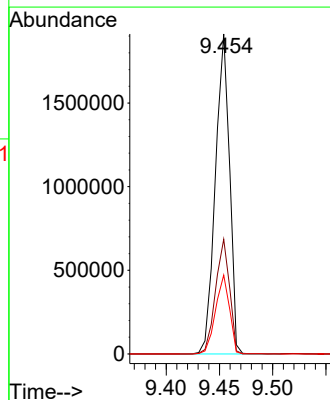
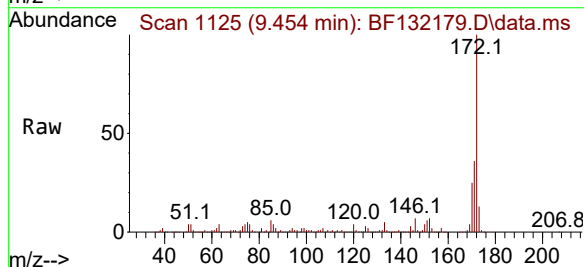
Tgt Ion:172 Resp: 1770150

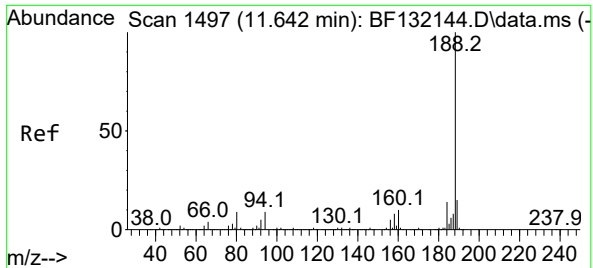
Ion Ratio Lower Upper

172 100

171 35.9 28.2 42.2

170 24.7 19.6 29.4

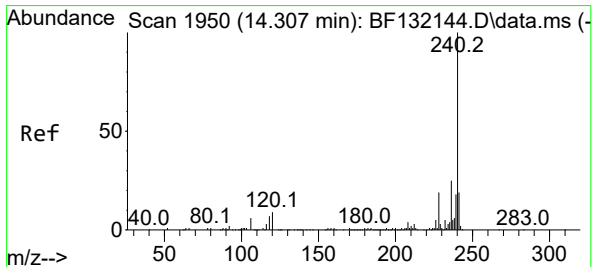
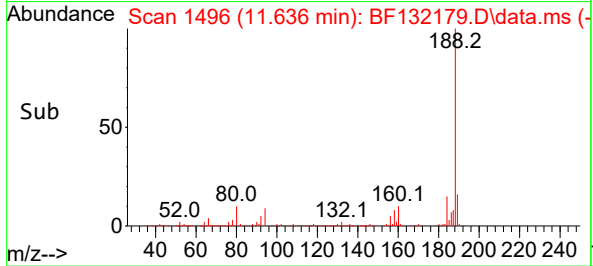
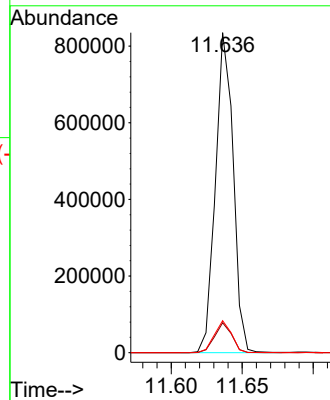
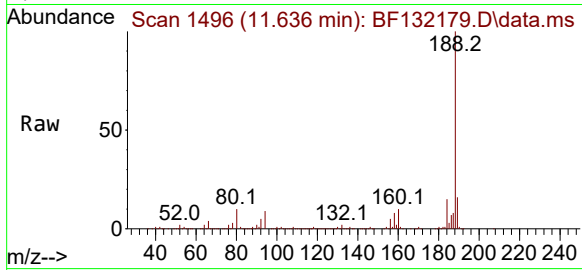




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.636 min Scan# 1496
Delta R.T. -0.006 min
Lab File: BF132179.D
Acq: 21 Jan 2023 00:56

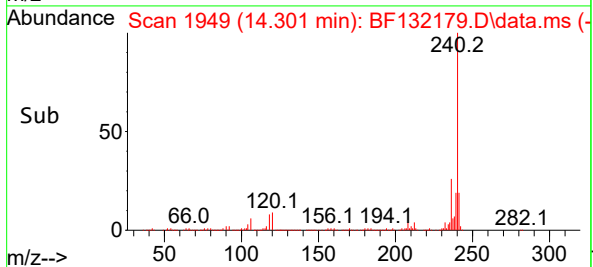
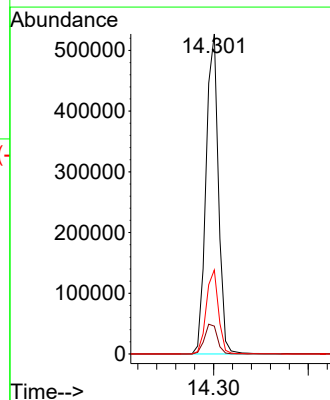
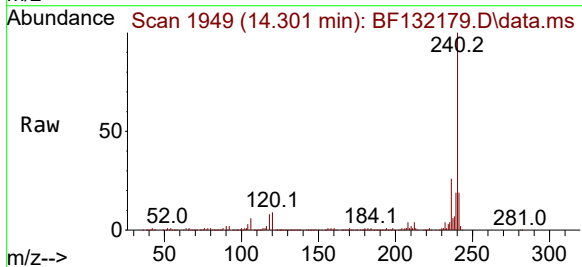
Instrument :
BNA_F
ClientSampleId :
B-P36A

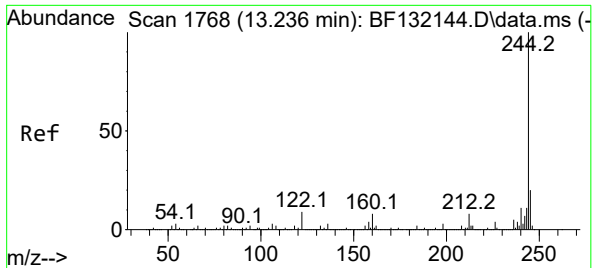
Tgt Ion:188 Resp: 725377
Ion Ratio Lower Upper
188 100
94 9.3 6.9 10.3
80 10.0 7.5 11.3



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.301 min Scan# 1949
Delta R.T. -0.006 min
Lab File: BF132179.D
Acq: 21 Jan 2023 00:56

Tgt Ion:240 Resp: 477461
Ion Ratio Lower Upper
240 100
120 8.7 6.9 10.3
236 26.2 20.3 30.5

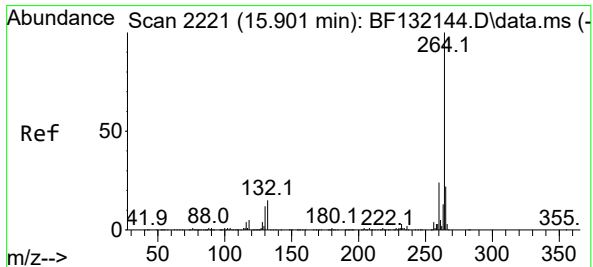
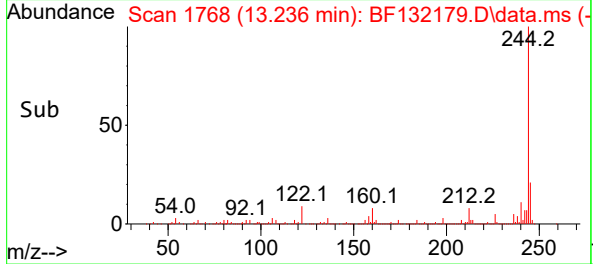
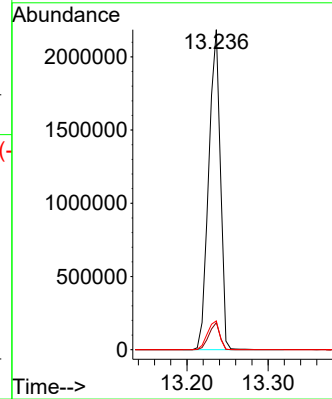
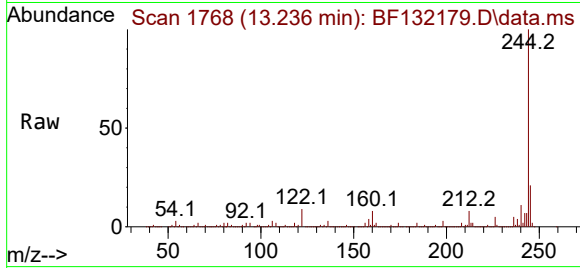




#79
Terphenyl-d14
Concen: 76.211 ng
RT: 13.236 min Scan# 1768
Delta R.T. 0.000 min
Lab File: BF132179.D
Acq: 21 Jan 2023 00:56

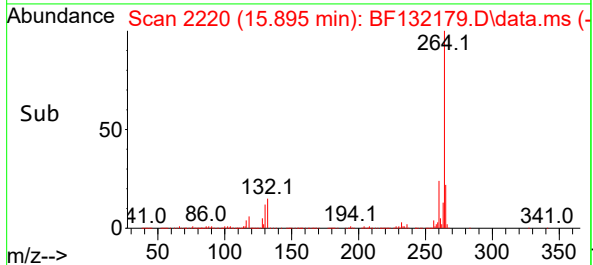
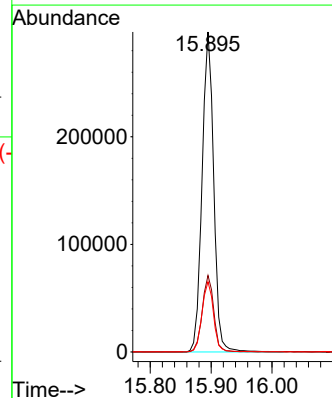
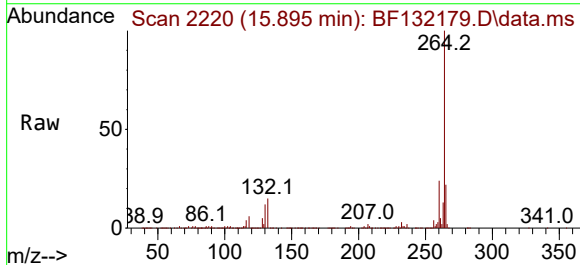
Instrument :
BNA_F
ClientSampleId :
B-P36A

Tgt Ion:244 Resp: 2172272
Ion Ratio Lower Upper
244 100
212 8.5 6.7 10.1
122 9.0 7.4 11.2



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.895 min Scan# 2220
Delta R.T. -0.006 min
Lab File: BF132179.D
Acq: 21 Jan 2023 00:56

Tgt Ion:264 Resp: 393144
Ion Ratio Lower Upper
264 100
260 23.9 19.1 28.7
265 21.9 17.4 26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
 Data File : BF132179.D
 Acq On : 21 Jan 2023 00:56
 Operator : CG\JU
 Sample : 01233-04
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-P36A

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF132179.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.343	420	426	439	rVB	1692135	2149481	36.68%	5.371%
2	5.719	484	490	493	rBV	4474035	4803602	81.96%	12.003%
3	6.701	651	657	660	rBV	4175725	4981191	84.99%	12.447%
4	7.089	719	723	726	rBV	1406225	1126361	19.22%	2.815%
5	7.654	813	819	822	rBV	3371310	3279247	55.95%	8.194%
6	8.378	938	942	945	rBV	1594699	1424210	24.30%	3.559%
7	9.454	1120	1125	1128	rBV	6026489	5399355	92.13%	13.492%
8	10.142	1238	1242	1245	rBV	1923113	1638848	27.96%	4.095%
9	10.854	1360	1363	1367	rBV	394544	301690	5.15%	0.754%
10	10.936	1372	1377	1380	rBV	4301634	4053145	69.16%	10.128%
11	11.636	1492	1496	1500	rBV	2045925	1760281	30.03%	4.399%
12	12.148	1577	1583	1588	rBV	406136	376701	6.43%	0.941%
13	12.936	1713	1717	1728	rBV	114713	112076	1.91%	0.280%
14	13.036	1728	1734	1737	rBV2	113949	107749	1.84%	0.269%
15	13.236	1763	1768	1771	rBV	6070997	5860791	100.00%	14.645%
16	14.124	1915	1919	1929	rBV	140117	286045	4.88%	0.715%
17	14.301	1945	1949	1952	rBV	1406847	1293708	22.07%	3.233%
18	15.895	2214	2220	2230	rBV	783791	1065451	18.18%	2.662%

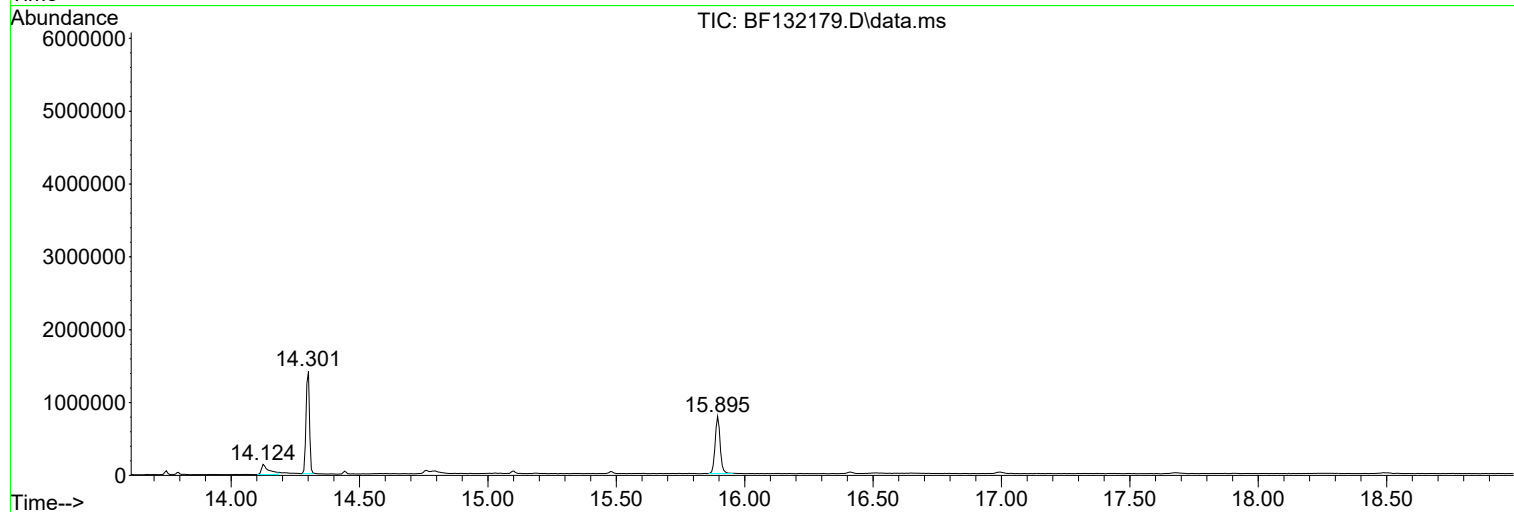
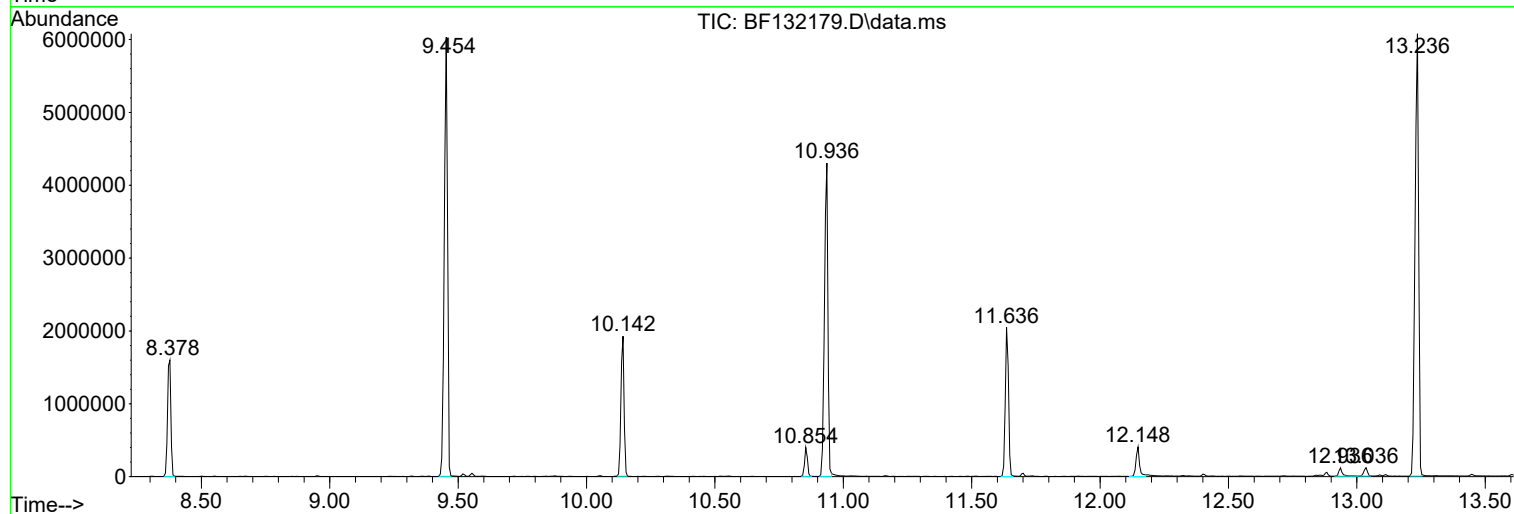
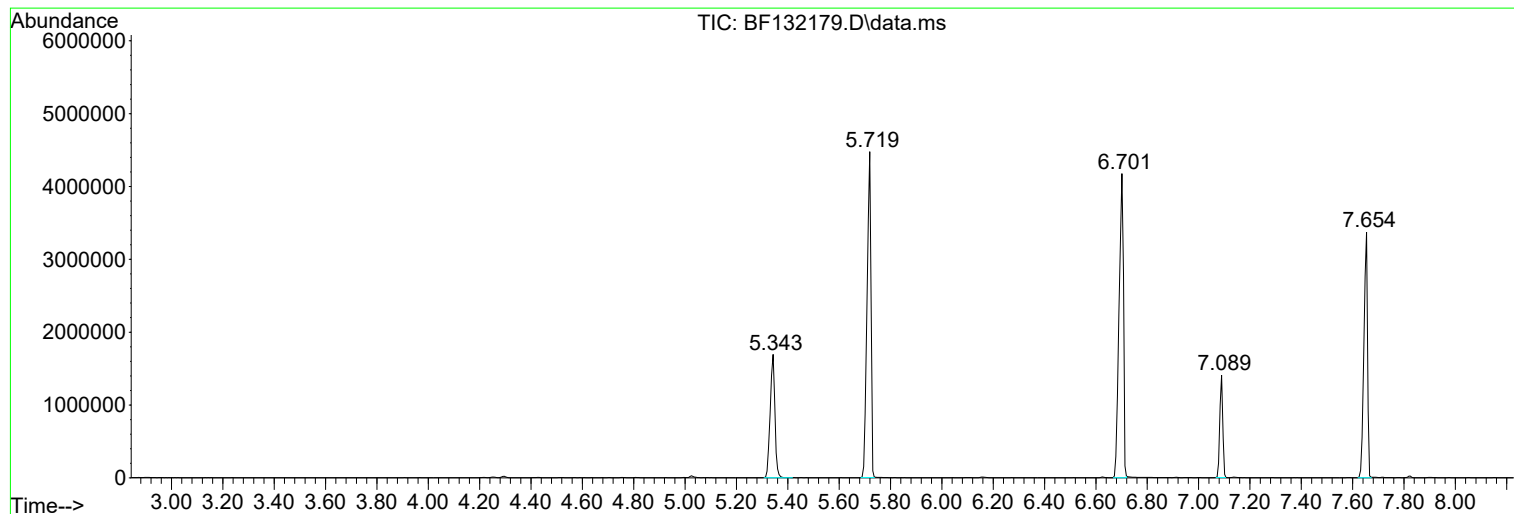
Sum of corrected areas: 40019932

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132179.D
Acq On : 21 Jan 2023 00:56
Operator : CG\JU
Sample : 01233-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P36A

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132179.D
Acq On : 21 Jan 2023 00:56
Operator : CG\JU
Sample : 01233-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P36A

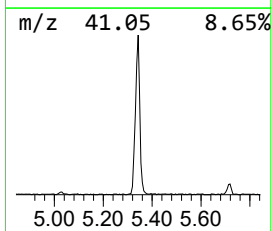
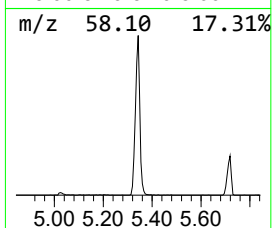
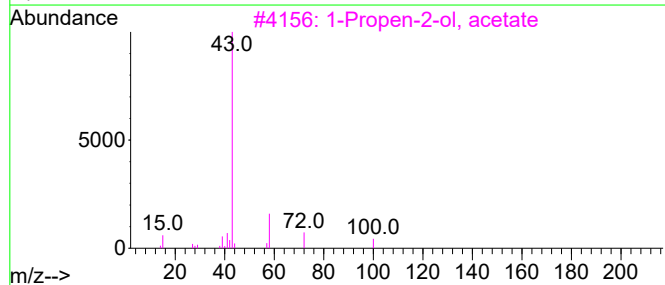
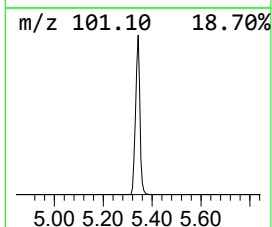
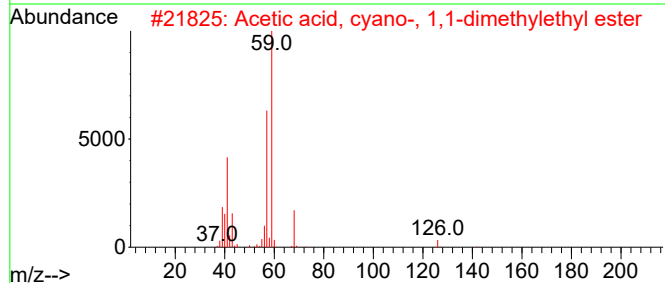
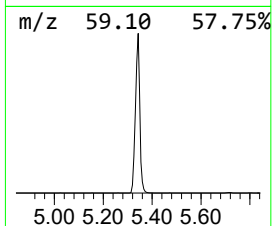
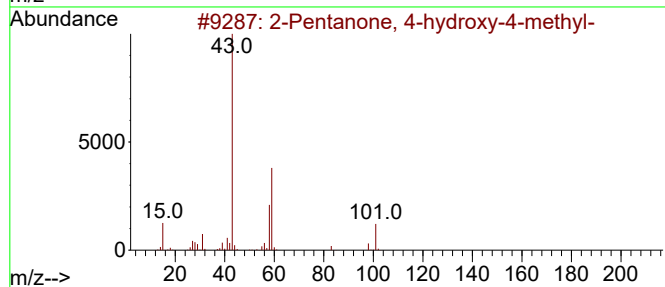
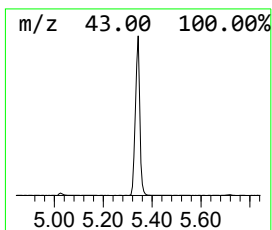
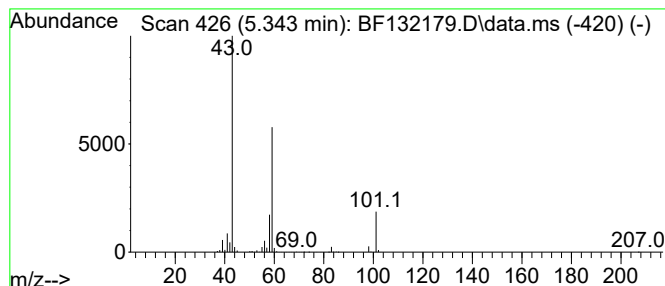
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.343	38.17 ng	2149480	1,4-Dichlorobenzene-d4	7.089

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59		
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	37		
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12		
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	10		
5	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	9		



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132179.D
Acq On : 21 Jan 2023 00:56
Operator : CG\JU
Sample : 01233-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P36A

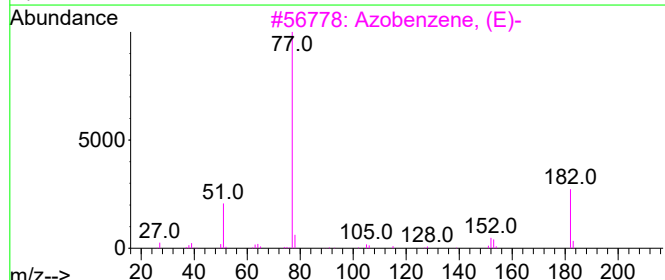
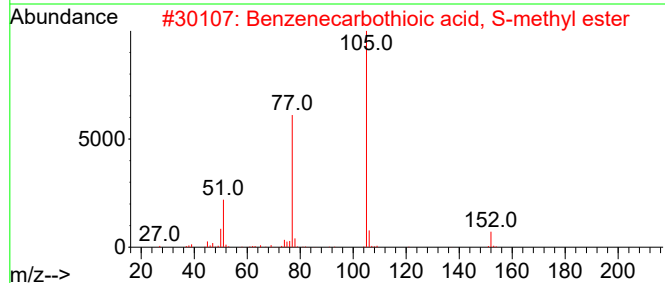
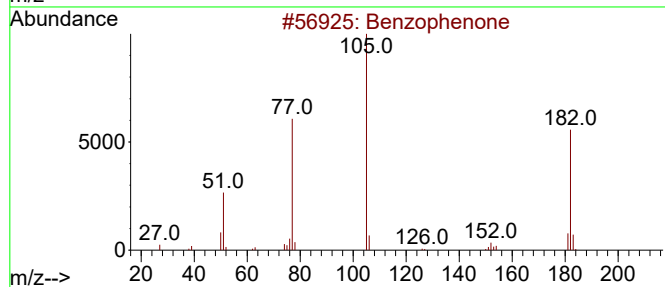
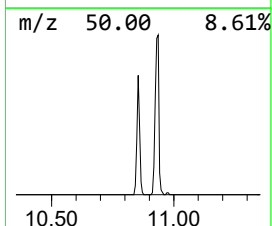
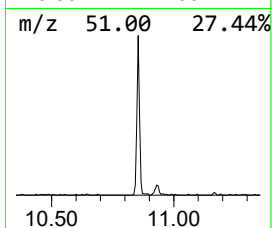
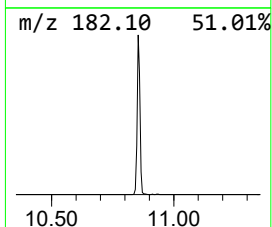
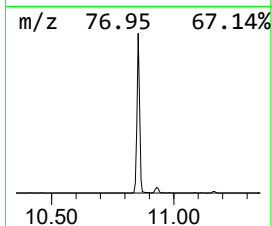
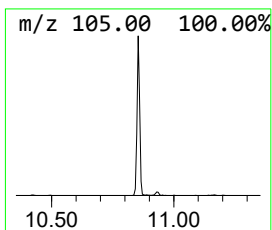
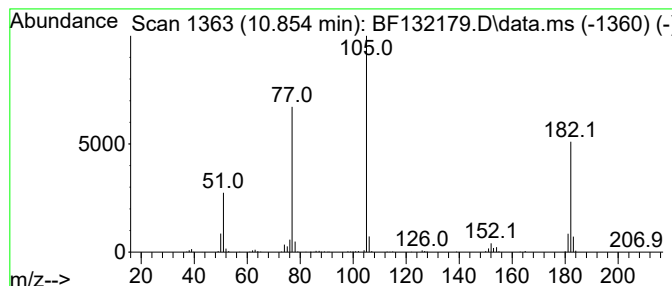
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 Benzophenone Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.854	3.68 ng	301690	Acenaphthene-d10	10.142

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	96
2			Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	58
3			Azobenzene, (E)-	182	C12H10N2	017082-12-1	50
4			Benzoic acid, 2-propenyl ester	162	C10H10O2	000583-04-0	47
5			Methyl 2-benzoyl-4-cyanobutanoate	231	C13H13NO3	1010486-83-8	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132179.D
Acq On : 21 Jan 2023 00:56
Operator : CG\JU
Sample : 01233-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P36A

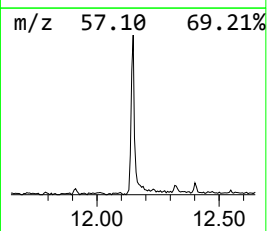
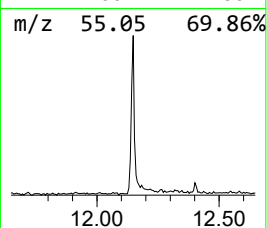
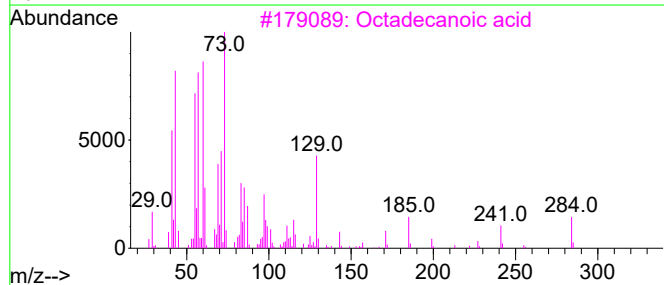
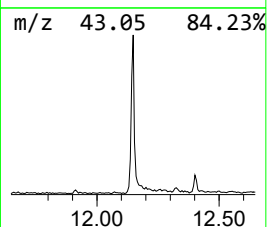
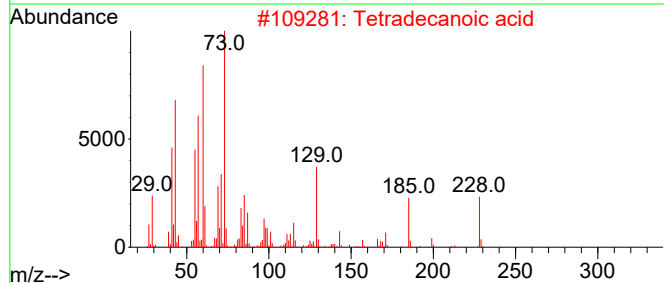
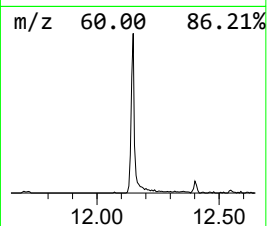
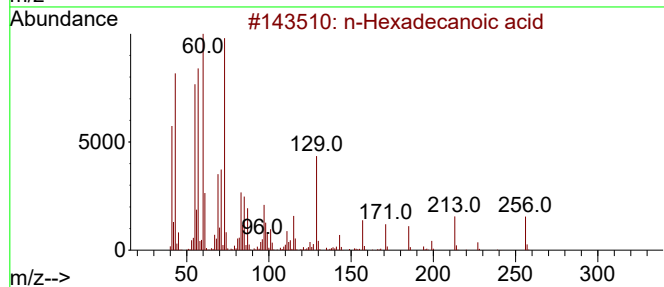
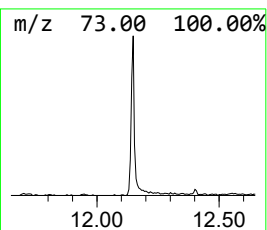
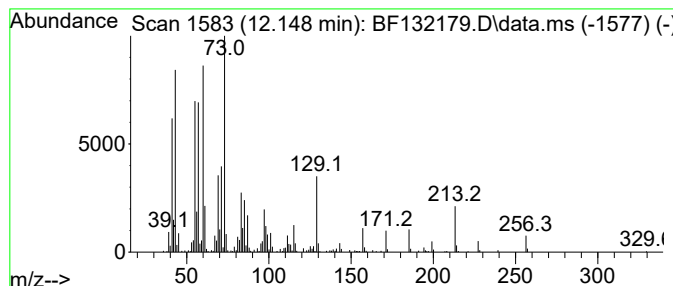
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.148	4.28 ng	376701	Phenanthrene-d10	11.636

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2			Tetradecanoic acid	228	C14H28O2	000544-63-8	91
3			Octadecanoic acid	284	C18H36O2	000057-11-4	87
4			Pentadecanoic acid	242	C15H30O2	001002-84-2	87
5			Tridecanoic acid	214	C13H26O2	000638-53-9	76



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132179.D
Acq On : 21 Jan 2023 00:56
Operator : CG\JU
Sample : 01233-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P36A

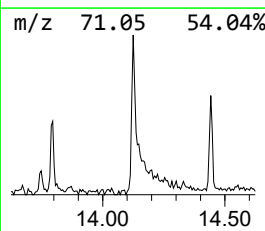
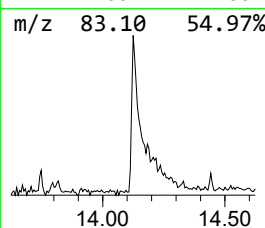
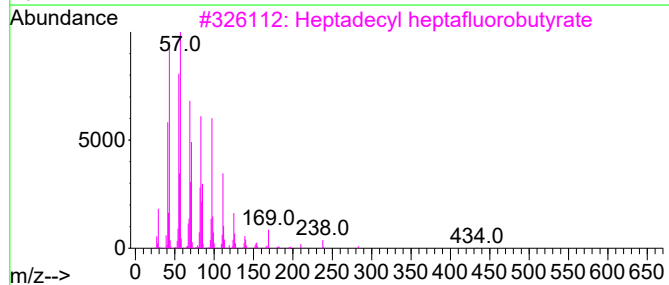
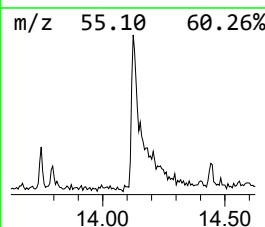
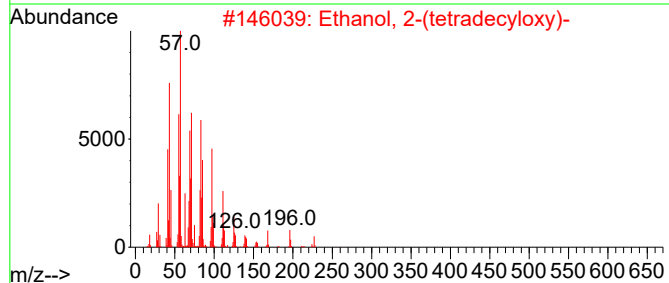
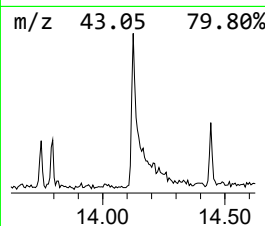
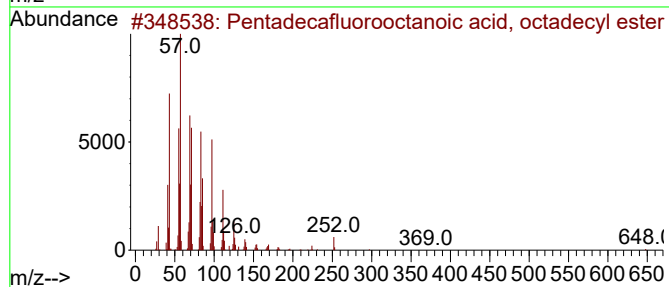
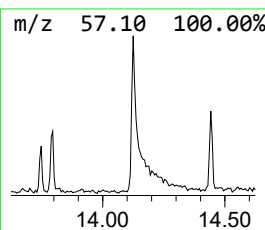
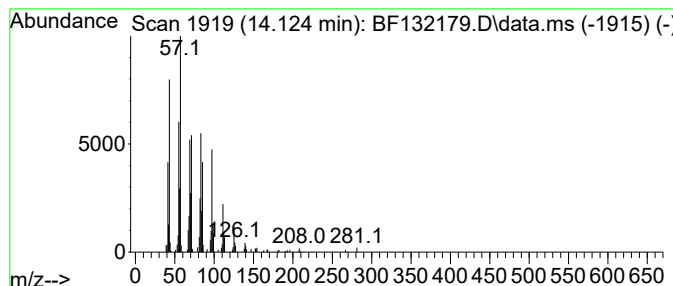
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 Pentadecafluorooctanoic aci... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.124	4.42 ng	286045	Chrysene-d12	14.301

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentadecafluorooctanoic acid, oc...	666	C26H37F15O2	1000406-04-8	93
2			Ethanol, 2-(tetradecyloxy)-	258	C16H34O2	002136-70-1	91
3			Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	90
4			Heneicosyl heptafluorobutyrate	508	C25H43F7O2	1000351-83-8	87
5			Pentafluoropropionic acid, tride...	346	C16H27F5O2	959261-22-4	81



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132179.D
Acq On : 21 Jan 2023 00:56
Operator : CG\JU
Sample : 01233-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P36A

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
2-Pentanone, 4-...	5.343	38.2	ng	2149480	1	7.089	1126360	20.0
Benzophenone	10.854	3.7	ng	301690	3	10.142	1638850	20.0
n-Hexadecanoic ...	12.148	4.3	ng	376701	4	11.636	1760280	20.0
Pentadecafluoro...	14.124	4.4	ng	286045	5	14.301	1293710	20.0



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P36B	SDG No.:	O1233
Lab Sample ID:	O1233-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.4
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF132180.D	1	01/20/23 12:30	01/21/23 01:28	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	160	U	160	360	ug/Kg
108-95-2	Phenol	74.9	U	74.9	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	88.8	U	88.8	190	ug/Kg
95-57-8	2-Chlorophenol	75.5	U	75.5	190	ug/Kg
95-48-7	2-Methylphenol	120	U	120	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	110	U	110	190	ug/Kg
98-86-2	Acetophenone	88.6	U	88.6	190	ug/Kg
65794-96-9	3+4-Methylphenols	110	U	110	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	84.2	U	84.2	88.5	ug/Kg
67-72-1	Hexachloroethane	81.5	U	81.5	190	ug/Kg
98-95-3	Nitrobenzene	81.7	U	81.7	190	ug/Kg
78-59-1	Isophorone	73.6	U	73.6	190	ug/Kg
88-75-5	2-Nitrophenol	100	U	100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	110	U	110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	120	U	120	190	ug/Kg
120-83-2	2,4-Dichlorophenol	90.3	U	90.3	190	ug/Kg
91-20-3	Naphthalene	81.7	U	81.7	190	ug/Kg
106-47-8	4-Chloroaniline	110	U	110	190	ug/Kg
87-68-3	Hexachlorobutadiene	110	U	110	190	ug/Kg
105-60-2	Caprolactam	110	U	110	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	87.0	U	87.0	190	ug/Kg
91-57-6	2-Methylnaphthalene	82.9	U	82.9	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	190	U	190	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	94.4	U	94.4	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	92.4	U	92.4	190	ug/Kg
92-52-4	1,1-Biphenyl	95.7	U	95.7	190	ug/Kg
91-58-7	2-Chloronaphthalene	94.5	U	94.5	190	ug/Kg
88-74-4	2-Nitroaniline	120	U	120	190	ug/Kg
131-11-3	Dimethylphthalate	89.5	U	89.5	190	ug/Kg
208-96-8	Acenaphthylene	76.0	U	76.0	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	86.4	U	86.4	190	ug/Kg



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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P36B	SDG No.:	O1233
Lab Sample ID:	O1233-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.4
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF132180.D	1	01/20/23 12:30	01/21/23 01:28	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	110	U	110	190	ug/Kg
83-32-9	Acenaphthene	87.2	U	87.2	190	ug/Kg
51-28-5	2,4-Dinitrophenol	140	U	140	360	ug/Kg
100-02-7	4-Nitrophenol	150	U	150	360	ug/Kg
132-64-9	Dibenzofuran	82.1	U	82.1	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	93.6	U	93.6	190	ug/Kg
84-66-2	Diethylphthalate	89.0	U	89.0	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	100	U	100	190	ug/Kg
86-73-7	Fluorene	87.1	U	87.1	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	95.3	U	95.3	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	90.9	U	90.9	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	110	U	110	190	ug/Kg
118-74-1	Hexachlorobenzene	120	U	120	190	ug/Kg
1912-24-9	Atrazine	99.5	U	99.5	190	ug/Kg
87-86-5	Pentachlorophenol	130	U	130	360	ug/Kg
85-01-8	Phenanthrene	92.4	U	92.4	190	ug/Kg
120-12-7	Anthracene	92.9	U	92.9	190	ug/Kg
86-74-8	Carbazole	93.1	U	93.1	190	ug/Kg
84-74-2	Di-n-butylphthalate	96.2	U	96.2	190	ug/Kg
206-44-0	Fluoranthene	88.2	U	88.2	190	ug/Kg
129-00-0	Pyrene	82.1	U	82.1	190	ug/Kg
85-68-7	Butylbenzylphthalate	91.5	U	91.5	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	150	U	150	360	ug/Kg
56-55-3	Benzo(a)anthracene	96.0	U	96.0	190	ug/Kg
218-01-9	Chrysene	94.5	U	94.5	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	98.0	U	98.0	190	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	76.3	U	76.3	190	ug/Kg
207-08-9	Benzo(k)fluoranthene	81.4	U	81.4	190	ug/Kg
50-32-8	Benzo(a)pyrene	74.9	U	74.9	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	110	U	110	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	110	U	110	190	ug/Kg



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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P36B	SDG No.:	O1233
Lab Sample ID:	O1233-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.4
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF132180.D	1	01/20/23 12:30	01/21/23 01:28	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	110	U	110	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	100	U	100	190	ug/Kg
123-91-1	1,4-Dioxane	98.5	U	98.5	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	89.8	U	89.8	190	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	87.7		18 - 112	58%	SPK: 150
13127-88-3	Phenol-d6	98.6		21 - 104	66%	SPK: 150
4165-60-0	Nitrobenzene-d5	69.2		27 - 109	69%	SPK: 100
321-60-8	2-Fluorobiphenyl	57.5		30 - 103	58%	SPK: 100
118-79-6	2,4,6-Tribromophenol	80.4		10 - 121	54%	SPK: 150
1718-51-0	Terphenyl-d14	61.3		21 - 107	61%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	179000	7.09
1146-65-2	Naphthalene-d8	646000	8.378
15067-26-2	Acenaphthene-d10	349000	10.142
1517-22-2	Phenanthrene-d10	668000	11.636
1719-03-5	Chrysene-d12	443000	14.301
1520-96-3	Perylene-d12	381000	15.895

TENTATIVE IDENTIFIED COMPOUNDS

000763-93-9	3-Hexen-2-one	79.3	J	4.75	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	1400	AB	5.34	ug/Kg
000119-61-9	Benzophenone	99.2	J	10.9	ug/Kg
1000406-04-8	Pentadecafluorooctanoic acid, octa	95.8	J	14.1	ug/Kg

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
 Data File : BF132180.D
 Acq On : 21 Jan 2023 01:28
 Operator : CG\JU
 Sample : 01233-05
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-P36B

Quant Time: Jan 21 03:59:24 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 00:50:42 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.090	152	179392	20.000	ng	0.00
21) Naphthalene-d8	8.378	136	645668	20.000	ng	0.00
39) Acenaphthene-d10	10.142	164	348624	20.000	ng	0.00
64) Phenanthrene-d10	11.636	188	667878	20.000	ng	0.00
76) Chrysene-d12	14.301	240	443182	20.000	ng	0.00
86) Perylene-d12	15.895	264	380998	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.713	112	900211	87.661	ng	0.00
7) Phenol-d6	6.701	99	1274103	98.561	ng	0.00
23) Nitrobenzene-d5	7.648	82	840482	69.152	ng	0.00
42) 2,4,6-Tribromophenol	10.930	330	299533	80.437	ng	0.00
45) 2-Fluorobiphenyl	9.454	172	1372571	57.530	ng	0.00
79) Terphenyl-d14	13.230	244	1620801	61.262	ng	0.00

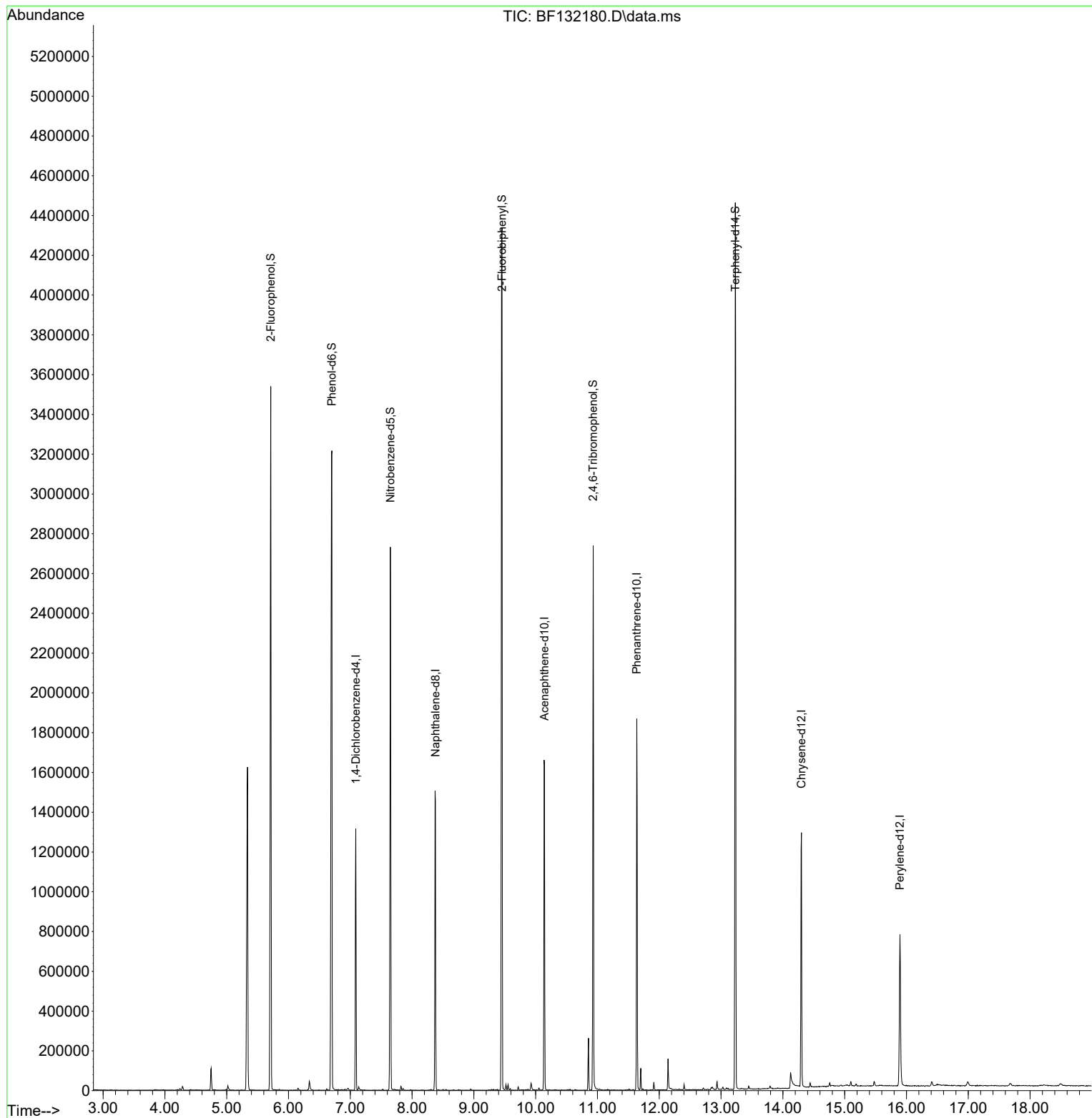
Target Compounds	Qvalue

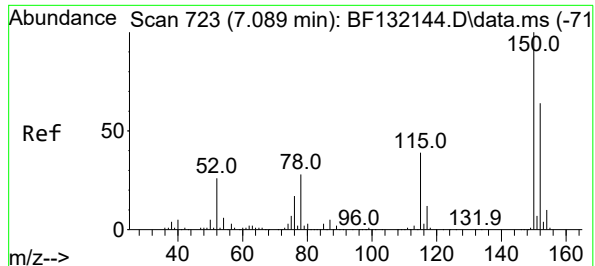
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132180.D
Acq On : 21 Jan 2023 01:28
Operator : CG\JU
Sample : 01233-05
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P36B

Quant Time: Jan 21 03:59:24 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 20 00:50:42 2023
Response via : Initial Calibration

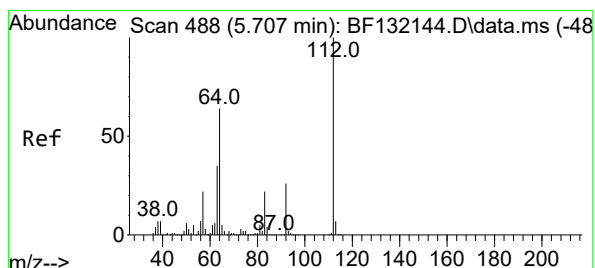
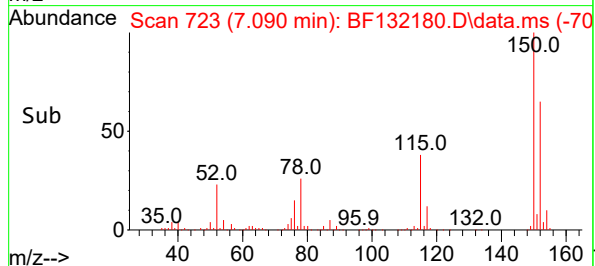
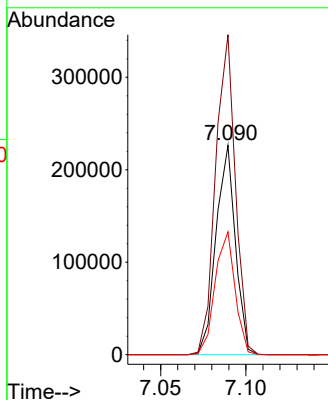
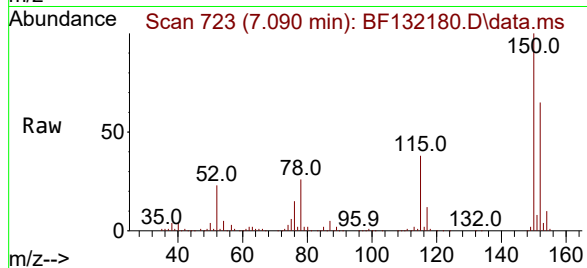




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.090 min Scan# 71
Delta R.T. 0.000 min
Lab File: BF132180.D
Acq: 21 Jan 2023 01:28

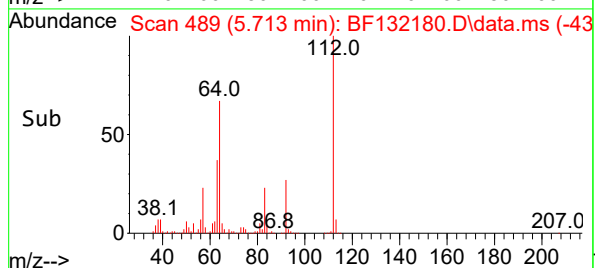
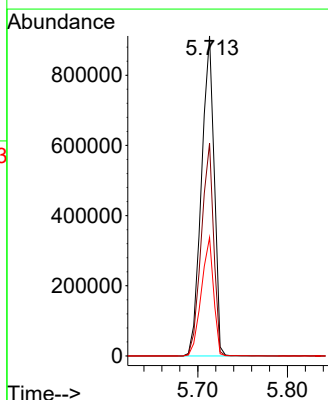
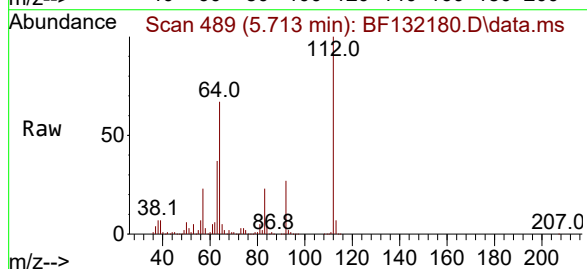
Instrument :
BNA_F
ClientSampleId :
B-P36B

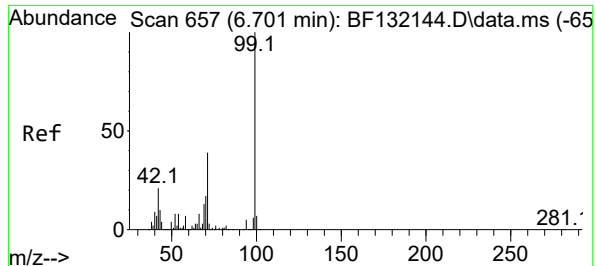
Tgt Ion:152 Resp: 179392
Ion Ratio Lower Upper
152 100
150 152.9 125.8 188.8
115 58.7 49.2 73.8



#5
2-Fluorophenol
Concen: 87.661 ng
RT: 5.713 min Scan# 489
Delta R.T. 0.006 min
Lab File: BF132180.D
Acq: 21 Jan 2023 01:28

Tgt Ion:112 Resp: 900211
Ion Ratio Lower Upper
112 100
64 66.5 51.4 77.0
63 37.0 28.2 42.2

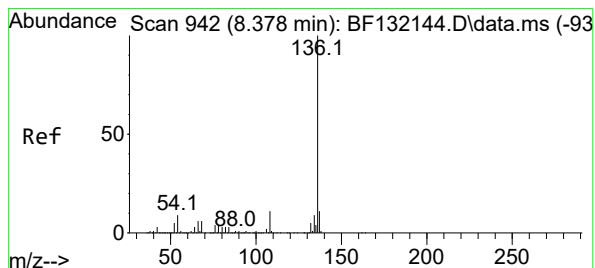
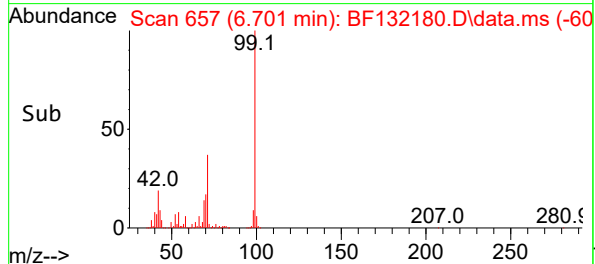
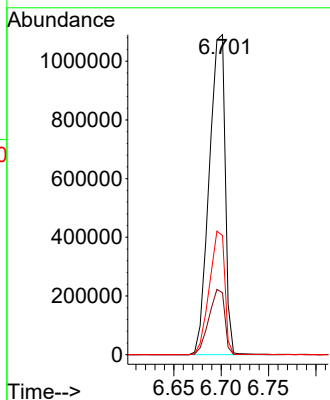
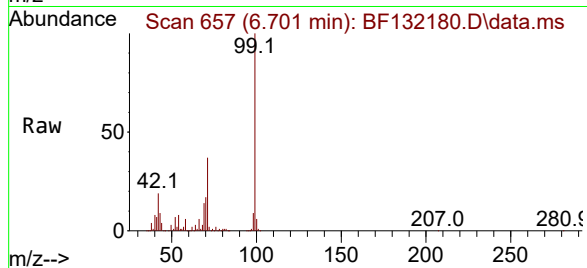




#7
Phenol-d6
Concen: 98.561 ng
RT: 6.701 min Scan# 657
Delta R.T. 0.000 min
Lab File: BF132180.D
Acq: 21 Jan 2023 01:28

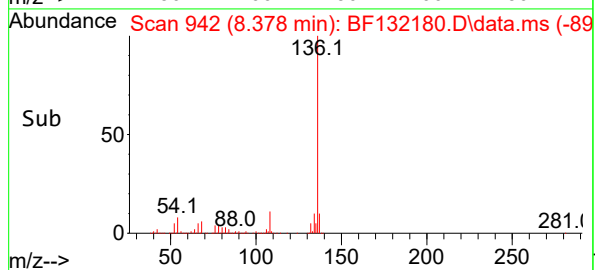
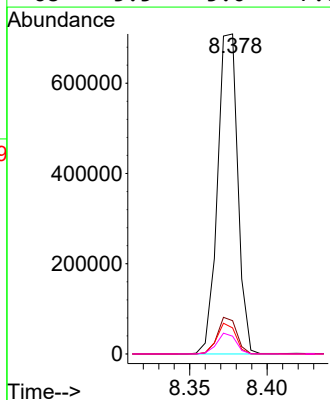
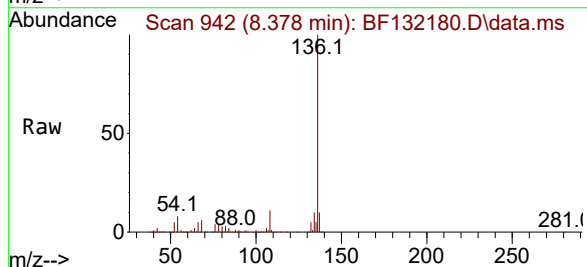
Instrument :
BNA_F
ClientSampleId :
B-P36B

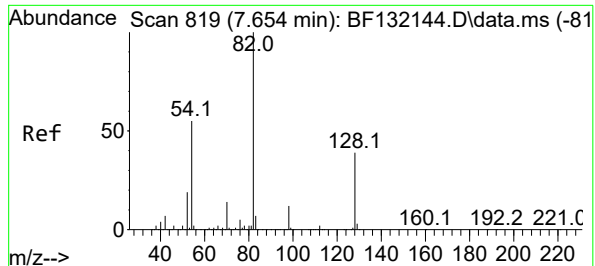
Tgt Ion: 99 Resp: 1274103
Ion Ratio Lower Upper
99 100
42 19.4 16.6 24.8
71 37.2 30.8 46.2



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.378 min Scan# 942
Delta R.T. -0.000 min
Lab File: BF132180.D
Acq: 21 Jan 2023 01:28

Tgt Ion: 136 Resp: 645668
Ion Ratio Lower Upper
136 100
137 10.4 8.9 13.3
54 8.1 7.0 10.6
68 5.5 5.0 7.6





#23

Nitrobenzene-d5

Concen: 69.152 ng

RT: 7.648 min Scan# 81

Delta R.T. -0.006 min

Lab File: BF132180.D

Acq: 21 Jan 2023 01:28

Instrument :

BNA_F

ClientSampleId :

B-P36B

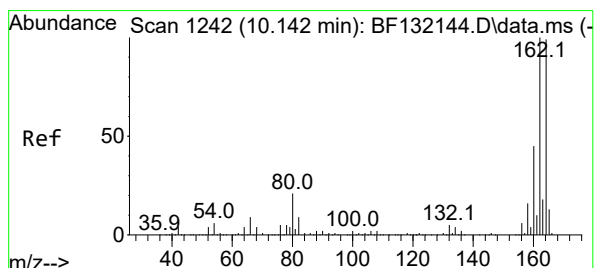
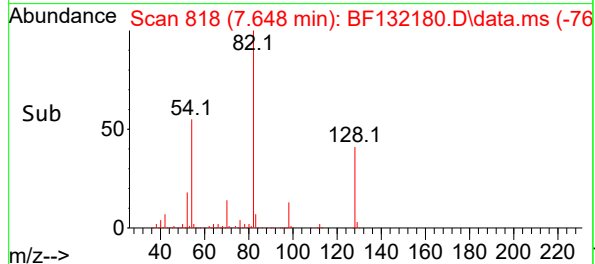
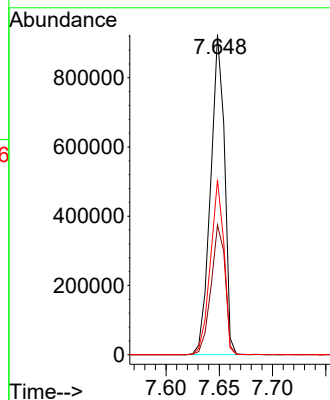
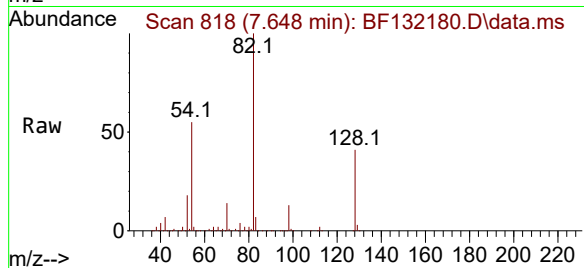
Tgt Ion: 82 Resp: 840482

Ion Ratio Lower Upper

82 100

128 40.5 31.1 46.7

54 54.7 43.9 65.9



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.142 min Scan# 1242

Delta R.T. 0.000 min

Lab File: BF132180.D

Acq: 21 Jan 2023 01:28

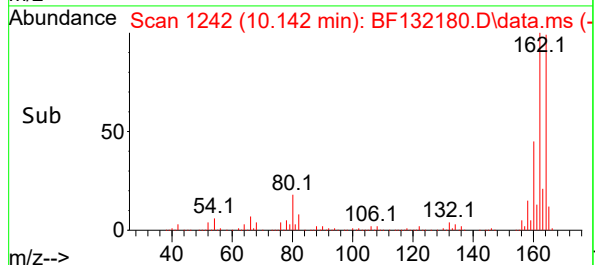
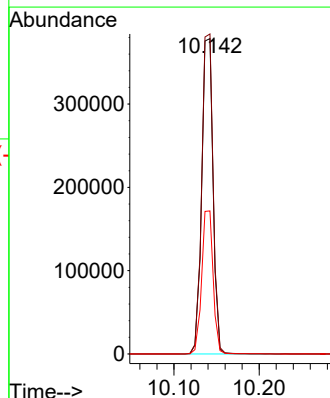
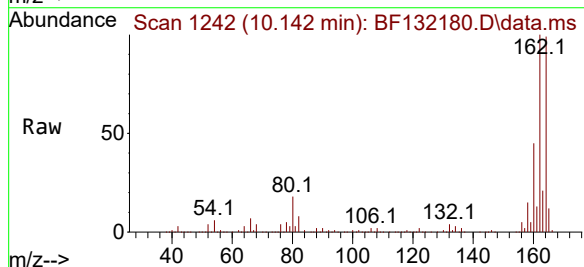
Tgt Ion:164 Resp: 348624

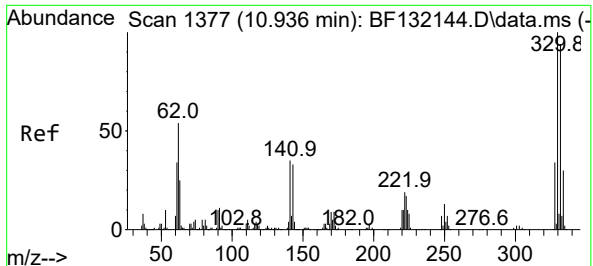
Ion Ratio Lower Upper

164 100

162 101.5 81.2 121.8

160 45.4 36.9 55.3





#42

2,4,6-Tribromophenol

Concen: 80.437 ng

RT: 10.930 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF132180.D

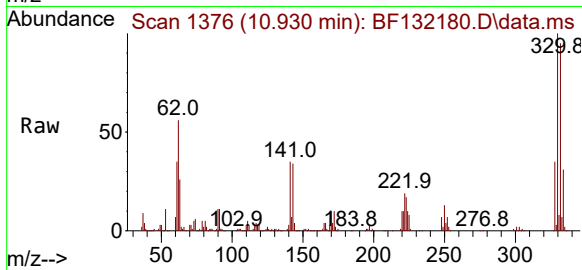
Acq: 21 Jan 2023 01:28

Instrument :

BNA_F

ClientSampleId :

B-P36B



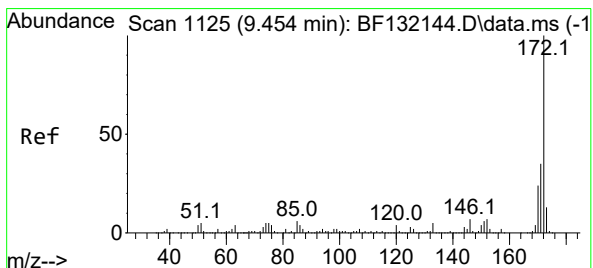
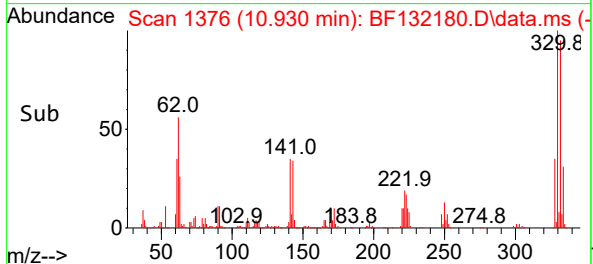
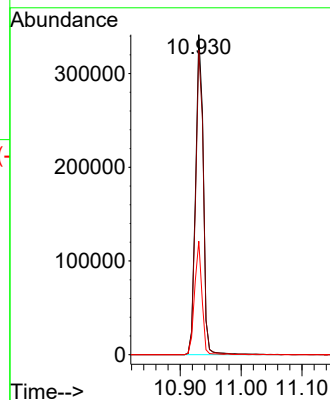
Tgt Ion:330 Resp: 299533

Ion Ratio Lower Upper

330 100

332 95.6 75.6 113.4

141 33.5 27.1 40.7



#45

2-Fluorobiphenyl

Concen: 57.530 ng

RT: 9.454 min Scan# 1125

Delta R.T. 0.000 min

Lab File: BF132180.D

Acq: 21 Jan 2023 01:28

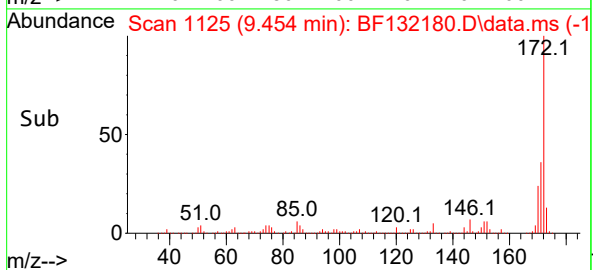
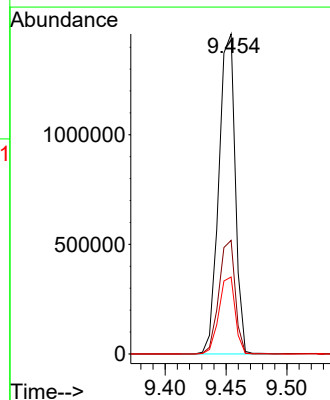
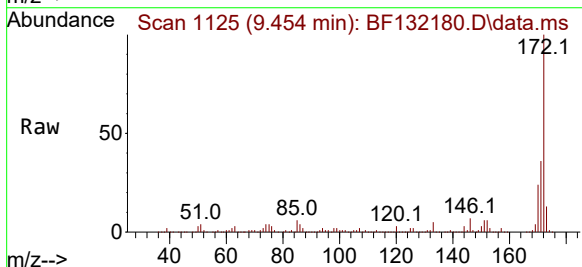
Tgt Ion:172 Resp: 1372571

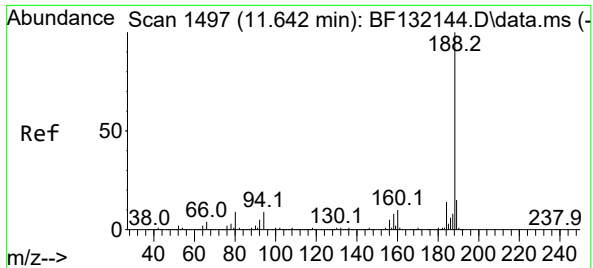
Ion Ratio Lower Upper

172 100

171 35.5 28.2 42.2

170 24.1 19.6 29.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.636 min Scan# 1496

Delta R.T. -0.006 min

Lab File: BF132180.D

Acq: 21 Jan 2023 01:28

Instrument :

BNA_F

ClientSampleId :

B-P36B

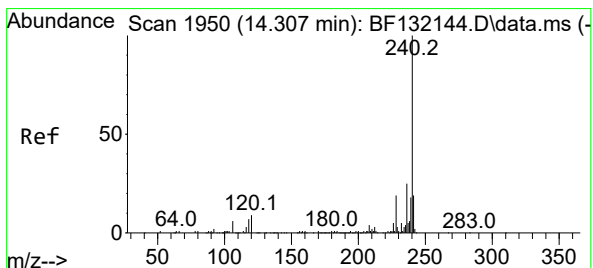
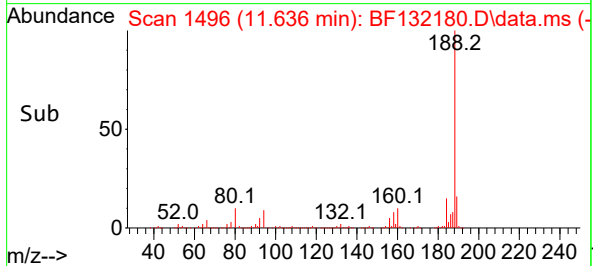
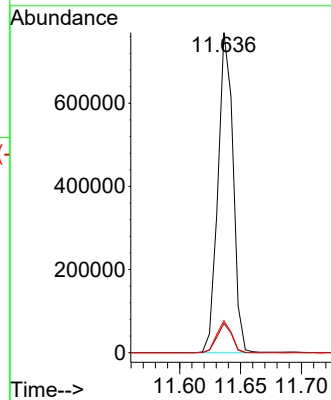
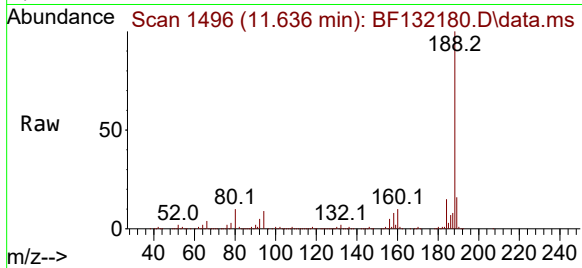
Tgt Ion:188 Resp: 667878

Ion Ratio Lower Upper

188 100

94 9.2 6.9 10.3

80 10.0 7.5 11.3



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.301 min Scan# 1949

Delta R.T. -0.006 min

Lab File: BF132180.D

Acq: 21 Jan 2023 01:28

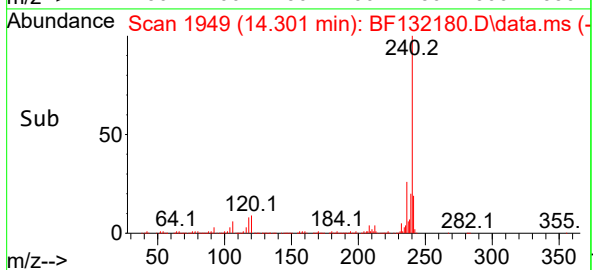
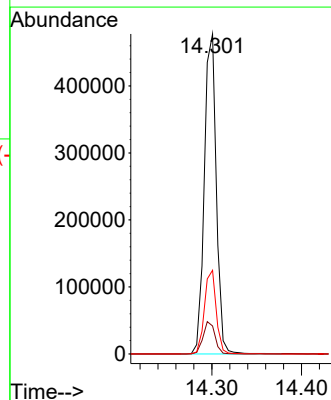
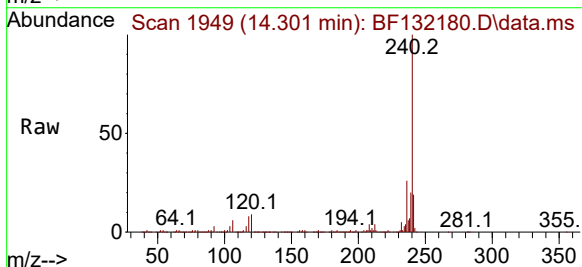
Tgt Ion:240 Resp: 443182

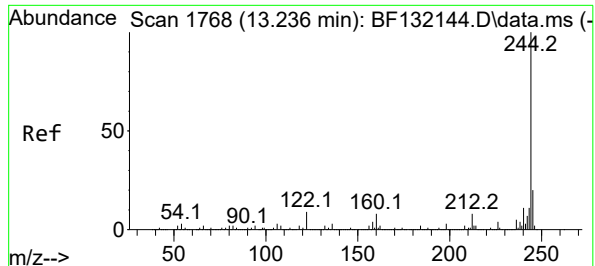
Ion Ratio Lower Upper

240 100

120 8.7 6.9 10.3

236 26.2 20.3 30.5





#79

Terphenyl-d14

Concen: 61.262 ng

RT: 13.230 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF132180.D

Acq: 21 Jan 2023 01:28

Instrument :

BNA_F

ClientSampleId :

B-P36B

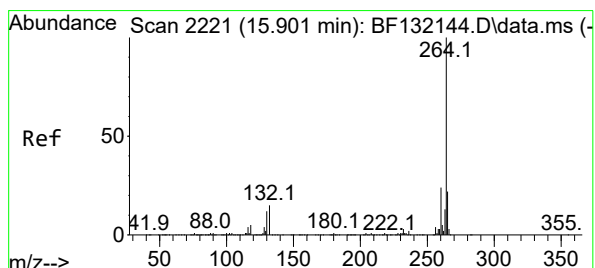
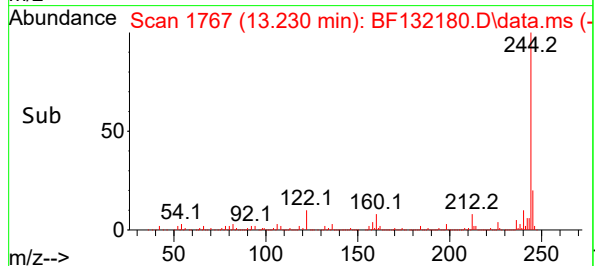
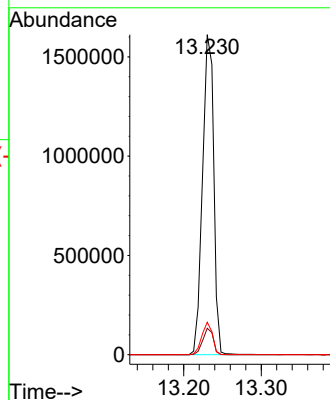
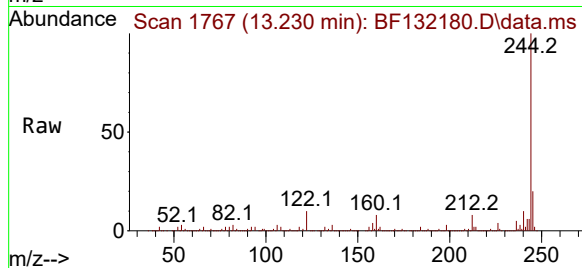
Tgt Ion:244 Resp: 1620801

Ion Ratio Lower Upper

244 100

212 8.2 6.7 10.1

122 10.1 7.4 11.2



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.895 min Scan# 2220

Delta R.T. -0.006 min

Lab File: BF132180.D

Acq: 21 Jan 2023 01:28

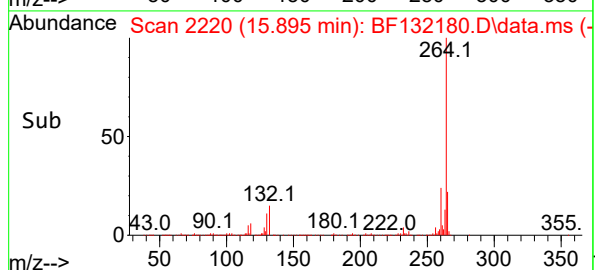
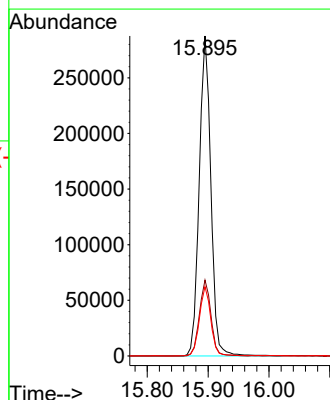
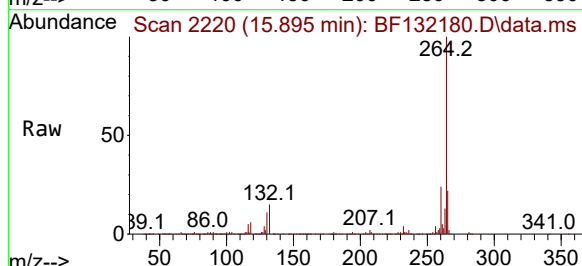
Tgt Ion:264 Resp: 380998

Ion Ratio Lower Upper

264 100

260 23.7 19.1 28.7

265 21.7 17.4 26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
 Data File : BF132180.D
 Acq On : 21 Jan 2023 01:28
 Operator : CG\JU
 Sample : 01233-05
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-P36B

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF132180.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.748	321	325	331	rVB	109623	115974	2.68%	0.375%
2	5.337	419	425	435	rVB	1623943	1992472	46.03%	6.439%
3	5.713	484	489	492	rBV	3536104	3388532	78.28%	10.951%
4	6.337	592	595	601	rVB	43664	52863	1.22%	0.171%
5	6.701	651	657	660	rBV	3214803	3757902	86.82%	12.144%
6	7.090	719	723	726	rBV	1314430	1077976	24.90%	3.484%
7	7.648	813	818	821	rBV	2730066	2471515	57.10%	7.987%
8	8.372	938	941	945	rVB	1500925	1343099	31.03%	4.340%
9	9.454	1120	1125	1128	rBV	4335422	4134281	95.51%	13.361%
10	10.136	1238	1241	1245	rBV	1656645	1535169	35.47%	4.961%
11	10.854	1359	1363	1366	rBV	261916	206428	4.77%	0.667%
12	10.930	1372	1376	1379	rBV	2737317	2313946	53.46%	7.478%
13	11.636	1492	1496	1500	rBV	1866321	1610864	37.21%	5.206%
14	11.701	1504	1507	1510	rVB	108625	85028	1.96%	0.275%
15	12.142	1577	1582	1588	rBV	156516	136744	3.16%	0.442%
16	13.230	1763	1767	1771	rBV	4456950	4328627	100.00%	13.989%
17	14.124	1916	1919	1927	rBV	80775	155258	3.59%	0.502%
18	14.301	1945	1949	1952	rBV	1274477	1196032	27.63%	3.865%
19	15.895	2214	2220	2236	rVB	761300	1040982	24.05%	3.364%

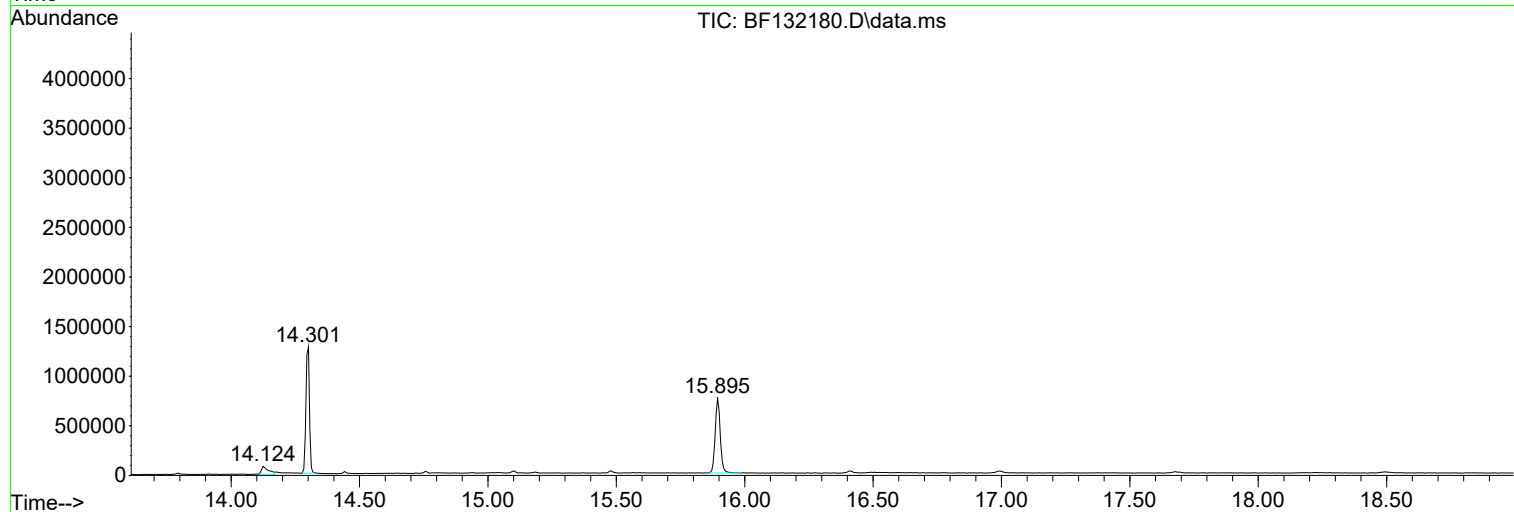
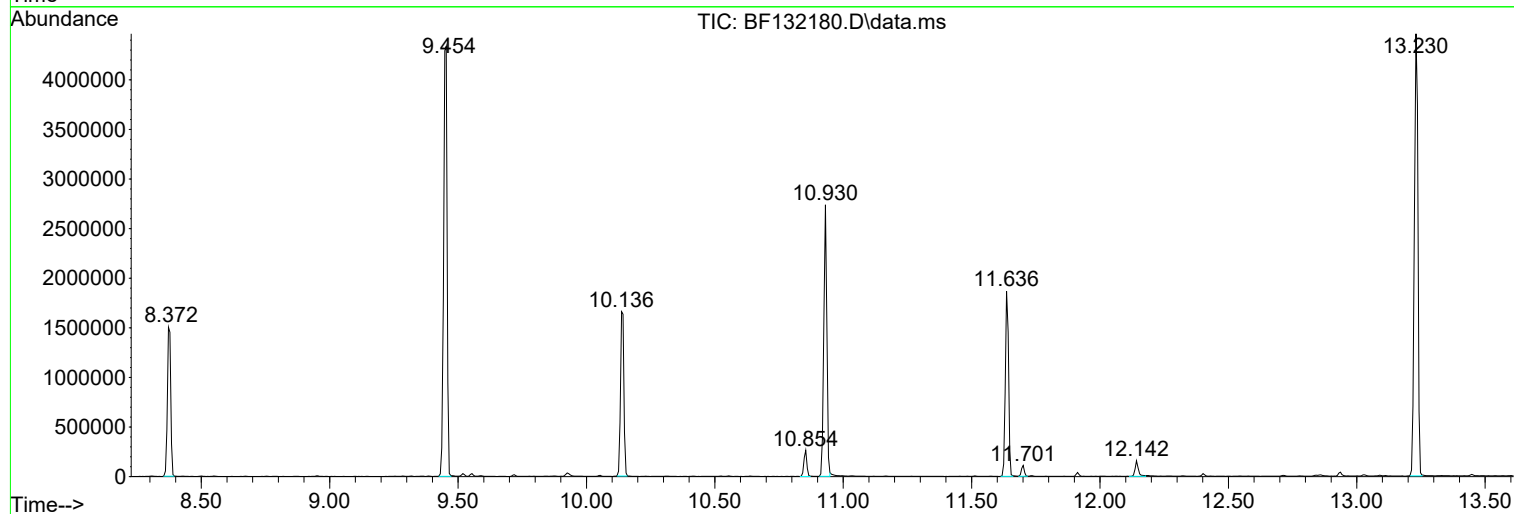
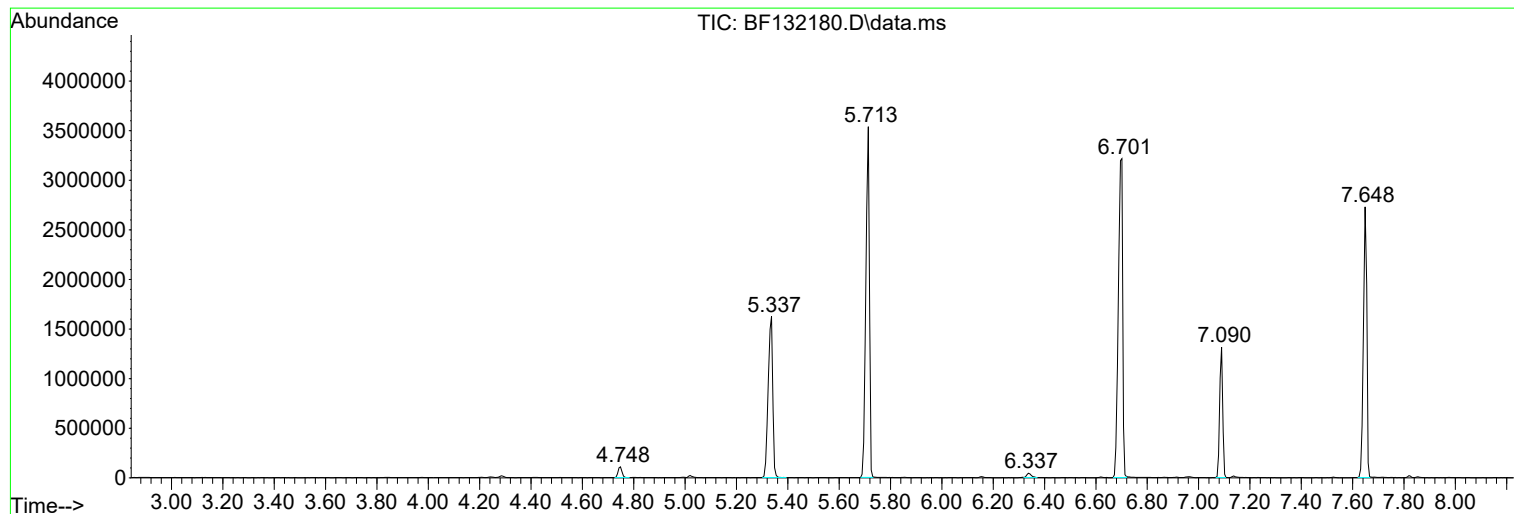
Sum of corrected areas: 30943692

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132180.D
Acq On : 21 Jan 2023 01:28
Operator : CG\JU
Sample : 01233-05
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P36B

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132180.D
Acq On : 21 Jan 2023 01:28
Operator : CG\JU
Sample : 01233-05
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P36B

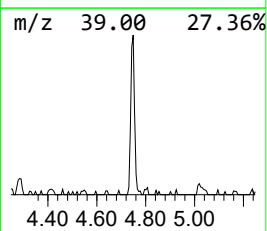
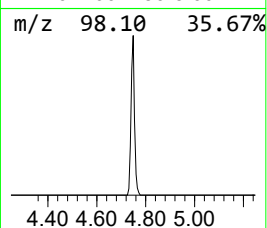
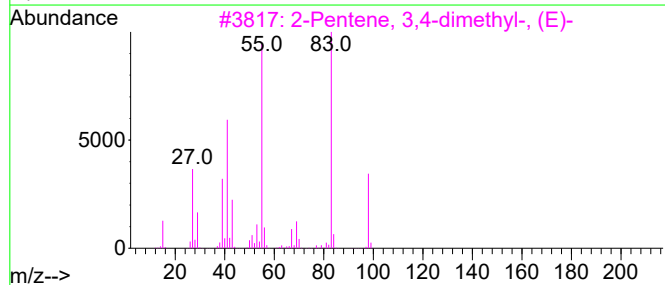
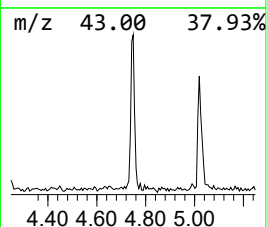
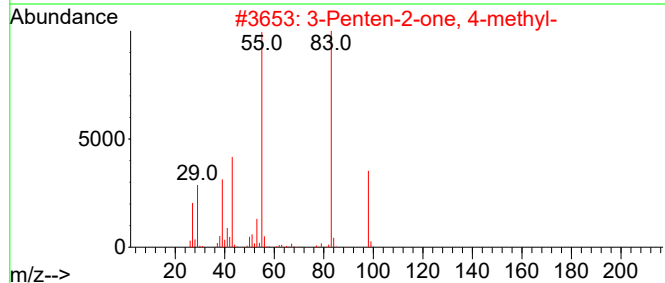
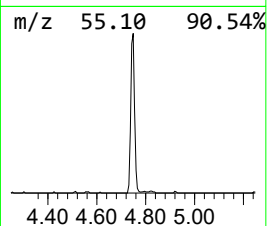
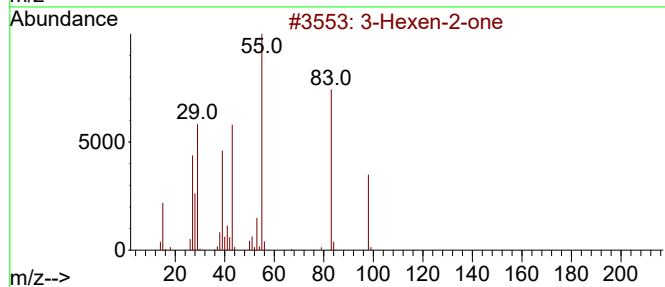
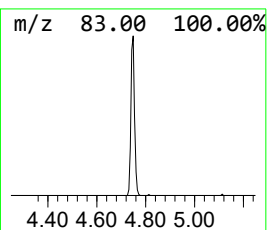
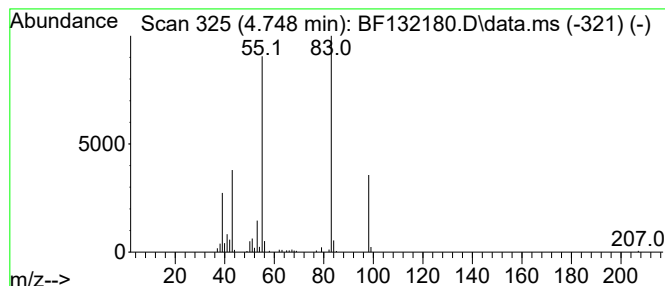
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 3-Hexen-2-one Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.748	2.15 ng	115974	1,4-Dichlorobenzene-d4	7.090

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			3-Hexen-2-one	98	C6H10O	000763-93-9	91
2			3-Penten-2-one, 4-methyl-	98	C6H10O	000141-79-7	91
3			2-Pentene, 3,4-dimethyl-, (E)-	98	C7H14	004914-92-5	90
4			2-Pentene, 3,4-dimethyl-, (Z)-	98	C7H14	004914-91-4	86
5			2-Pentene, 2,4-dimethyl-	98	C7H14	000625-65-0	80



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132180.D
Acq On : 21 Jan 2023 01:28
Operator : CG\JU
Sample : 01233-05
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P36B

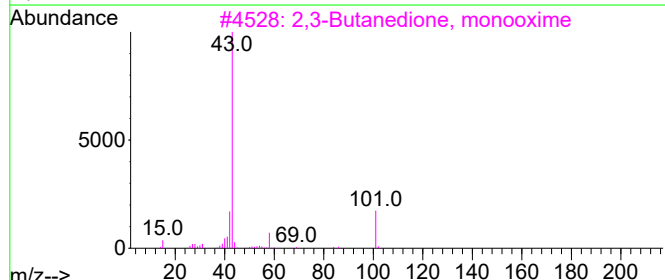
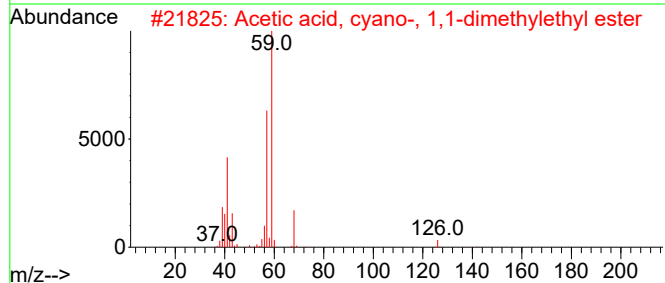
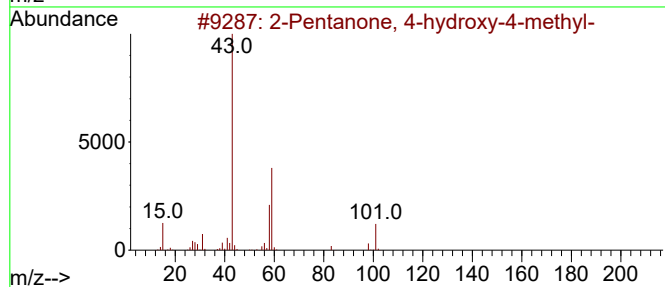
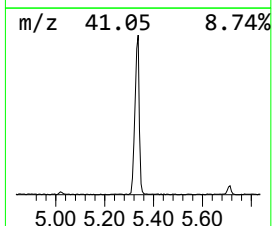
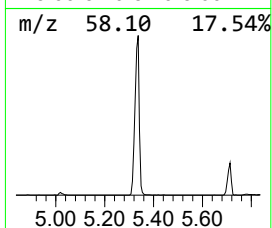
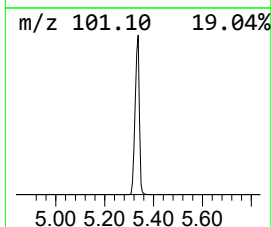
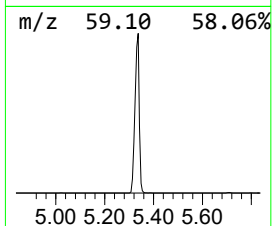
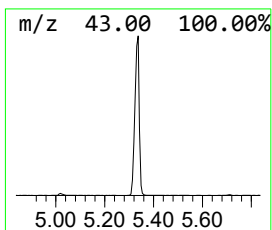
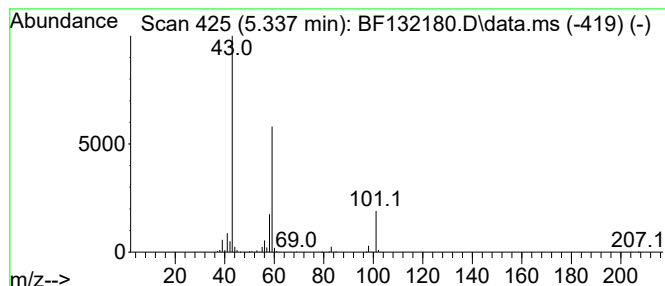
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.337	36.97 ng	1992470	1,4-Dichlorobenzene-d4	7.090

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2			Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	32
3			2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	12
4			1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
5			Acetone	58	C3H6O	000067-64-1	10



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132180.D
Acq On : 21 Jan 2023 01:28
Operator : CG\JU
Sample : 01233-05
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P36B

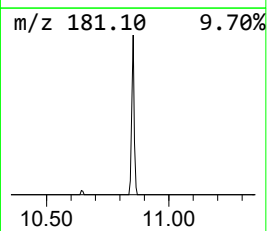
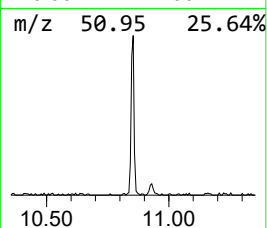
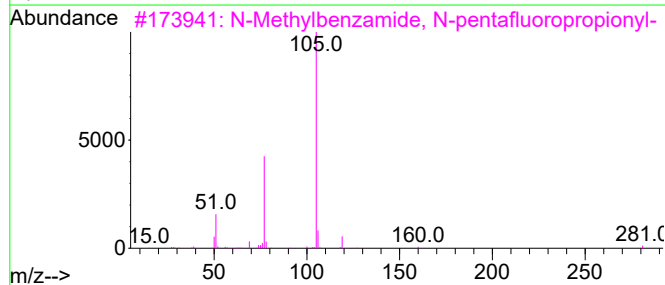
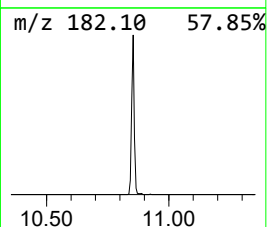
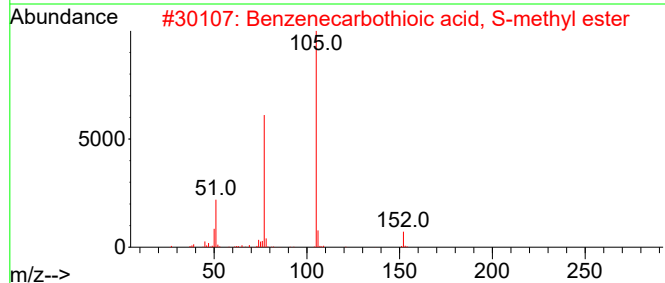
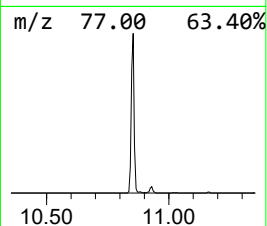
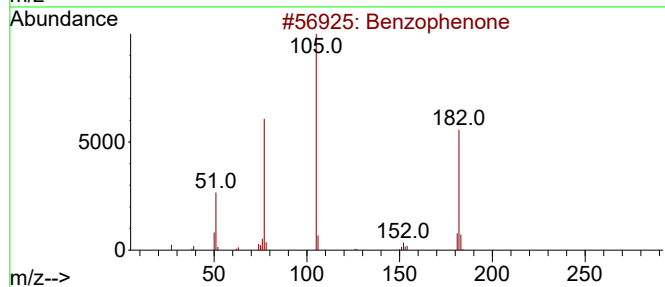
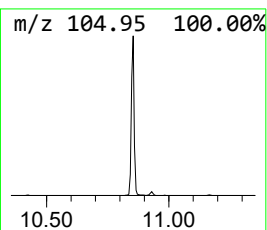
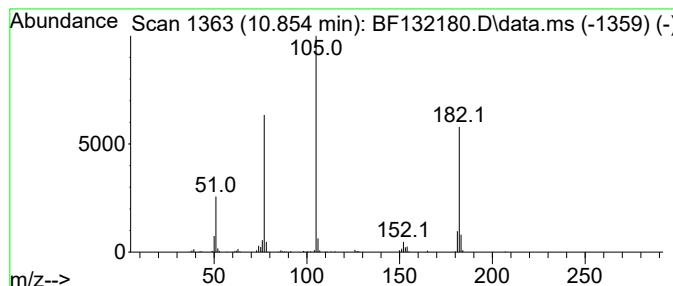
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.854	2.69 ng	206428	Acenaphthene-d10	10.142

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	96
2			Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	49
3			N-Methylbenzamide, N-pentafluoro...	281	C11H8F5NO2	1000446-98-1	47
4			1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	47
5			N-Methylbenzamide, N-trifluoroac...	231	C10H8F3NO2	1000446-91-5	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132180.D
Acq On : 21 Jan 2023 01:28
Operator : CG\JU
Sample : 01233-05
Misc :
ALS Vial : 18 Sample Multiplier: 1

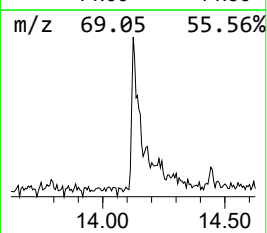
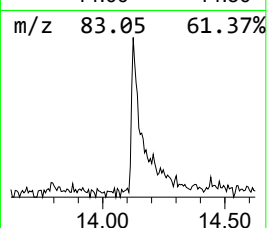
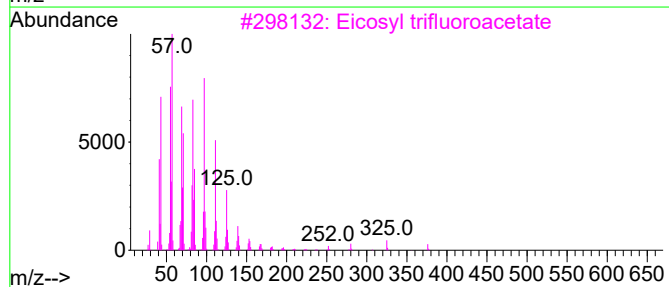
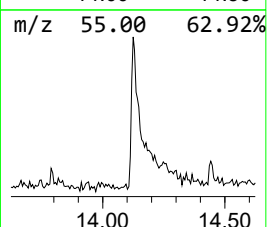
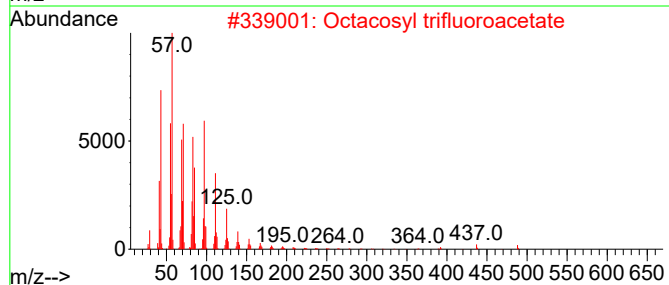
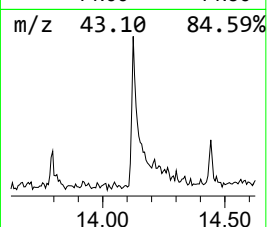
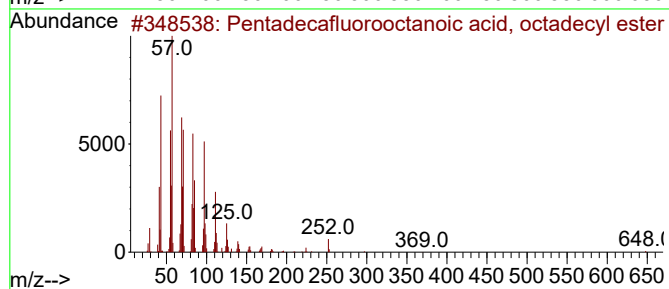
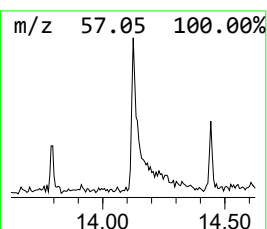
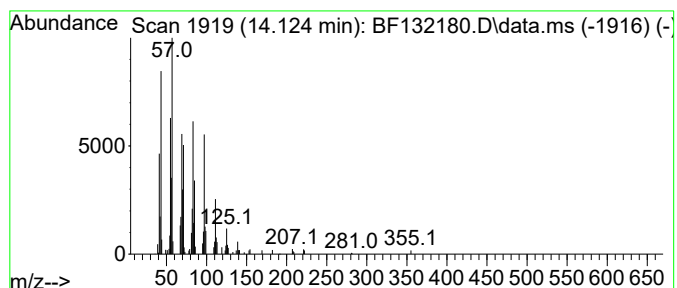
Instrument :
BNA_F
ClientSampleId :
B-P36B

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 Pentadecafluorooctanoic aci... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.	
14.124	2.60 ng	155258	Chrysene-d12	14.301	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecafluorooctanoic acid, oc...	666	C26H37F15O2	1000406-04-8	94
2	Octacosyl trifluoroacetate	506	C30H57F3O2	1000351-74-9	91
3	Eicosyl trifluoroacetate	394	C22H41F3O2	1000351-75-2	91
4	1-Hexadecanesulfonyl chloride	324	C16H33ClO2S	038775-38-1	91
5	Eicosyl heptafluorobutyrate	494	C24H41F7O2	1000351-83-5	91



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132180.D
Acq On : 21 Jan 2023 01:28
Operator : CG\JU
Sample : 01233-05
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P36B

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
3-Hexen-2-one	4.748	2.1	ng	115974	1	7.090	1077980	20.0
2-Pentanone, 4-...	5.337	37.0	ng	1992470	1	7.090	1077980	20.0
Benzophenone	10.854	2.7	ng	206428	3	10.142	1535170	20.0
Pentadecafluoro...	14.124	2.6	ng	155258	5	14.301	1196030	20.0



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P37A	SDG No.:	O1233
Lab Sample ID:	O1233-06	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	87.9
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG056390.D	1	01/20/23 12:30	01/23/23 19:09	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	160	U	160	370	ug/Kg
108-95-2	Phenol	76.9	U	76.9	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	91.2	U	91.2	190	ug/Kg
95-57-8	2-Chlorophenol	77.6	U	77.6	190	ug/Kg
95-48-7	2-Methylphenol	120	U	120	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	110	U	110	190	ug/Kg
98-86-2	Acetophenone	91.0	U	91.0	190	ug/Kg
65794-96-9	3+4-Methylphenols	110	U	110	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	86.5	U	86.5	90.9	ug/Kg
67-72-1	Hexachloroethane	83.7	U	83.7	190	ug/Kg
98-95-3	Nitrobenzene	84.0	U	84.0	190	ug/Kg
78-59-1	Isophorone	75.7	U	75.7	190	ug/Kg
88-75-5	2-Nitrophenol	110	U	110	190	ug/Kg
105-67-9	2,4-Dimethylphenol	110	U	110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	120	U	120	190	ug/Kg
120-83-2	2,4-Dichlorophenol	92.8	U	92.8	190	ug/Kg
91-20-3	Naphthalene	84.0	U	84.0	190	ug/Kg
106-47-8	4-Chloroaniline	110	U	110	190	ug/Kg
87-68-3	Hexachlorobutadiene	110	U	110	190	ug/Kg
105-60-2	Caprolactam	110	U	110	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	89.4	U	89.4	190	ug/Kg
91-57-6	2-Methylnaphthalene	85.2	U	85.2	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	200	U	200	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	97.0	U	97.0	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	95.0	U	95.0	190	ug/Kg
92-52-4	1,1-Biphenyl	98.3	U	98.3	190	ug/Kg
91-58-7	2-Chloronaphthalene	97.1	U	97.1	190	ug/Kg
88-74-4	2-Nitroaniline	120	U	120	190	ug/Kg
131-11-3	Dimethylphthalate	91.9	U	91.9	190	ug/Kg
208-96-8	Acenaphthylene	78.1	U	78.1	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	88.7	U	88.7	190	ug/Kg



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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P37A	SDG No.:	O1233
Lab Sample ID:	O1233-06	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	87.9
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG056390.D	1	01/20/23 12:30	01/23/23 19:09	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	110	U	110	190	ug/Kg
83-32-9	Acenaphthene	89.6	U	89.6	190	ug/Kg
51-28-5	2,4-Dinitrophenol	150	U	150	370	ug/Kg
100-02-7	4-Nitrophenol	160	U	160	370	ug/Kg
132-64-9	Dibenzofuran	84.3	U	84.3	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	96.1	U	96.1	190	ug/Kg
84-66-2	Diethylphthalate	91.5	U	91.5	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	110	U	110	190	ug/Kg
86-73-7	Fluorene	89.5	U	89.5	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	97.9	U	97.9	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	93.4	U	93.4	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	110	U	110	190	ug/Kg
118-74-1	Hexachlorobenzene	120	U	120	190	ug/Kg
1912-24-9	Atrazine	100	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	130	U	130	370	ug/Kg
85-01-8	Phenanthrene	120	J	95.0	190	ug/Kg
120-12-7	Anthracene	95.4	U	95.4	190	ug/Kg
86-74-8	Carbazole	95.7	U	95.7	190	ug/Kg
84-74-2	Di-n-butylphthalate	98.8	U	98.8	190	ug/Kg
206-44-0	Fluoranthene	220		90.7	190	ug/Kg
129-00-0	Pyrene	190		84.3	190	ug/Kg
85-68-7	Butylbenzylphthalate	94.0	U	94.0	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	160	U	160	370	ug/Kg
56-55-3	Benzo(a)anthracene	98.6	U	98.6	190	ug/Kg
218-01-9	Chrysene	110	J	97.1	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	110	J	100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	140	J	78.4	190	ug/Kg
207-08-9	Benzo(k)fluoranthene	83.6	U	83.6	190	ug/Kg
50-32-8	Benzo(a)pyrene	92.4	J	76.9	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	110	U	110	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	120	U	120	190	ug/Kg



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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P37A	SDG No.:	O1233
Lab Sample ID:	O1233-06	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	87.9
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG056390.D	1	01/20/23 12:30	01/23/23 19:09	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	110	U	110	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	100	U	100	190	ug/Kg
123-91-1	1,4-Dioxane	100	U	100	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	92.3	U	92.3	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	112		18 - 112	75%	SPK: 150
13127-88-3	Phenol-d6	102		21 - 104	68%	SPK: 150
4165-60-0	Nitrobenzene-d5	58.8		27 - 109	59%	SPK: 100
321-60-8	2-Fluorobiphenyl	63.1		30 - 103	63%	SPK: 100
118-79-6	2,4,6-Tribromophenol	101		10 - 121	67%	SPK: 150
1718-51-0	Terphenyl-d14	67.9		21 - 107	68%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	38500		8.296		
1146-65-2	Naphthalene-d8	156000		11.128		
15067-26-2	Acenaphthene-d10	129000		14.912		
1517-22-2	Phenanthrene-d10	336000		17.644		
1719-03-5	Chrysene-d12	299000		21.939		
1520-96-3	Perylene-d12	323000		25.37		
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	630	AB		5.34	ug/Kg
000119-61-9	Benzophenone	160	J		16.2	ug/Kg
	unknown21.522	110	J		21.5	ug/Kg

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG012323\
 Data File : BG056390.D
 Acq On : 23 Jan 2023 19:09
 Operator : CG/JU
 Sample : 01233-06
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 B-P37A

Quant Time: Jan 24 01:23:45 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 19 00:31:30 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

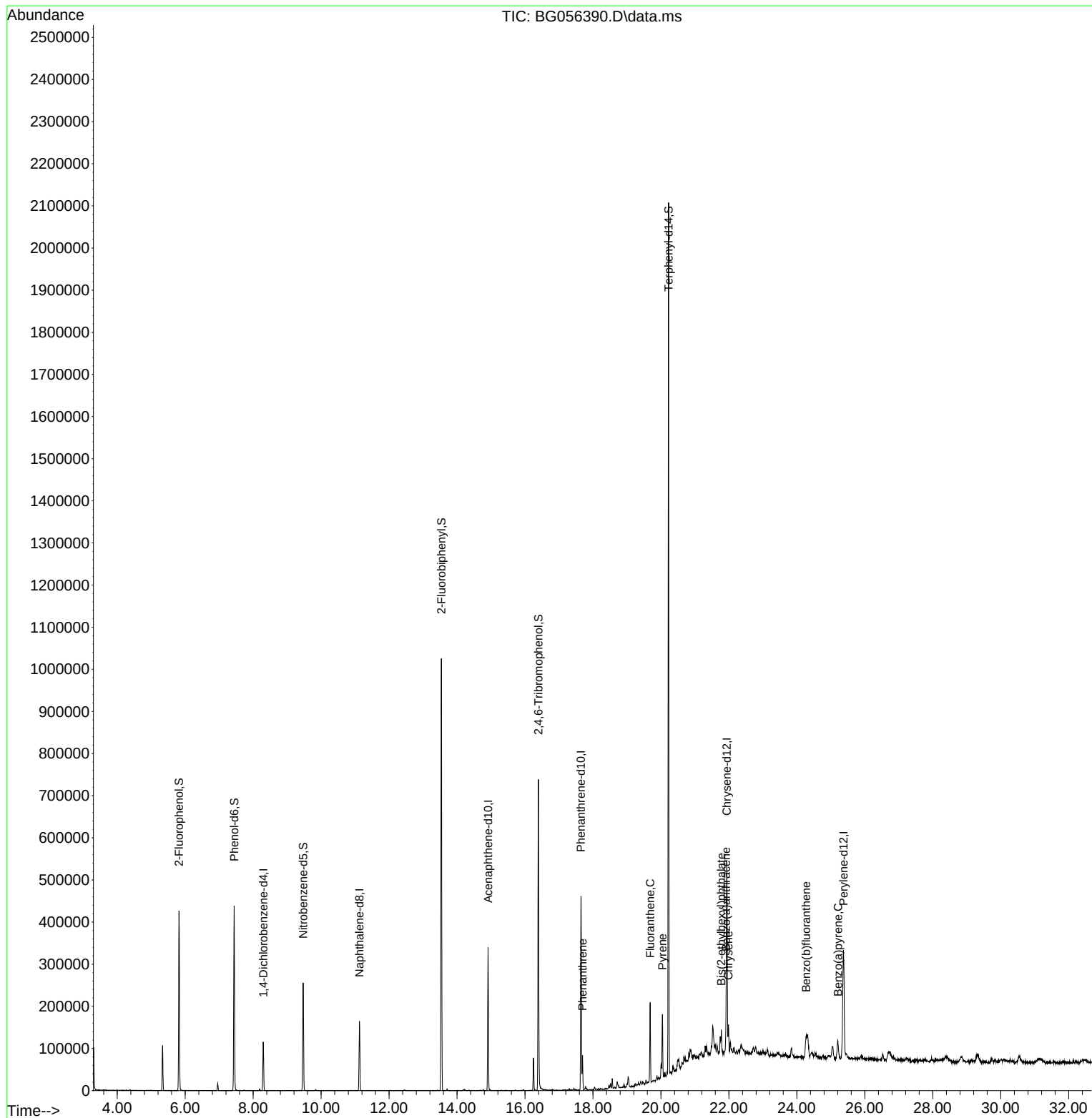
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.296	152	38461	20.000	ng	0.00
21) Naphthalene-d8	11.128	136	155511	20.000	ng	0.00
39) Acenaphthene-d10	14.912	164	129252	20.000	ng	0.00
64) Phenanthrene-d10	17.644	188	335669	20.000	ng	-0.02
76) Chrysene-d12	21.939	240	299254	20.000	ng	#-0.02
86) Perylene-d12	25.370	264	323323	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.817	112	241042	111.900	ng	0.00
7) Phenol-d6	7.438	99	338643	102.369	ng	0.00
23) Nitrobenzene-d5	9.471	82	178808	58.815	ng	-0.02
42) 2,4,6-Tribromophenol	16.393	330	165438	101.064	ng	0.00
45) 2-Fluorobiphenyl	13.537	172	590233	63.059	ng	0.00
79) Terphenyl-d14	20.223	244	1134737	67.915	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	17.691	178	54723	3.146	ng	98
75) Fluoranthene	19.683	202	131170	5.781	ng	99
78) Pyrene	20.041	202	103619	4.913	ng	98
81) Benzo(a)anthracene	21.916	228	50145	2.386	ng	98
83) Chrysene	21.986	228	56308	2.860	ng	98
84) Bis(2-ethylhexyl)phtha...	21.775	149	25154	2.885	ng	# 96
88) Benzo(b)fluoranthene	24.272	252	76181	3.708	ng	# 97
90) Benzo(a)pyrene	25.206	252	48873	2.439	ng	# 97

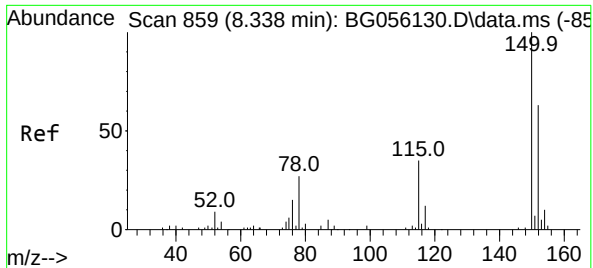
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG012323\
Data File : BG056390.D
Acq On : 23 Jan 2023 19:09
Operator : CG/JU
Sample : 01233-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
B-P37A

Quant Time: Jan 24 01:23:45 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 19 00:31:30 2023
Response via : Initial Calibration

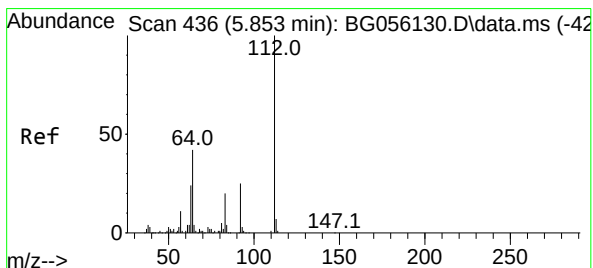
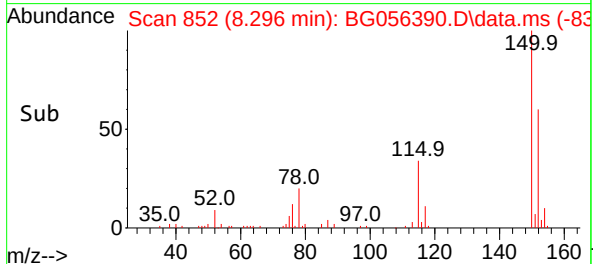
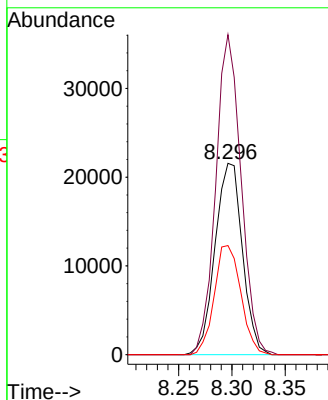
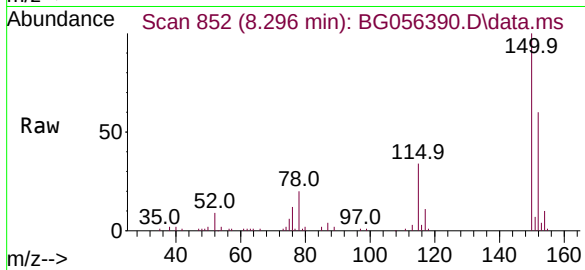




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.296 min Scan# 81
Delta R.T. -0.010 min
Lab File: BG056390.D
Acq: 23 Jan 2023 19:09

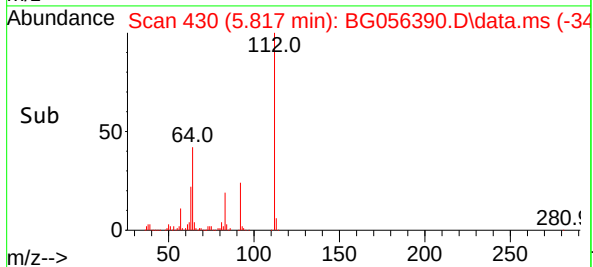
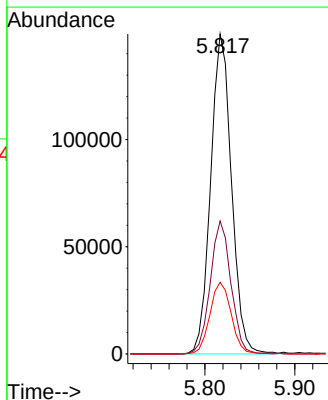
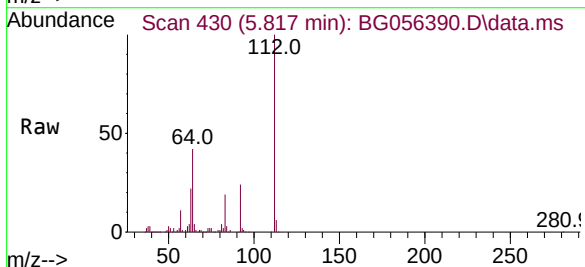
Instrument :
BNA_G
ClientSampleId :
B-P37A

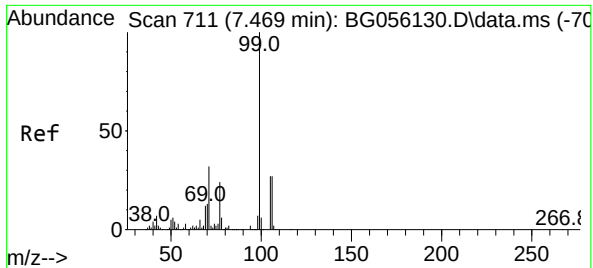
Tgt Ion:152 Resp: 38461
Ion Ratio Lower Upper
152 100
150 167.3 127.9 191.9
115 57.0 44.2 66.2



#5
2-Fluorophenol
Concen: 111.900 ng
RT: 5.817 min Scan# 430
Delta R.T. -0.010 min
Lab File: BG056390.D
Acq: 23 Jan 2023 19:09

Tgt Ion:112 Resp: 241042
Ion Ratio Lower Upper
112 100
64 41.5 33.3 49.9
63 22.4 19.0 28.4

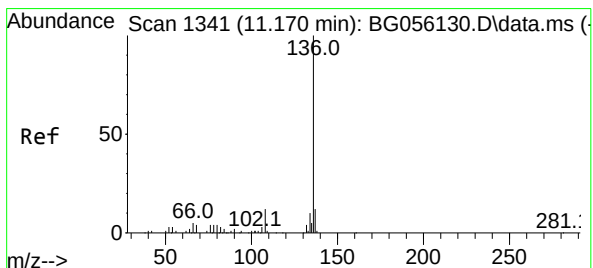
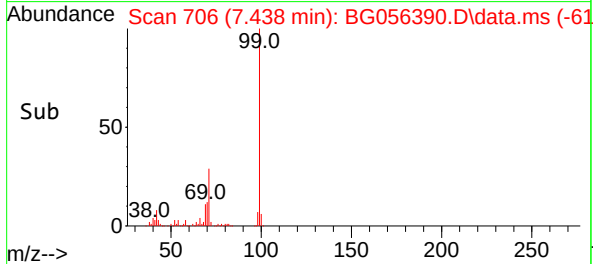
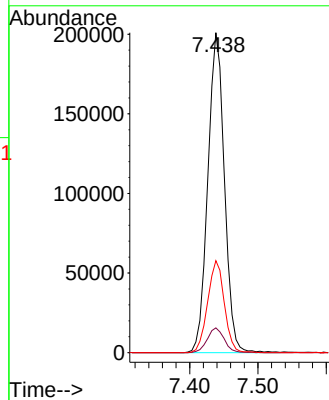
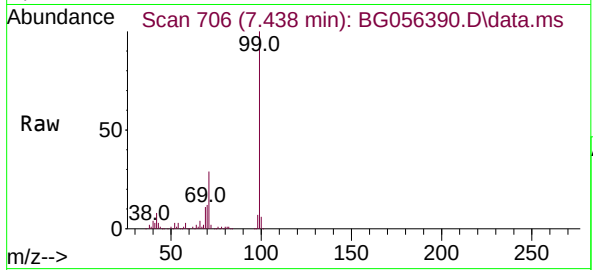




#7
Phenol-d6
Concen: 102.369 ng
RT: 7.438 min Scan# 70
Delta R.T. -0.010 min
Lab File: BG056390.D
Acq: 23 Jan 2023 19:09

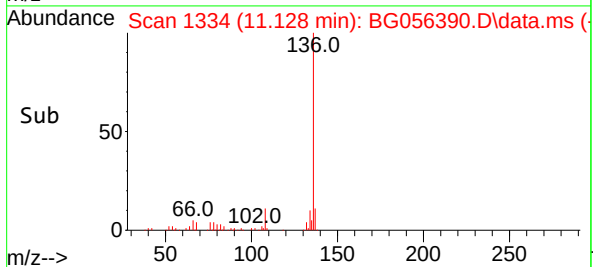
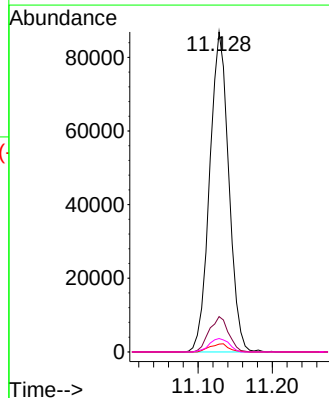
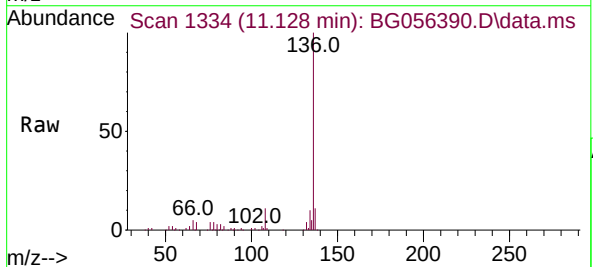
Instrument :
BNA_G
ClientSampleId :
B-P37A

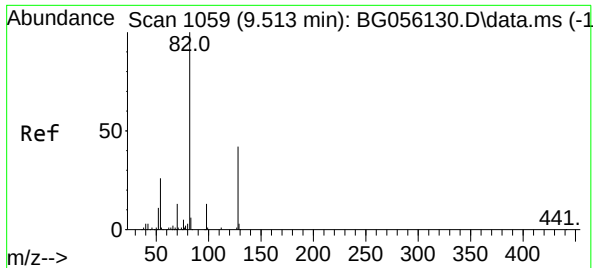
Tgt Ion: 99 Resp: 338643
Ion Ratio Lower Upper
99 100
42 7.7 5.9 8.9
71 28.7 25.4 38.2



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.128 min Scan# 1334
Delta R.T. -0.010 min
Lab File: BG056390.D
Acq: 23 Jan 2023 19:09

Tgt Ion: 136 Resp: 155511
Ion Ratio Lower Upper
136 100
137 11.0 9.4 14.0
54 2.4 2.2 3.2
68 4.2 3.4 5.0





#23

Nitrobenzene-d5

Concen: 58.815 ng

RT: 9.471 min Scan# 10

Delta R.T. -0.016 min

Lab File: BG056390.D

Acq: 23 Jan 2023 19:09

Instrument :

BNA_G

ClientSampleId :

B-P37A

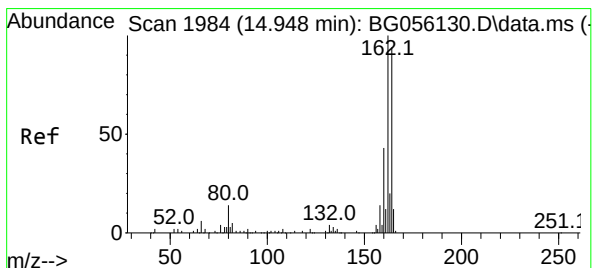
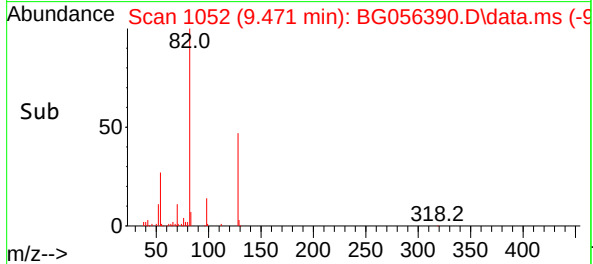
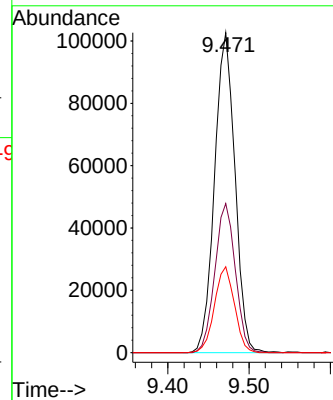
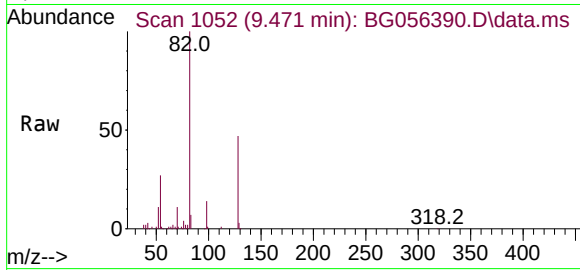
Tgt Ion: 82 Resp: 178808

Ion Ratio Lower Upper

82 100

128 46.6 33.4 50.2

54 26.8 20.3 30.5



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.912 min Scan# 1978

Delta R.T. -0.010 min

Lab File: BG056390.D

Acq: 23 Jan 2023 19:09

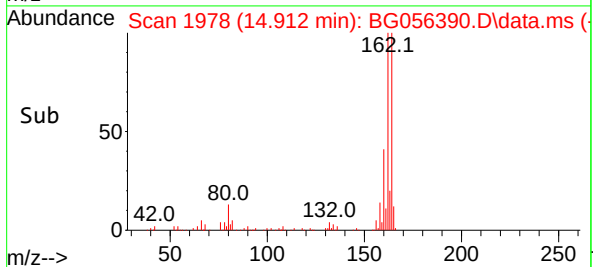
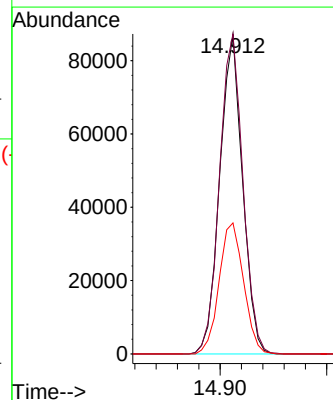
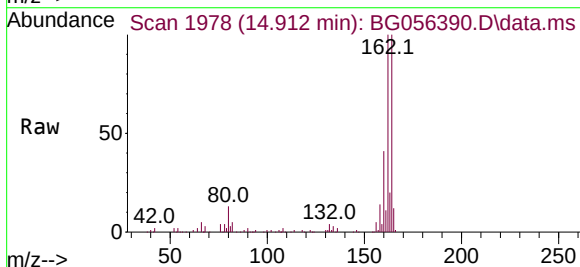
Tgt Ion: 164 Resp: 129252

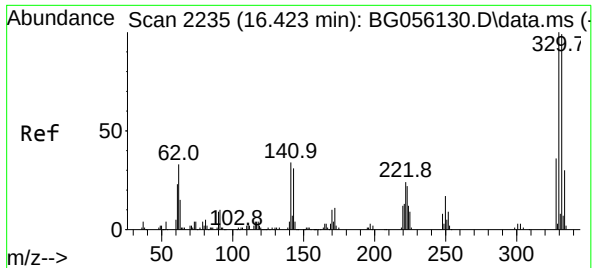
Ion Ratio Lower Upper

164 100

162 100.2 84.7 127.1

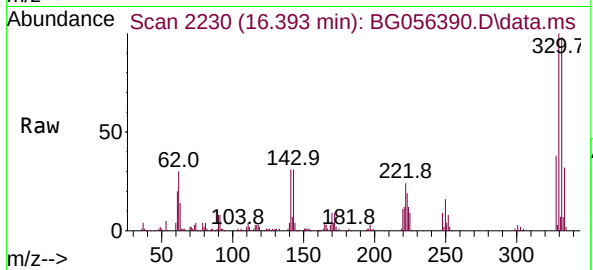
160 41.0 36.3 54.5



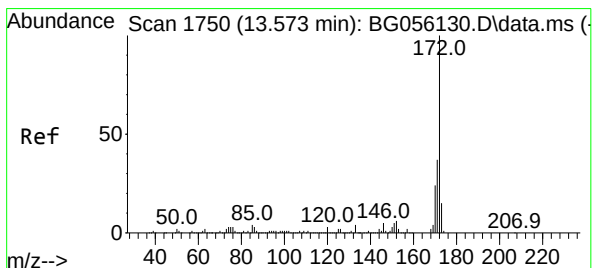
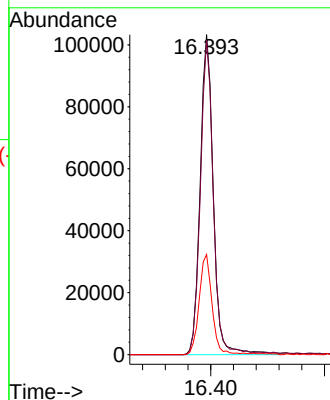
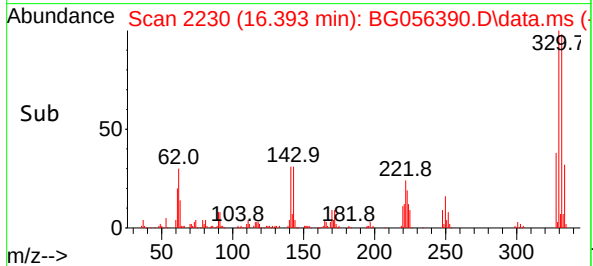


#42
2,4,6-Tribromophenol
Concen: 101.064 ng
RT: 16.393 min Scan# 21
Delta R.T. -0.010 min
Lab File: BG056390.D
Acq: 23 Jan 2023 19:09

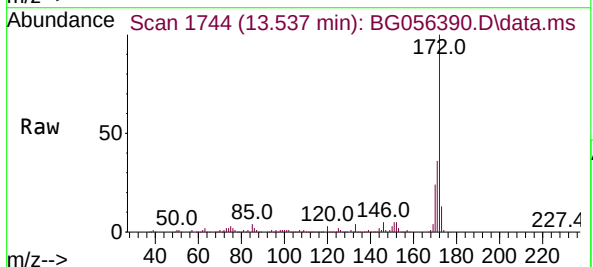
Instrument :
BNA_G
ClientSampleId :
B-P37A



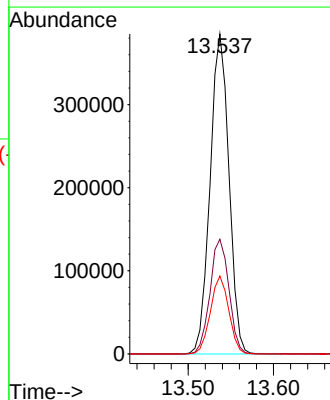
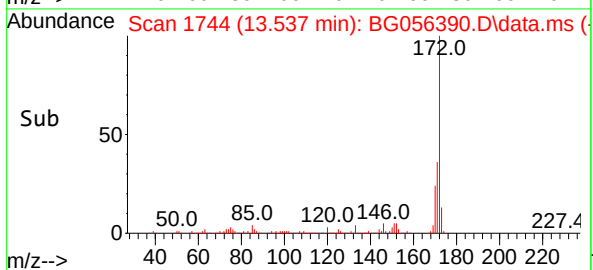
Tgt Ion:330 Resp: 165438
Ion Ratio Lower Upper
330 100
332 95.8 77.3 115.9
141 30.6 27.9 41.9

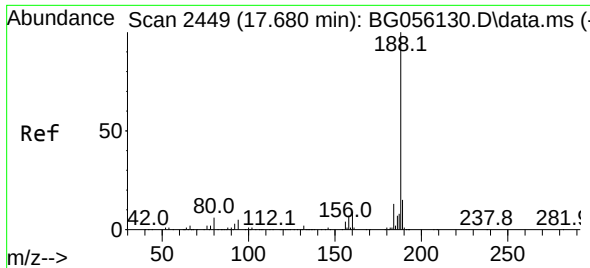


#45
2-Fluorobiphenyl
Concen: 63.059 ng
RT: 13.537 min Scan# 1744
Delta R.T. -0.010 min
Lab File: BG056390.D
Acq: 23 Jan 2023 19:09



Tgt Ion:172 Resp: 590233
Ion Ratio Lower Upper
172 100
171 35.8 29.6 44.4
170 24.3 19.4 29.2

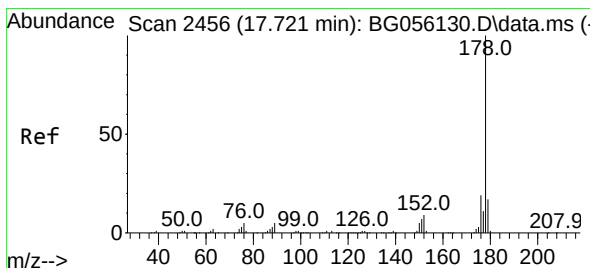
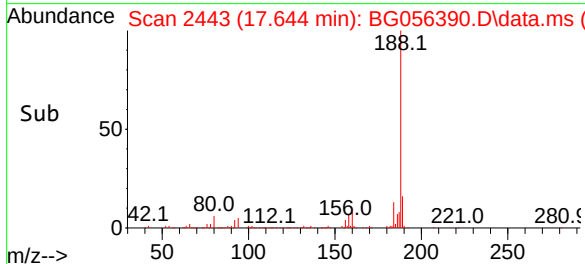
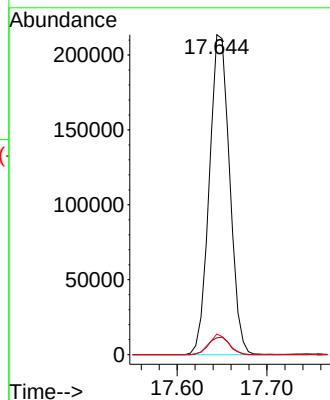
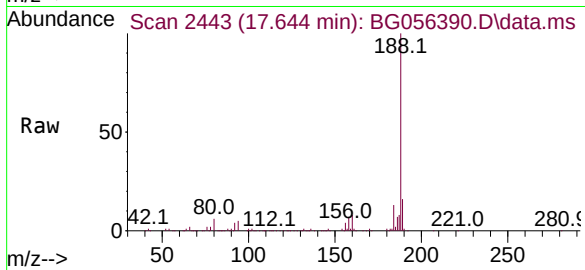




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.644 min Scan# 2449
Delta R.T. -0.016 min
Lab File: BG056390.D
Acq: 23 Jan 2023 19:09

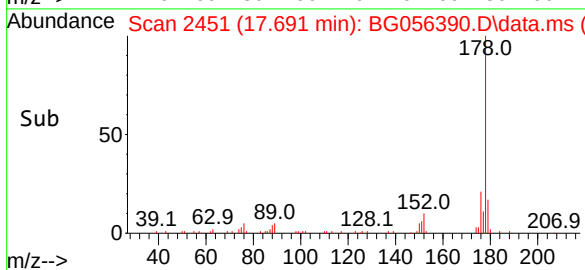
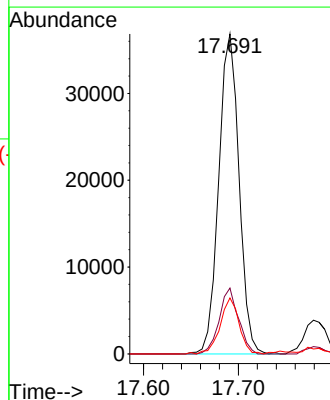
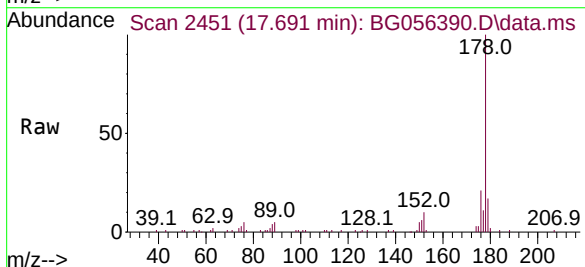
Instrument :
BNA_G
ClientSampleId :
B-P37A

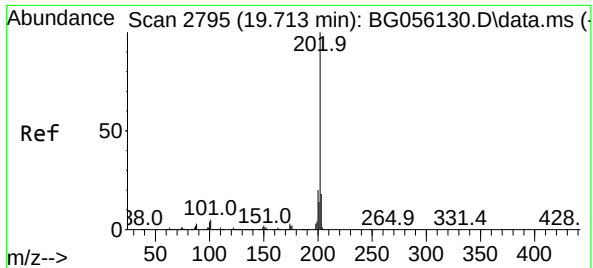
Tgt Ion:188 Resp: 335669
Ion Ratio Lower Upper
188 100
94 5.2 4.2 6.2
80 6.4 5.0 7.4



#71
Phenanthrene
Concen: 3.146 ng
RT: 17.691 min Scan# 2451
Delta R.T. -0.010 min
Lab File: BG056390.D
Acq: 23 Jan 2023 19:09

Tgt Ion:178 Resp: 54723
Ion Ratio Lower Upper
178 100
176 20.6 15.4 23.0
179 17.5 13.6 20.4

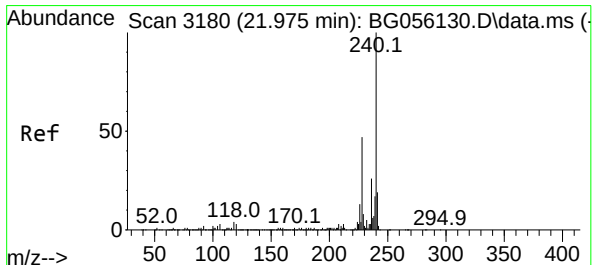
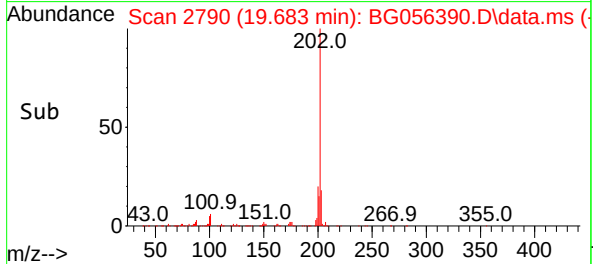
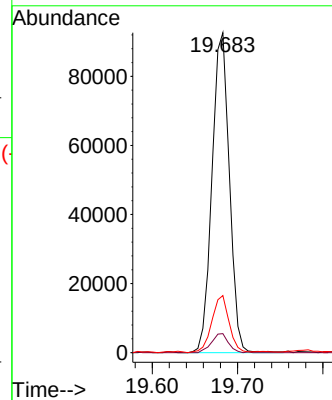
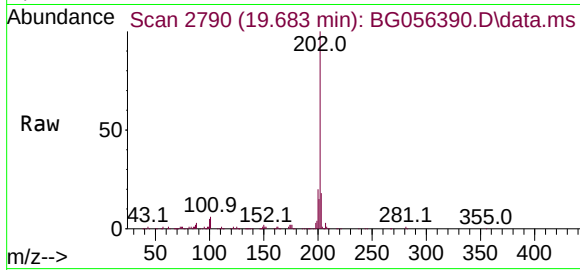




#75
Fluoranthene
Concen: 5.781 ng
RT: 19.683 min Scan# 21
Delta R.T. -0.010 min
Lab File: BG056390.D
Acq: 23 Jan 2023 19:09

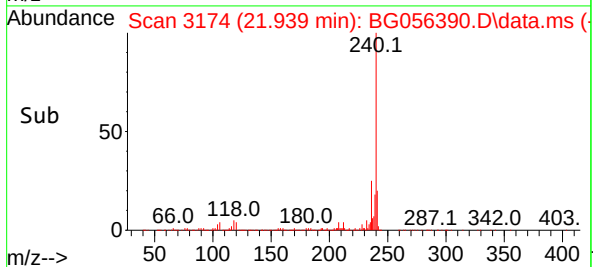
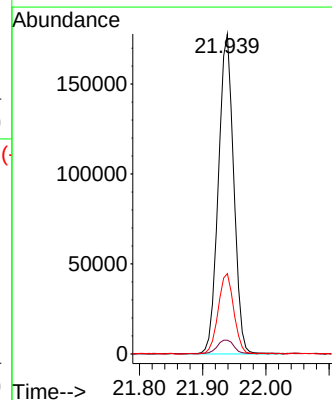
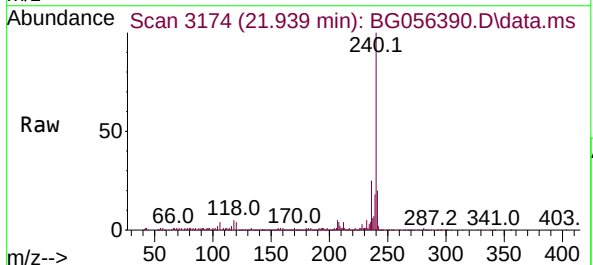
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BNA_G
ClientSampleId :
B-P37A

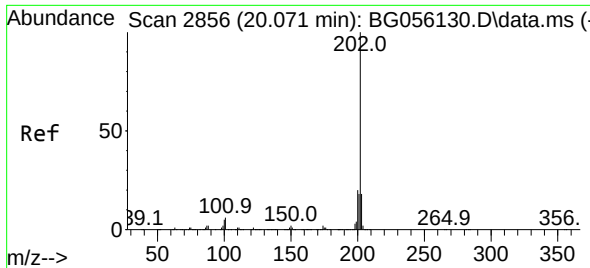
Tgt Ion:202 Resp: 131170
Ion Ratio Lower Upper
202 100
101 5.9 0.0 25.0
203 17.8 0.0 38.0



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.939 min Scan# 3174
Delta R.T. -0.016 min
Lab File: BG056390.D
Acq: 23 Jan 2023 19:09

Tgt Ion:240 Resp: 299254
Ion Ratio Lower Upper
240 100
120 4.3 2.6 4.0#
236 25.1 20.8 31.2

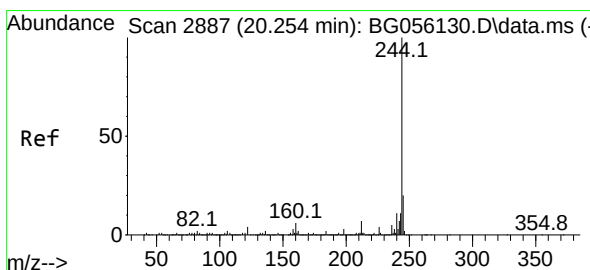
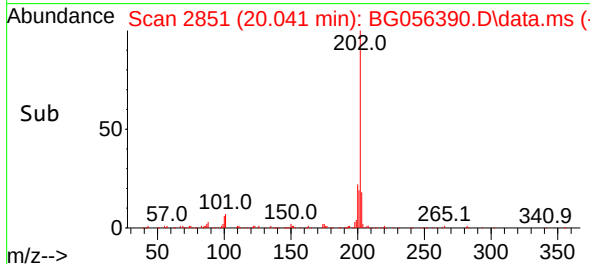
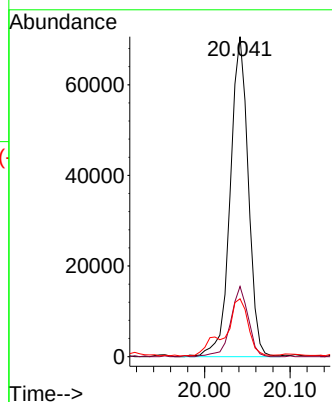
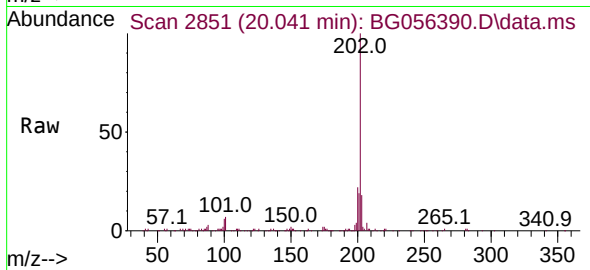




#78
 Pyrene
 Concen: 4.913 ng
 RT: 20.041 min Scan# 2851
 Delta R.T. -0.010 min
 Lab File: BG056390.D
 Acq: 23 Jan 2023 19:09

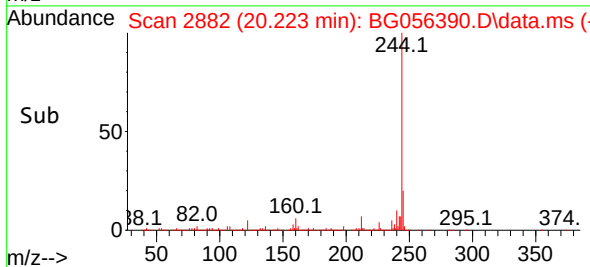
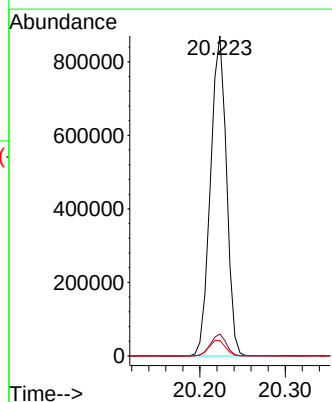
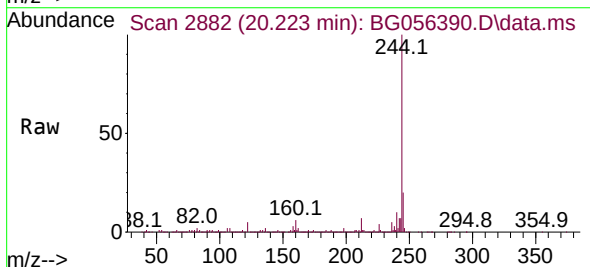
Instrument :
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 ClientSampleId :
 B-P37A

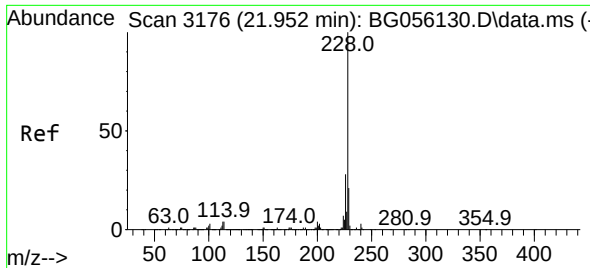
Tgt Ion:202 Resp: 103619
 Ion Ratio Lower Upper
 202 100
 200 21.9 16.4 24.6
 203 18.1 14.3 21.5



#79
 Terphenyl-d14
 Concen: 67.915 ng
 RT: 20.223 min Scan# 2882
 Delta R.T. -0.010 min
 Lab File: BG056390.D
 Acq: 23 Jan 2023 19:09

Tgt Ion:244 Resp: 1134737
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.7 8.5
 122 4.8 3.5 5.3

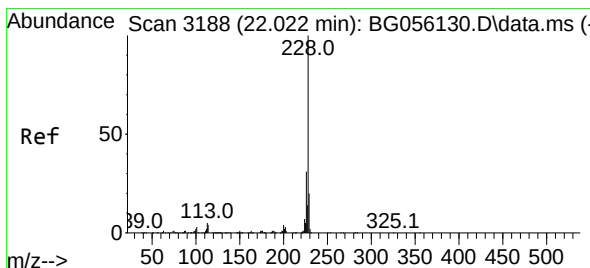
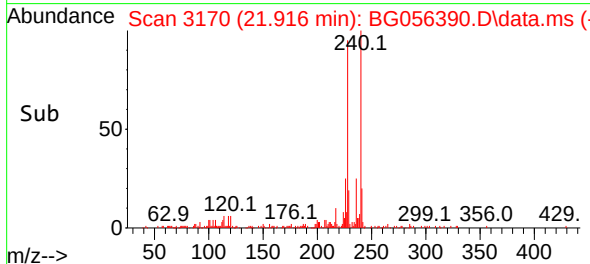
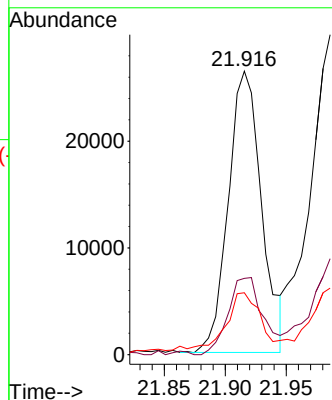
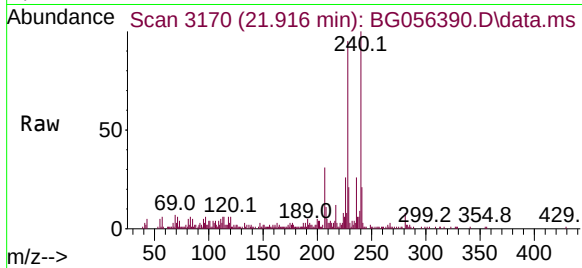




#81
Benzo(a)anthracene
Concen: 2.386 ng
RT: 21.916 min Scan# 3176
Delta R.T. -0.016 min
Lab File: BG056390.D
Acq: 23 Jan 2023 19:09

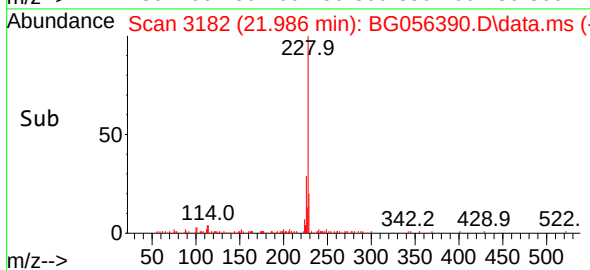
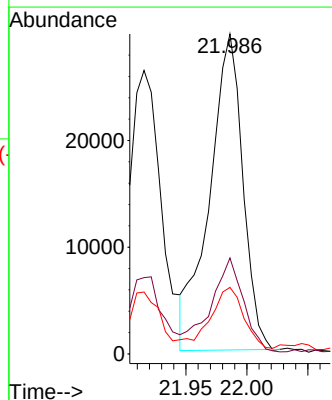
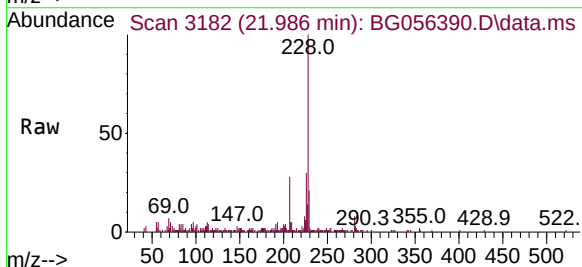
Instrument :
BNA_G
ClientSampleId :
B-P37A

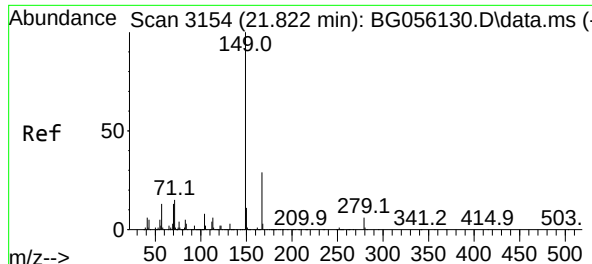
Tgt Ion:228 Resp: 50145
Ion Ratio Lower Upper
228 100
226 26.9 22.6 34.0
229 21.8 16.9 25.3



#83
Chrysene
Concen: 2.860 ng
RT: 21.986 min Scan# 3182
Delta R.T. -0.016 min
Lab File: BG056390.D
Acq: 23 Jan 2023 19:09

Tgt Ion:228 Resp: 56308
Ion Ratio Lower Upper
228 100
226 30.0 24.6 36.8
229 20.8 15.8 23.6





#84

Bis(2-ethylhexyl)phthalate

Concen: 2.885 ng

RT: 21.775 min Scan# 31

Delta R.T. -0.021 min

Lab File: BG056390.D

Acq: 23 Jan 2023 19:09

Instrument :

BNA_G

ClientSampleId :

B-P37A

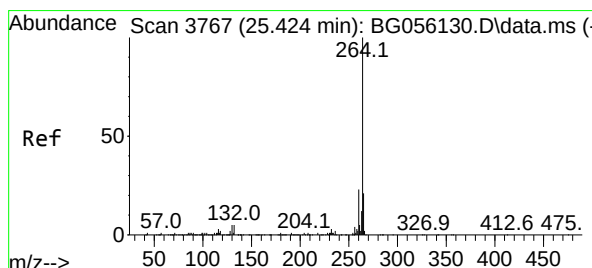
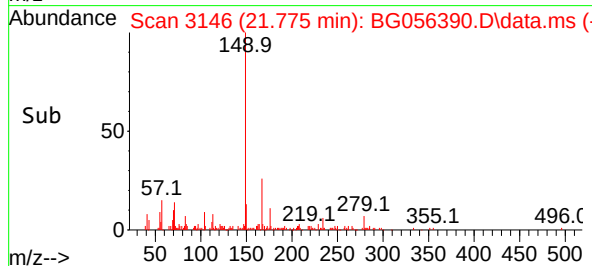
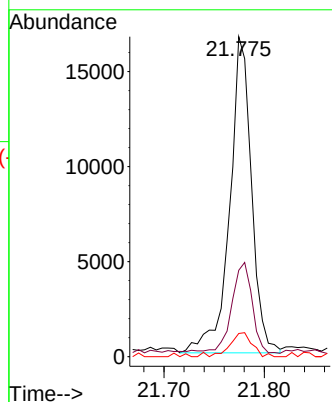
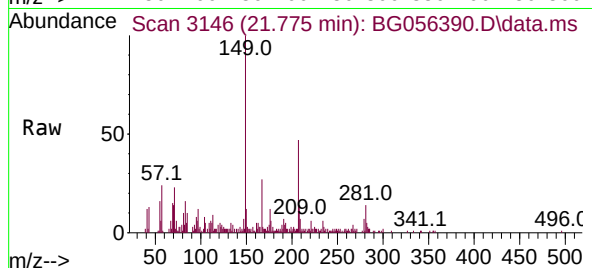
Tgt Ion:149 Resp: 25154

Ion Ratio Lower Upper

149 100

167 27.0 23.4 35.2

279 7.2 4.7 7.1#



#86

Perylene-d12

Concen: 20.000 ng

RT: 25.370 min Scan# 3758

Delta R.T. -0.021 min

Lab File: BG056390.D

Acq: 23 Jan 2023 19:09

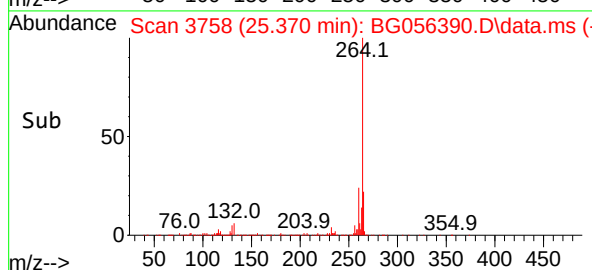
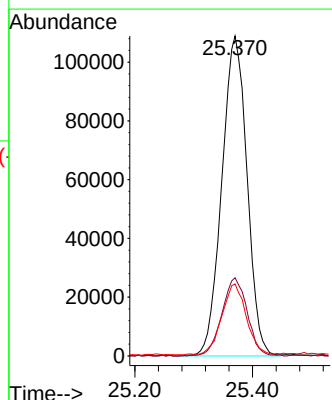
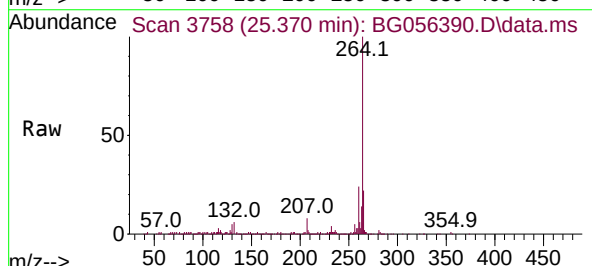
Tgt Ion:264 Resp: 323323

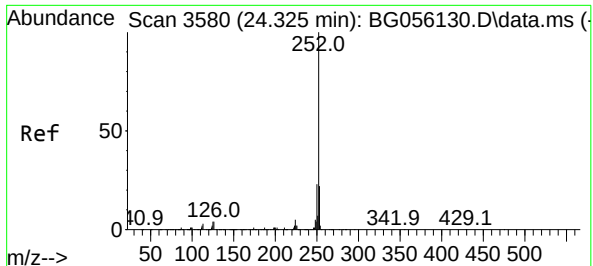
Ion Ratio Lower Upper

264 100

260 24.4 18.6 28.0

265 22.5 16.7 25.1

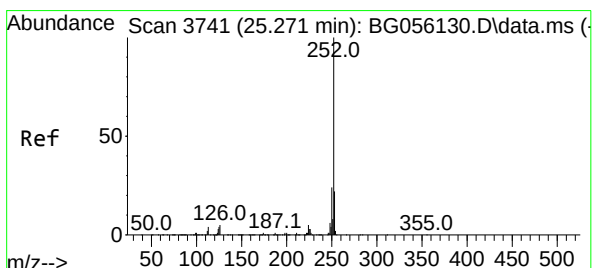
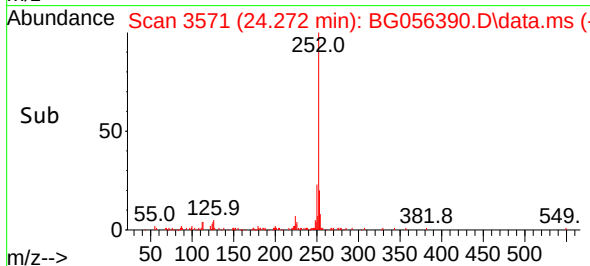
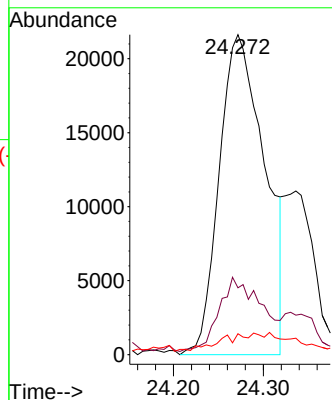
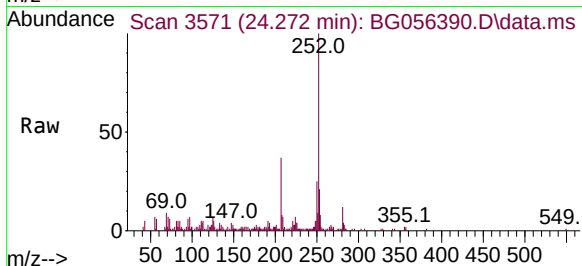




#88
Benzo(b)fluoranthene
Concen: 3.708 ng
RT: 24.272 min Scan# 31
Delta R.T. -0.021 min
Lab File: BG056390.D
Acq: 23 Jan 2023 19:09

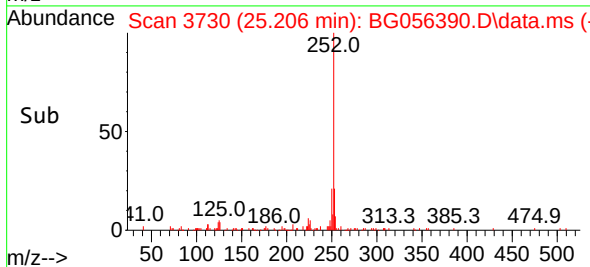
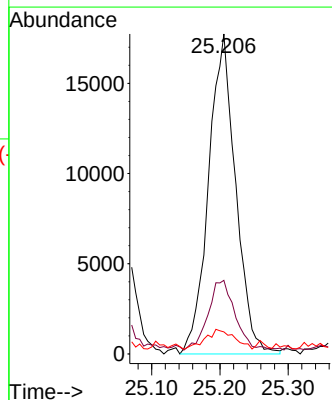
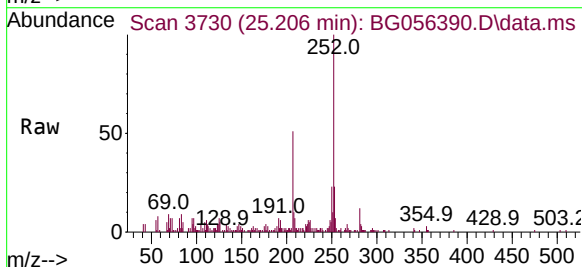
Instrument :
BNA_G
ClientSampleId :
B-P37A

Tgt Ion:252 Resp: 76181
Ion Ratio Lower Upper
252 100
253 20.9 17.4 26.2
125 6.5 3.0 4.4#



#90
Benzo(a)pyrene
Concen: 2.439 ng
RT: 25.206 min Scan# 3730
Delta R.T. -0.021 min
Lab File: BG056390.D
Acq: 23 Jan 2023 19:09

Tgt Ion:252 Resp: 48873
Ion Ratio Lower Upper
252 100
253 23.0 17.4 26.2
125 6.9 3.2 4.8#



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG012323\
 Data File : BG056390.D
 Acq On : 23 Jan 2023 19:09
 Operator : CG/JU
 Sample : 01233-06
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 B-P37A

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BG056390.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.335	341	348	357	rVB	107040	162437	6.04%	1.354%
2	5.817	423	430	444	rBV	426816	687478	25.57%	5.730%
3	7.438	698	706	718	rBV	438309	746148	27.76%	6.219%
4	8.296	845	852	861	rBB2	115573	194405	7.23%	1.620%
5	9.471	1044	1052	1061	rBV	256030	451028	16.78%	3.759%
6	11.128	1326	1334	1342	rBV	164714	292110	10.87%	2.435%
7	13.537	1736	1744	1754	rBB	1025449	1562645	58.13%	13.024%
8	14.912	1971	1978	1986	rBV	338932	521011	19.38%	4.342%
9	16.246	2200	2205	2210	rBV	77472	107692	4.01%	0.898%
10	16.393	2223	2230	2249	rBV	738136	1147729	42.69%	9.566%
11	17.644	2437	2443	2448	rBV	460370	734037	27.30%	6.118%
12	17.691	2448	2451	2457	rVB	82479	111967	4.16%	0.933%
13	18.567	2595	2600	2605	rVB3	23151	30468	1.13%	0.254%
14	18.708	2618	2624	2629	rBV3	15190	33176	1.23%	0.277%
15	19.031	2676	2679	2691	rVB5	23962	52199	1.94%	0.435%
16	19.683	2784	2790	2795	rVB	189822	271556	10.10%	2.263%
17	20.006	2841	2845	2847	rBV2	33345	49981	1.86%	0.417%
18	20.041	2847	2851	2857	rVB	149281	212037	7.89%	1.767%
19	20.223	2876	2882	2888	rVB	2066700	2688322	100.00%	22.405%
20	20.353	2900	2904	2910	rBV6	16367	31815	1.18%	0.265%
21	20.500	2922	2929	2931	rBV8	25493	56708	2.11%	0.473%
22	21.522	3099	3103	3112	rVB3	51501	123315	4.59%	1.028%
23	21.745	3138	3141	3143	rBV2	32080	45479	1.69%	0.379%
24	21.939	3166	3174	3179	rBV2	450091	868809	32.32%	7.241%
25	21.986	3179	3182	3187	rVB	64347	95706	3.56%	0.798%
26	25.370	3749	3758	3768	rVB2	247914	720240	26.79%	6.003%

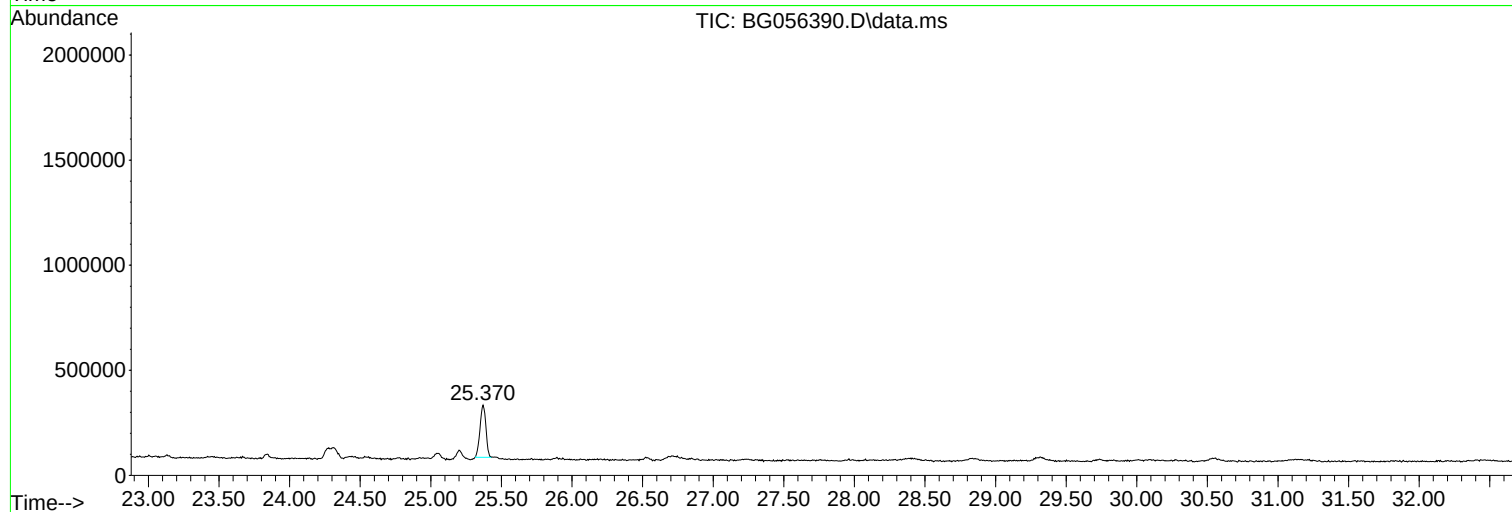
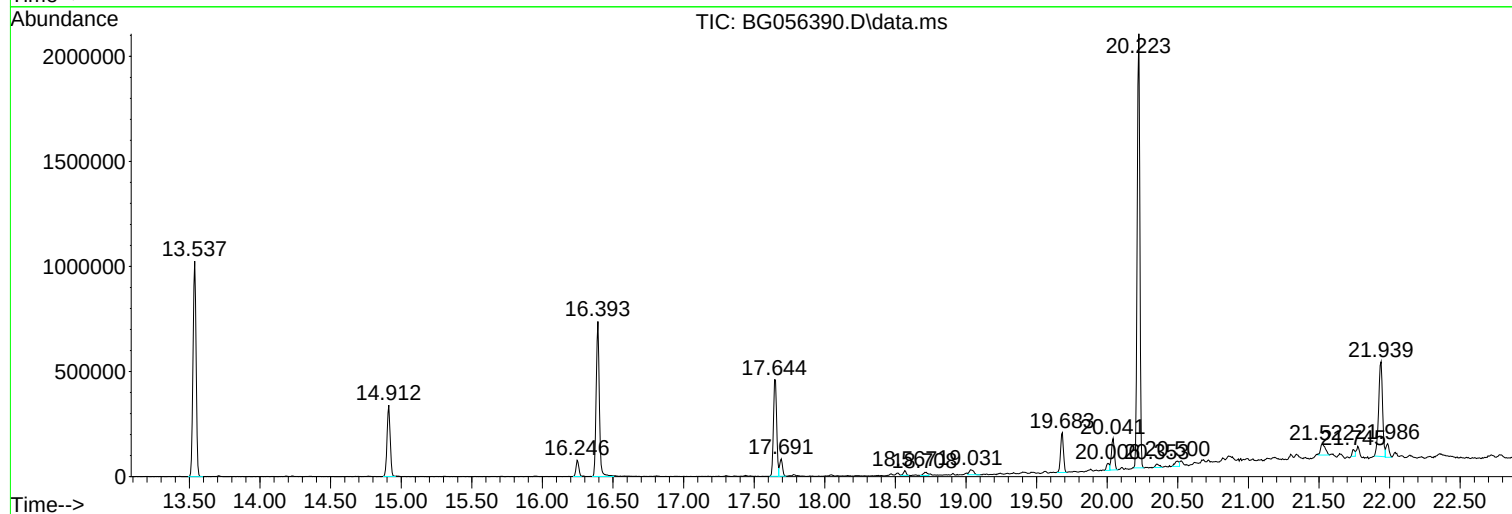
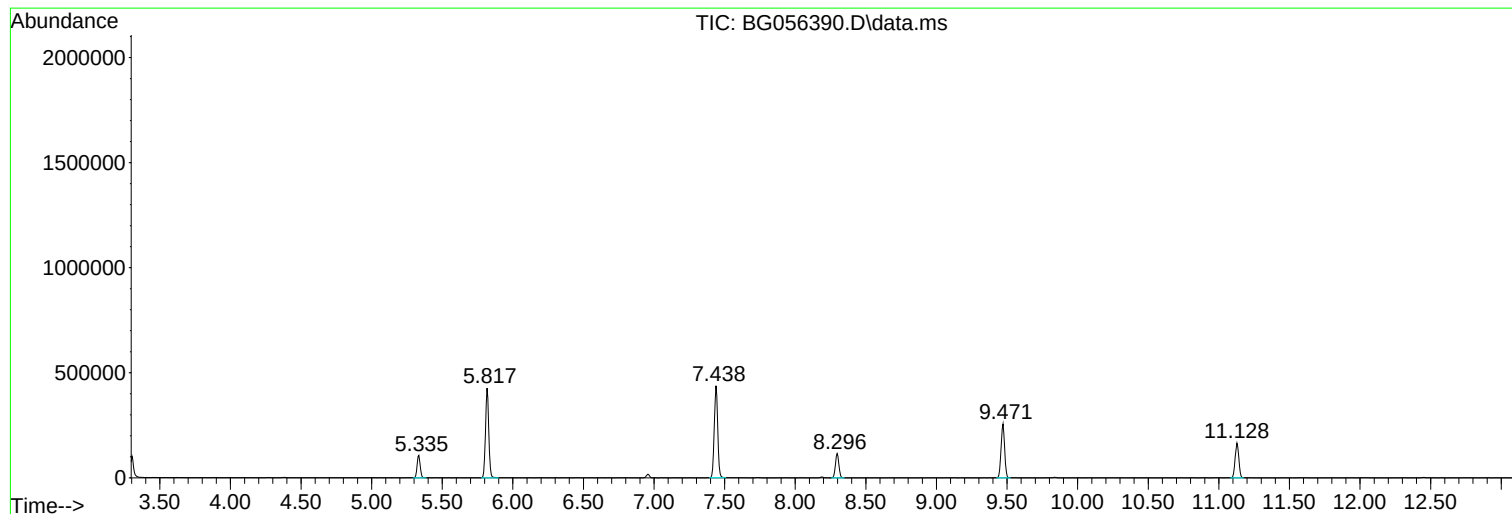
Sum of corrected areas: 11998498

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG012323\
Data File : BG056390.D
Acq On : 23 Jan 2023 19:09
Operator : CG/JU
Sample : 01233-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
B-P37A

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG012323\
Data File : BG056390.D
Acq On : 23 Jan 2023 19:09
Operator : CG/JU
Sample : 01233-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

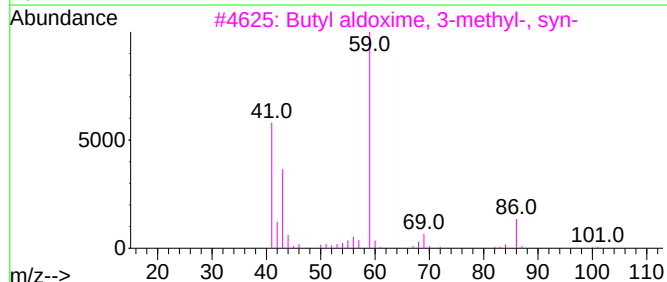
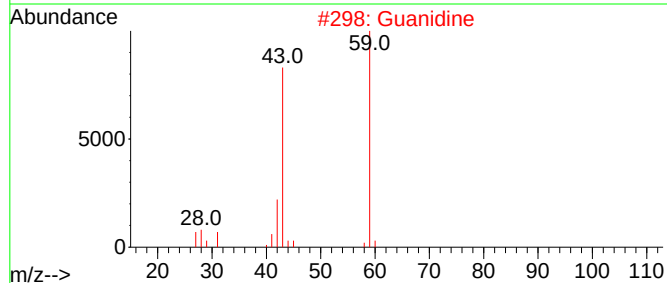
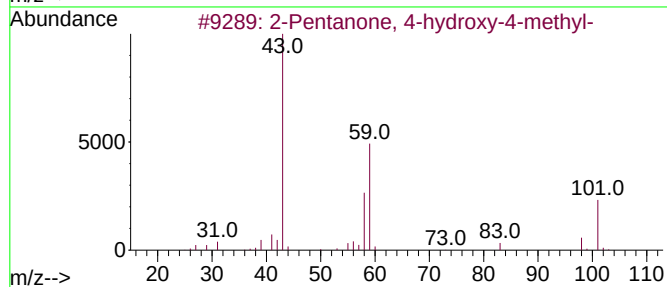
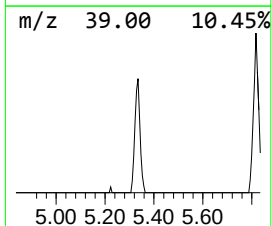
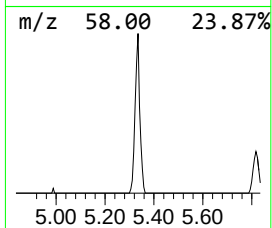
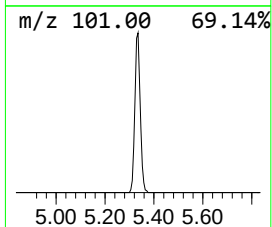
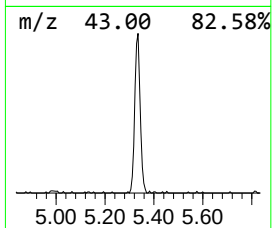
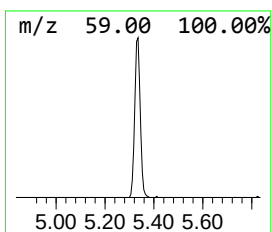
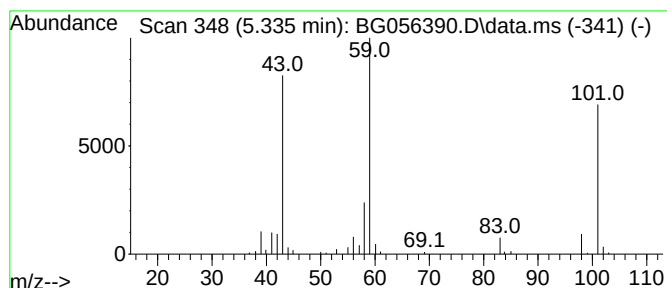
Instrument :
BNA_G
ClientSampleId :
B-P37A

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD		R.T.	
5.335	16.71 ng	162437	1,4-Dichlorobenzene-d4		8.296	
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-		116	C6H12O2	000123-42-2	50
2	Guanidine		59	CH5N3	000113-00-8	37
3	Butyl aldoxime, 3-methyl-, syn-		101	C5H11NO	005780-40-5	35
4	3-Hydroxy-3-methyl-2-butanone		102	C5H10O2	000115-22-0	32
5	Oxirane, tetramethyl-		100	C6H12O	005076-20-0	25



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG012323\
Data File : BG056390.D
Acq On : 23 Jan 2023 19:09
Operator : CG/JU
Sample : 01233-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
B-P37A

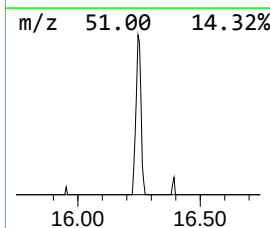
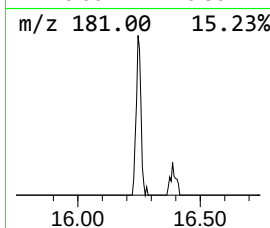
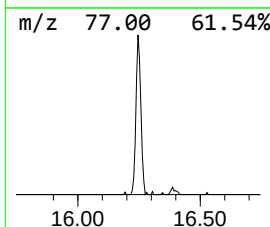
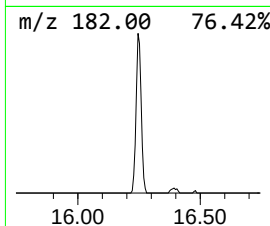
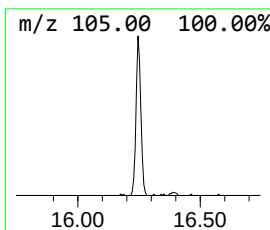
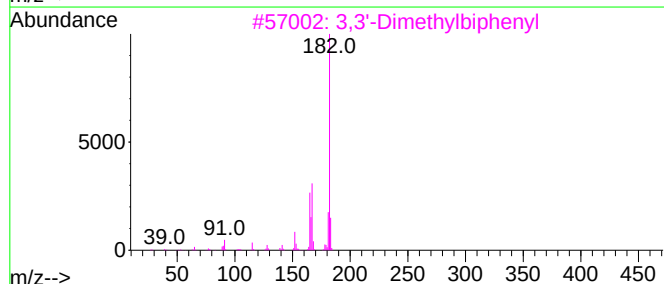
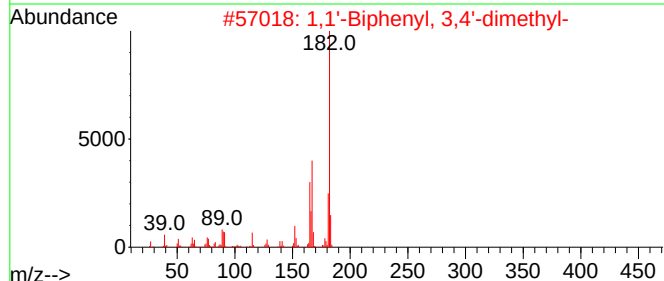
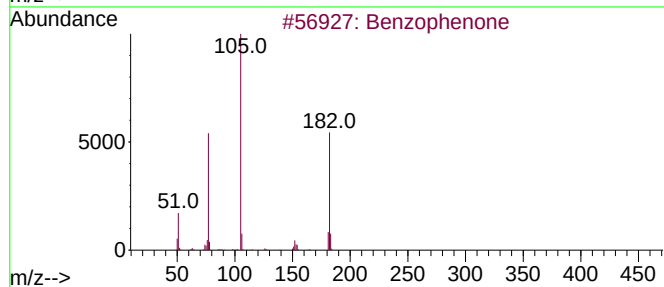
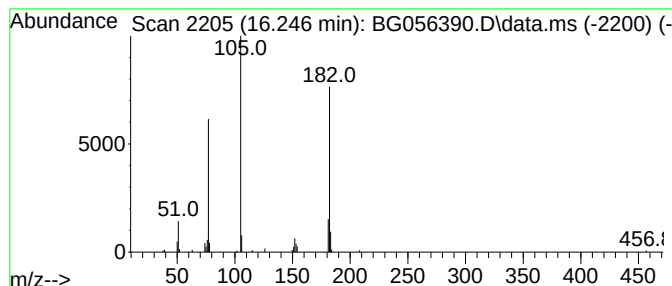
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.246	4.13 ng	107692	Acenaphthene-d10	14.912

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	94
2			1,1'-Biphenyl, 3,4'-dimethyl-	182	C14H14	007383-90-6	49
3			3,3'-Dimethylbiphenyl	182	C14H14	000612-75-9	47
4			3,5-Dimethoxybenzoic acid	182	C9H10O4	001132-21-4	43
5			3,4-Dimethoxy-5-hydroxybenzaldehyde	182	C9H10O4	029865-90-5	43



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG012323\
Data File : BG056390.D
Acq On : 23 Jan 2023 19:09
Operator : CG/JU
Sample : 01233-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
B-P37A

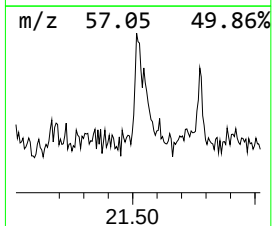
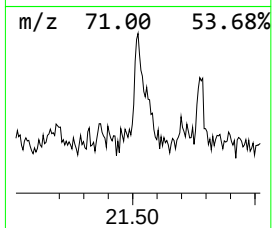
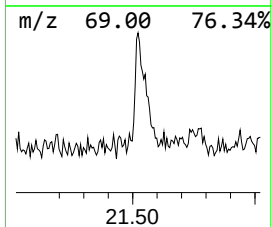
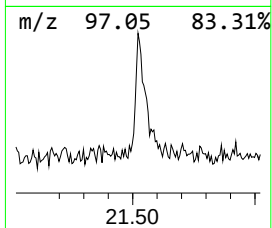
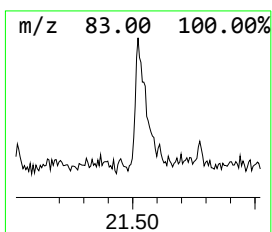
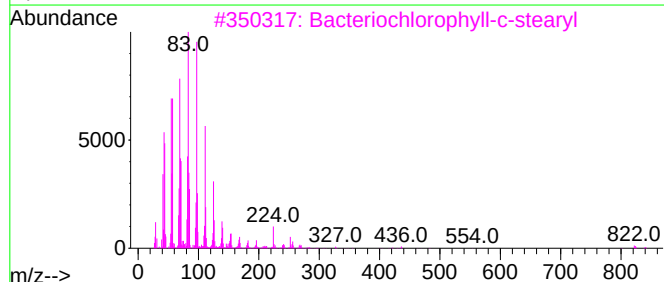
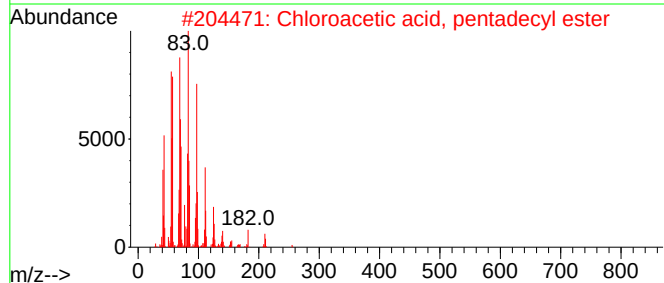
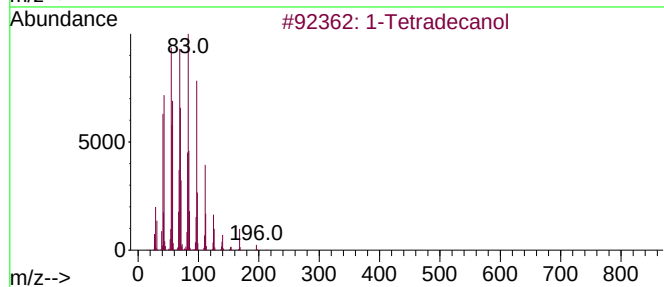
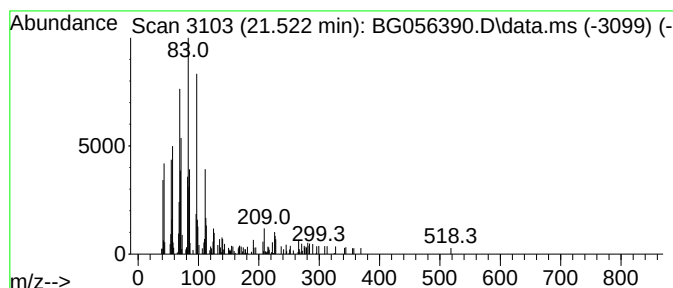
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 unknown21.522 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.522	2.84 ng	123315	Chrysene-d12	21.939

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Tetradecanol			214	C14H30O	000112-72-1	49
2	Chloroacetic acid, pentadecyl ester			304	C17H33ClO2	070301-47-2	49
3	Bacteriochlorophyll-c-stearyl			841	C52H72MgN4O4	1010164-49-7	46
4	3-Octadecene, (E)-			252	C18H36	007206-19-1	43
5	2-Thiopheneacetic acid, 2-ethylc...			252	C14H20O2S	1000278-96-1	38



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG012323\
Data File : BG056390.D
Acq On : 23 Jan 2023 19:09
Operator : CG/JU
Sample : 01233-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
B-P37A

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
2-Pentanone, 4-...	5.335	16.7	ng	162437	1	8.296	194405	20.0
Benzophenone	16.246	4.1	ng	107692	3	14.912	521011	20.0
unknown21.522	21.522	2.8	ng	123315	5	21.939	868809	20.0



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P37B	SDG No.:	O1233
Lab Sample ID:	O1233-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83.5
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF132174.D	1	01/20/23 12:30	01/20/23 22:13	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	170	U	170	390	ug/Kg
108-95-2	Phenol	80.9	U	80.9	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	95.9	U	95.9	200	ug/Kg
95-57-8	2-Chlorophenol	81.6	U	81.6	200	ug/Kg
95-48-7	2-Methylphenol	130	U	130	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	110	U	110	200	ug/Kg
98-86-2	Acetophenone	95.7	U	95.7	200	ug/Kg
65794-96-9	3+4-Methylphenols	120	U	120	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	90.9	U	90.9	95.6	ug/Kg
67-72-1	Hexachloroethane	88.0	U	88.0	200	ug/Kg
98-95-3	Nitrobenzene	88.3	U	88.3	200	ug/Kg
78-59-1	Isophorone	79.5	U	79.5	200	ug/Kg
88-75-5	2-Nitrophenol	110	U	110	200	ug/Kg
105-67-9	2,4-Dimethylphenol	120	U	120	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	130	U	130	200	ug/Kg
120-83-2	2,4-Dichlorophenol	97.6	U	97.6	200	ug/Kg
91-20-3	Naphthalene	88.3	U	88.3	200	ug/Kg
106-47-8	4-Chloroaniline	120	U	120	200	ug/Kg
87-68-3	Hexachlorobutadiene	120	U	120	200	ug/Kg
105-60-2	Caprolactam	120	U	120	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	94.0	U	94.0	200	ug/Kg
91-57-6	2-Methylnaphthalene	89.6	U	89.6	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	210	U	210	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	100	U	100	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	99.9	U	99.9	200	ug/Kg
92-52-4	1,1-Biphenyl	100	U	100	200	ug/Kg
91-58-7	2-Chloronaphthalene	100	U	100	200	ug/Kg
88-74-4	2-Nitroaniline	130	U	130	200	ug/Kg
131-11-3	Dimethylphthalate	96.6	U	96.6	200	ug/Kg
208-96-8	Acenaphthylene	82.1	U	82.1	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	93.3	U	93.3	200	ug/Kg



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P37B	SDG No.:	O1233
Lab Sample ID:	O1233-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83.5
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF132174.D	1	01/20/23 12:30	01/20/23 22:13	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	120	U	120	200	ug/Kg
83-32-9	Acenaphthene	94.2	U	94.2	200	ug/Kg
51-28-5	2,4-Dinitrophenol	150	U	150	390	ug/Kg
100-02-7	4-Nitrophenol	160	U	160	390	ug/Kg
132-64-9	Dibenzofuran	88.6	U	88.6	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	100	U	100	200	ug/Kg
84-66-2	Diethylphthalate	96.2	U	96.2	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	110	U	110	200	ug/Kg
86-73-7	Fluorene	94.1	U	94.1	200	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	100	U	100	390	ug/Kg
86-30-6	n-Nitrosodiphenylamine	98.2	U	98.2	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	120	U	120	200	ug/Kg
118-74-1	Hexachlorobenzene	120	U	120	200	ug/Kg
1912-24-9	Atrazine	110	U	110	200	ug/Kg
87-86-5	Pentachlorophenol	140	U	140	390	ug/Kg
85-01-8	Phenanthrene	99.9	U	99.9	200	ug/Kg
120-12-7	Anthracene	100	U	100	200	ug/Kg
86-74-8	Carbazole	100	U	100	200	ug/Kg
84-74-2	Di-n-butylphthalate	100	U	100	200	ug/Kg
206-44-0	Fluoranthene	95.3	U	95.3	200	ug/Kg
129-00-0	Pyrene	88.6	U	88.6	200	ug/Kg
85-68-7	Butylbenzylphthalate	98.8	U	98.8	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	160	U	160	390	ug/Kg
56-55-3	Benzo(a)anthracene	100	U	100	200	ug/Kg
218-01-9	Chrysene	100	U	100	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	150	J	110	200	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	82.4	U	82.4	200	ug/Kg
207-08-9	Benzo(k)fluoranthene	87.9	U	87.9	200	ug/Kg
50-32-8	Benzo(a)pyrene	80.9	U	80.9	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	120	U	120	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	120	U	120	200	ug/Kg



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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P37B	SDG No.:	O1233
Lab Sample ID:	O1233-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83.5
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF132174.D	1	01/20/23 12:30	01/20/23 22:13	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	120	U	120	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	110	U	110	200	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	97.0	U	97.0	200	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	104		18 - 112	69%	SPK: 150
13127-88-3	Phenol-d6	106		21 - 104	71%	SPK: 150
4165-60-0	Nitrobenzene-d5	75.7		27 - 109	76%	SPK: 100
321-60-8	2-Fluorobiphenyl	63.8		30 - 103	64%	SPK: 100
118-79-6	2,4,6-Tribromophenol	114		10 - 121	76%	SPK: 150
1718-51-0	Terphenyl-d14	67.0		21 - 107	67%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	178000	7.089
1146-65-2	Naphthalene-d8	632000	8.378
15067-26-2	Acenaphthene-d10	342000	10.142
1517-22-2	Phenanthrene-d10	670000	11.636
1719-03-5	Chrysene-d12	444000	14.301
1520-96-3	Perylene-d12	376000	15.895

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	1400	AB	5.34	ug/Kg
000119-61-9	Benzophenone	210	J	10.9	ug/Kg
000057-10-3	n-Hexadecanoic acid	310	J	12.1	ug/Kg
000057-11-4	Octadecanoic acid	130	J	12.9	ug/Kg

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
 Data File : BF132174.D
 Acq On : 20 Jan 2023 22:13
 Operator : CG\JU
 Sample : 01233-07
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-P37B

Quant Time: Jan 21 03:58:00 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 00:50:42 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

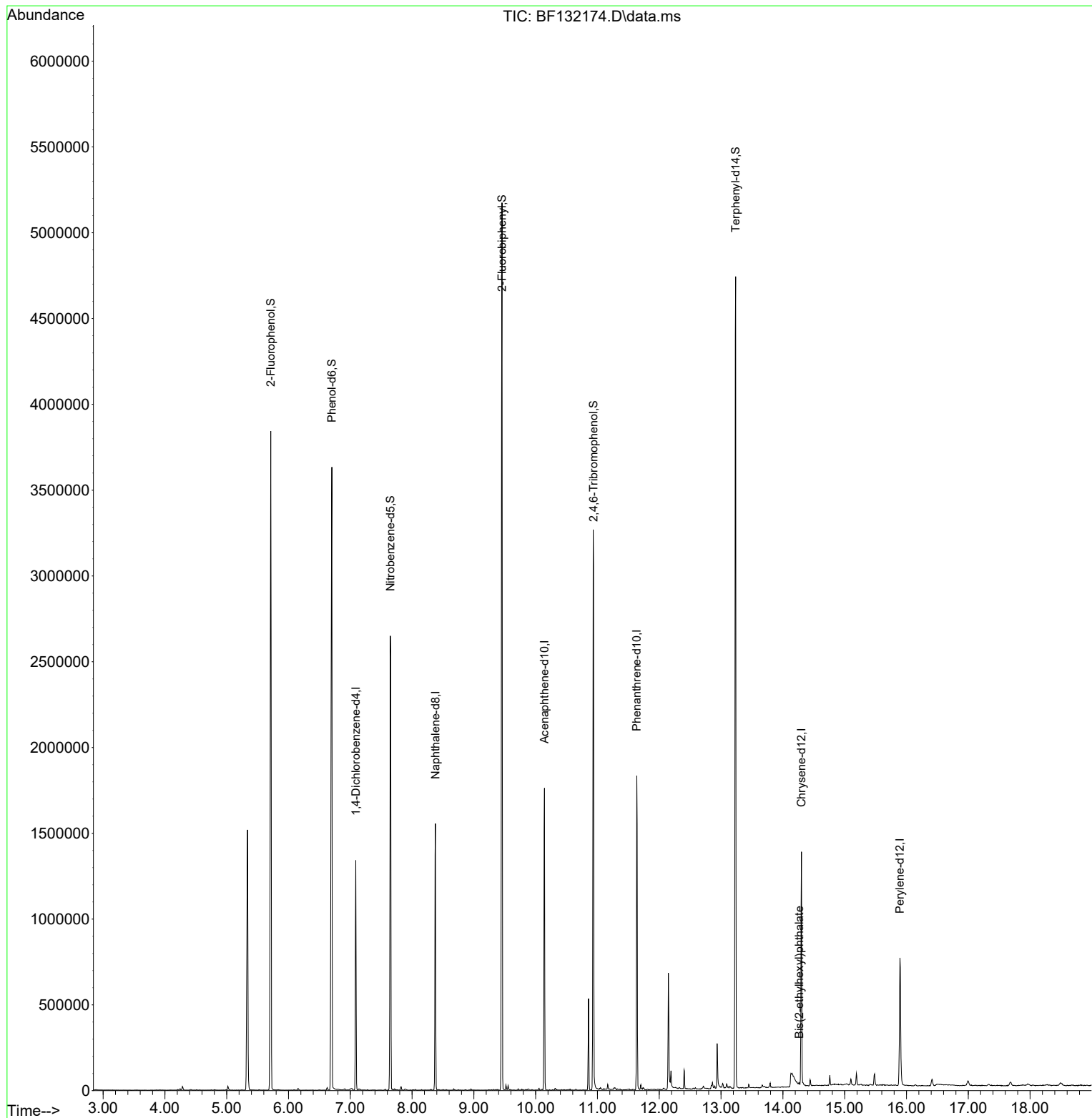
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.089	152	177955	20.000	ng	0.00
21) Naphthalene-d8	8.378	136	631961	20.000	ng	0.00
39) Acenaphthene-d10	10.142	164	341753	20.000	ng	0.00
64) Phenanthrene-d10	11.636	188	670384	20.000	ng	0.00
76) Chrysene-d12	14.301	240	444362	20.000	ng	0.00
86) Perylene-d12	15.895	264	375935	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.713	112	1054825	103.546	ng	0.00
7) Phenol-d6	6.701	99	1365202	106.460	ng	0.00
23) Nitrobenzene-d5	7.648	82	899977	75.653	ng	0.00
42) 2,4,6-Tribromophenol	10.936	330	415053	113.699	ng	0.00
45) 2-Fluorobiphenyl	9.454	172	1491252	63.761	ng	0.00
79) Terphenyl-d14	13.236	244	1776413	66.965	ng	0.00
Target Compounds						
84) Bis(2-ethylhexyl)phtha...	14.265	149	3613	3.680	ng	Qvalue # 92

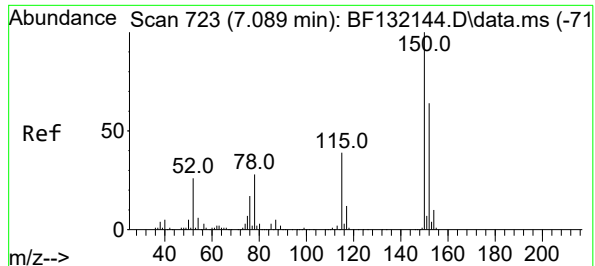
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132174.D
Acq On : 20 Jan 2023 22:13
Operator : CG\JU
Sample : 01233-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P37B

Quant Time: Jan 21 03:58:00 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 20 00:50:42 2023
Response via : Initial Calibration

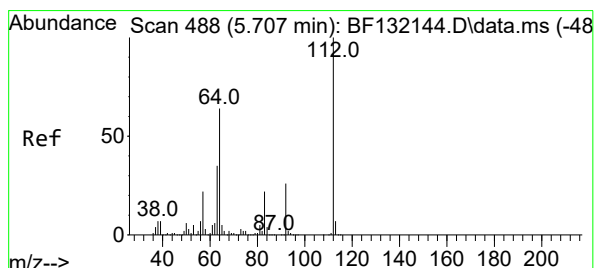
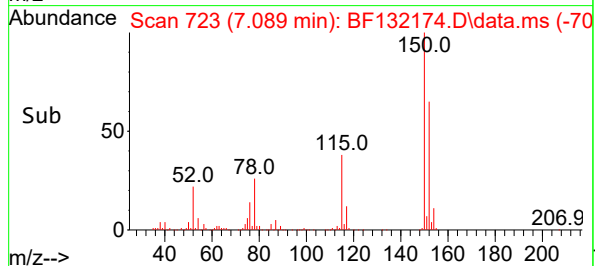
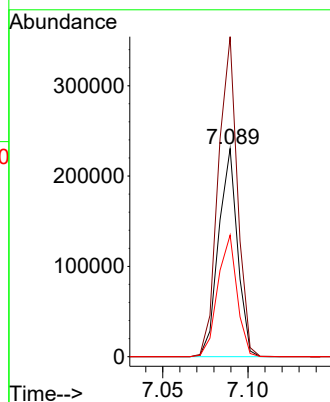
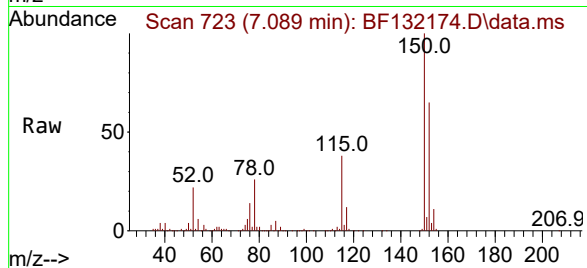




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.089 min Scan# 71
Delta R.T. 0.000 min
Lab File: BF132174.D
Acq: 20 Jan 2023 22:13

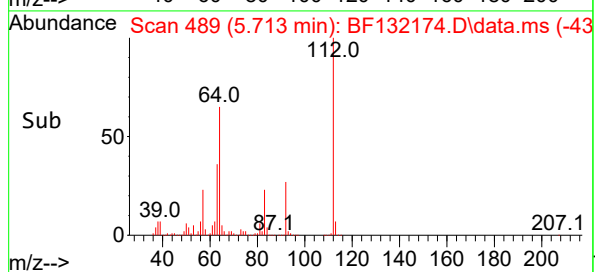
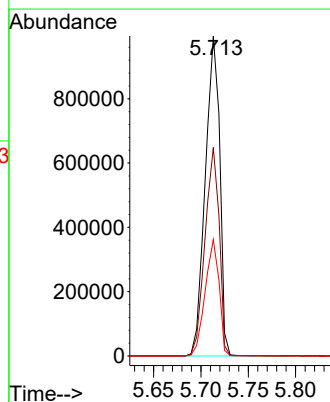
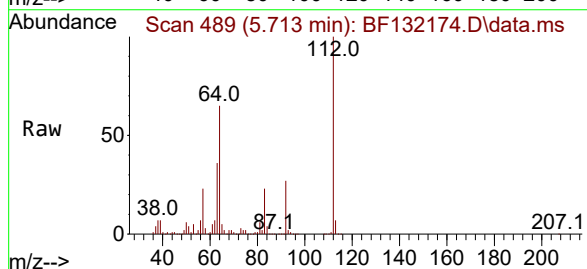
Instrument :
BNA_F
ClientSampleId :
B-P37B

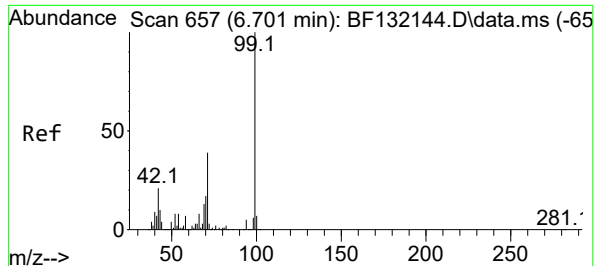
Tgt Ion:152 Resp: 177955
Ion Ratio Lower Upper
152 100
150 153.8 125.8 188.8
115 58.5 49.2 73.8



#5
2-Fluorophenol
Concen: 103.546 ng
RT: 5.713 min Scan# 489
Delta R.T. 0.006 min
Lab File: BF132174.D
Acq: 20 Jan 2023 22:13

Tgt Ion:112 Resp: 1054825
Ion Ratio Lower Upper
112 100
64 65.1 51.4 77.0
63 36.4 28.2 42.2



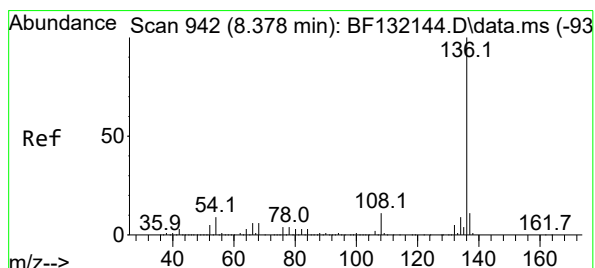
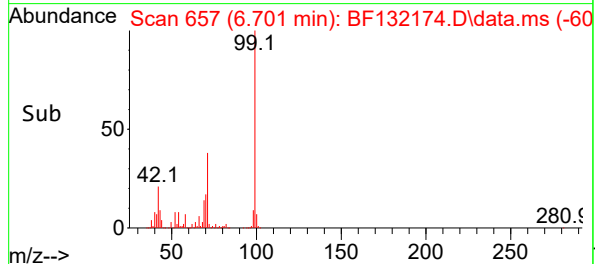
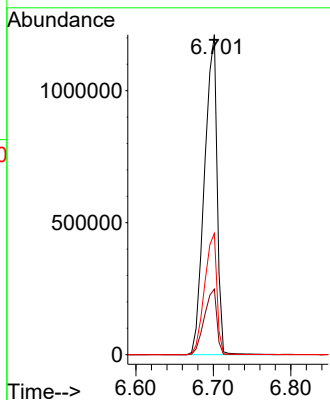
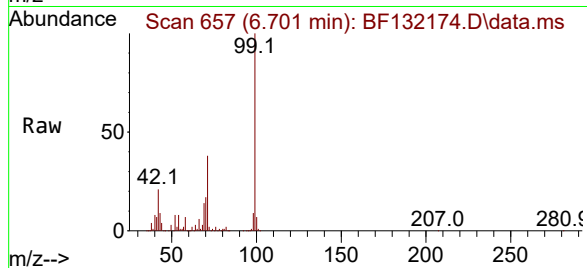


#7
Phenol-d6
Concen: 106.460 ng
RT: 6.701 min Scan# 61
Delta R.T. -0.000 min
Lab File: BF132174.D
Acq: 20 Jan 2023 22:13

Instrument :
BNA_F
ClientSampleId :
B-P37B

Tgt Ion: 99 Resp: 1365202

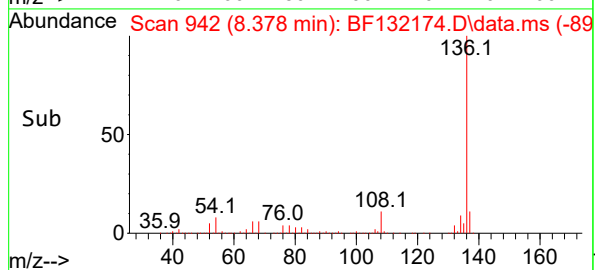
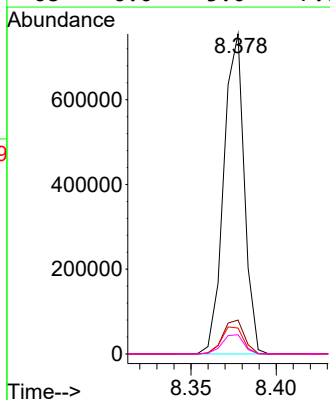
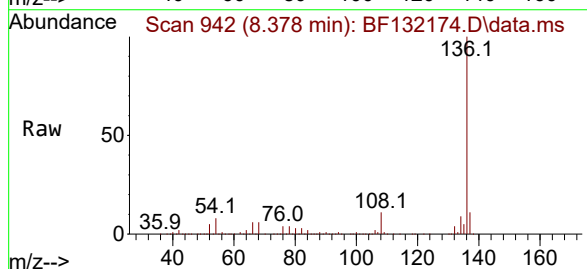
Ion	Ratio	Lower	Upper
99	100		
42	20.5	16.6	24.8
71	37.9	30.8	46.2

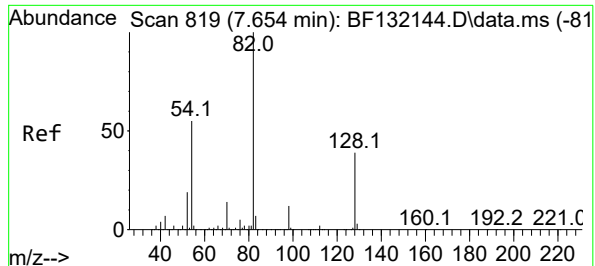


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.378 min Scan# 942
Delta R.T. -0.000 min
Lab File: BF132174.D
Acq: 20 Jan 2023 22:13

Tgt Ion: 136 Resp: 631961

Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.9	13.3
54	8.1	7.0	10.6
68	6.0	5.0	7.6





#23

Nitrobenzene-d5

Concen: 75.653 ng

RT: 7.648 min Scan# 81

Delta R.T. -0.006 min

Lab File: BF132174.D

Acq: 20 Jan 2023 22:13

Instrument :

BNA_F

ClientSampleId :

B-P37B

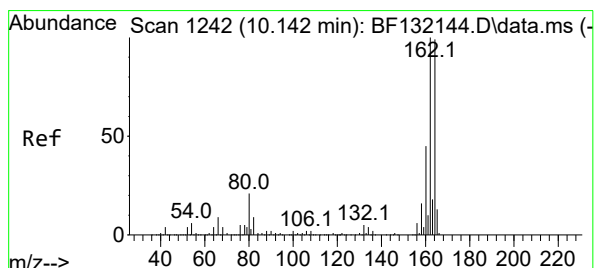
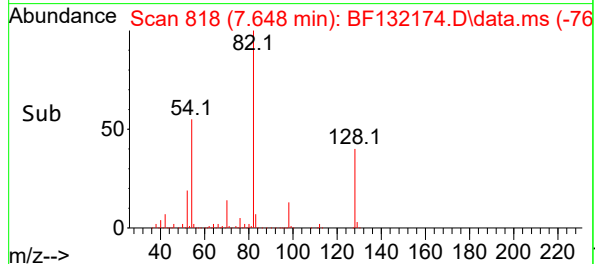
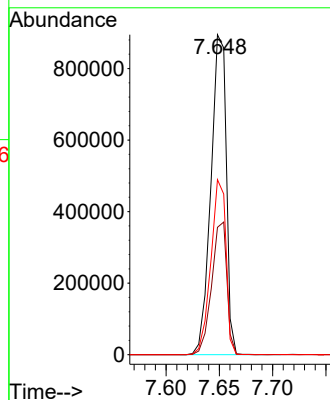
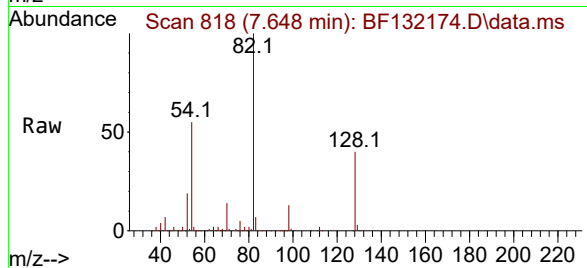
Tgt Ion: 82 Resp: 899977

Ion Ratio Lower Upper

82 100

128 39.8 31.1 46.7

54 54.7 43.9 65.9



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.142 min Scan# 1242

Delta R.T. -0.000 min

Lab File: BF132174.D

Acq: 20 Jan 2023 22:13

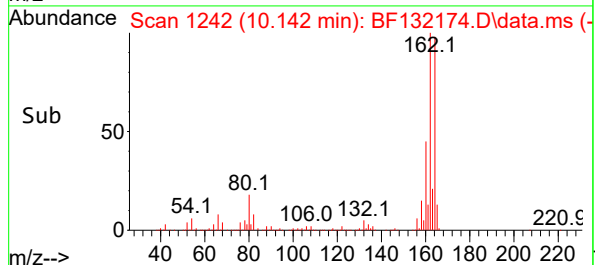
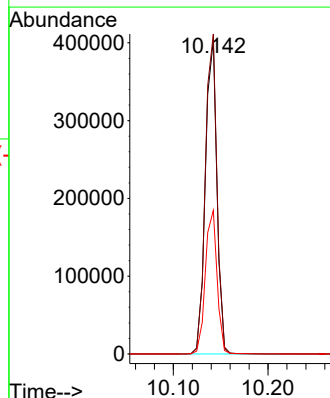
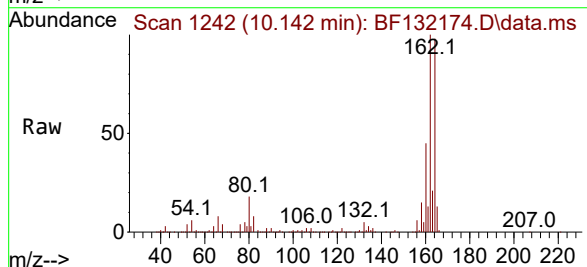
Tgt Ion: 164 Resp: 341753

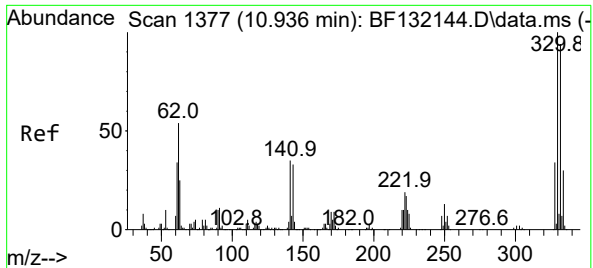
Ion Ratio Lower Upper

164 100

162 102.0 81.2 121.8

160 45.8 36.9 55.3





#42

2,4,6-Tribromophenol

Concen: 113.699 ng

RT: 10.936 min Scan# 1137

Delta R.T. 0.000 min

Lab File: BF132174.D

Acq: 20 Jan 2023 22:13

Instrument :

BNA_F

ClientSampleId :

B-P37B

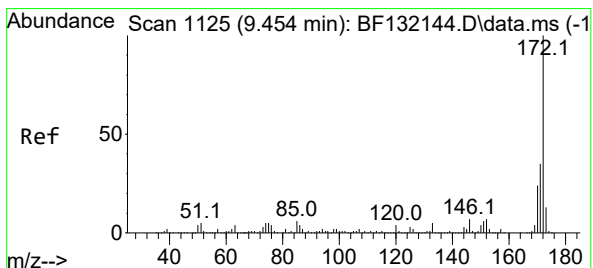
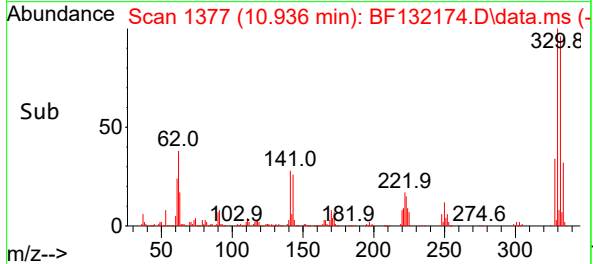
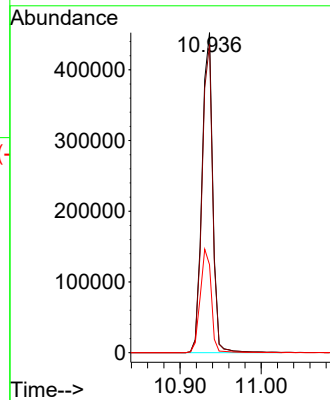
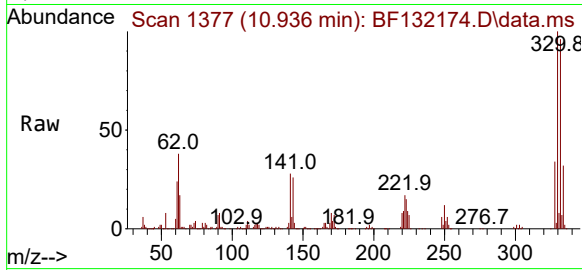
Tgt Ion:330 Resp: 415053

Ion Ratio Lower Upper

330 100

332 96.5 75.6 113.4

141 33.4 27.1 40.7



#45

2-Fluorobiphenyl

Concen: 63.761 ng

RT: 9.454 min Scan# 1125

Delta R.T. 0.000 min

Lab File: BF132174.D

Acq: 20 Jan 2023 22:13

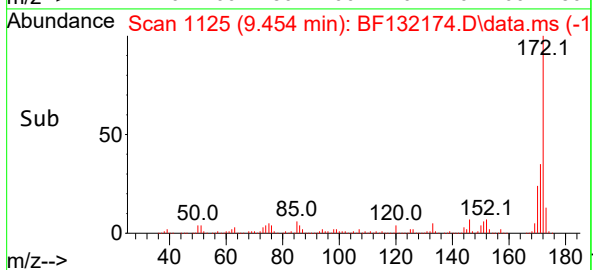
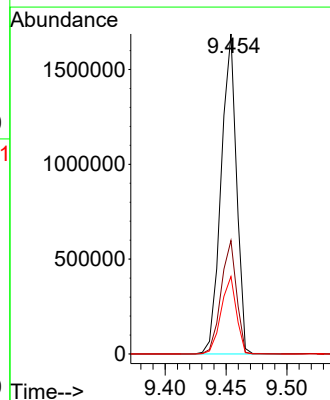
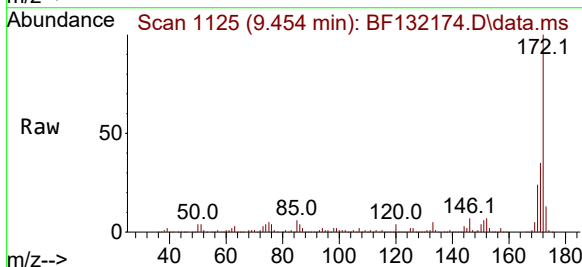
Tgt Ion:172 Resp: 1491252

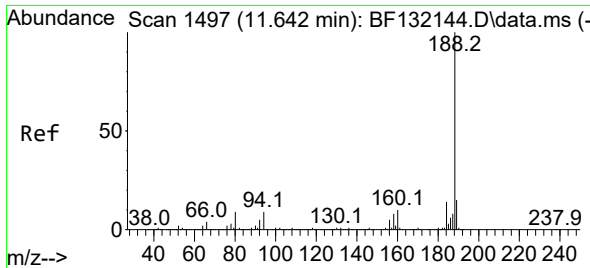
Ion Ratio Lower Upper

172 100

171 35.5 28.2 42.2

170 24.2 19.6 29.4

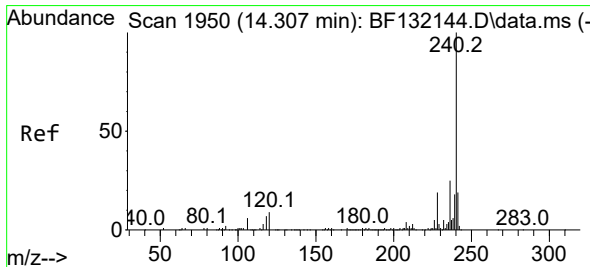
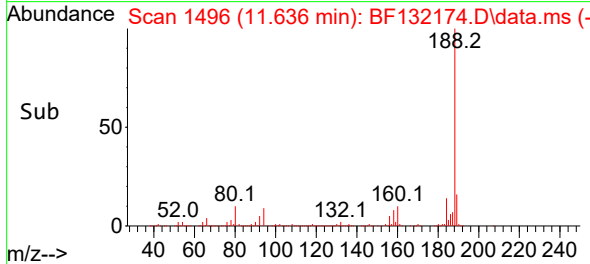
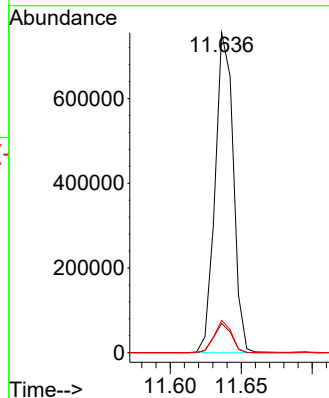
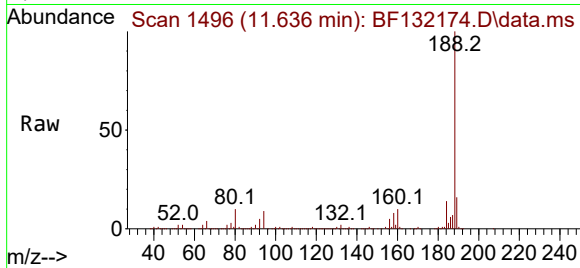




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.636 min Scan# 1496
Delta R.T. -0.006 min
Lab File: BF132174.D
Acq: 20 Jan 2023 22:13

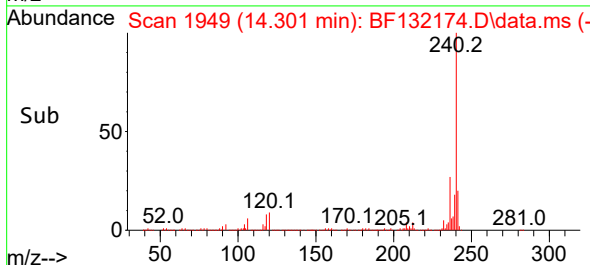
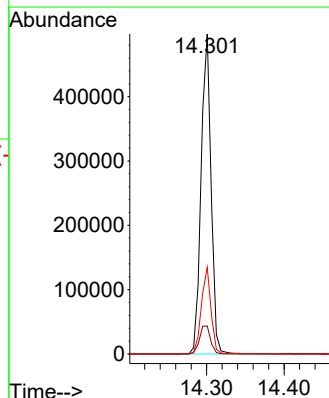
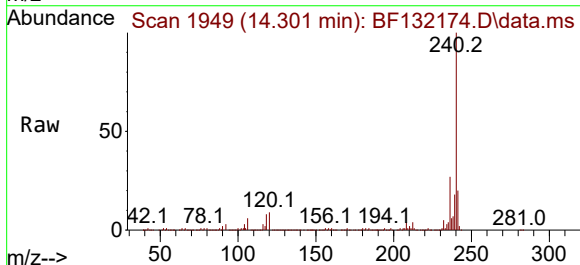
Instrument :
BNA_F
ClientSampleId :
B-P37B

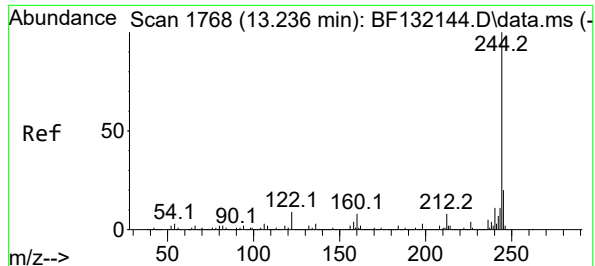
Tgt Ion:188 Resp: 670384
Ion Ratio Lower Upper
188 100
94 9.2 6.9 10.3
80 10.1 7.5 11.3



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.301 min Scan# 1949
Delta R.T. -0.006 min
Lab File: BF132174.D
Acq: 20 Jan 2023 22:13

Tgt Ion:240 Resp: 444362
Ion Ratio Lower Upper
240 100
120 8.8 6.9 10.3
236 27.1 20.3 30.5





#79

Terphenyl-d14

Concen: 66.965 ng

RT: 13.236 min Scan# 1768

Delta R.T. 0.000 min

Lab File: BF132174.D

Acq: 20 Jan 2023 22:13

Instrument :

BNA_F

ClientSampleId :

B-P37B

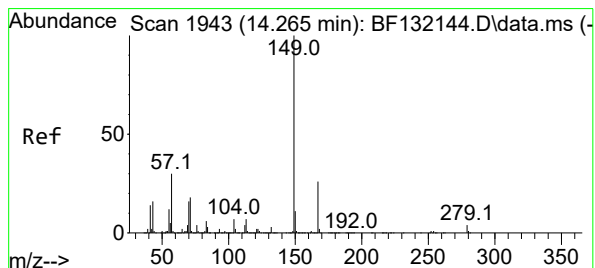
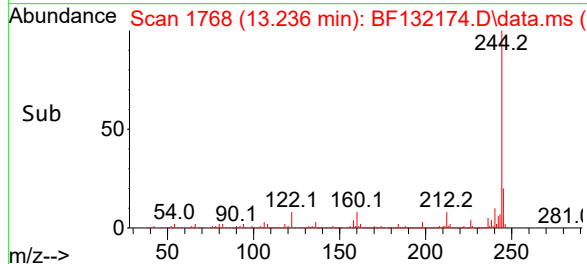
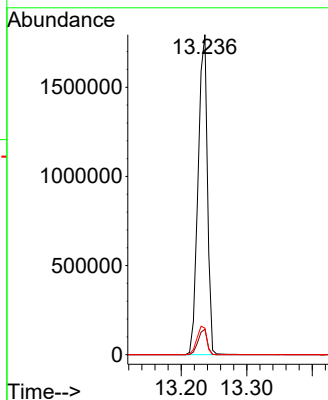
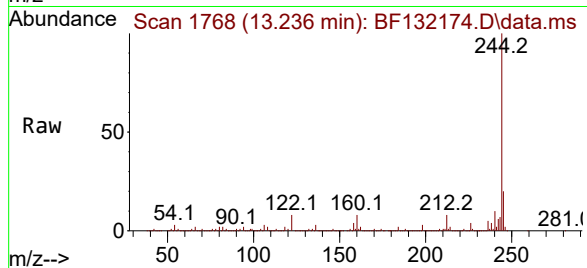
Tgt Ion:244 Resp: 1776413

Ion Ratio Lower Upper

244 100

212 7.9 6.7 10.1

122 8.3 7.4 11.2



#84

Bis(2-ethylhexyl)phthalate

Concen: 3.680 ng

RT: 14.265 min Scan# 1943

Delta R.T. 0.000 min

Lab File: BF132174.D

Acq: 20 Jan 2023 22:13

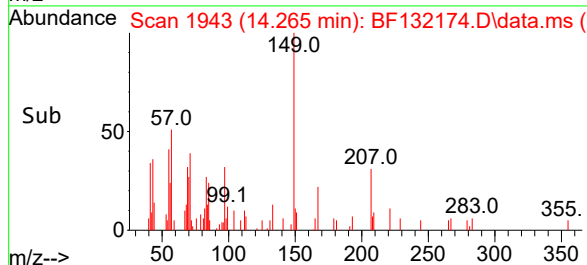
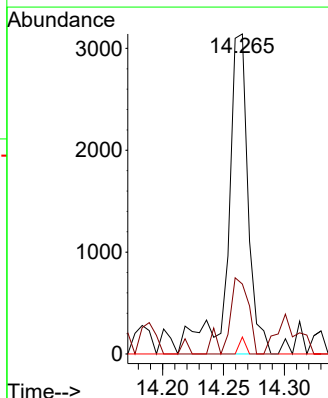
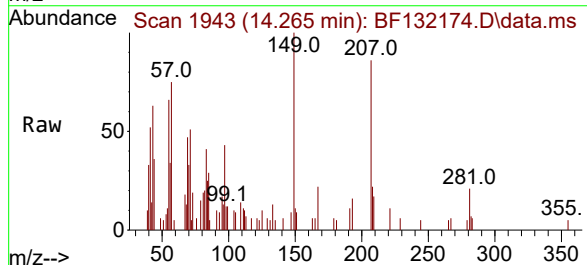
Tgt Ion:149 Resp: 3613

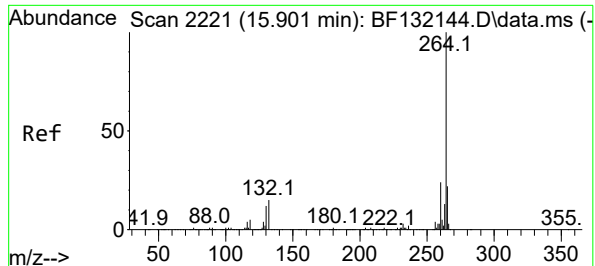
Ion Ratio Lower Upper

149 100

167 21.9 21.0 31.6

279 5.3 3.2 4.8#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.895 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF132174.D

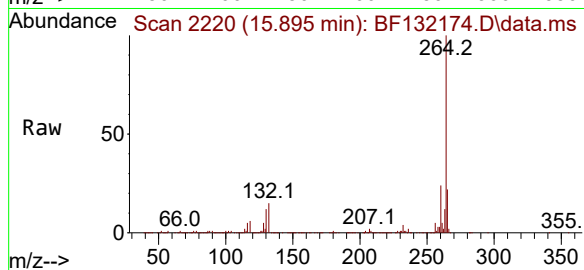
Acq: 20 Jan 2023 22:13

Instrument :

BNA_F

ClientSampleId :

B-P37B



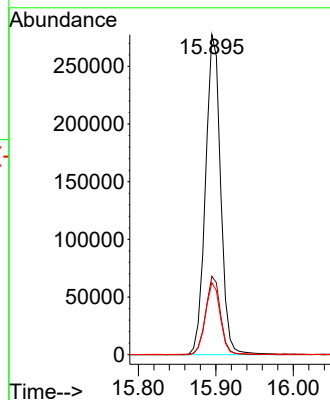
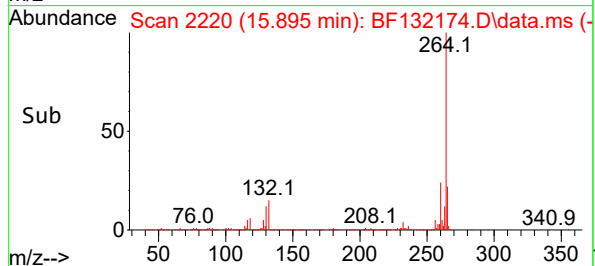
Tgt Ion:264 Resp: 375935

Ion Ratio Lower Upper

264 100

260 24.5 19.1 28.7

265 22.5 17.4 26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
 Data File : BF132174.D
 Acq On : 20 Jan 2023 22:13
 Operator : CG\JU
 Sample : 01233-07
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-P37B

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON Filtering: 5
 Sampling : 1 Min Area: 3 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF132174.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.337	419	425	435	rVB	1515601	1864522	39.34%	5.380%
2	5.713	484	489	492	rBV	3838282	3946134	83.25%	11.386%
3	6.701	651	657	660	rBV	3630240	4029787	85.02%	11.627%
4	7.089	719	723	726	rBV	1337777	1061011	22.38%	3.061%
5	7.648	813	818	821	rBV	2647110	2653289	55.98%	7.656%
6	8.378	938	942	945	rBV	1551247	1326217	27.98%	3.827%
7	9.454	1120	1125	1128	rBV	5171134	4518652	95.33%	13.038%
8	10.142	1238	1242	1245	rBV	1757185	1514851	31.96%	4.371%
9	10.854	1359	1363	1367	rBV	533223	405116	8.55%	1.169%
10	10.930	1372	1376	1380	rBV	3265125	3176894	67.02%	9.166%
11	11.636	1492	1496	1500	rBV	1832742	1626801	34.32%	4.694%
12	12.148	1577	1583	1588	rBV	678499	626426	13.22%	1.807%
13	12.189	1588	1590	1598	rVB	100636	93326	1.97%	0.269%
14	12.401	1623	1626	1630	rBV	109662	93767	1.98%	0.271%
15	12.860	1699	1704	1708	rBV4	35781	54026	1.14%	0.156%
16	12.936	1714	1717	1727	rBV	260217	262369	5.54%	0.757%
17	13.236	1763	1768	1771	rBV	4729486	4739946	100.00%	13.676%
18	14.130	1916	1920	1921	rBV2	78459	86722	1.83%	0.250%
19	14.301	1945	1949	1952	rBV	1355989	1210212	25.53%	3.492%
20	14.760	2023	2027	2030	rBV	58692	54145	1.14%	0.156%
21	15.189	2097	2100	2104	rVB	67755	69254	1.46%	0.200%
22	15.483	2146	2150	2156	rVB	67441	85592	1.81%	0.247%
23	15.895	2215	2220	2232	rVB	742590	1042544	21.99%	3.008%
24	16.412	2303	2308	2314	rBV	38783	65494	1.38%	0.189%
25	16.995	2402	2407	2414	rVB3	26856	50800	1.07%	0.147%

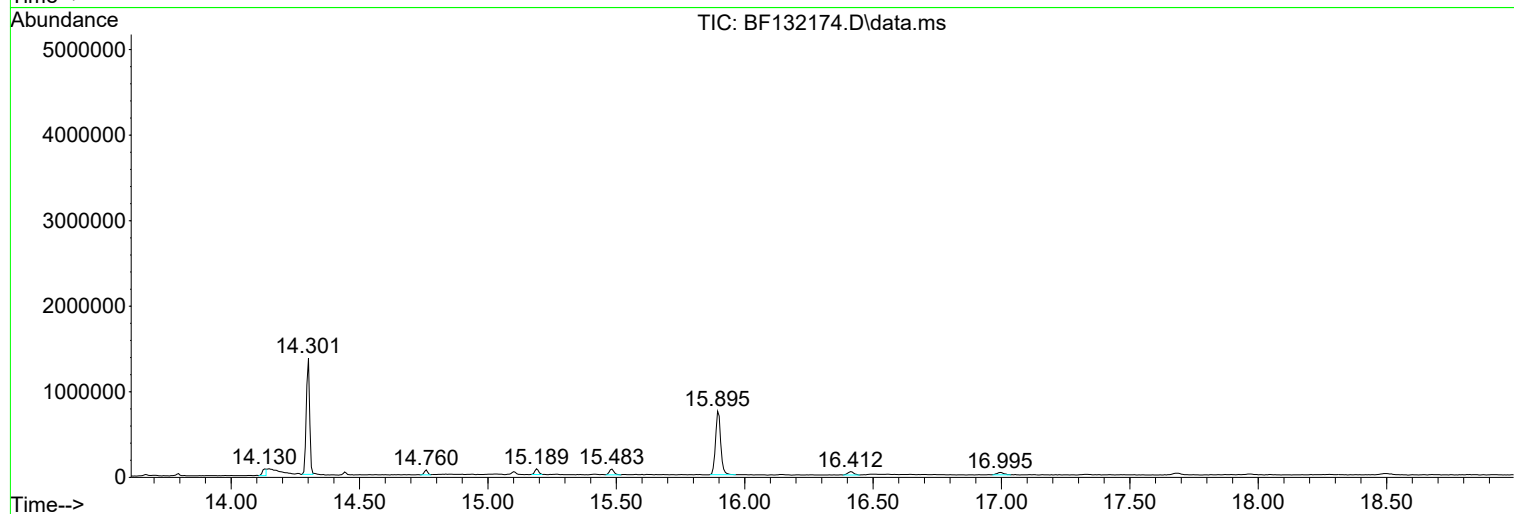
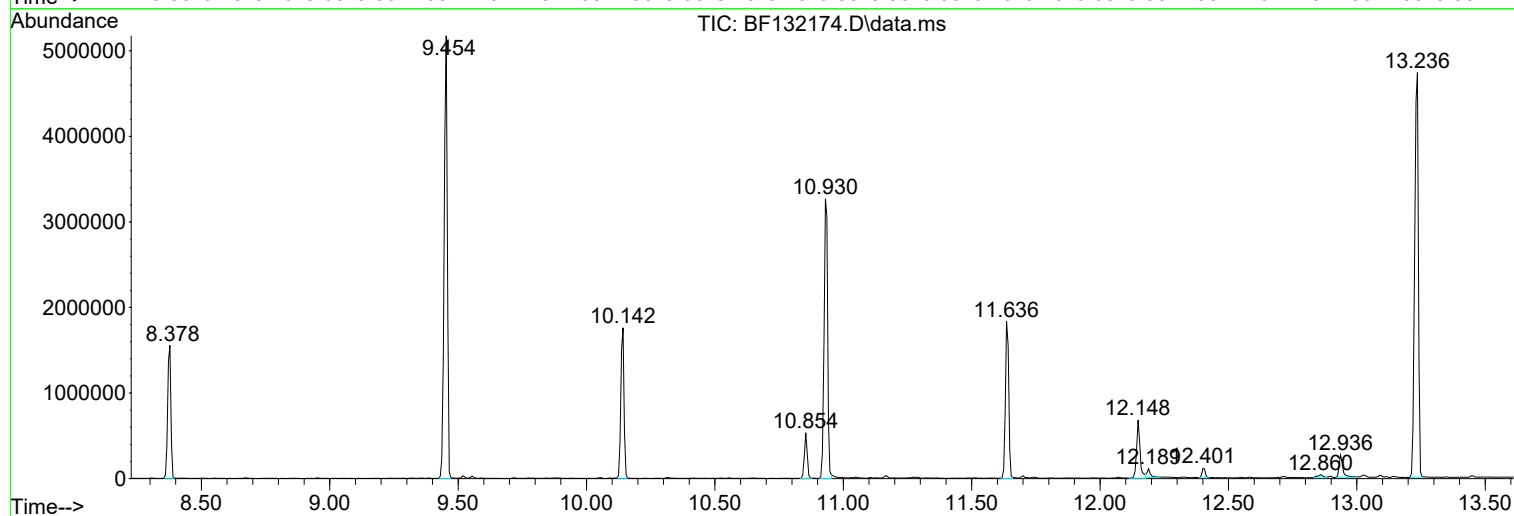
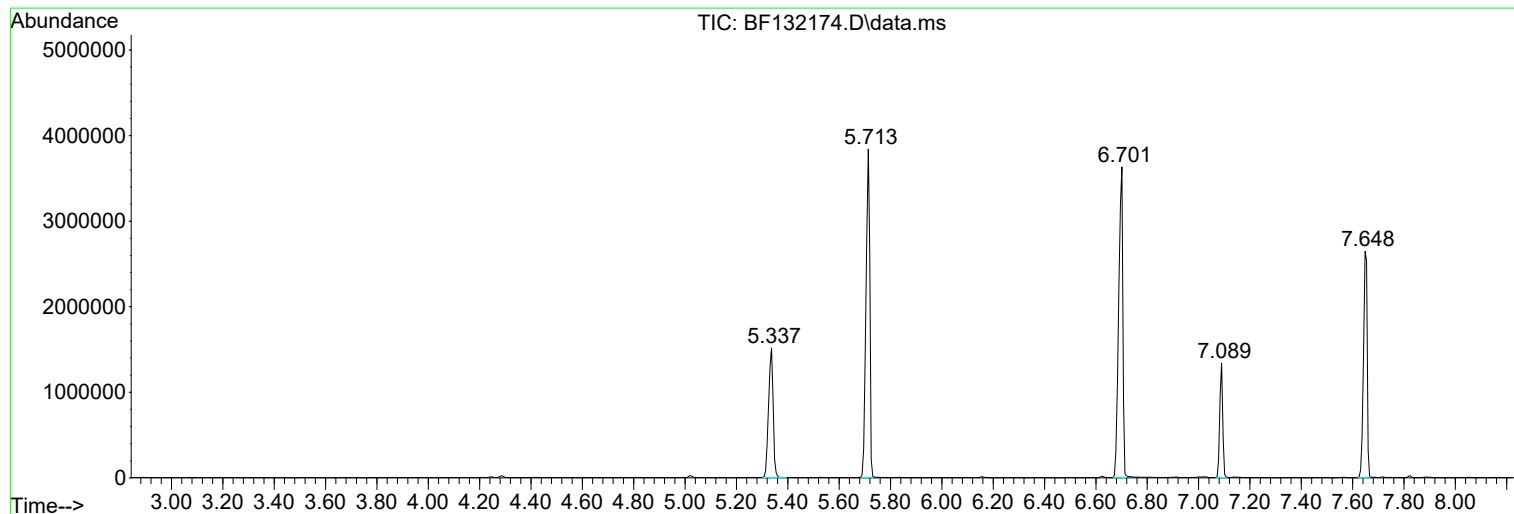
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132174.D
Acq On : 20 Jan 2023 22:13
Operator : CG\JU
Sample : 01233-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P37B

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132174.D
Acq On : 20 Jan 2023 22:13
Operator : CG\JU
Sample : 01233-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P37B

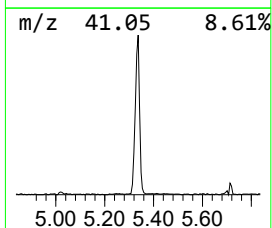
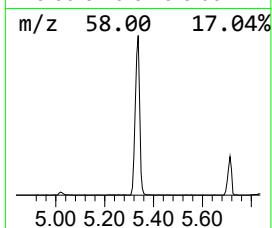
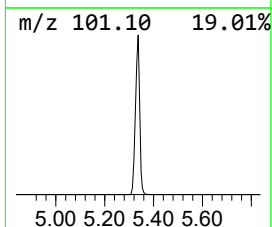
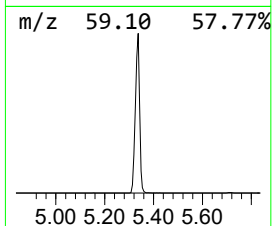
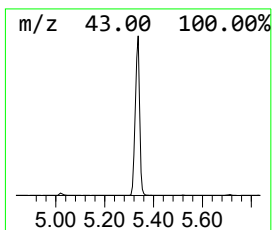
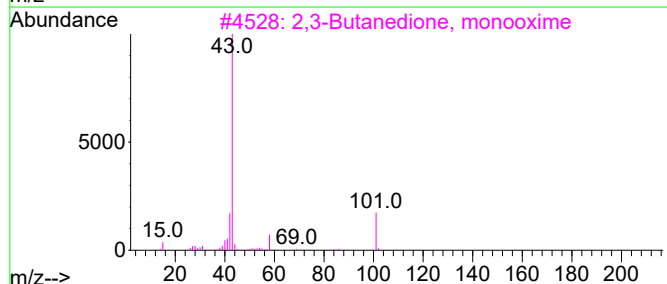
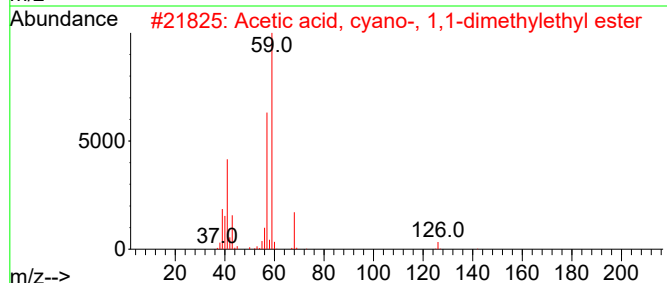
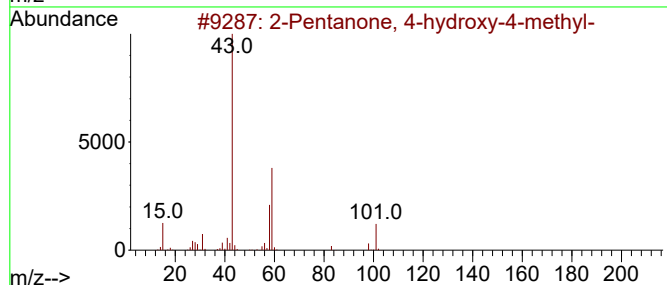
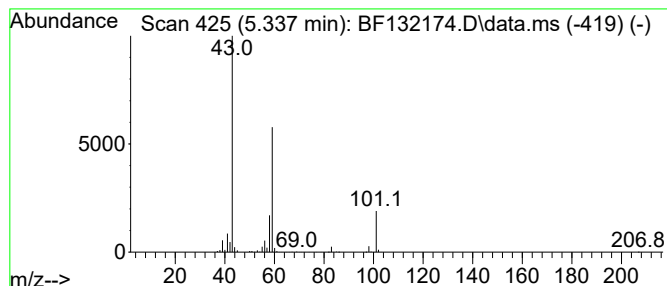
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.337	35.15 ng	1864520	1,4-Dichlorobenzene-d4	7.089

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2			Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	37
3			2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
4			1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5			Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132174.D
Acq On : 20 Jan 2023 22:13
Operator : CG\JU
Sample : 01233-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P37B

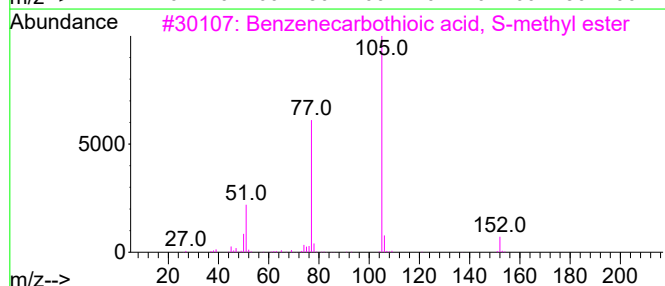
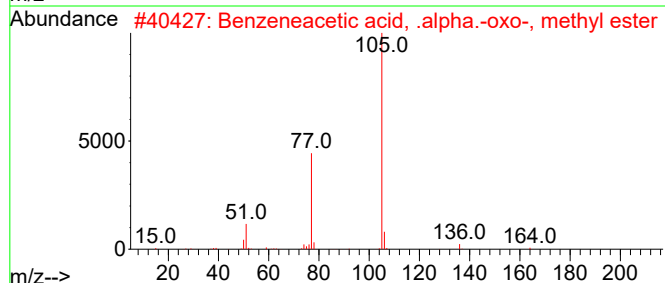
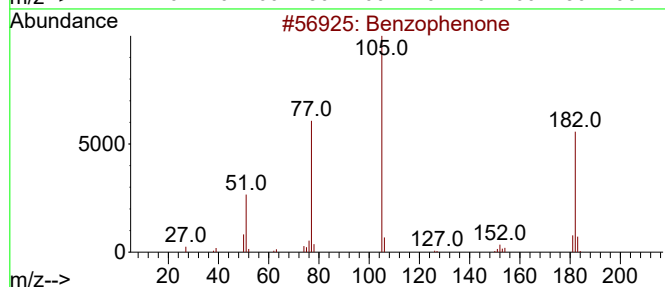
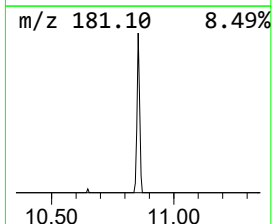
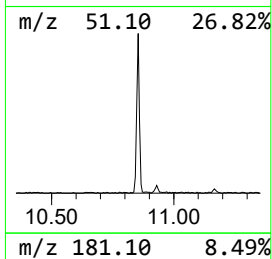
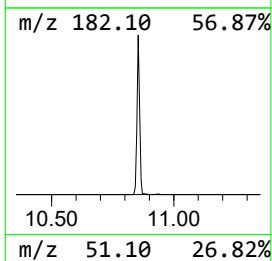
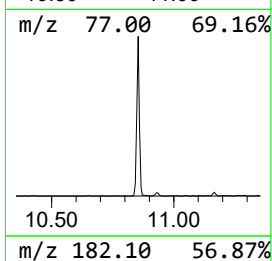
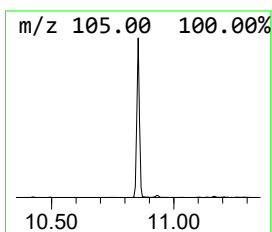
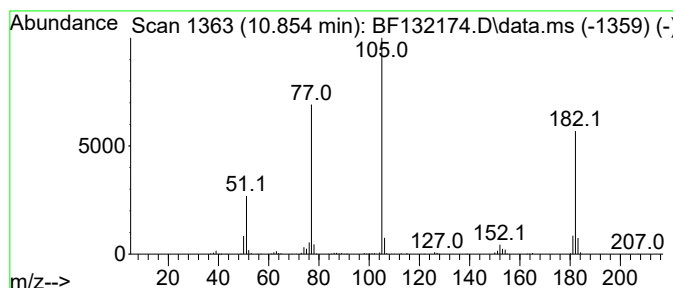
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.854	5.35 ng	405116	Acenaphthene-d10	10.142

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	96
2			Benzeneacetic acid, .alpha.-oxo-...	164	C9H8O3	015206-55-0	60
3			Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	52
4			1-Propanone, 3-chloro-1-phenyl-	168	C9H9ClO	000936-59-4	47
5			2-Benzoyl-4-bromo-5-methyl-1,2-o...	281	C11H8BrNO3	1000444-92-3	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132174.D
Acq On : 20 Jan 2023 22:13
Operator : CG\JU
Sample : 01233-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

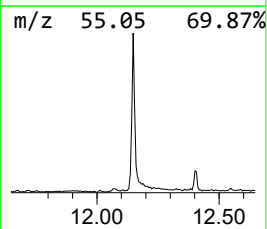
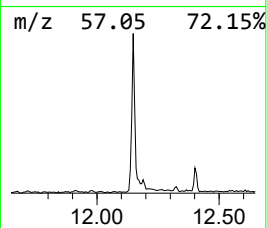
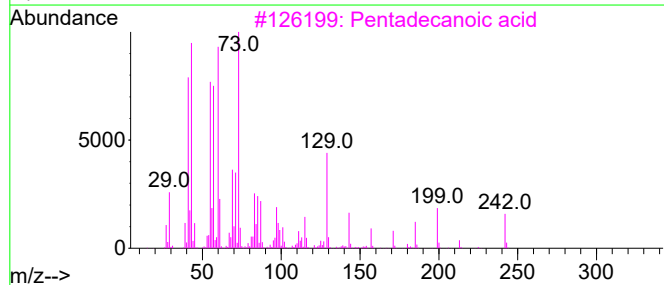
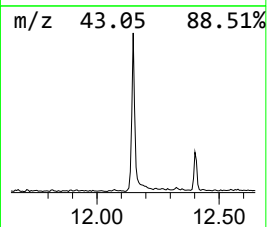
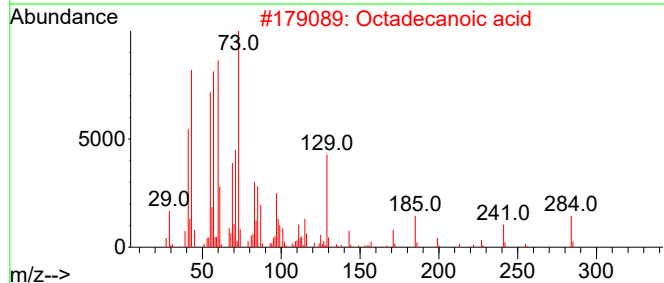
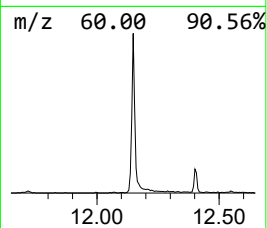
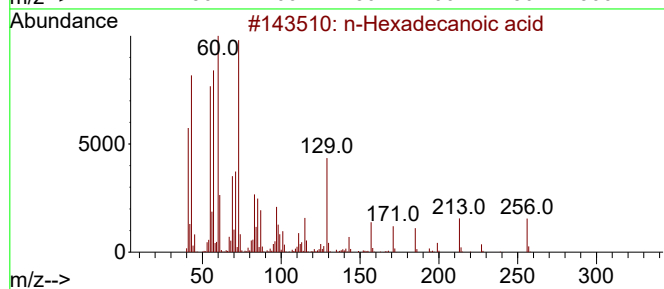
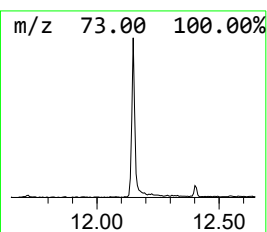
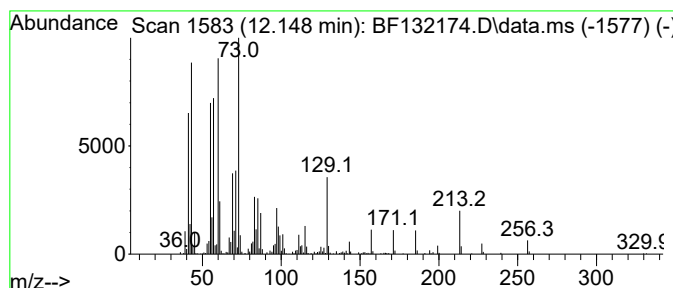
Instrument :
BNA_F
ClientSampleId :
B-P37B

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.	
12.148	7.70 ng	626426	Phenanthrene-d10	11.636	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Octadecanoic acid	284	C18H36O2	000057-11-4	93
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	93
4	Tridecanoic acid	214	C13H26O2	000638-53-9	91
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	83



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132174.D
Acq On : 20 Jan 2023 22:13
Operator : CG\JU
Sample : 01233-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P37B

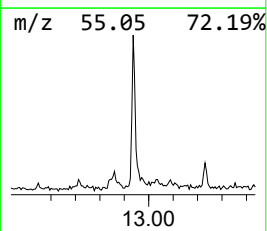
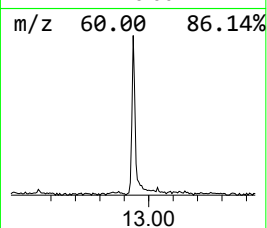
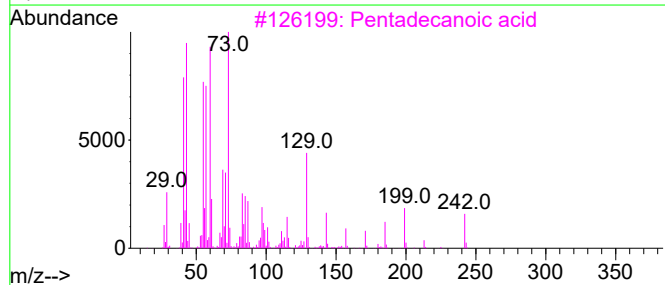
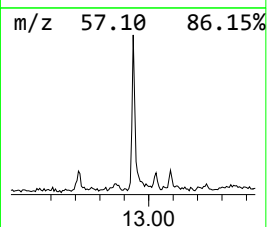
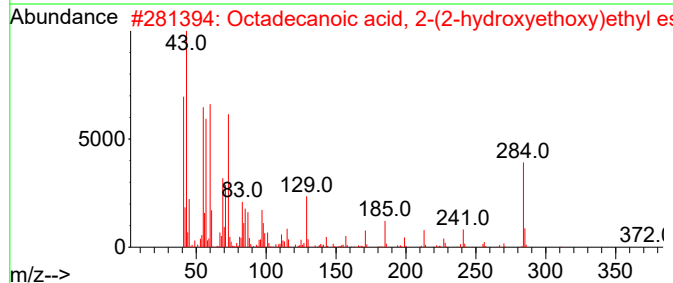
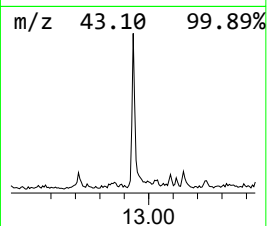
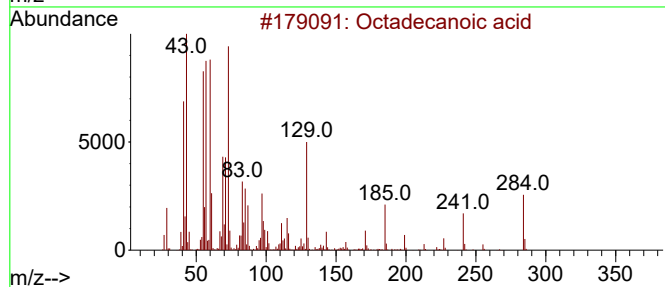
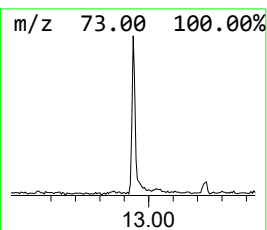
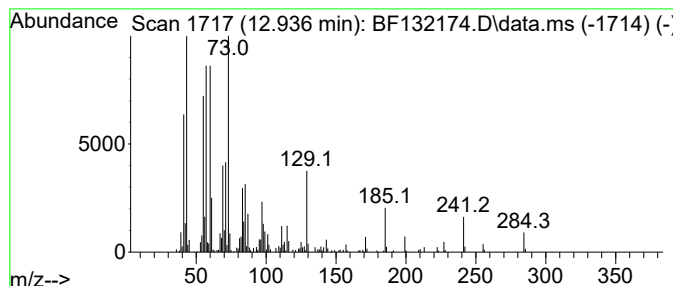
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 Octadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.936	3.23 ng	262369	Phenanthrene-d10	11.636

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Octadecanoic acid	284	C18H36O2	000057-11-4	99
2			Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	90
3			Pentadecanoic acid	242	C15H30O2	001002-84-2	87
4			8-Methylnonanoic acid	172	C10H20O2	005963-14-4	38
5			Carbonic acid, eicosyl vinyl ester	368	C23H44O3	1000382-54-3	35



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132174.D
Acq On : 20 Jan 2023 22:13
Operator : CG\JU
Sample : 01233-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P37B

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
2-Pentanone, 4-...	5.337	35.1	ng	1864520	1	7.089	1061010	20.0
Benzophenone	10.854	5.3	ng	405116	3	10.142	1514850	20.0
n-Hexadecanoic ...	12.148	7.7	ng	626426	4	11.636	1626800	20.0
Octadecanoic acid	12.936	3.2	ng	262369	4	11.636	1626800	20.0



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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P38A	SDG No.:	O1233
Lab Sample ID:	O1233-08	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	89.3
Sample Wt/Vol:	30.1 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG056392.D	1	01/20/23 12:30	01/23/23 20:31	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	160	U	160	370	ug/Kg
108-95-2	Phenol	75.6	U	75.6	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	89.6	U	89.6	190	ug/Kg
95-57-8	2-Chlorophenol	76.2	U	76.2	190	ug/Kg
95-48-7	2-Methylphenol	120	U	120	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	110	U	110	190	ug/Kg
98-86-2	Acetophenone	89.4	U	89.4	190	ug/Kg
65794-96-9	3+4-Methylphenols	110	U	110	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	84.9	U	84.9	89.3	ug/Kg
67-72-1	Hexachloroethane	82.3	U	82.3	190	ug/Kg
98-95-3	Nitrobenzene	82.5	U	82.5	190	ug/Kg
78-59-1	Isophorone	74.3	U	74.3	190	ug/Kg
88-75-5	2-Nitrophenol	100	U	100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	110	U	110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	120	U	120	190	ug/Kg
120-83-2	2,4-Dichlorophenol	91.2	U	91.2	190	ug/Kg
91-20-3	Naphthalene	82.5	U	82.5	190	ug/Kg
106-47-8	4-Chloroaniline	110	U	110	190	ug/Kg
87-68-3	Hexachlorobutadiene	110	U	110	190	ug/Kg
105-60-2	Caprolactam	110	U	110	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	87.8	U	87.8	190	ug/Kg
91-57-6	2-Methylnaphthalene	83.7	U	83.7	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	190	U	190	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	95.3	U	95.3	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	93.3	U	93.3	190	ug/Kg
92-52-4	1,1-Biphenyl	96.5	U	96.5	190	ug/Kg
91-58-7	2-Chloronaphthalene	95.4	U	95.4	190	ug/Kg
88-74-4	2-Nitroaniline	120	U	120	190	ug/Kg
131-11-3	Dimethylphthalate	90.3	U	90.3	190	ug/Kg
208-96-8	Acenaphthylene	76.7	U	76.7	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	87.2	U	87.2	190	ug/Kg



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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P38A	SDG No.:	O1233
Lab Sample ID:	O1233-08	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	89.3
Sample Wt/Vol:	30.1 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG056392.D	1	01/20/23 12:30	01/23/23 20:31	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	110	U	110	190	ug/Kg
83-32-9	Acenaphthene	88.1	U	88.1	190	ug/Kg
51-28-5	2,4-Dinitrophenol	140	U	140	370	ug/Kg
100-02-7	4-Nitrophenol	150	U	150	370	ug/Kg
132-64-9	Dibenzofuran	82.8	U	82.8	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	94.4	U	94.4	190	ug/Kg
84-66-2	Diethylphthalate	89.8	U	89.8	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	100	U	100	190	ug/Kg
86-73-7	Fluorene	87.9	U	87.9	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	96.2	U	96.2	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	91.7	U	91.7	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	110	U	110	190	ug/Kg
118-74-1	Hexachlorobenzene	120	U	120	190	ug/Kg
1912-24-9	Atrazine	100	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	130	U	130	370	ug/Kg
85-01-8	Phenanthrene	93.3	U	93.3	190	ug/Kg
120-12-7	Anthracene	93.8	U	93.8	190	ug/Kg
86-74-8	Carbazole	94.0	U	94.0	190	ug/Kg
84-74-2	Di-n-butylphthalate	97.1	U	97.1	190	ug/Kg
206-44-0	Fluoranthene	89.1	U	89.1	190	ug/Kg
129-00-0	Pyrene	82.8	U	82.8	190	ug/Kg
85-68-7	Butylbenzylphthalate	92.3	U	92.3	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	150	U	150	370	ug/Kg
56-55-3	Benzo(a)anthracene	96.9	U	96.9	190	ug/Kg
218-01-9	Chrysene	95.4	U	95.4	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	98.9	U	98.9	190	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	77.0	U	77.0	190	ug/Kg
207-08-9	Benzo(k)fluoranthene	82.1	U	82.1	190	ug/Kg
50-32-8	Benzo(a)pyrene	75.6	U	75.6	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	110	U	110	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	110	U	110	190	ug/Kg



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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P38A	SDG No.:	O1233
Lab Sample ID:	O1233-08	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	89.3
Sample Wt/Vol:	30.1 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG056392.D	1	01/20/23 12:30	01/23/23 20:31	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	110	U	110	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	100	U	100	190	ug/Kg
123-91-1	1,4-Dioxane	99.4	U	99.4	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	90.6	U	90.6	190	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	135		18 - 112	90%	SPK: 150
13127-88-3	Phenol-d6	119		21 - 104	80%	SPK: 150
4165-60-0	Nitrobenzene-d5	63.8		27 - 109	64%	SPK: 100
321-60-8	2-Fluorobiphenyl	65.9		30 - 103	66%	SPK: 100
118-79-6	2,4,6-Tribromophenol	94.2		10 - 121	63%	SPK: 150
1718-51-0	Terphenyl-d14	71.2		21 - 107	71%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	36800	8.3			
1146-65-2	Naphthalene-d8	158000	11.126			
15067-26-2	Acenaphthene-d10	127000	14.91			
1517-22-2	Phenanthrene-d10	313000	17.648			
1719-03-5	Chrysene-d12	276000	21.937			
1520-96-3	Perylene-d12	296000	25.362			

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	660	AB		5.33	ug/Kg
000119-61-9	Benzophenone	180	J		16.2	ug/Kg
000295-17-0	Cyclotetradecane	140	J		21.5	ug/Kg

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG012323\
Data File : BG056392.D
Acq On : 23 Jan 2023 20:31
Operator : CG/JU
Sample : 01233-08
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
B-38A

Quant Time: Jan 24 01:24:30 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 19 00:31:30 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.300	152	36838	20.000	ng	0.00
21) Naphthalene-d8	11.126	136	157784	20.000	ng	#-0.01
39) Acenaphthene-d10	14.910	164	127381	20.000	ng	-0.01
64) Phenanthrene-d10	17.648	188	312833	20.000	ng	-0.01
76) Chrysene-d12	21.937	240	275682	20.000	ng	#-0.02
86) Perylene-d12	25.362	264	296075	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.820	112	277598	134.549	ng	0.00
7) Phenol-d6	7.442	99	377847	119.253	ng	0.00
23) Nitrobenzene-d5	9.469	82	196839	63.813	ng	-0.02
42) 2,4,6-Tribromophenol	16.390	330	151963	94.196	ng	-0.01
45) 2-Fluorobiphenyl	13.535	172	607932	65.904	ng	-0.01
79) Terphenyl-d14	20.221	244	1095384	71.165	ng	-0.01

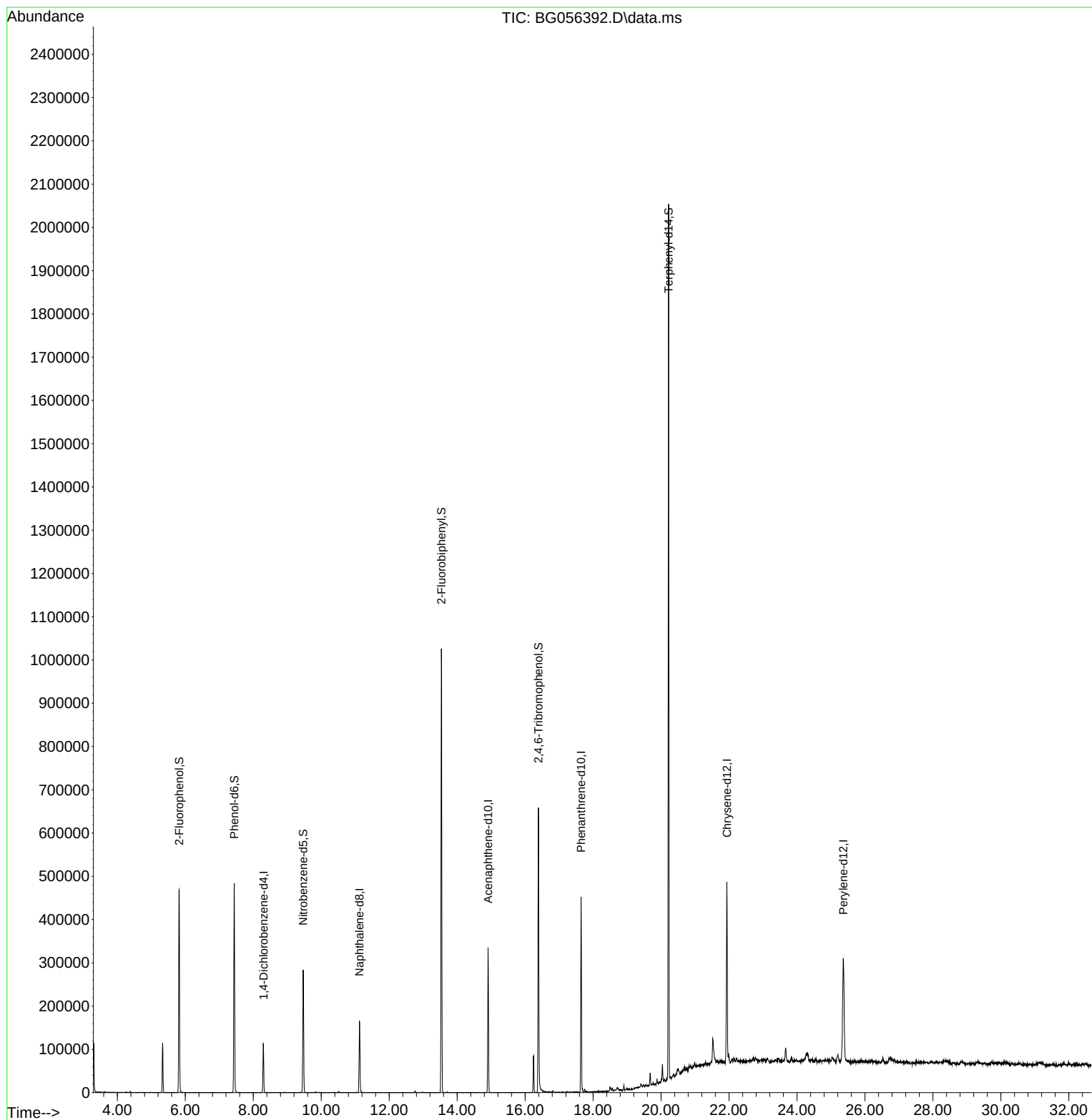
Target Compounds	Qvalue

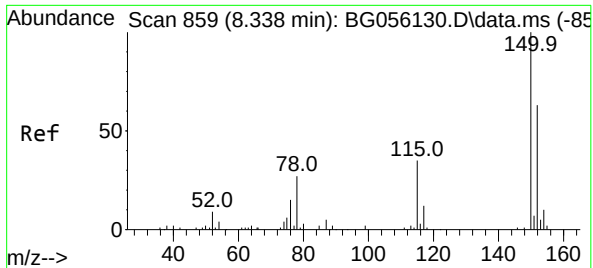
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG012323\
Data File : BG056392.D
Acq On : 23 Jan 2023 20:31
Operator : CG/JU
Sample : 01233-08
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
B-38A

Quant Time: Jan 24 01:24:30 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 19 00:31:30 2023
Response via : Initial Calibration

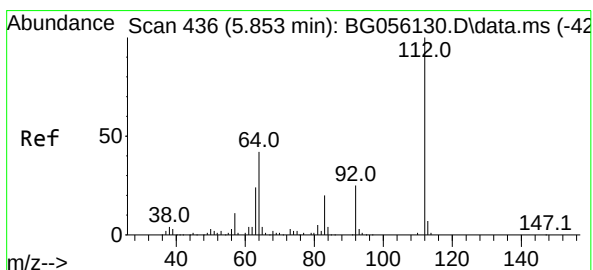
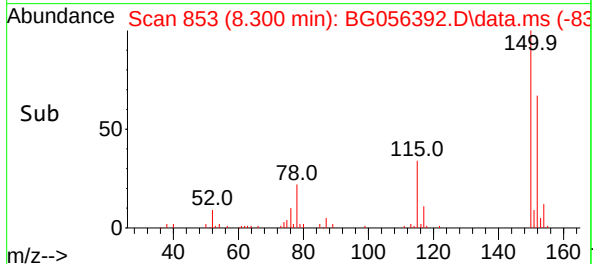
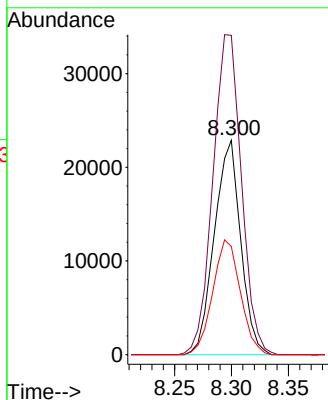
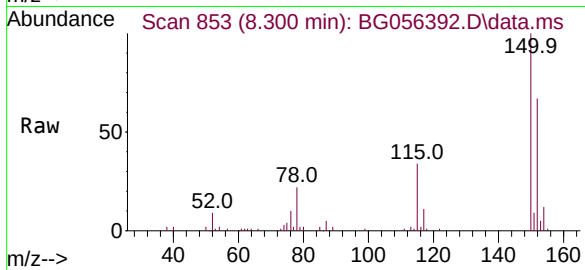




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.300 min Scan# 81
Delta R.T. -0.006 min
Lab File: BG056392.D
Acq: 23 Jan 2023 20:31

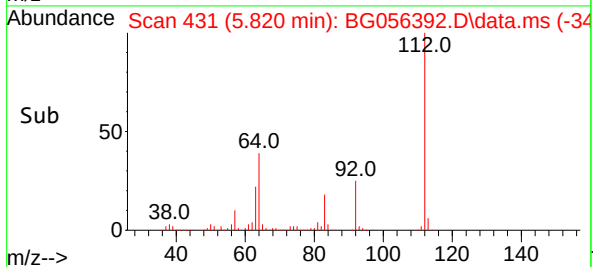
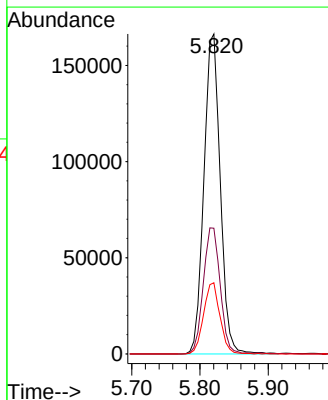
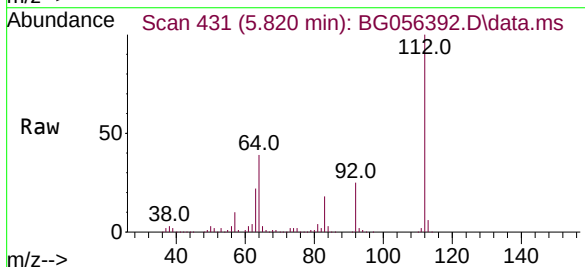
Instrument :
BNA_G
ClientSampleId :
B-38A

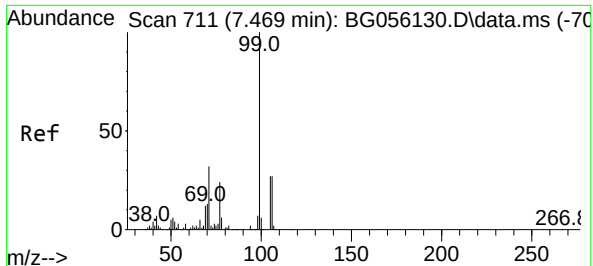
Tgt Ion:152 Resp: 36838
Ion Ratio Lower Upper
152 100
150 149.0 127.9 191.9
115 50.4 44.2 66.2



#5
2-Fluorophenol
Concen: 134.549 ng
RT: 5.820 min Scan# 431
Delta R.T. -0.006 min
Lab File: BG056392.D
Acq: 23 Jan 2023 20:31

Tgt Ion:112 Resp: 277598
Ion Ratio Lower Upper
112 100
64 39.3 33.3 49.9
63 22.2 19.0 28.4

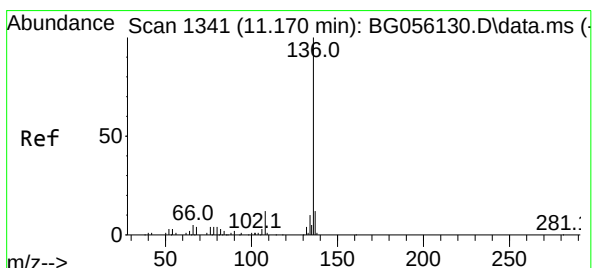
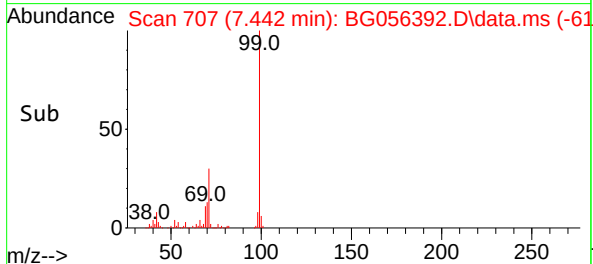
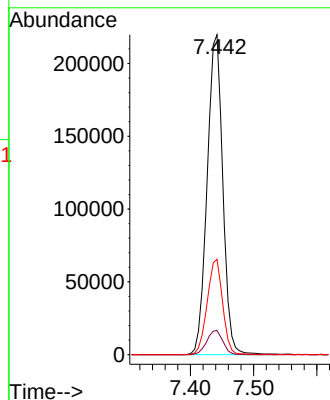
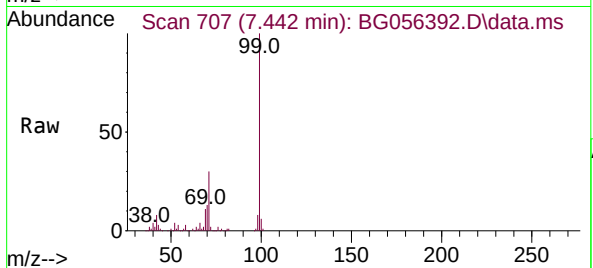




#7
Phenol-d6
Concen: 119.253 ng
RT: 7.442 min Scan# 70
Delta R.T. -0.006 min
Lab File: BG056392.D
Acq: 23 Jan 2023 20:31

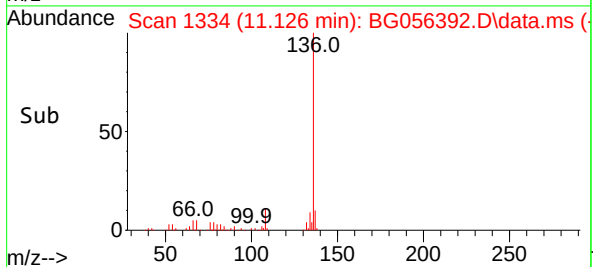
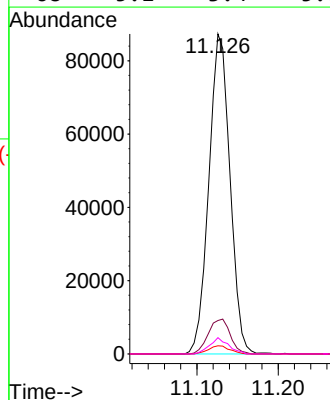
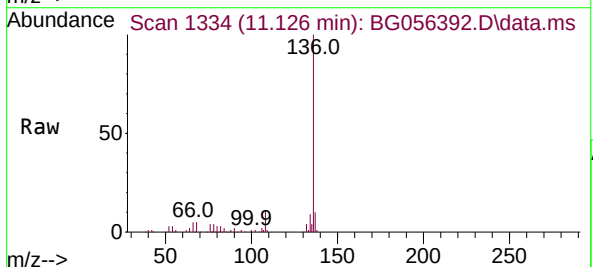
Instrument :
BNA_G
ClientSampleId :
B-38A

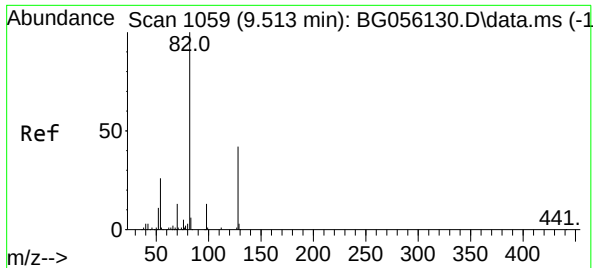
Tgt Ion: 99 Resp: 377847
Ion Ratio Lower Upper
99 100
42 7.5 5.9 8.9
71 29.8 25.4 38.2



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.126 min Scan# 1334
Delta R.T. -0.012 min
Lab File: BG056392.D
Acq: 23 Jan 2023 20:31

Tgt Ion: 136 Resp: 157784
Ion Ratio Lower Upper
136 100
137 10.4 9.4 14.0
54 2.5 2.2 3.2
68 5.1 3.4 5.0#





#23

Nitrobenzene-d5

Concen: 63.813 ng

RT: 9.469 min Scan# 1059

Delta R.T. -0.018 min

Lab File: BG056392.D

Acq: 23 Jan 2023 20:31

Instrument :

BNA_G

ClientSampleId :

B-38A

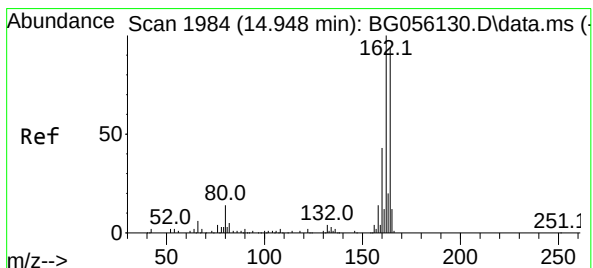
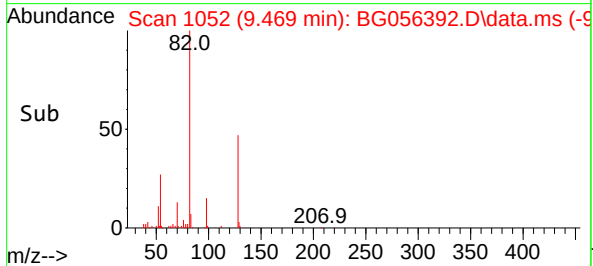
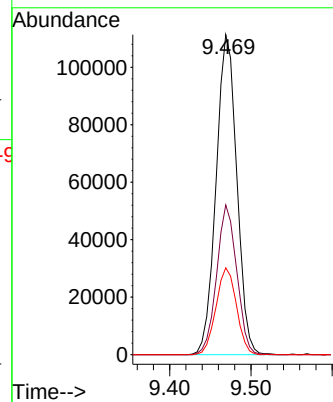
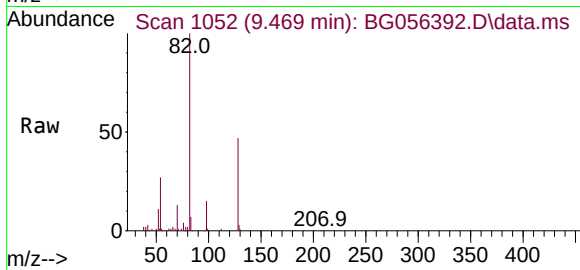
Tgt Ion: 82 Resp: 196839

Ion Ratio Lower Upper

82 100

128 46.8 33.4 50.2

54 27.1 20.3 30.5



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.910 min Scan# 1978

Delta R.T. -0.012 min

Lab File: BG056392.D

Acq: 23 Jan 2023 20:31

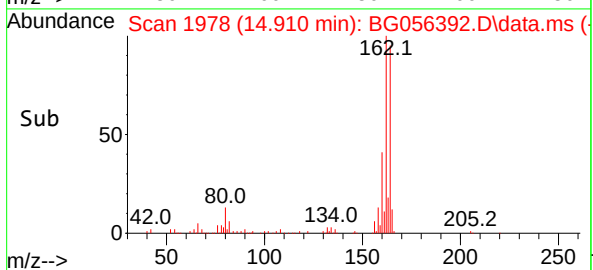
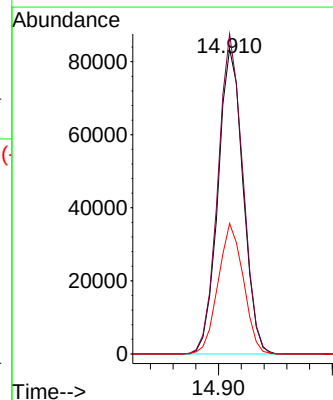
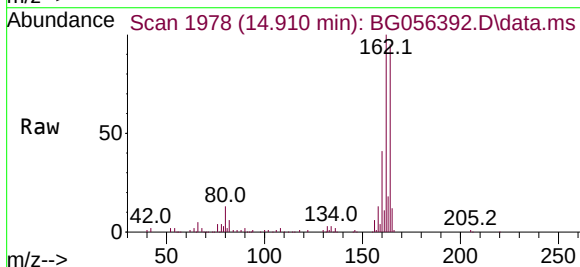
Tgt Ion: 164 Resp: 127381

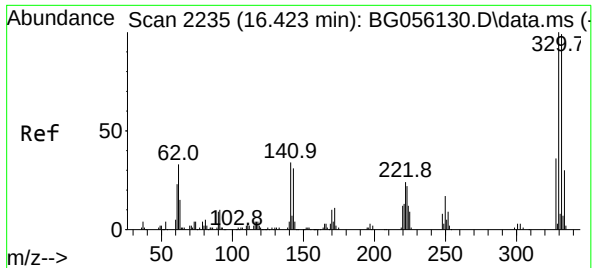
Ion Ratio Lower Upper

164 100

162 104.9 84.7 127.1

160 42.8 36.3 54.5

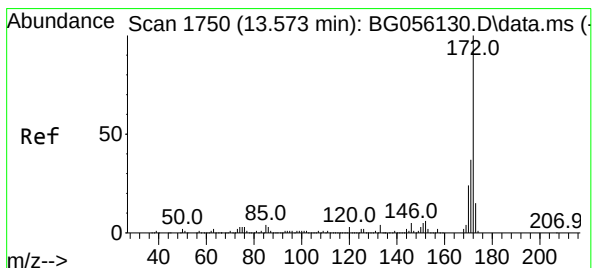
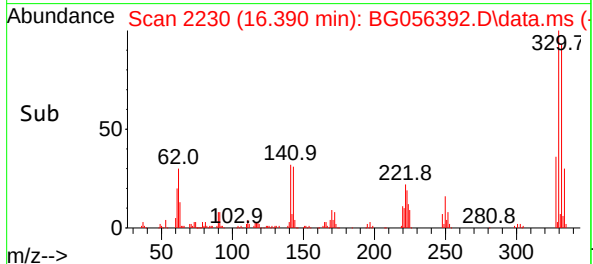
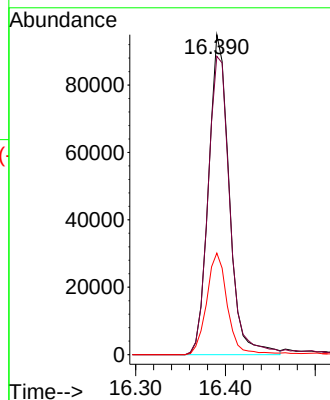
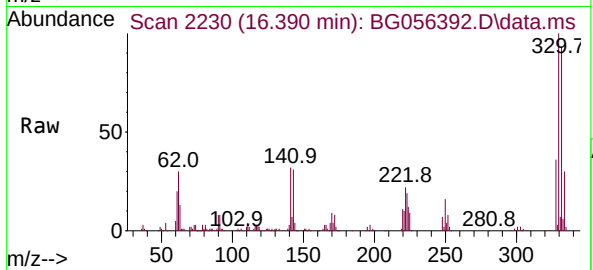




#42
2,4,6-Tribromophenol
Concen: 94.196 ng
RT: 16.390 min Scan# 21
Delta R.T. -0.012 min
Lab File: BG056392.D
Acq: 23 Jan 2023 20:31

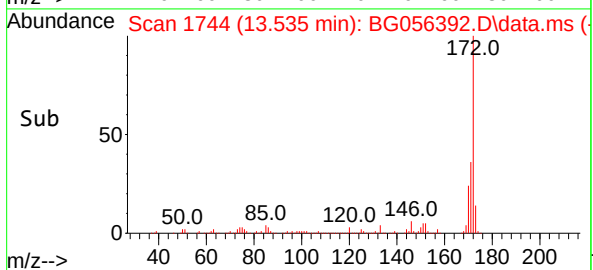
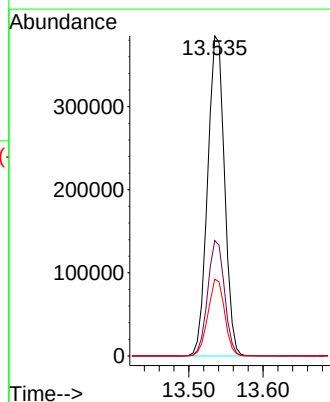
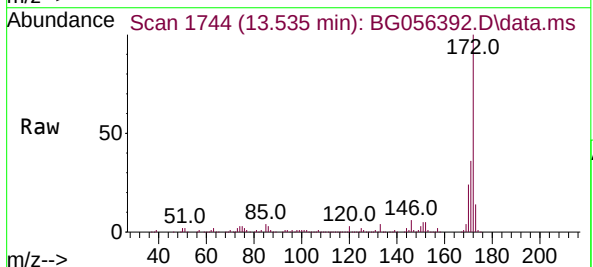
Instrument :
BNA_G
ClientSampleId :
B-38A

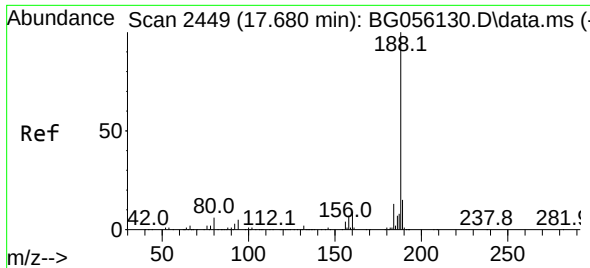
Tgt Ion:330 Resp: 151963
Ion Ratio Lower Upper
330 100
332 100.2 77.3 115.9
141 32.1 27.9 41.9



#45
2-Fluorobiphenyl
Concen: 65.904 ng
RT: 13.535 min Scan# 1744
Delta R.T. -0.012 min
Lab File: BG056392.D
Acq: 23 Jan 2023 20:31

Tgt Ion:172 Resp: 607932
Ion Ratio Lower Upper
172 100
171 36.1 29.6 44.4
170 24.0 19.4 29.2

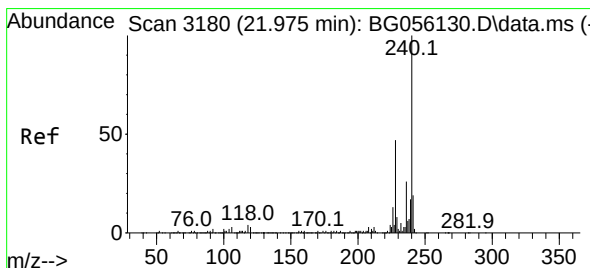
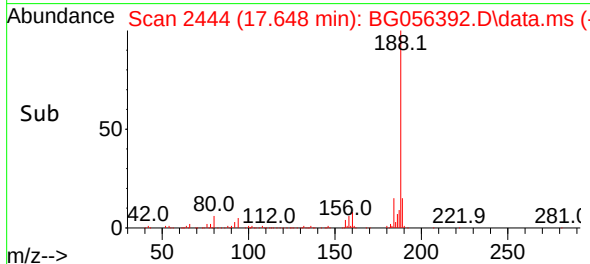
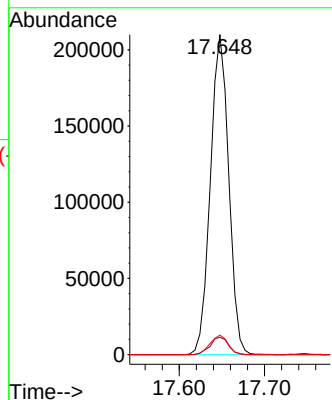
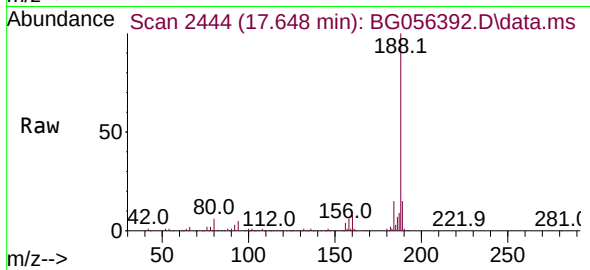




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.648 min Scan# 2444
Delta R.T. -0.012 min
Lab File: BG056392.D
Acq: 23 Jan 2023 20:31

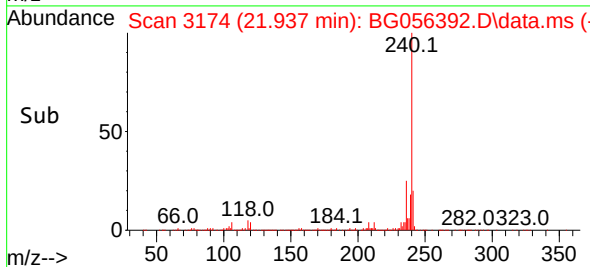
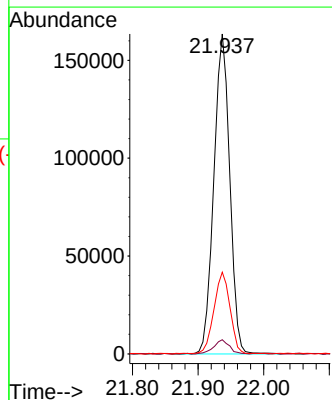
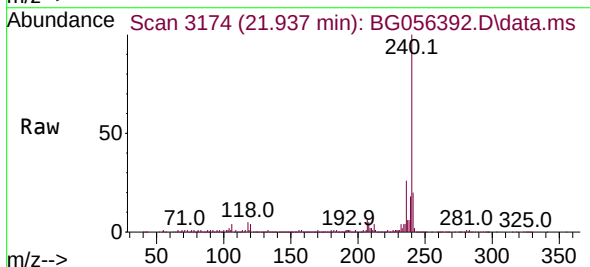
Instrument :
BNA_G
ClientSampleId :
B-38A

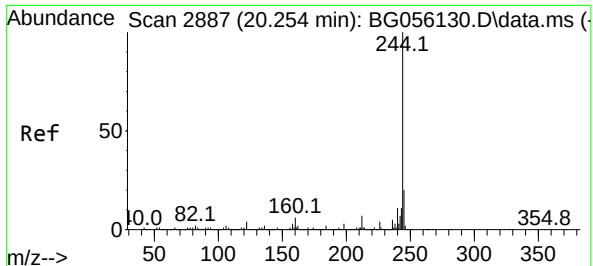
Tgt Ion:188 Resp: 312833
Ion Ratio Lower Upper
188 100
94 5.4 4.2 6.2
80 6.1 5.0 7.4



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.937 min Scan# 3174
Delta R.T. -0.018 min
Lab File: BG056392.D
Acq: 23 Jan 2023 20:31

Tgt Ion:240 Resp: 275682
Ion Ratio Lower Upper
240 100
120 4.4 2.6 4.0#
236 25.5 20.8 31.2





#79

Terphenyl-d14

Concen: 71.165 ng

RT: 20.221 min Scan# 2887

Delta R.T. -0.012 min

Lab File: BG056392.D

Acq: 23 Jan 2023 20:31

Instrument :

BNA_G

ClientSampleId :

B-38A

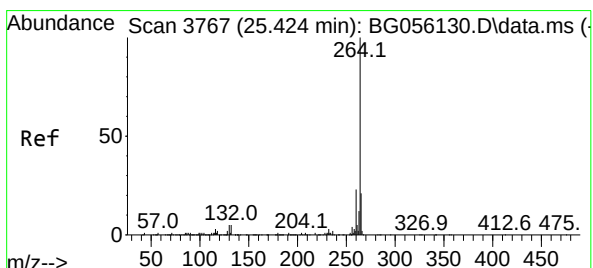
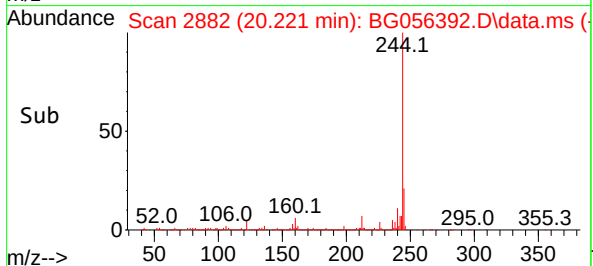
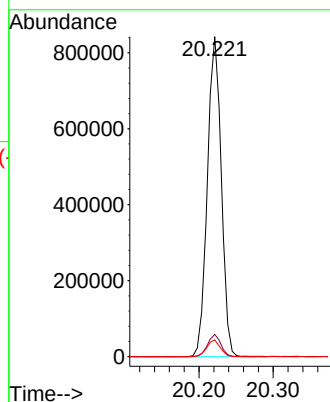
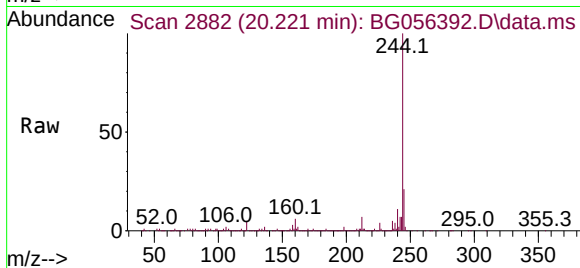
Tgt Ion:244 Resp: 1095384

Ion Ratio Lower Upper

244 100

212 6.9 5.7 8.5

122 5.2 3.5 5.3



#86

Perylene-d12

Concen: 20.000 ng

RT: 25.362 min Scan# 3757

Delta R.T. -0.030 min

Lab File: BG056392.D

Acq: 23 Jan 2023 20:31

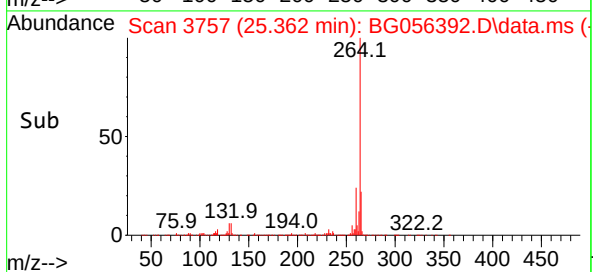
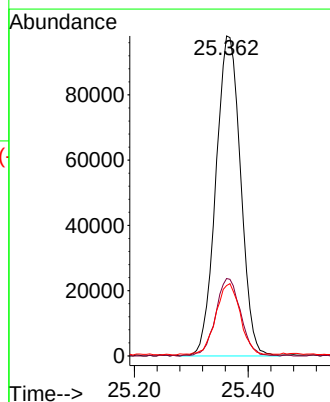
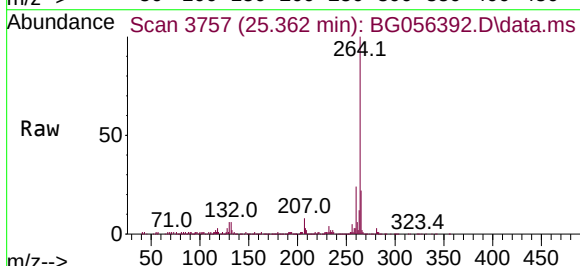
Tgt Ion:264 Resp: 296075

Ion Ratio Lower Upper

264 100

260 24.2 18.6 28.0

265 22.0 16.7 25.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG012323\
 Data File : BG056392.D
 Acq On : 23 Jan 2023 20:31
 Operator : CG/JU
 Sample : 01233-08
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 B-38A

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON Filtering: 5
 Sampling : 1 Min Area: 3 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BG056392.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.333	341	348	355	rBV	114579	170652	6.60%	1.551%
2	5.820	423	431	441	rBV	469031	788289	30.50%	7.163%
3	7.442	698	707	719	rBV	484033	837628	32.41%	7.611%
4	8.294	846	852	860	rVB	112818	191366	7.40%	1.739%
5	9.469	1044	1052	1060	rBV	283512	497803	19.26%	4.523%
6	11.126	1325	1334	1342	rBV	166039	299755	11.60%	2.724%
7	13.535	1737	1744	1752	rBV	1026116	1600744	61.93%	14.546%
8	14.910	1970	1978	1986	rBB	335485	516878	20.00%	4.697%
9	16.249	2199	2206	2213	rBV	85196	125486	4.85%	1.140%
10	16.390	2224	2230	2242	rBV	658163	1069047	41.36%	9.714%
11	17.648	2437	2444	2450	rBV	451543	678642	26.26%	6.167%
12	19.681	2785	2790	2794	rBV	29535	42682	1.65%	0.388%
13	20.039	2847	2851	2858	rVB	39527	54527	2.11%	0.495%
14	20.221	2876	2882	2888	rVB	2019774	2584794	100.00%	23.488%
15	21.520	3099	3103	3115	rBV6	52939	135143	5.23%	1.228%
16	21.937	3167	3174	3180	rBV	409484	709141	27.44%	6.444%
17	25.362	3748	3757	3769	rVB2	233819	702289	27.17%	6.382%

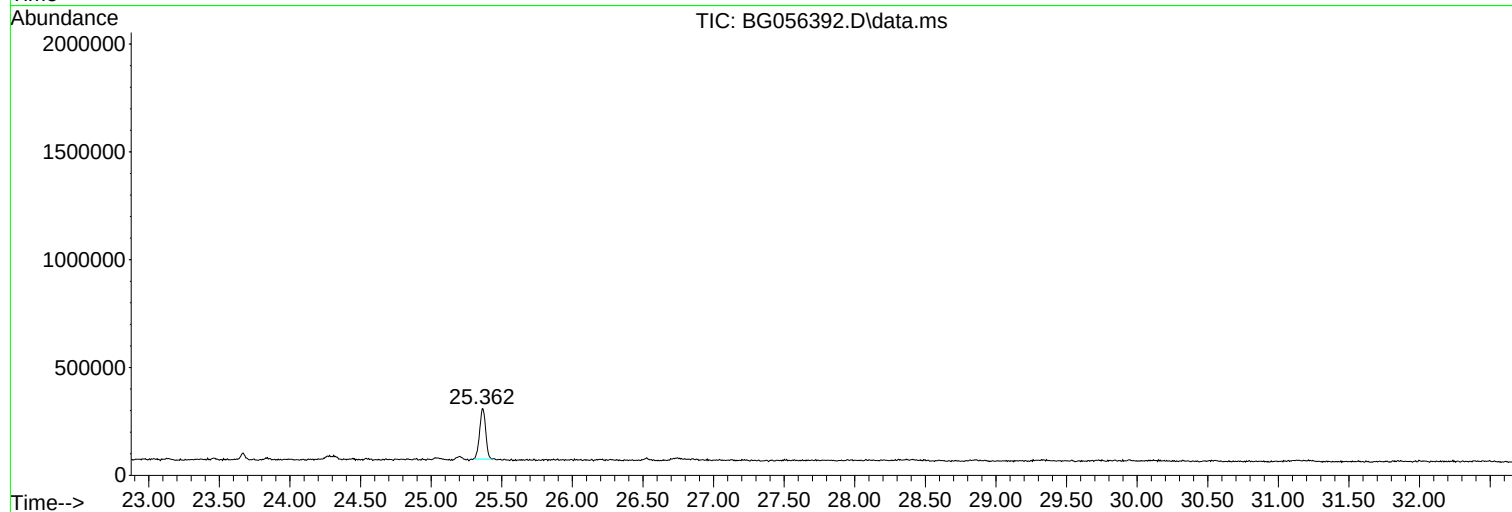
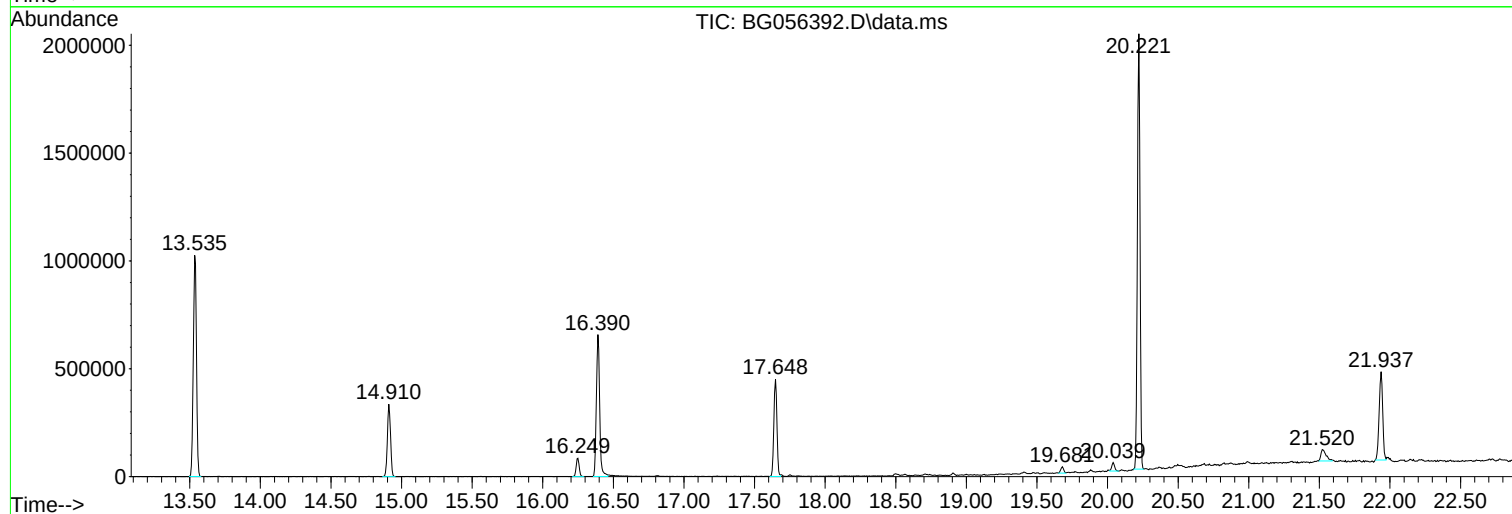
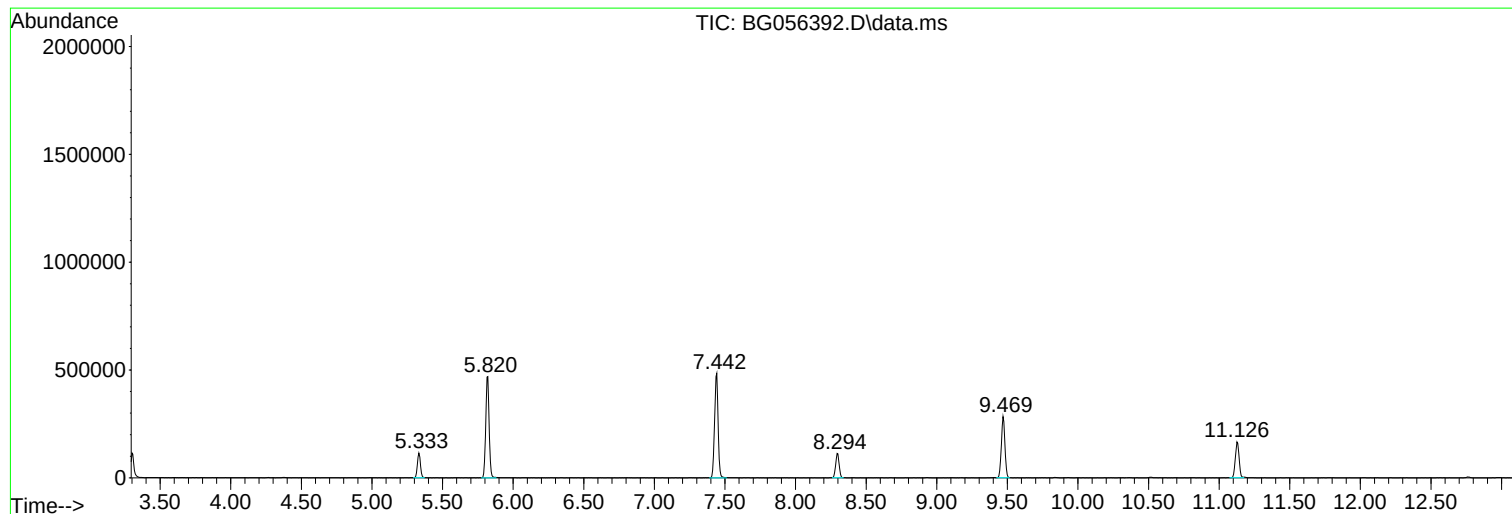
Sum of corrected areas: 11004866

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG012323\
Data File : BG056392.D
Acq On : 23 Jan 2023 20:31
Operator : CG/JU
Sample : 01233-08
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
B-38A

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG012323\
Data File : BG056392.D
Acq On : 23 Jan 2023 20:31
Operator : CG/JU
Sample : 01233-08
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
B-38A

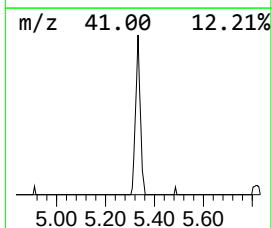
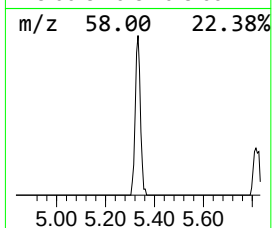
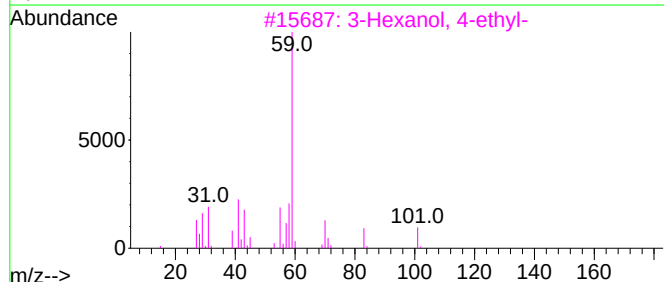
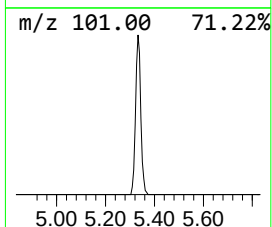
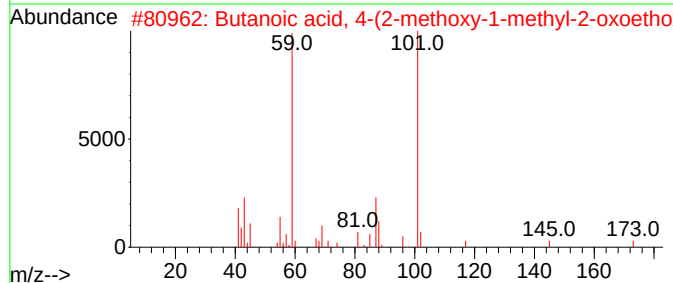
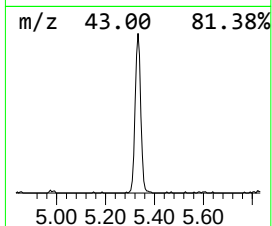
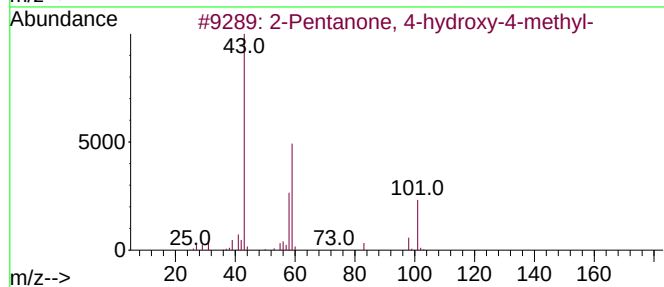
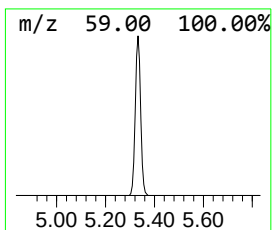
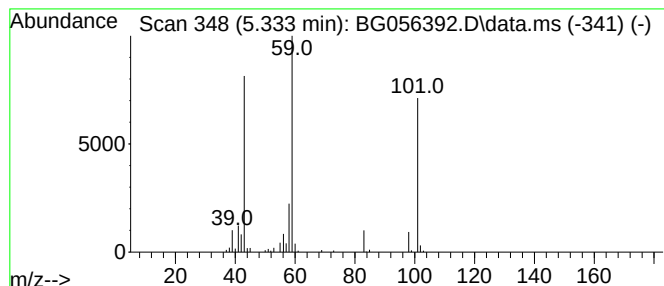
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.333	17.84 ng	170652	1,4-Dichlorobenzene-d4	8.300

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2			Butanoic acid, 4-(2-methoxy-1-me...	204	C9H16O5	054966-46-0	33
3			3-Hexanol, 4-ethyl-	130	C8H18O	019780-44-0	33
4			Propane, 1-ethoxy-2-methyl-	102	C6H14O	000627-02-1	25
5			Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG012323\
Data File : BG056392.D
Acq On : 23 Jan 2023 20:31
Operator : CG/JU
Sample : 01233-08
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
B-38A

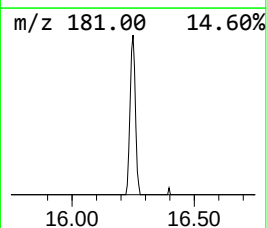
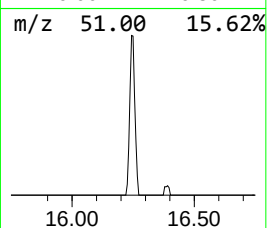
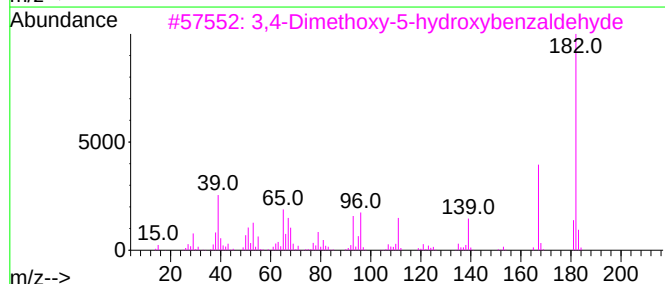
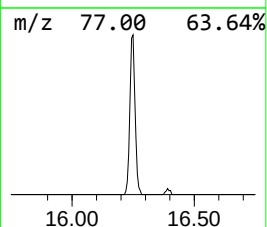
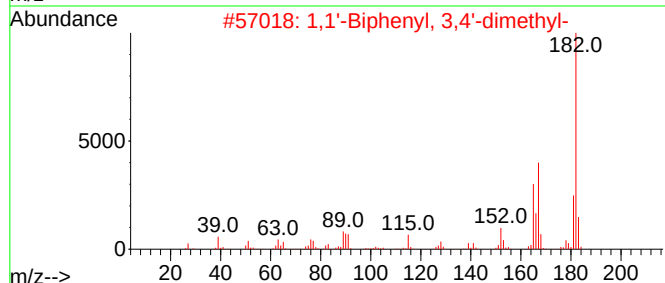
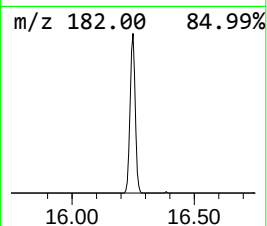
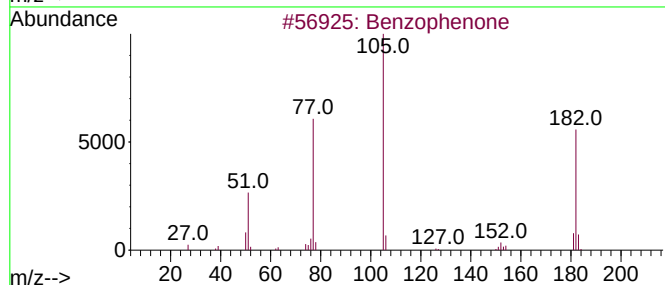
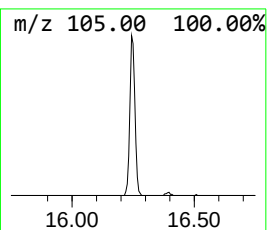
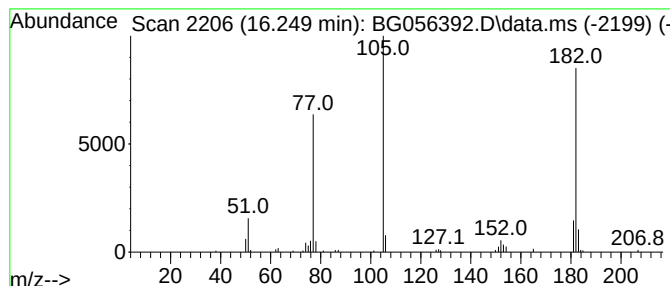
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.249	4.86 ng	125486	Acenaphthene-d10	14.910

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	94
2			1,1'-Biphenyl, 3,4'-dimethyl-	182	C14H14	007383-90-6	46
3			3,4-Dimethoxy-5-hydroxybenzaldehyde	182	C9H10O4	029865-90-5	43
4			3,3'-Dimethylbiphenyl	182	C14H14	000612-75-9	43
5			2,4,6-Trimethoxytoluene	182	C10H14O3	014107-97-2	43



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG012323\
Data File : BG056392.D
Acq On : 23 Jan 2023 20:31
Operator : CG/JU
Sample : 01233-08
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
B-38A

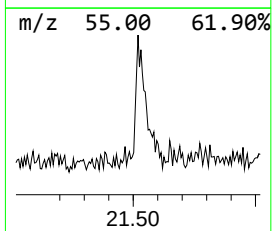
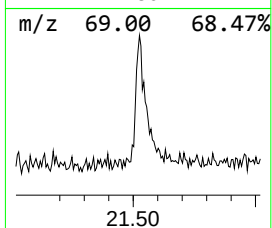
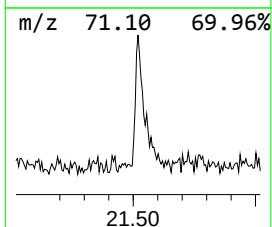
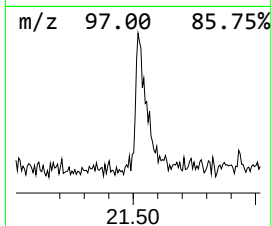
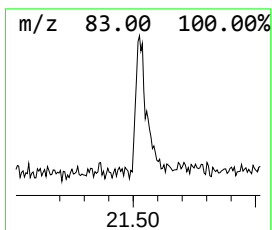
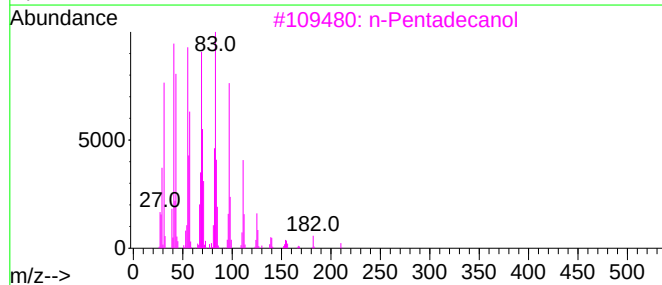
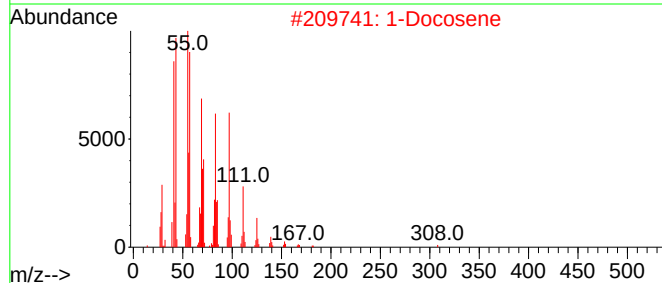
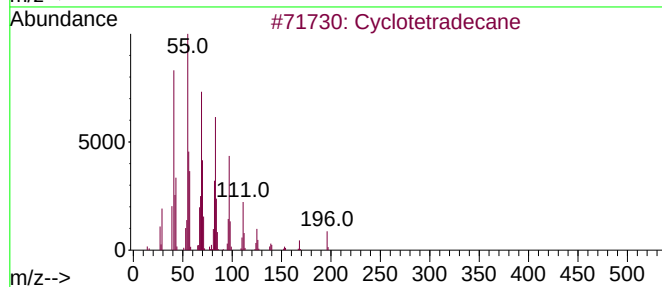
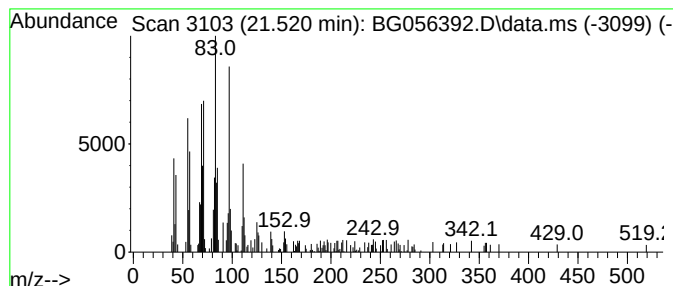
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 Cyclotetradecane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.520	3.81 ng	135143	Chrysene-d12	21.937

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclotetradecane	196	C14H28	000295-17-0	90
2			1-Docosene	308	C22H44	001599-67-3	83
3			n-Pentadecanol	228	C15H32O	000629-76-5	80
4			3-Octadecene, (E)-	252	C18H36	007206-19-1	76
5			5-Eicosene, (E)-	280	C20H40	074685-30-6	72



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG012323\
Data File : BG056392.D
Acq On : 23 Jan 2023 20:31
Operator : CG/JU
Sample : 01233-08
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
B-38A

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
2-Pentanone, 4-...	5.333	17.8	ng	170652	1	8.300	191366	20.0
Benzophenone	16.249	4.9	ng	125486	3	14.910	516878	20.0
Cyclotetradecane	21.520	3.8	ng	135143	5	21.937	709141	20.0



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P38B	SDG No.:	O1233
Lab Sample ID:	O1233-09	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.7
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF132181.D	1	01/20/23 12:30	01/21/23 02:00	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	170	U	170	410	ug/Kg
108-95-2	Phenol	83.8	U	83.8	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	99.3	U	99.3	210	ug/Kg
95-57-8	2-Chlorophenol	84.5	U	84.5	210	ug/Kg
95-48-7	2-Methylphenol	130	U	130	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	120	U	120	210	ug/Kg
98-86-2	Acetophenone	99.1	U	99.1	210	ug/Kg
65794-96-9	3+4-Methylphenols	120	U	120	410	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	94.1	U	94.1	99.0	ug/Kg
67-72-1	Hexachloroethane	91.2	U	91.2	210	ug/Kg
98-95-3	Nitrobenzene	91.4	U	91.4	210	ug/Kg
78-59-1	Isophorone	82.4	U	82.4	210	ug/Kg
88-75-5	2-Nitrophenol	110	U	110	210	ug/Kg
105-67-9	2,4-Dimethylphenol	120	U	120	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	130	U	130	210	ug/Kg
120-83-2	2,4-Dichlorophenol	100	U	100	210	ug/Kg
91-20-3	Naphthalene	91.4	U	91.4	210	ug/Kg
106-47-8	4-Chloroaniline	120	U	120	210	ug/Kg
87-68-3	Hexachlorobutadiene	120	U	120	210	ug/Kg
105-60-2	Caprolactam	120	U	120	410	ug/Kg
59-50-7	4-Chloro-3-methylphenol	97.4	U	97.4	210	ug/Kg
91-57-6	2-Methylnaphthalene	92.8	U	92.8	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	220	U	220	410	ug/Kg
88-06-2	2,4,6-Trichlorophenol	110	U	110	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	100	U	100	210	ug/Kg
92-52-4	1,1-Biphenyl	110	U	110	210	ug/Kg
91-58-7	2-Chloronaphthalene	110	U	110	210	ug/Kg
88-74-4	2-Nitroaniline	130	U	130	210	ug/Kg
131-11-3	Dimethylphthalate	100	U	100	210	ug/Kg
208-96-8	Acenaphthylene	85.0	U	85.0	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	96.6	U	96.6	210	ug/Kg



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P38B	SDG No.:	O1233
Lab Sample ID:	O1233-09	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.7
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF132181.D	1	01/20/23 12:30	01/21/23 02:00	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	120	U	120	210	ug/Kg
83-32-9	Acenaphthene	97.6	U	97.6	210	ug/Kg
51-28-5	2,4-Dinitrophenol	160	U	160	410	ug/Kg
100-02-7	4-Nitrophenol	170	U	170	410	ug/Kg
132-64-9	Dibenzofuran	91.8	U	91.8	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	100	U	100	210	ug/Kg
84-66-2	Diethylphthalate	99.6	U	99.6	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	120	U	120	210	ug/Kg
86-73-7	Fluorene	97.5	U	97.5	210	ug/Kg
100-01-6	4-Nitroaniline	130	U	130	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	410	ug/Kg
86-30-6	n-Nitrosodiphenylamine	100	U	100	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	120	U	120	210	ug/Kg
118-74-1	Hexachlorobenzene	130	U	130	210	ug/Kg
1912-24-9	Atrazine	110	U	110	210	ug/Kg
87-86-5	Pentachlorophenol	140	U	140	410	ug/Kg
85-01-8	Phenanthrene	100	U	100	210	ug/Kg
120-12-7	Anthracene	100	U	100	210	ug/Kg
86-74-8	Carbazole	100	U	100	210	ug/Kg
84-74-2	Di-n-butylphthalate	110	U	110	210	ug/Kg
206-44-0	Fluoranthene	98.7	U	98.7	210	ug/Kg
129-00-0	Pyrene	91.8	U	91.8	210	ug/Kg
85-68-7	Butylbenzylphthalate	100	U	100	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	170	U	170	410	ug/Kg
56-55-3	Benzo(a)anthracene	110	U	110	210	ug/Kg
218-01-9	Chrysene	110	U	110	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	110	U	110	210	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	410	ug/Kg
205-99-2	Benzo(b)fluoranthene	85.4	U	85.4	210	ug/Kg
207-08-9	Benzo(k)fluoranthene	91.1	U	91.1	210	ug/Kg
50-32-8	Benzo(a)pyrene	83.8	U	83.8	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	120	U	120	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	130	U	130	210	ug/Kg



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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P38B	SDG No.:	O1233
Lab Sample ID:	O1233-09	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.7
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF132181.D	1	01/20/23 12:30	01/21/23 02:00	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	120	U	120	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	110	U	110	210	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	100	U	100	210	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	125		18 - 112	84%	SPK: 150
13127-88-3	Phenol-d6	131		21 - 104	87%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.0		27 - 109	92%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.8		30 - 103	74%	SPK: 100
118-79-6	2,4,6-Tribromophenol	139		10 - 121	93%	SPK: 150
1718-51-0	Terphenyl-d14	76.1		21 - 107	76%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	175000	7.09
1146-65-2	Naphthalene-d8	627000	8.378
15067-26-2	Acenaphthene-d10	339000	10.142
1517-22-2	Phenanthrene-d10	668000	11.636
1719-03-5	Chrysene-d12	453000	14.301
1520-96-3	Perylene-d12	379000	15.895

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	1600	AB	5.34	ug/Kg
000119-61-9	Benzophenone	240	J	10.9	ug/Kg
000057-10-3	n-Hexadecanoic acid	160	J	12.1	ug/Kg
	unknown12.807	380	J	12.8	ug/Kg
1000309-70-6	Oxalic acid, cyclobutyl hexadecyl	220	J	14.1	ug/Kg
007683-64-9	Supraene	140	J	15.2	ug/Kg



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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P38B	SDG No.:	O1233
Lab Sample ID:	O1233-09	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.7
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF132181.D	1	01/20/23 12:30	01/21/23 02:00	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
 Data File : BF132181.D
 Acq On : 21 Jan 2023 02:00
 Operator : CG\JU
 Sample : 01233-09
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-P38B

Quant Time: Jan 21 03:59:38 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 00:50:42 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.090	152	175268	20.000	ng	0.00
21) Naphthalene-d8	8.378	136	626552	20.000	ng	0.00
39) Acenaphthene-d10	10.142	164	338703	20.000	ng	0.00
64) Phenanthrene-d10	11.636	188	667544	20.000	ng	0.00
76) Chrysene-d12	14.301	240	452870	20.000	ng	0.00
86) Perylene-d12	15.895	264	378822	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.719	112	1257545	125.339	ng	0.01
7) Phenol-d6	6.701	99	1653813	130.944	ng	0.00
23) Nitrobenzene-d5	7.654	82	1085157	92.007	ng	0.00
42) 2,4,6-Tribromophenol	10.936	330	504573	139.467	ng	0.00
45) 2-Fluorobiphenyl	9.454	172	1710341	73.787	ng	0.00
79) Terphenyl-d14	13.236	244	2057233	76.094	ng	0.00

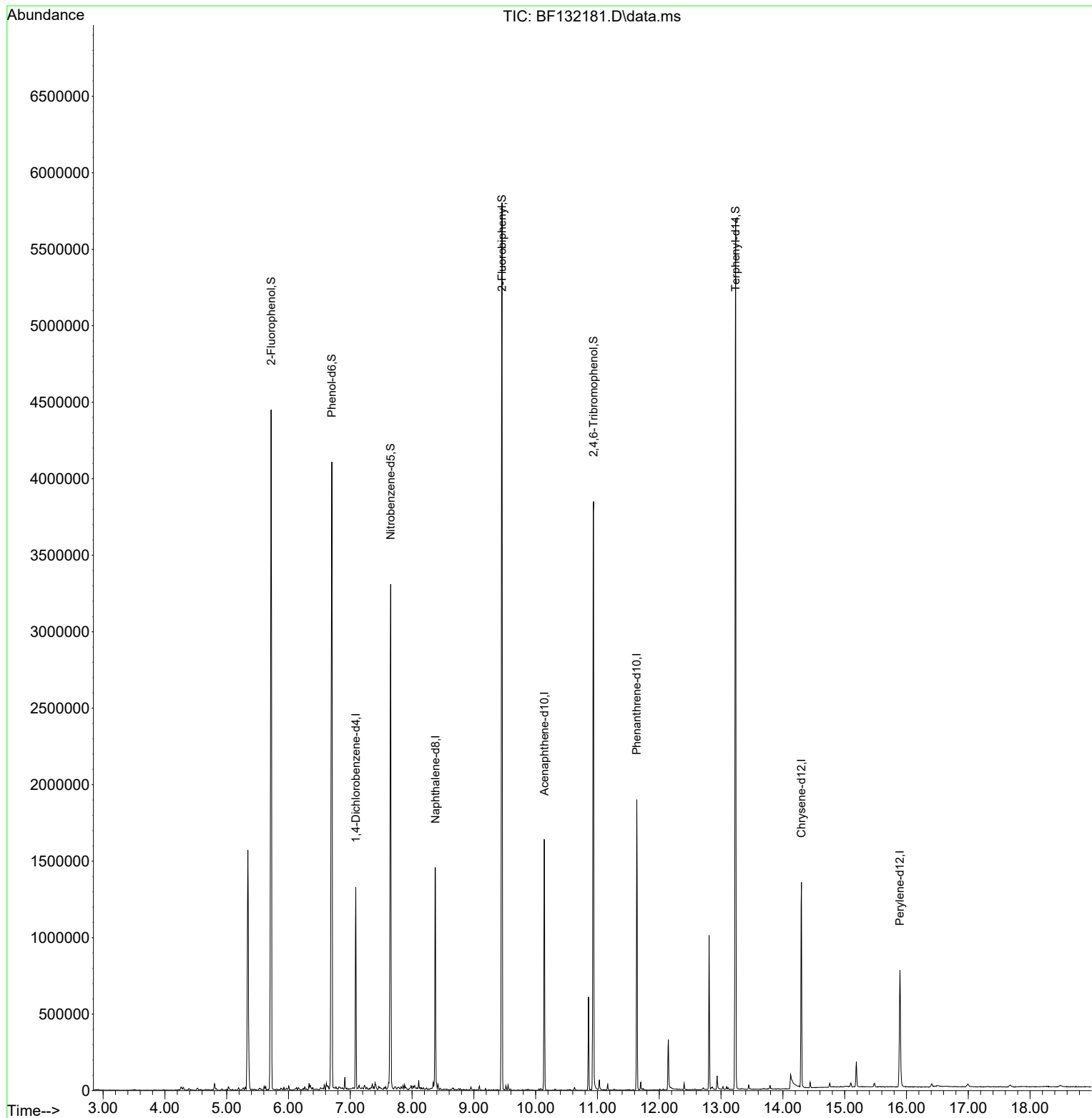
Target Compounds	Qvalue

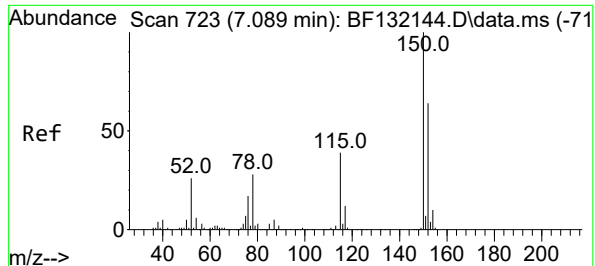
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132181.D
Acq On : 21 Jan 2023 02:00
Operator : CG\JU
Sample : 01233-09
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P38B

Quant Time: Jan 21 03:59:38 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 20 00:50:42 2023
Response via : Initial Calibration

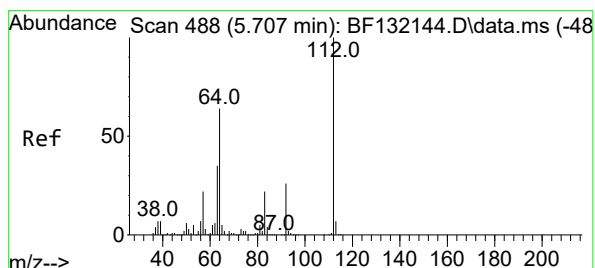
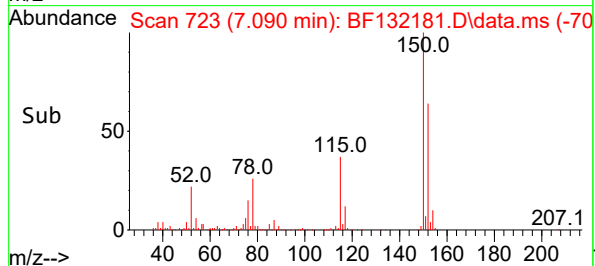
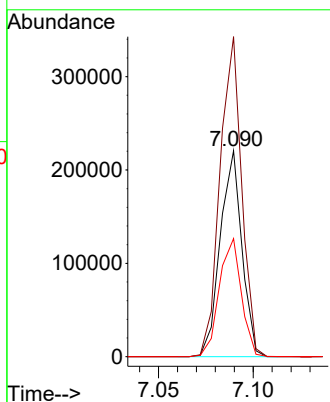
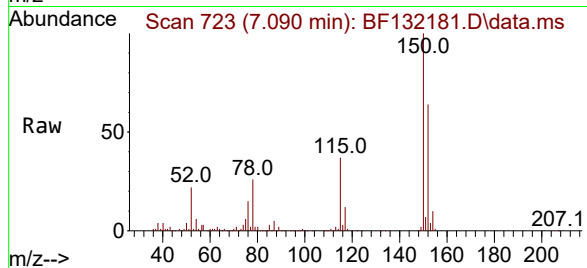




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.090 min Scan# 71
Delta R.T. 0.001 min
Lab File: BF132181.D
Acq: 21 Jan 2023 02:00

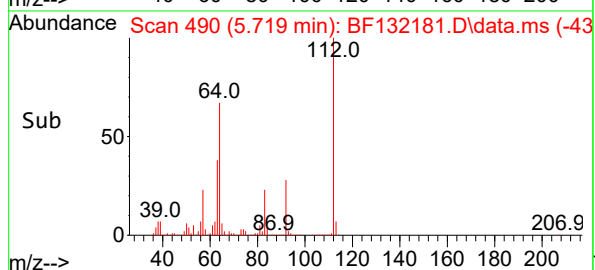
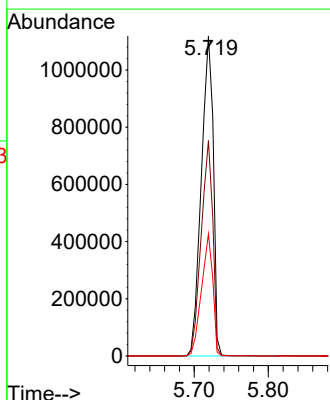
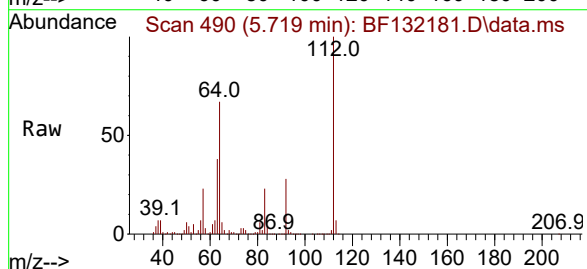
Instrument :
BNA_F
ClientSampleId :
B-P38B

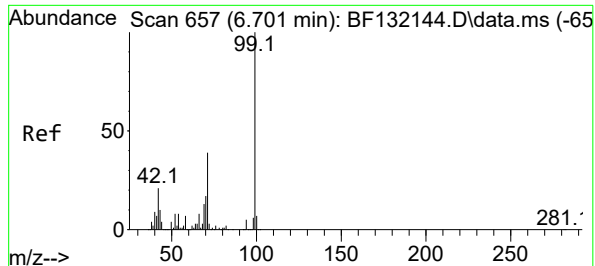
Tgt Ion:152 Resp: 175268
Ion Ratio Lower Upper
152 100
150 155.3 125.8 188.8
115 57.3 49.2 73.8



#5
2-Fluorophenol
Concen: 125.339 ng
RT: 5.719 min Scan# 490
Delta R.T. 0.012 min
Lab File: BF132181.D
Acq: 21 Jan 2023 02:00

Tgt Ion:112 Resp: 1257545
Ion Ratio Lower Upper
112 100
64 67.3 51.4 77.0
63 38.2 28.2 42.2

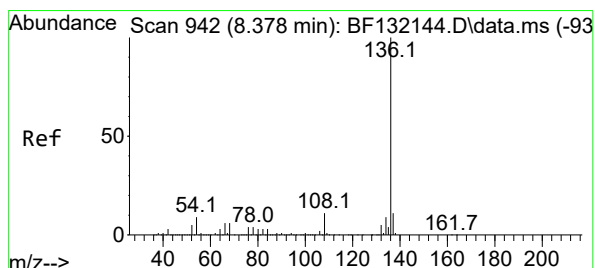
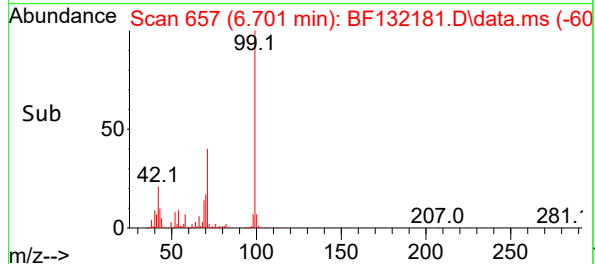
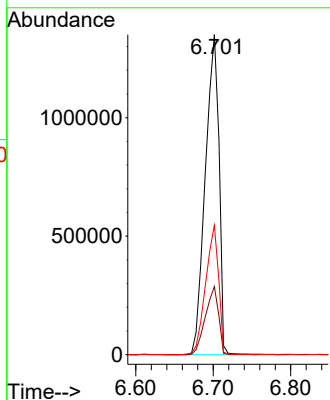
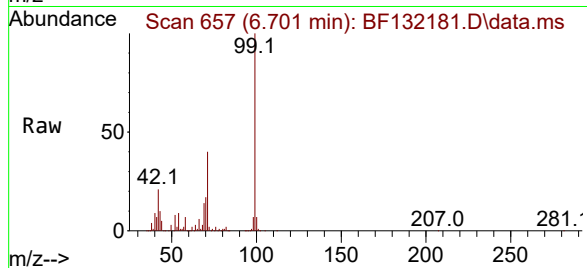




#7
Phenol-d6
Concen: 130.944 ng
RT: 6.701 min Scan# 61
Delta R.T. 0.000 min
Lab File: BF132181.D
Acq: 21 Jan 2023 02:00

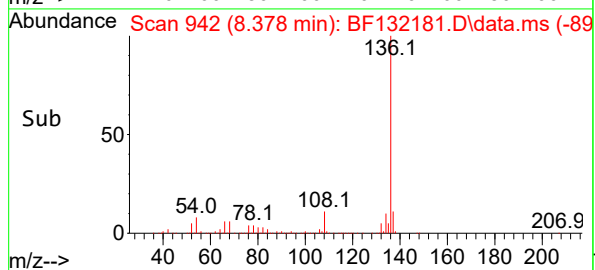
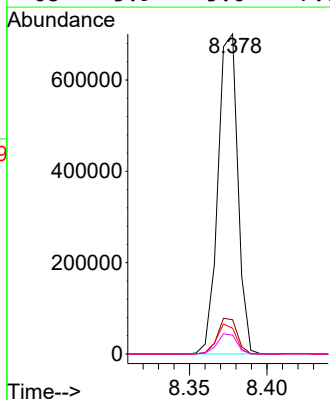
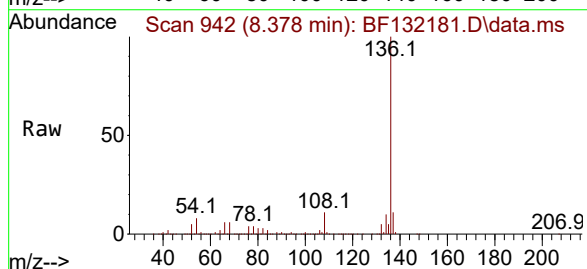
Instrument :
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ClientSampleId :
B-P38B

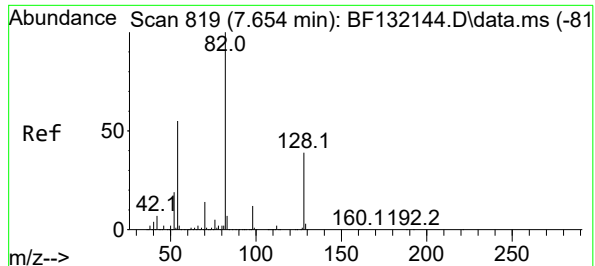
Tgt Ion: 99 Resp: 1653813
Ion Ratio Lower Upper
99 100
42 21.3 16.6 24.8
71 40.4 30.8 46.2



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.378 min Scan# 942
Delta R.T. -0.000 min
Lab File: BF132181.D
Acq: 21 Jan 2023 02:00

Tgt Ion: 136 Resp: 626552
Ion Ratio Lower Upper
136 100
137 10.7 8.9 13.3
54 8.1 7.0 10.6
68 5.9 5.0 7.6





#23

Nitrobenzene-d5

Concen: 92.007 ng

RT: 7.654 min Scan# 819

Delta R.T. 0.000 min

Lab File: BF132181.D

Acq: 21 Jan 2023 02:00

Instrument :

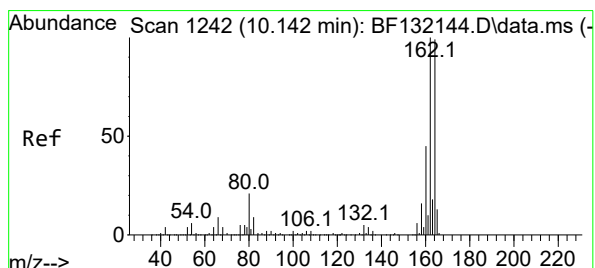
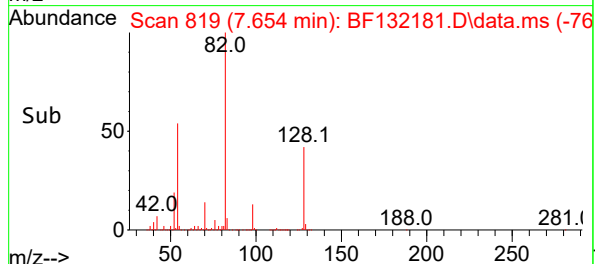
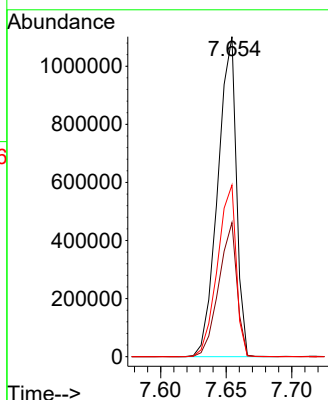
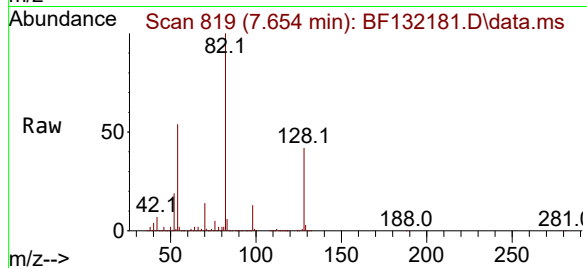
BNA_F

ClientSampleId :

B-P38B

Tgt Ion: 82 Resp: 1085157

Ion	Ratio	Lower	Upper
82	100		
128	41.9	31.1	46.7
54	53.7	43.9	65.9



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.142 min Scan# 1242

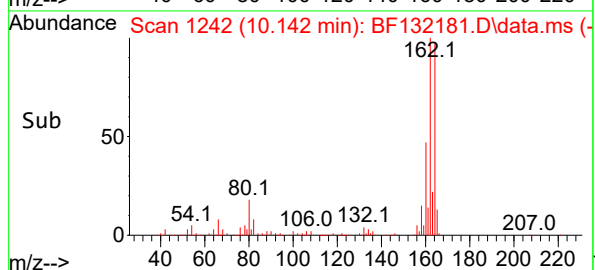
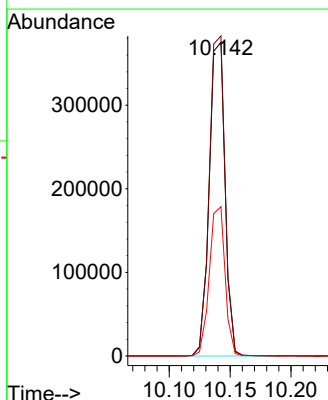
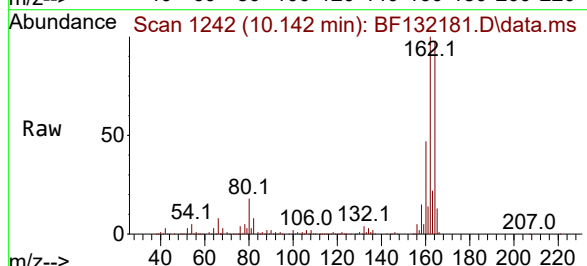
Delta R.T. 0.000 min

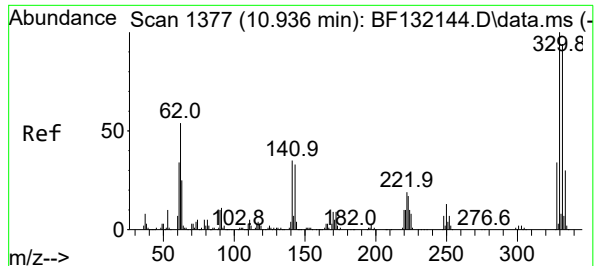
Lab File: BF132181.D

Acq: 21 Jan 2023 02:00

Tgt Ion: 164 Resp: 338703

Ion	Ratio	Lower	Upper
164	100		
162	102.0	81.2	121.8
160	47.6	36.9	55.3





#42

2,4,6-Tribromophenol

Concen: 139.467 ng

RT: 10.936 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF132181.D

Acq: 21 Jan 2023 02:00

Instrument :

BNA_F

ClientSampleId :

B-P38B

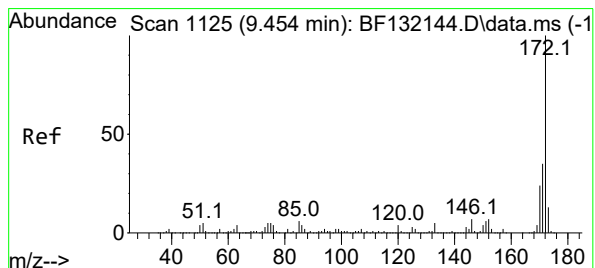
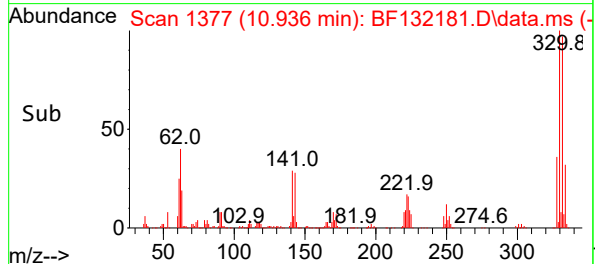
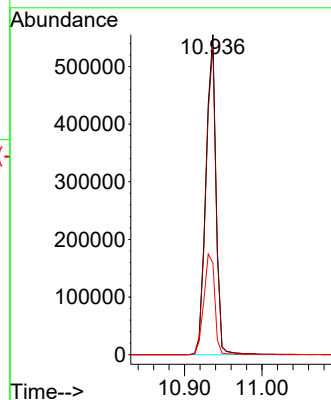
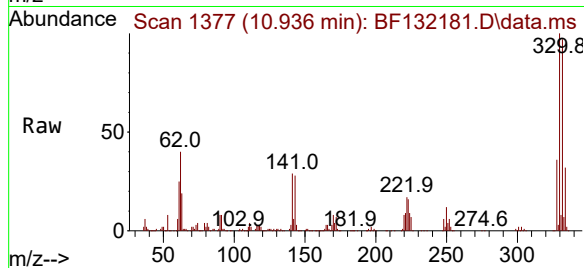
Tgt Ion:330 Resp: 504573

Ion Ratio Lower Upper

330 100

332 96.8 75.6 113.4

141 34.0 27.1 40.7



#45

2-Fluorobiphenyl

Concen: 73.787 ng

RT: 9.454 min Scan# 1125

Delta R.T. 0.000 min

Lab File: BF132181.D

Acq: 21 Jan 2023 02:00

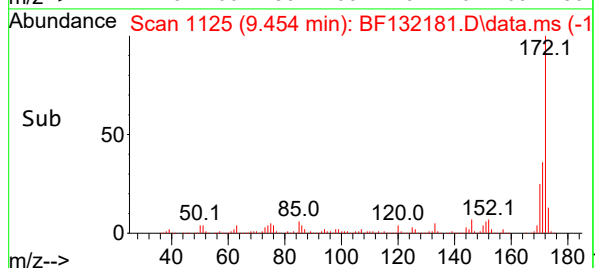
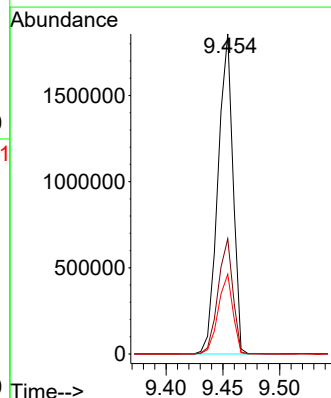
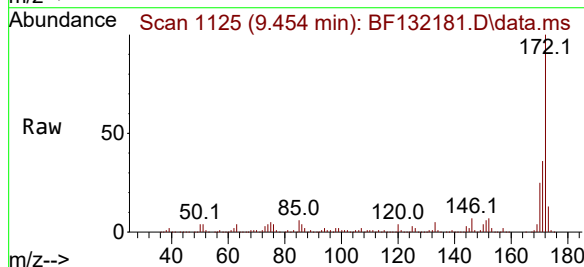
Tgt Ion:172 Resp: 1710341

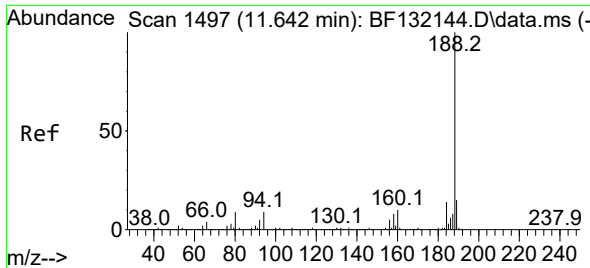
Ion Ratio Lower Upper

172 100

171 36.0 28.2 42.2

170 24.9 19.6 29.4

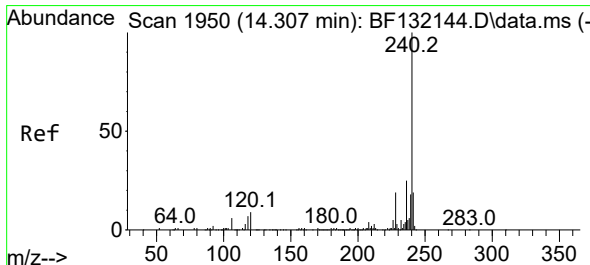
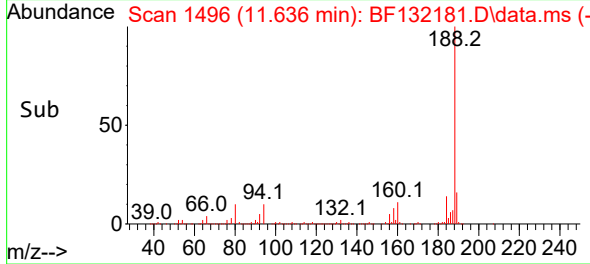
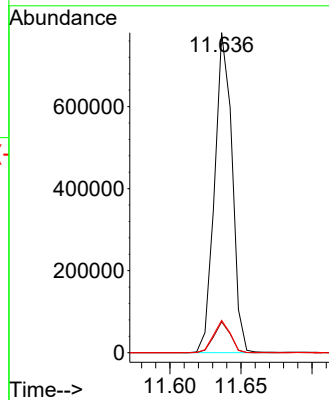
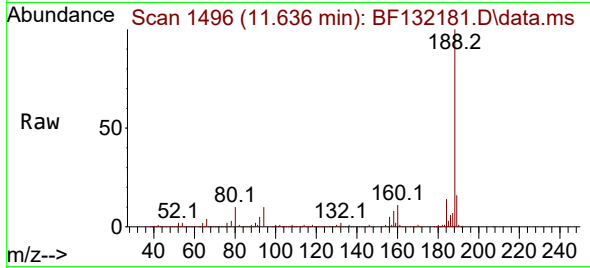




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.636 min Scan# 1496
Delta R.T. -0.006 min
Lab File: BF132181.D
Acq: 21 Jan 2023 02:00

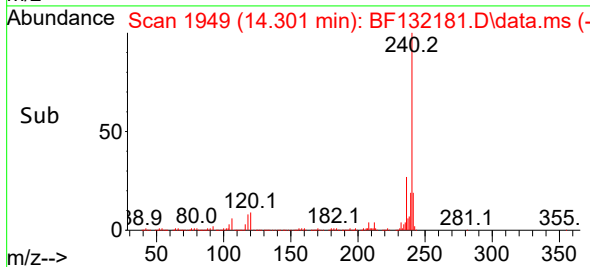
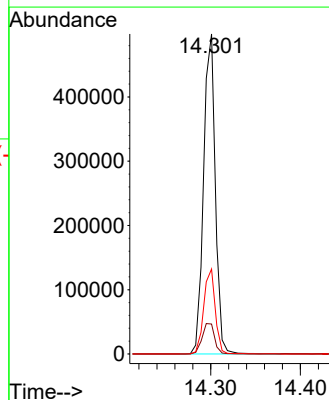
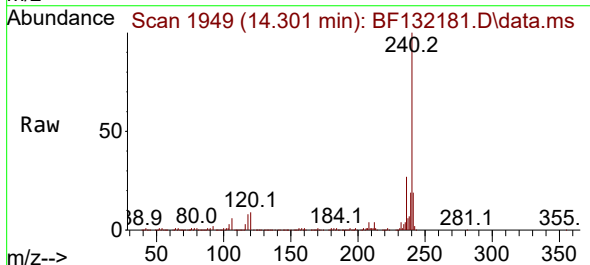
Instrument :
BNA_F
ClientSampleId :
B-P38B

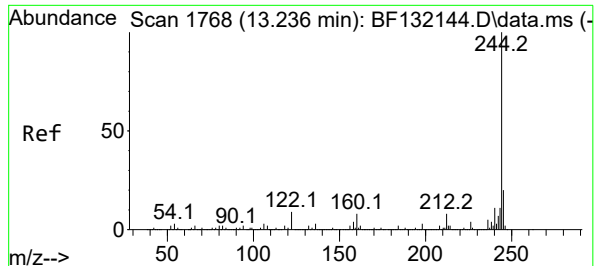
Tgt Ion:188 Resp: 667544
Ion Ratio Lower Upper
188 100
94 9.6 6.9 10.3
80 10.1 7.5 11.3



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.301 min Scan# 1949
Delta R.T. -0.006 min
Lab File: BF132181.D
Acq: 21 Jan 2023 02:00

Tgt Ion:240 Resp: 452870
Ion Ratio Lower Upper
240 100
120 9.4 6.9 10.3
236 26.5 20.3 30.5





#79

Terphenyl-d14

Concen: 76.094 ng

RT: 13.236 min Scan# 1768

Delta R.T. 0.000 min

Lab File: BF132181.D

Acq: 21 Jan 2023 02:00

Instrument :

BNA_F

ClientSampleId :

B-P38B

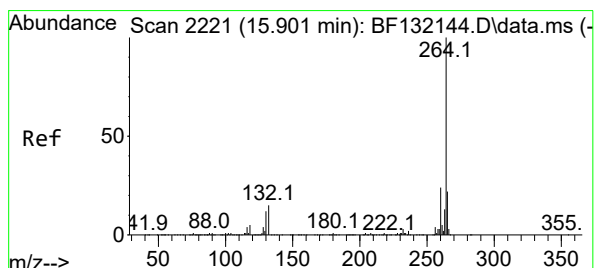
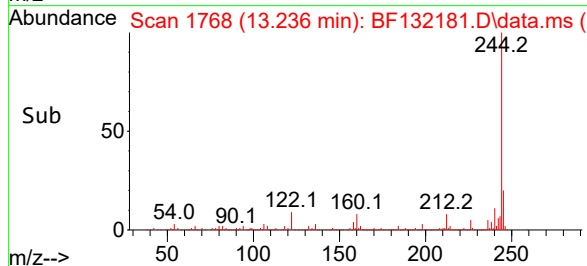
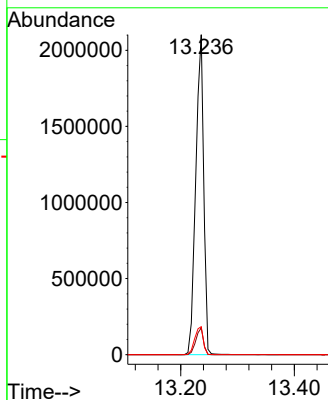
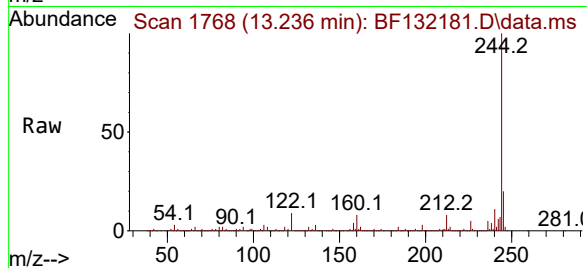
Tgt Ion:244 Resp: 2057233

Ion Ratio Lower Upper

244 100

212 8.4 6.7 10.1

122 8.8 7.4 11.2



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.895 min Scan# 2220

Delta R.T. -0.006 min

Lab File: BF132181.D

Acq: 21 Jan 2023 02:00

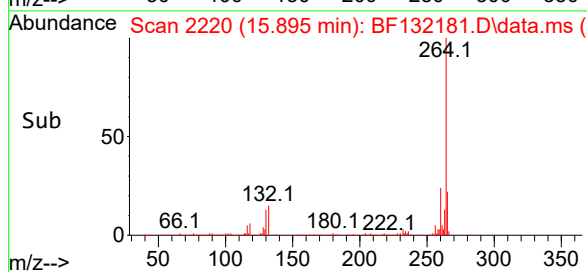
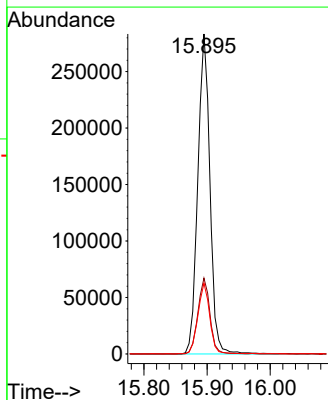
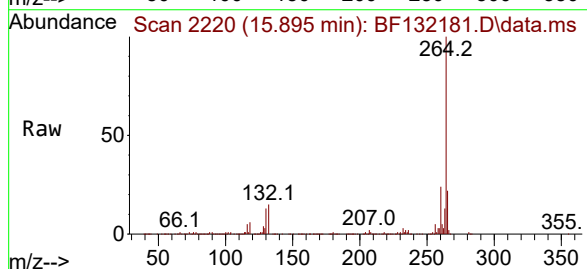
Tgt Ion:264 Resp: 378822

Ion Ratio Lower Upper

264 100

260 23.7 19.1 28.7

265 22.1 17.4 26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
 Data File : BF132181.D
 Acq On : 21 Jan 2023 02:00
 Operator : CG\JU
 Sample : 01233-09
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-P38B

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF132181.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.343	421	426	434	rVB	1568508	2039502	36.97%	5.126%
2	5.719	484	490	493	rBV	4442300	4843037	87.79%	12.173%
3	6.701	649	657	660	rBV	4100132	4936752	89.49%	12.408%
4	6.913	690	693	697	rBV	79819	69604	1.26%	0.175%
5	7.090	719	723	726	rVB	1316939	1066915	19.34%	2.682%
6	7.401	774	776	782	rVB2	43765	57793	1.05%	0.145%
7	7.654	808	819	822	rBV	3300795	3304240	59.90%	8.305%
8	8.372	938	941	945	rBV	1427277	1301704	23.60%	3.272%
9	9.454	1119	1125	1128	rBV	5802014	5220834	94.64%	13.122%
10	10.136	1238	1241	1245	rVB	1636105	1505042	27.28%	3.783%
11	10.854	1360	1363	1366	rBV	606620	444667	8.06%	1.118%
12	10.936	1372	1377	1380	rBV	3845985	3906821	70.82%	9.819%
13	11.031	1389	1393	1398	rVB	63637	55752	1.01%	0.140%
14	11.636	1492	1496	1500	rBV	1898232	1611171	29.21%	4.050%
15	12.148	1579	1583	1588	rBV	327144	321205	5.82%	0.807%
16	12.807	1691	1695	1698	rBV	1006245	749918	13.59%	1.885%
17	12.936	1714	1717	1725	rBV	88790	87689	1.59%	0.220%
18	13.236	1763	1768	1771	rBV	5692779	5516472	100.00%	13.865%
19	14.124	1915	1919	1940	rBV	94197	320805	5.82%	0.806%
20	14.301	1945	1949	1952	rBV	1338665	1223405	22.18%	3.075%
21	15.189	2096	2100	2108	rVB	166282	173779	3.15%	0.437%
22	15.895	2214	2220	2231	rVB	762500	1029325	18.66%	2.587%

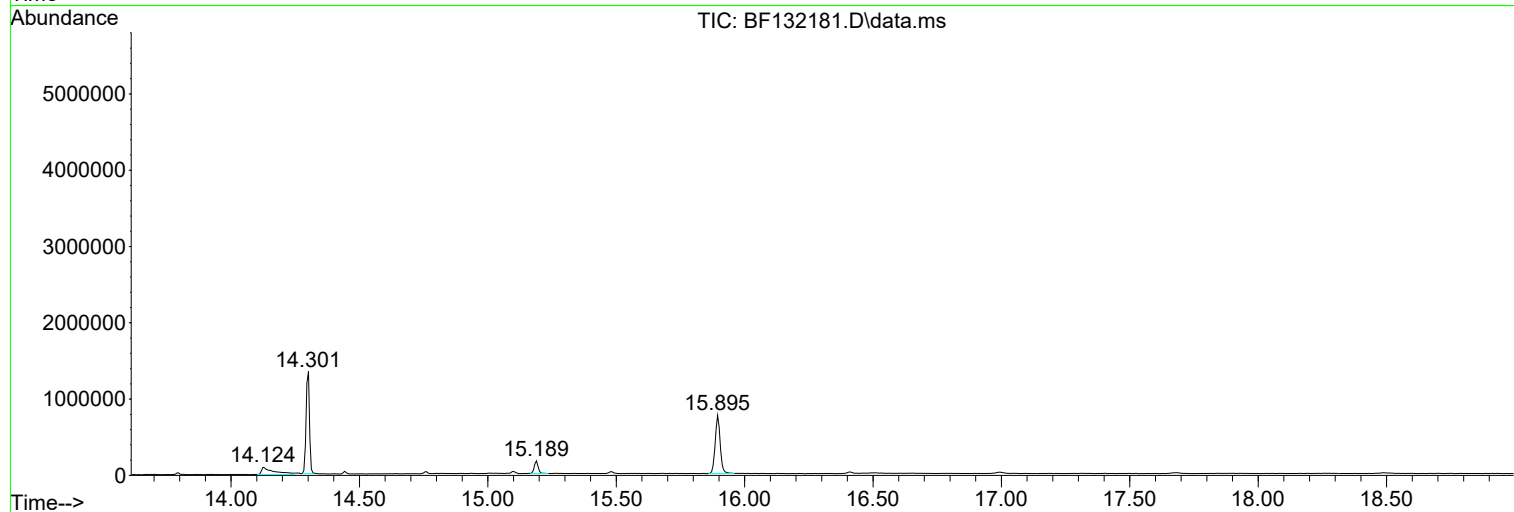
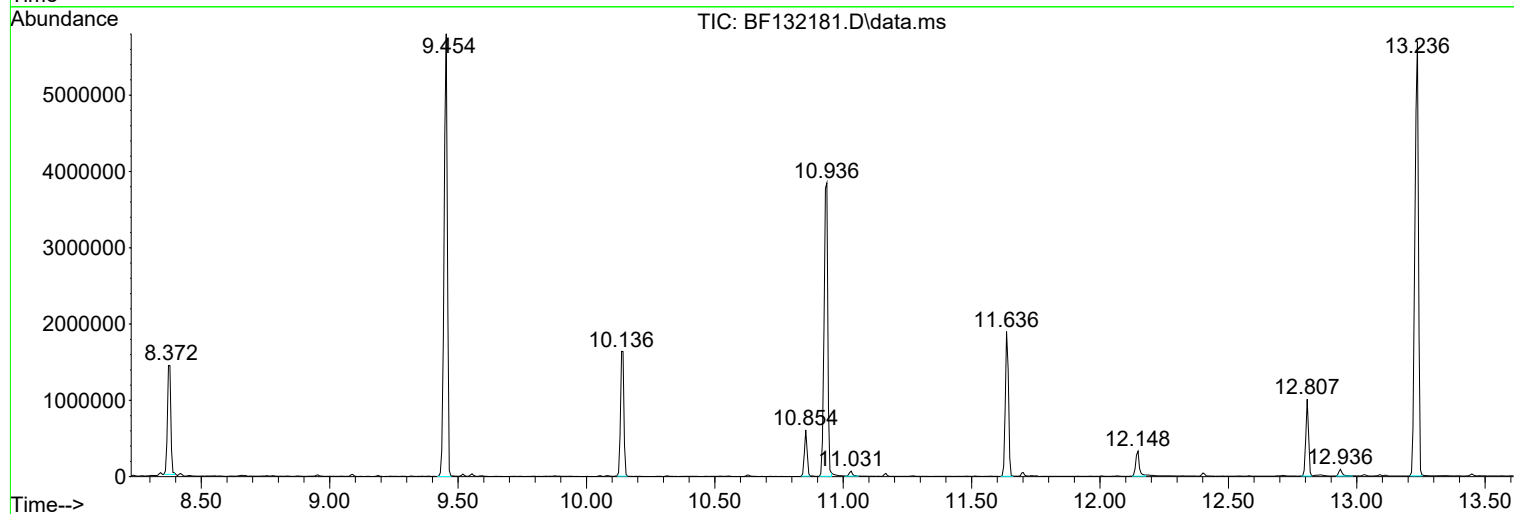
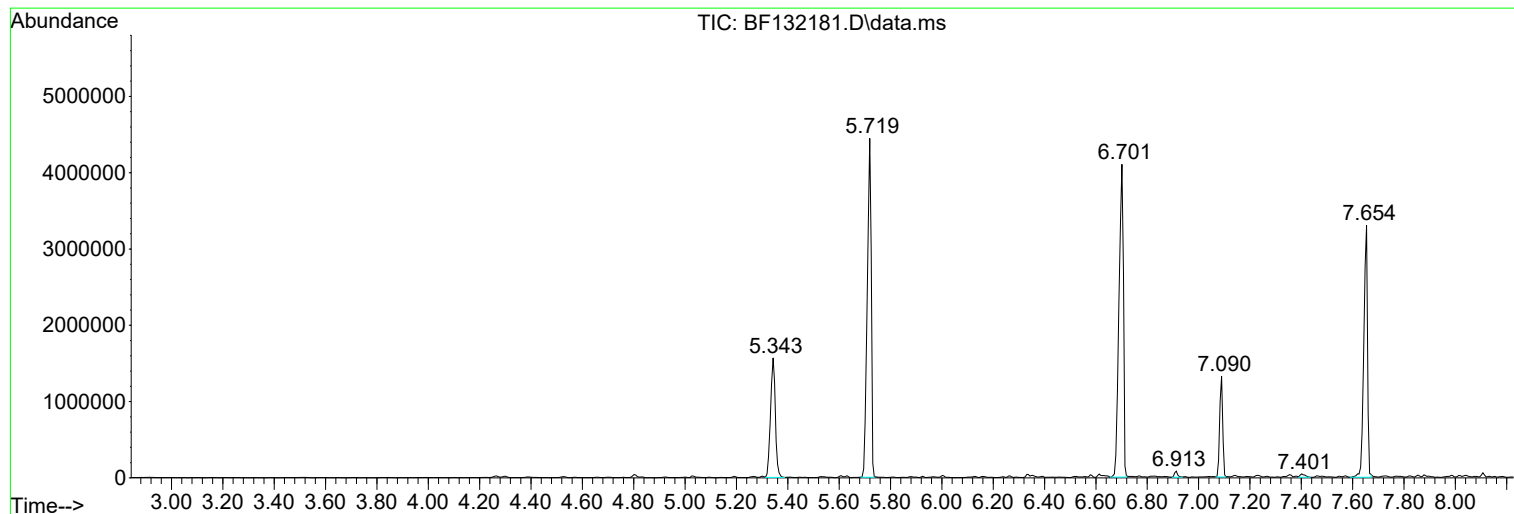
Sum of corrected areas: 39786432

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132181.D
Acq On : 21 Jan 2023 02:00
Operator : CG\JU
Sample : 01233-09
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P38B

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132181.D
Acq On : 21 Jan 2023 02:00
Operator : CG\JU
Sample : 01233-09
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P38B

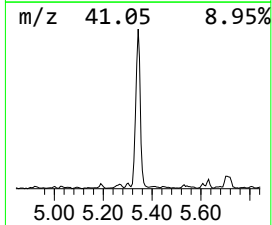
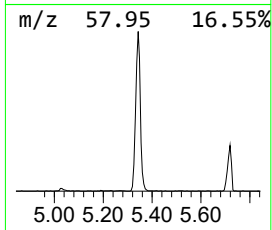
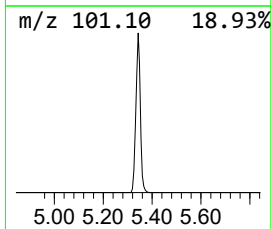
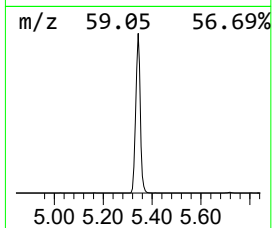
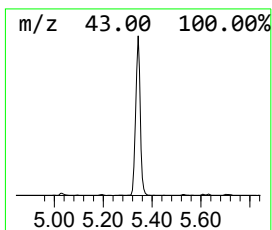
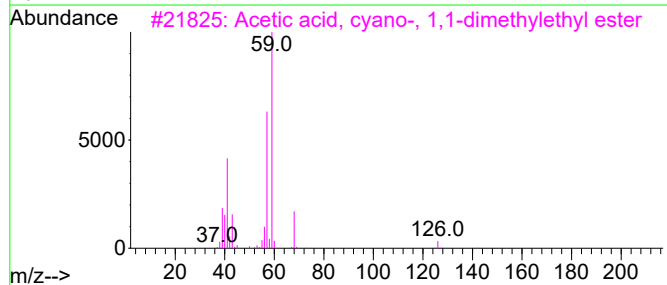
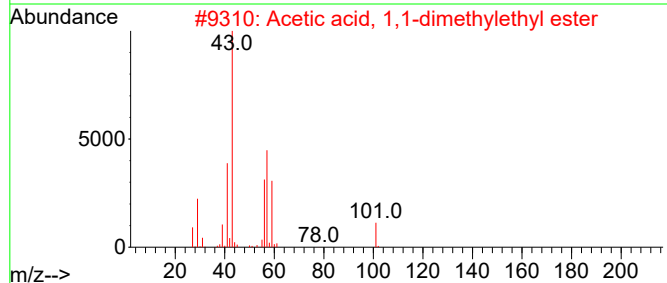
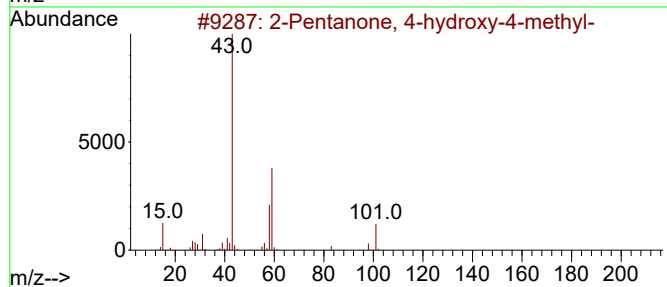
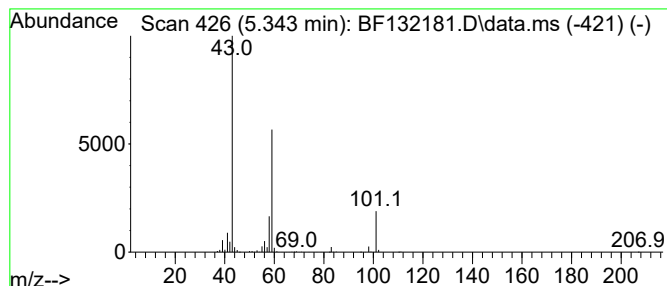
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.343	38.23 ng	2039500	1,4-Dichlorobenzene-d4	7.090

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59		
2	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	28		
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23		
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16		
5	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12		



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132181.D
Acq On : 21 Jan 2023 02:00
Operator : CG\JU
Sample : 01233-09
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P38B

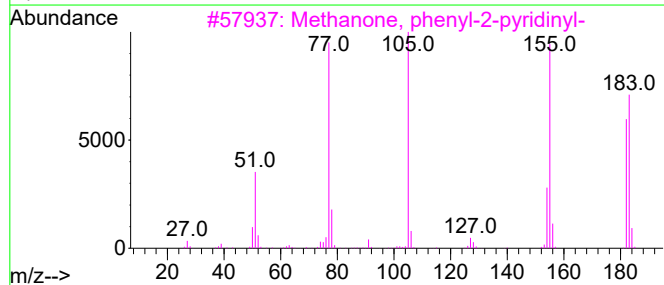
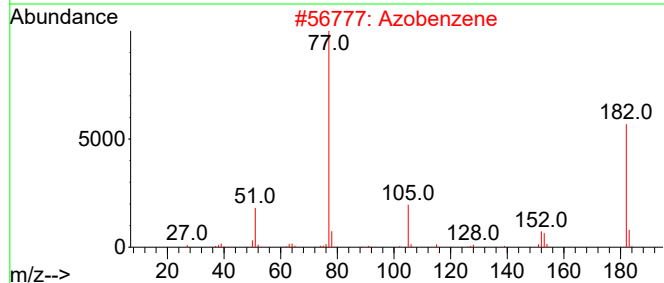
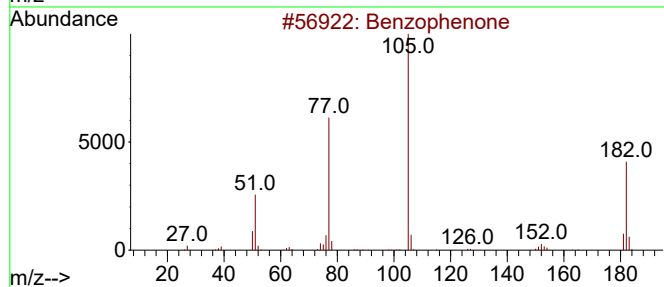
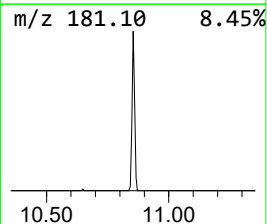
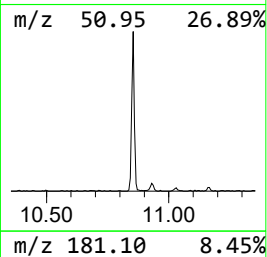
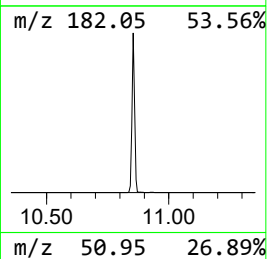
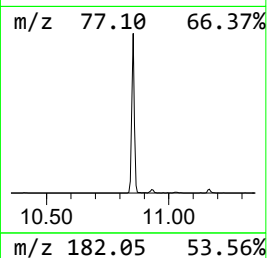
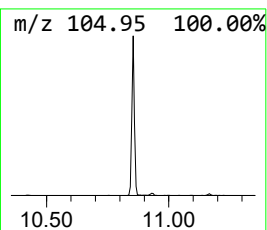
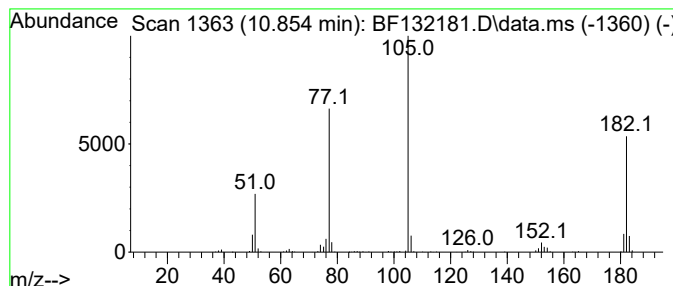
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.854	5.91 ng	444667	Acenaphthene-d10	10.142

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	96
2			Azobenzene	182	C12H10N2	000103-33-3	72
3			Methanone, phenyl-2-pyridinyl-	183	C12H9NO	000091-02-1	72
4			Azobenzene, (E)-	182	C12H10N2	017082-12-1	50
5			N-Methylbenzamide, N-pentafluoro...	281	C11H8F5NO2	1000446-98-1	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132181.D
Acq On : 21 Jan 2023 02:00
Operator : CG\JU
Sample : 01233-09
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P38B

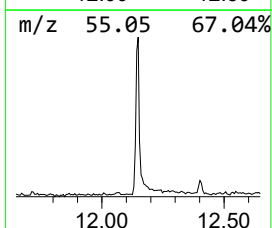
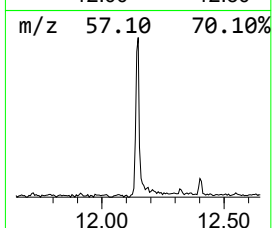
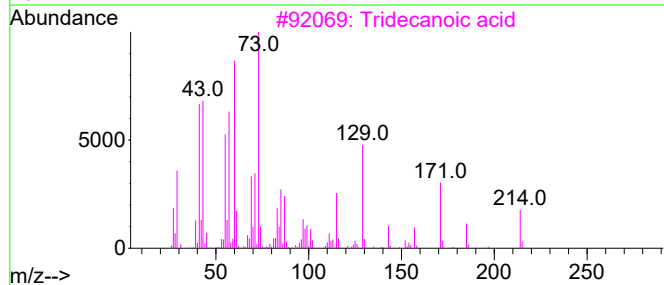
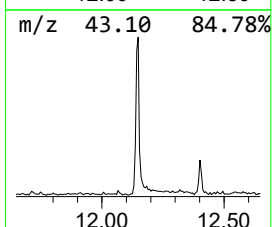
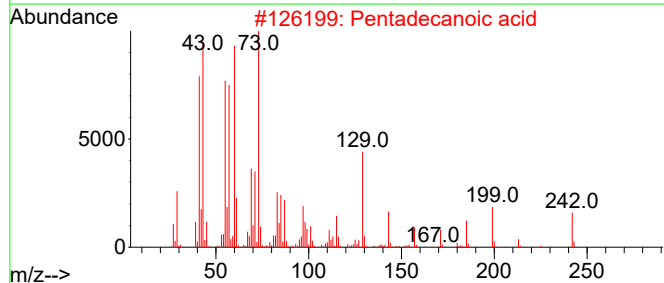
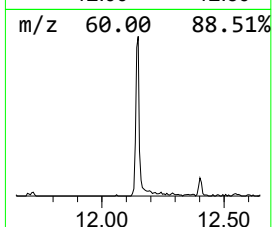
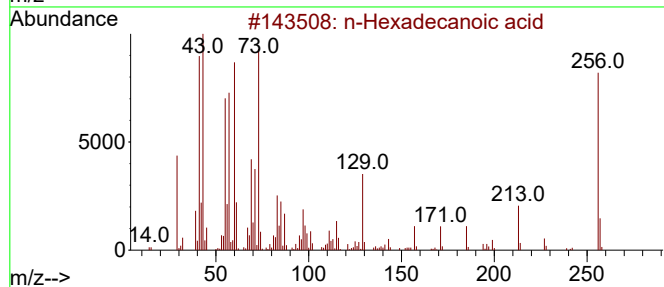
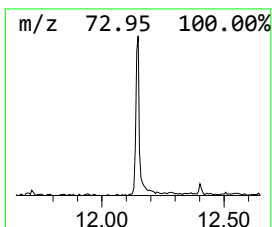
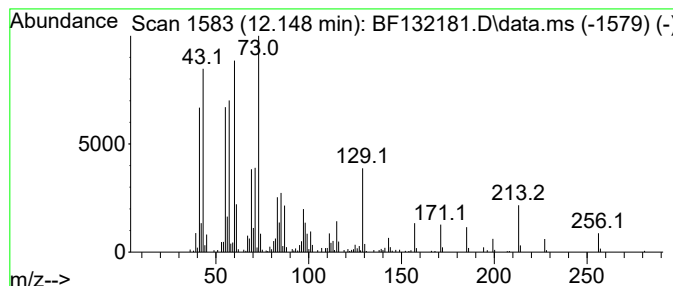
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 n-Hexadecanoic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.148	3.99 ng	321205	Phenanthrene-d10	11.636

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2			Pentadecanoic acid	242	C15H30O2	001002-84-2	93
3			Tridecanoic acid	214	C13H26O2	000638-53-9	91
4			Tetradecanoic acid	228	C14H28O2	000544-63-8	87
5			n-Decanoic acid	172	C10H20O2	000334-48-5	68



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132181.D
Acq On : 21 Jan 2023 02:00
Operator : CG\JU
Sample : 01233-09
Misc :
ALS Vial : 19 Sample Multiplier: 1

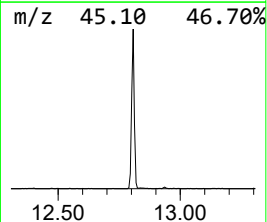
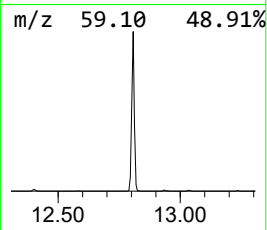
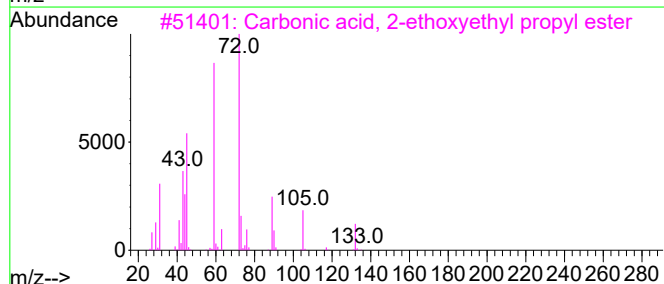
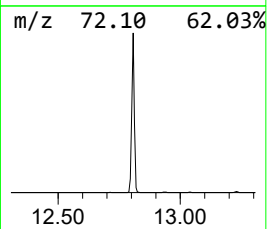
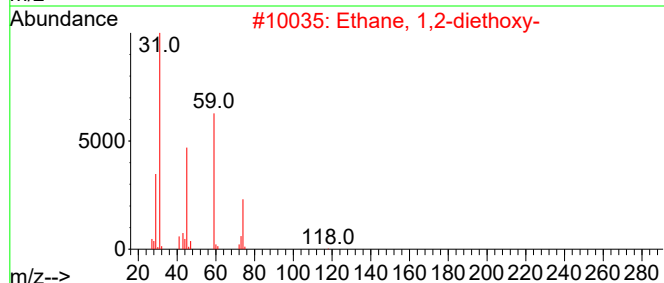
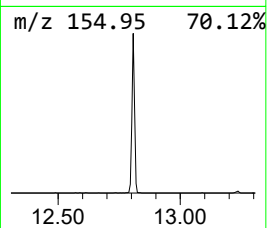
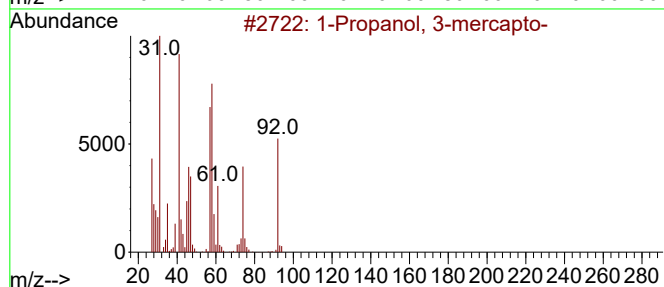
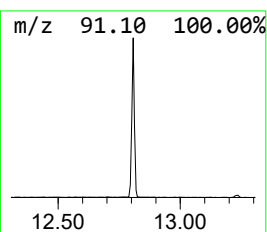
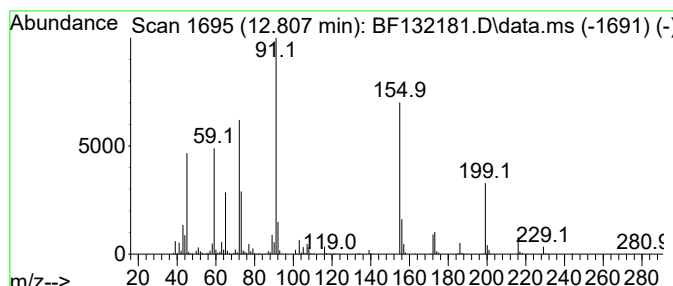
Instrument :
BNA_F
ClientSampleId :
B-P38B

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 unknown12.807 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.	
12.807	9.31 ng	749918	Phenanthrene-d10	11.636	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propanol, 3-mercapto-	92	C3H8OS	019721-22-3	22
2	Ethane, 1,2-diethoxy-	118	C6H14O2	000629-14-1	22
3	Carbonic acid, 2-ethoxyethyl pro...	176	C8H16O4	1000331-38-4	14
4	Urea, N,N-dimethyl-N'-octyl-	200	C11H24N2O	1000419-88-6	14
5	(2S)-Glycidyl tosylate	228	C10H12O4S	070987-78-9	11



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132181.D
Acq On : 21 Jan 2023 02:00
Operator : CG\JU
Sample : 01233-09
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P38B

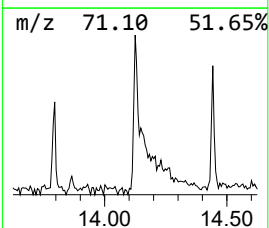
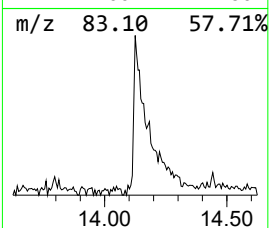
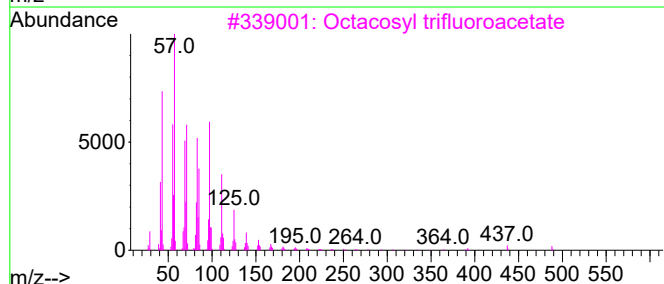
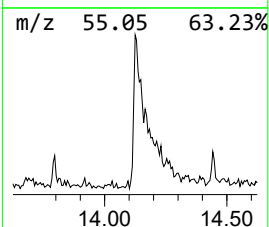
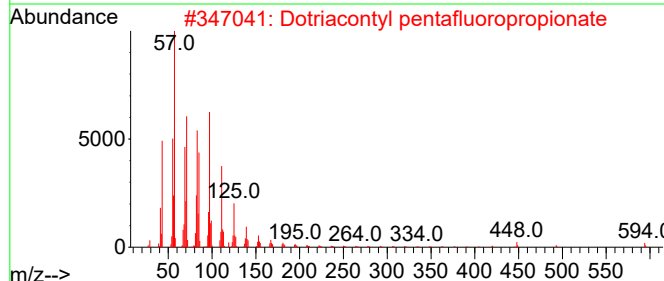
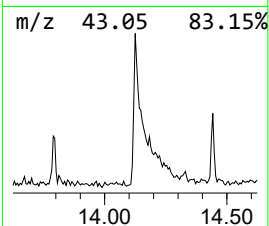
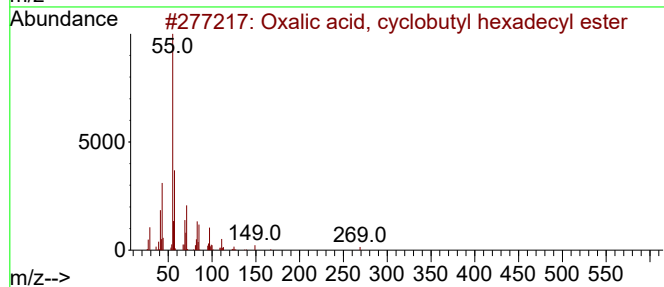
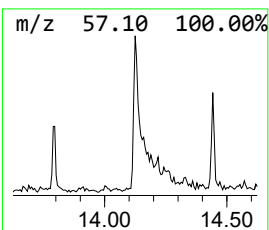
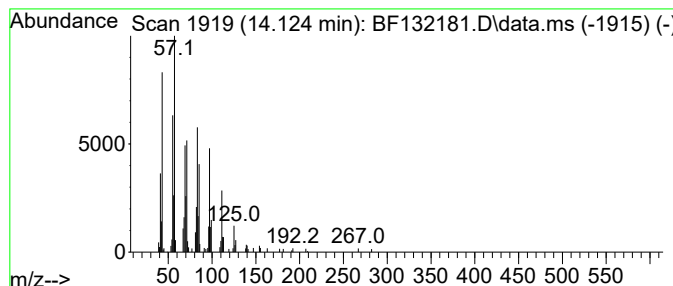
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 Oxalic acid, cyclobutyl hex... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.124	5.24 ng	320805	Chrysene-d12	14.301

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Oxalic acid, cyclobutyl hexadecy...	368	C22H40O4	1000309-70-6	91
2			Dotriacontyl pentafluoropropionate	612	C35H65F5O2	1010351-81-4	91
3			Octacosyl trifluoroacetate	506	C30H57F3O2	1000351-74-9	91
4			Docosyl pentafluoropropionate	472	C25H45F5O2	1000351-80-9	91
5			Ethanol, 2-(tetradecyloxy)-	258	C16H34O2	002136-70-1	87



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132181.D
Acq On : 21 Jan 2023 02:00
Operator : CG\JU
Sample : 01233-09
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P38B

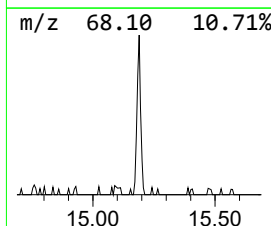
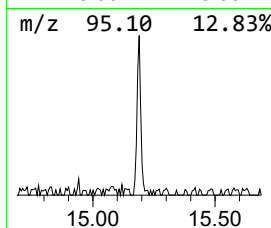
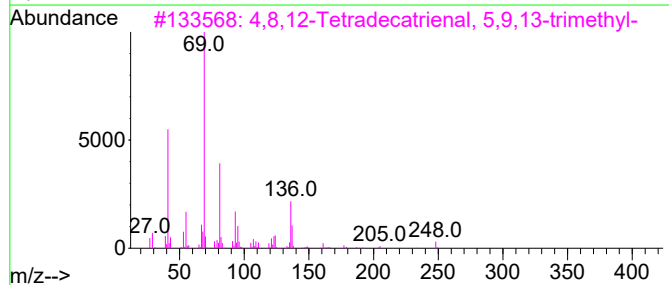
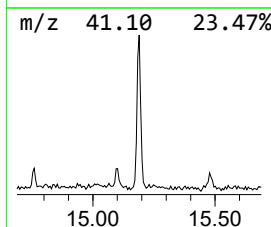
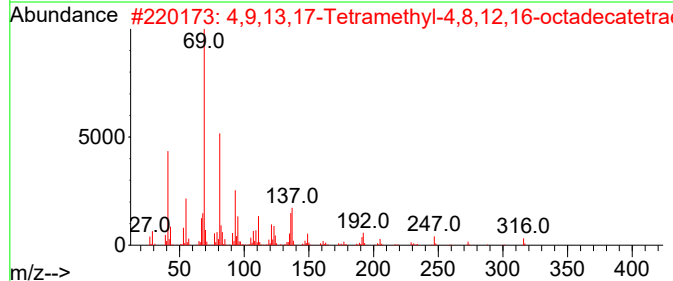
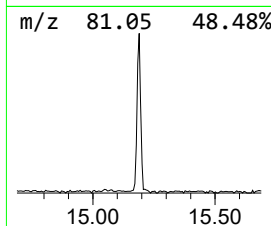
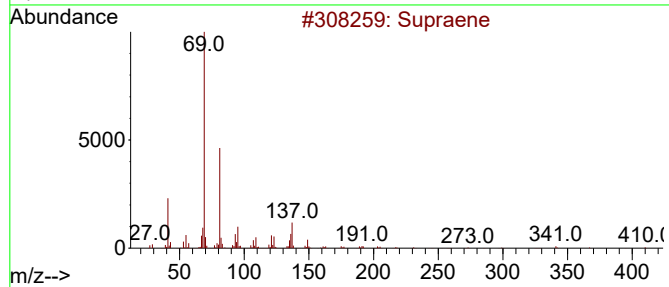
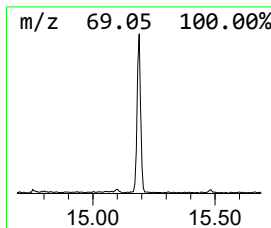
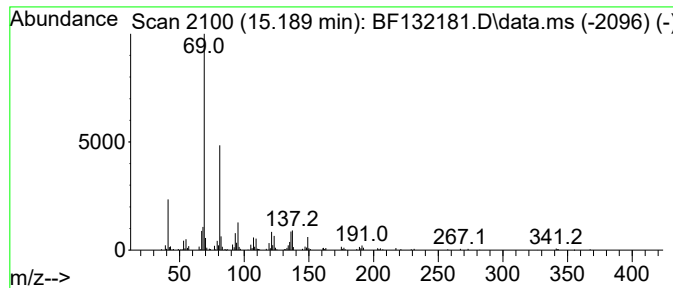
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 6 Supraene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.189	3.38 ng	173779	Perylene-d12	15.895

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Supraene	410	C30H50	007683-64-9	87
2			4,9,13,17-Tetramethyl-4,8,12,16-...	316	C22H36O	056882-09-8	83
3			4,8,12-Tetradecatrienal, 5,9,13-...	248	C17H28O	066408-55-7	72
4			4,8,12-Tetradecatrienenitrile, 5-...	245	C17H27N	005981-31-7	64
5			1,5,9-Decatriene, 2,3,5,8-tetram...	192	C14H24	230646-72-7	64



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132181.D
Acq On : 21 Jan 2023 02:00
Operator : CG\JU
Sample : 01233-09
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P38B

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
2-Pentanone, 4-...	5.343	38.2	ng	2039500	1	7.090	1066920	20.0
Benzophenone	10.854	5.9	ng	444667	3	10.142	1505040	20.0
n-Hexadecanoic ...	12.148	4.0	ng	321205	4	11.636	1611170	20.0
unknown12.807	12.807	9.3	ng	749918	4	11.636	1611170	20.0
Oxalic acid, cy...	14.124	5.2	ng	320805	5	14.301	1223410	20.0
Supraene	15.189	3.4	ng	173779	6	15.895	1029330	20.0



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P38C	SDG No.:	O1233
Lab Sample ID:	O1233-11	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.9
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF132182.D	1	01/20/23 12:30	01/21/23 02:33	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	160	U	160	380	ug/Kg
108-95-2	Phenol	78.7	U	78.7	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	93.4	U	93.4	200	ug/Kg
95-57-8	2-Chlorophenol	79.4	U	79.4	200	ug/Kg
95-48-7	2-Methylphenol	120	U	120	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	110	U	110	200	ug/Kg
98-86-2	Acetophenone	93.1	U	93.1	200	ug/Kg
65794-96-9	3+4-Methylphenols	110	U	110	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	88.5	U	88.5	93.0	ug/Kg
67-72-1	Hexachloroethane	85.7	U	85.7	200	ug/Kg
98-95-3	Nitrobenzene	85.9	U	85.9	200	ug/Kg
78-59-1	Isophorone	77.4	U	77.4	200	ug/Kg
88-75-5	2-Nitrophenol	110	U	110	200	ug/Kg
105-67-9	2,4-Dimethylphenol	110	U	110	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	130	U	130	200	ug/Kg
120-83-2	2,4-Dichlorophenol	95.0	U	95.0	200	ug/Kg
91-20-3	Naphthalene	4600	E	85.9	200	ug/Kg
106-47-8	4-Chloroaniline	110	U	110	200	ug/Kg
87-68-3	Hexachlorobutadiene	120	U	120	200	ug/Kg
105-60-2	Caprolactam	120	U	120	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	91.5	U	91.5	200	ug/Kg
91-57-6	2-Methylnaphthalene	4300	E	87.2	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	200	U	200	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	99.3	U	99.3	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	97.2	U	97.2	200	ug/Kg
92-52-4	1,1-Biphenyl	100	U	100	200	ug/Kg
91-58-7	2-Chloronaphthalene	99.4	U	99.4	200	ug/Kg
88-74-4	2-Nitroaniline	130	U	130	200	ug/Kg
131-11-3	Dimethylphthalate	94.1	U	94.1	200	ug/Kg
208-96-8	Acenaphthylene	79.9	U	79.9	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	90.8	U	90.8	200	ug/Kg



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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P38C	SDG No.:	O1233
Lab Sample ID:	O1233-11	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.9
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF132182.D	1	01/20/23 12:30	01/21/23 02:33	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	120	U	120	200	ug/Kg
83-32-9	Acenaphthene	91.7	U	91.7	200	ug/Kg
51-28-5	2,4-Dinitrophenol	150	U	150	380	ug/Kg
100-02-7	4-Nitrophenol	160	U	160	380	ug/Kg
132-64-9	Dibenzofuran	86.3	U	86.3	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	98.4	U	98.4	200	ug/Kg
84-66-2	Diethylphthalate	93.6	U	93.6	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	110	U	110	200	ug/Kg
86-73-7	Fluorene	91.6	U	91.6	200	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	100	U	100	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	95.6	U	95.6	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	110	U	110	200	ug/Kg
118-74-1	Hexachlorobenzene	120	U	120	200	ug/Kg
1912-24-9	Atrazine	100	U	100	200	ug/Kg
87-86-5	Pentachlorophenol	140	U	140	380	ug/Kg
85-01-8	Phenanthrene	97.2	U	97.2	200	ug/Kg
120-12-7	Anthracene	97.7	U	97.7	200	ug/Kg
86-74-8	Carbazole	97.9	U	97.9	200	ug/Kg
84-74-2	Di-n-butylphthalate	100	U	100	200	ug/Kg
206-44-0	Fluoranthene	92.8	U	92.8	200	ug/Kg
129-00-0	Pyrene	86.3	U	86.3	200	ug/Kg
85-68-7	Butylbenzylphthalate	96.1	U	96.1	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	160	U	160	380	ug/Kg
56-55-3	Benzo(a)anthracene	100	U	100	200	ug/Kg
218-01-9	Chrysene	99.4	U	99.4	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	150	J	100	200	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	80.2	U	80.2	200	ug/Kg
207-08-9	Benzo(k)fluoranthene	85.6	U	85.6	200	ug/Kg
50-32-8	Benzo(a)pyrene	78.7	U	78.7	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	120	U	120	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	120	U	120	200	ug/Kg



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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P38C	SDG No.:	O1233
Lab Sample ID:	O1233-11	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.9
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF132182.D	1	01/20/23 12:30	01/21/23 02:33	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	110	U	110	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	110	U	110	200	ug/Kg
123-91-1	1,4-Dioxane	100	U	100	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	94.4	U	94.4	200	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	113		18 - 112	75%	SPK: 150
13127-88-3	Phenol-d6	123		21 - 104	82%	SPK: 150
4165-60-0	Nitrobenzene-d5	96.6		27 - 109	97%	SPK: 100
321-60-8	2-Fluorobiphenyl	65.0		30 - 103	65%	SPK: 100
118-79-6	2,4,6-Tribromophenol	134		10 - 121	89%	SPK: 150
1718-51-0	Terphenyl-d14	68.5		21 - 107	68%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	95900	7.101
1146-65-2	Naphthalene-d8	390000	8.389
15067-26-2	Acenaphthene-d10	294000	10.142
1517-22-2	Phenanthrene-d10	606000	11.636
1719-03-5	Chrysene-d12	412000	14.295
1520-96-3	Perylene-d12	356000	15.895

TENTATIVE IDENTIFIED COMPOUNDS

000592-27-8	Heptane, 2-methyl-	910	J	4.26	ug/Kg
000111-65-9	Octane	1400	J	4.82	ug/Kg
002216-30-0	Heptane, 2,5-dimethyl-	800	J	5.28	ug/Kg
000111-84-2	Nonane	1400	J	6.03	ug/Kg
002051-30-1	Octane, 2,6-dimethyl-	1900	J	6.36	ug/Kg
000611-14-3	Benzene, 1-ethyl-2-methyl-	1100	J	6.64	ug/Kg
003728-54-9	Cyclohexane, 1-ethyl-2-methyl-	860	J	6.85	ug/Kg
000526-73-8	Benzene, 1,2,3-trimethyl-	2100	J	6.94	ug/Kg
000620-14-4	Benzene, 1-ethyl-3-methyl-	800	J	7.17	ug/Kg
000934-74-7	Benzene, 1-ethyl-3,5-dimethyl-	1400	J	7.42	ug/Kg
013151-34-3	Decane, 3-methyl-	1000	J	7.49	ug/Kg
	unknown7.748	1600	J	7.75	ug/Kg
000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	890	J	7.79	ug/Kg



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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company		Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR		Date Received:	01/19/23
Client Sample ID:	B-P38C		SDG No.:	O1233
Lab Sample ID:	O1233-11		Matrix:	SOIL
Analytical Method:	SW8270		% Solid:	85.9
Sample Wt/Vol:	30.04	Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-TCL BNA -20
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF132182.D	1	01/20/23 12:30	01/21/23 02:33	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000527-84-4	o-Cymene	840	J		7.90	ug/Kg
001595-16-0	Benzene, 1-methyl-4-(1-methylpropyl)-	950	J		7.98	ug/Kg
002050-24-0	Benzene, 1,3-diethyl-5-methyl-	990	J		8.04	ug/Kg
001560-06-1	Benzene, 2-butenyl-	1300	J		8.06	ug/Kg
000824-90-8	1-Phenyl-1-butene	2300	J		8.13	ug/Kg
	unknown8.666	1000	J		8.67	ug/Kg
90-12-0	1-Methylnaphthalene	2000	J		9.20	ug/Kg

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
 Data File : BF132182.D
 Acq On : 21 Jan 2023 02:33
 Operator : CG\JU
 Sample : 01233-11
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-P38C

Quant Time: Jan 21 03:59:52 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 00:50:42 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

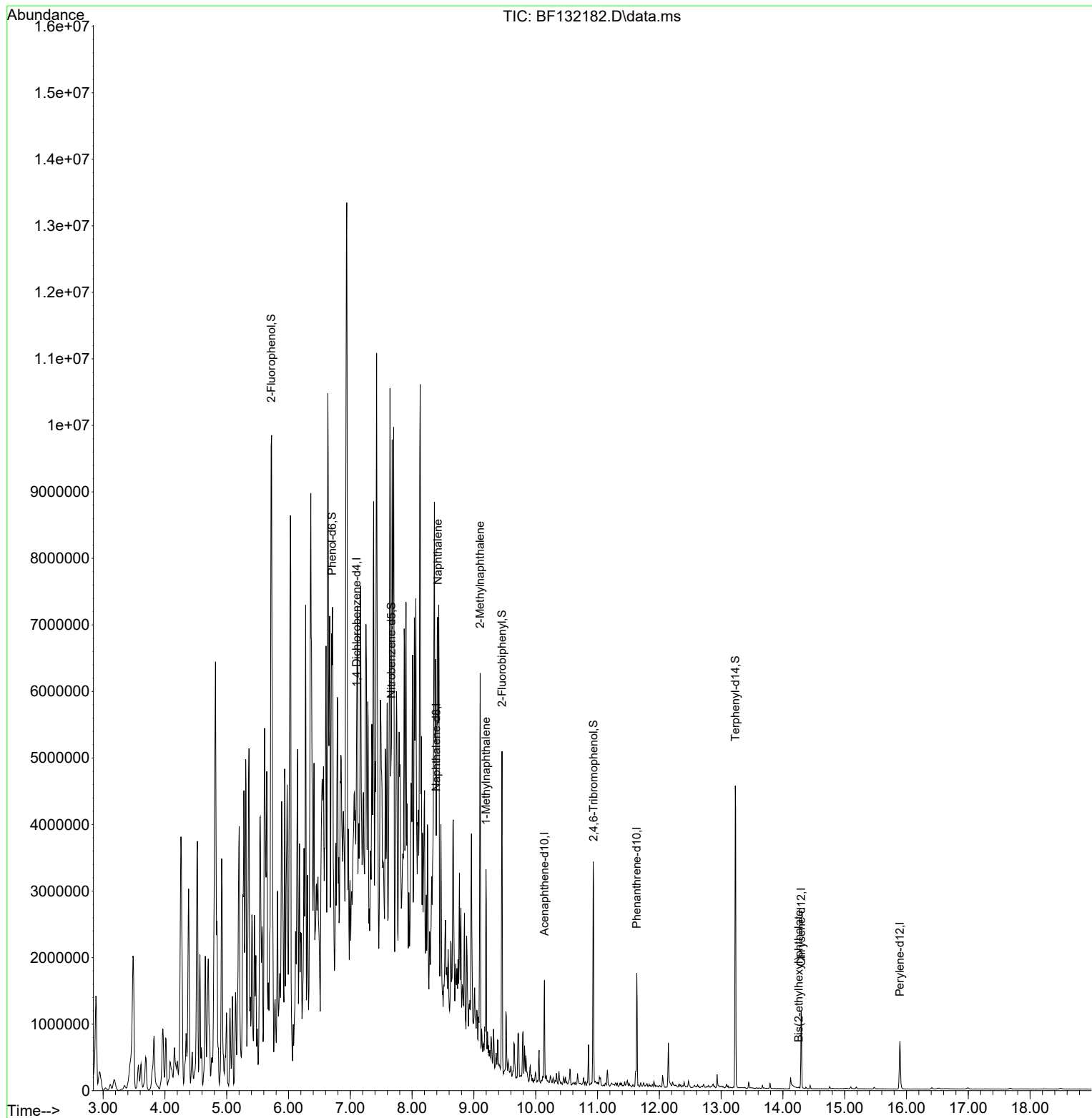
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.101	152	95858	20.000	ng	0.01
21) Naphthalene-d8	8.389	136	389884	20.000	ng	# 0.01
39) Acenaphthene-d10	10.142	164	294398	20.000	ng	0.00
64) Phenanthrene-d10	11.636	188	605609	20.000	ng	0.00
76) Chrysene-d12	14.295	240	411820	20.000	ng	#-0.01
86) Perylene-d12	15.895	264	355739	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.719	112	621178	113.201	ng	0.01
7) Phenol-d6	6.707	99	851243	123.233	ng	0.00
23) Nitrobenzene-d5	7.666	82	709237	96.636	ng	0.01
42) 2,4,6-Tribromophenol	10.936	330	422138	134.241	ng	0.00
45) 2-Fluorobiphenyl	9.454	172	1310324	65.037	ng	0.00
79) Terphenyl-d14	13.230	244	1683122	68.462	ng	0.00
Target Compounds						
						Qvalue
31) Naphthalene	8.419	128	2356250	117.674	ng	98
37) 2-Methylnaphthalene	9.101	142	1529697	110.959	ng	100
38) 1-Methylnaphthalene	9.195	142	672957	52.462	ng	97
84) Bis(2-ethylhexyl)phtha...	14.260	149	5431	3.796	ng	92

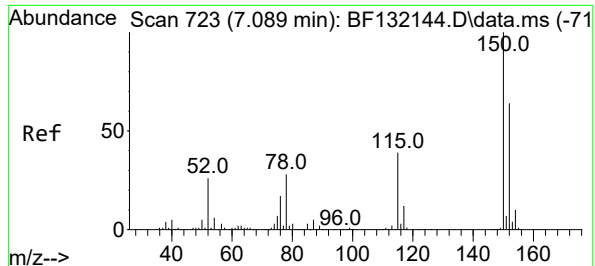
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132182.D
Acq On : 21 Jan 2023 02:33
Operator : CG\JU
Sample : 01233-11
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P38C

Quant Time: Jan 21 03:59:52 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 20 00:50:42 2023
Response via : Initial Calibration

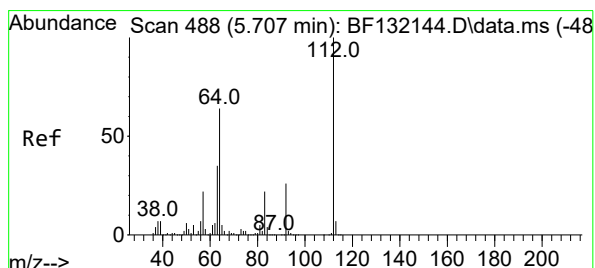
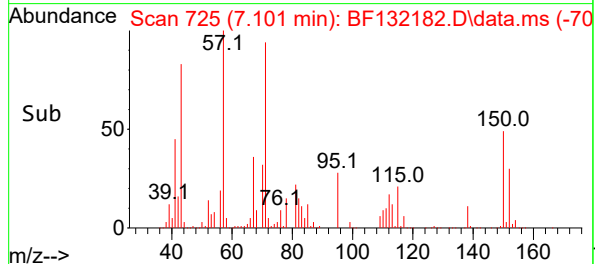
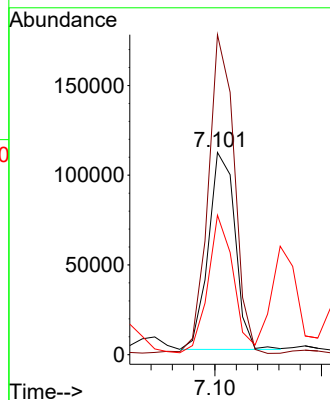
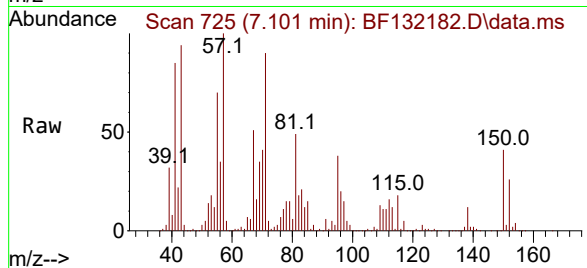




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.101 min Scan# 71
Delta R.T. 0.012 min
Lab File: BF132182.D
Acq: 21 Jan 2023 02:33

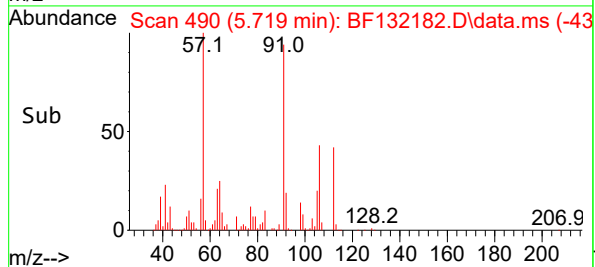
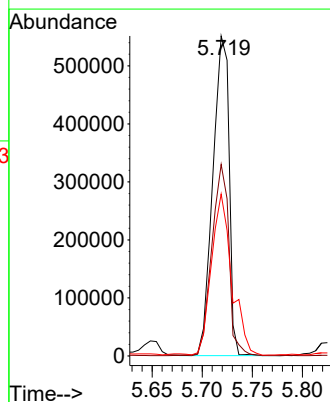
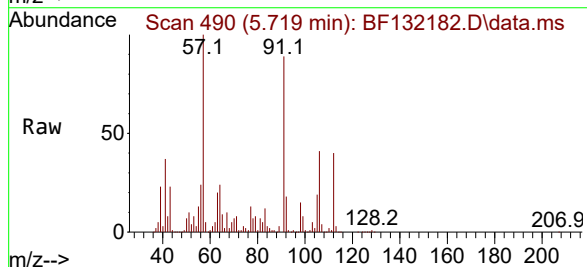
Instrument :
BNA_F
ClientSampleId :
B-P38C

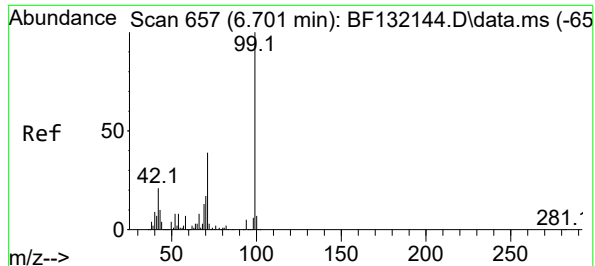
Tgt Ion:152 Resp: 95858
Ion Ratio Lower Upper
152 100
150 158.2 125.8 188.8
115 69.0 49.2 73.8



#5
2-Fluorophenol
Concen: 113.201 ng
RT: 5.719 min Scan# 490
Delta R.T. 0.012 min
Lab File: BF132182.D
Acq: 21 Jan 2023 02:33

Tgt Ion:112 Resp: 621178
Ion Ratio Lower Upper
112 100
64 59.8 51.4 77.0
63 50.6 28.2 42.2#

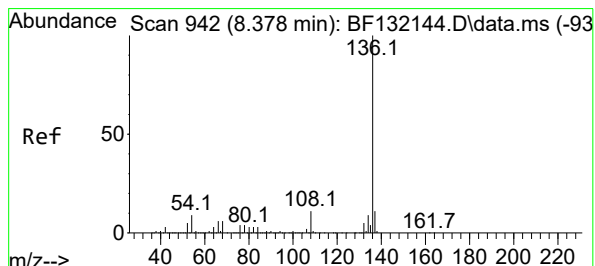
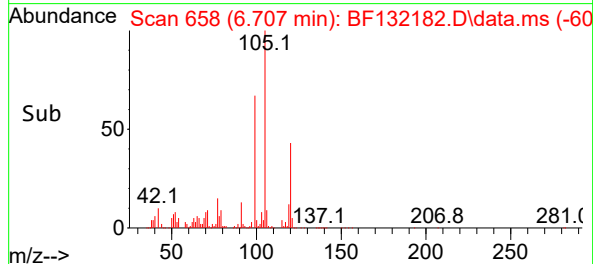
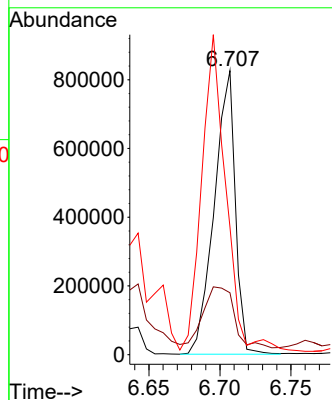
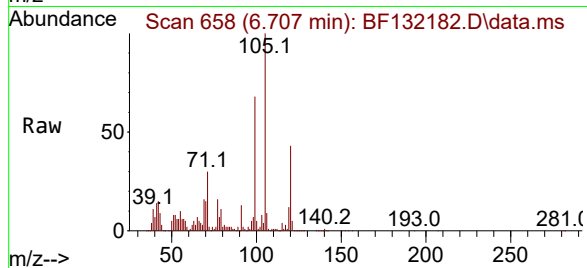




#7
Phenol-d6
Concen: 123.233 ng
RT: 6.707 min Scan# 61
Delta R.T. 0.006 min
Lab File: BF132182.D
Acq: 21 Jan 2023 02:33

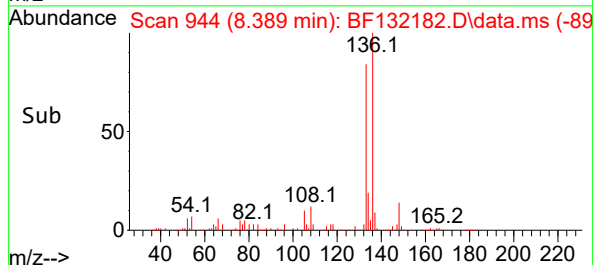
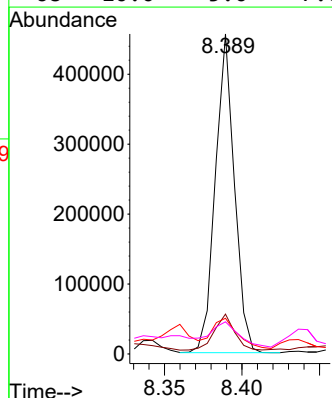
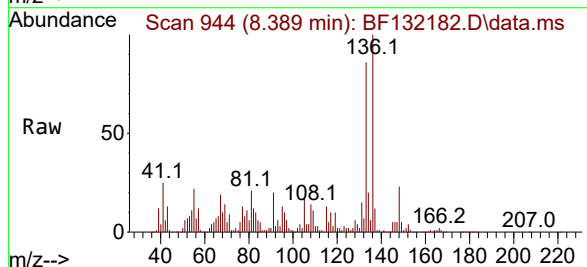
Instrument :
BNA_F
ClientSampleId :
B-P38C

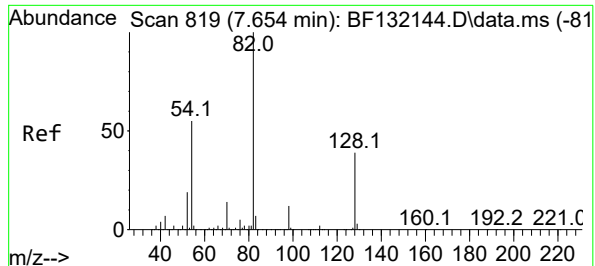
Tgt Ion: 99 Resp: 851243
Ion Ratio Lower Upper
99 100
42 21.8 16.6 24.8
71 44.9 30.8 46.2



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.389 min Scan# 944
Delta R.T. 0.011 min
Lab File: BF132182.D
Acq: 21 Jan 2023 02:33

Tgt Ion: 136 Resp: 389884
Ion Ratio Lower Upper
136 100
137 12.4 8.9 13.3
54 11.1 7.0 10.6#
68 10.0 5.0 7.6#





#23

Nitrobenzene-d5

Concen: 96.636 ng

RT: 7.666 min Scan# 81

Delta R.T. 0.012 min

Lab File: BF132182.D

Acq: 21 Jan 2023 02:33

Instrument :

BNA_F

ClientSampleId :

B-P38C

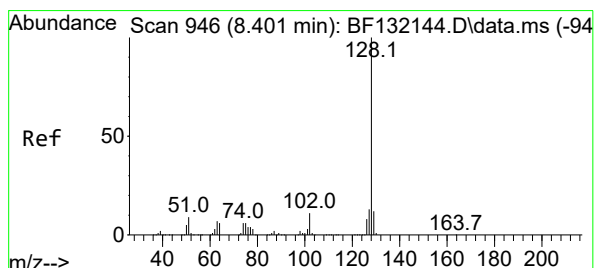
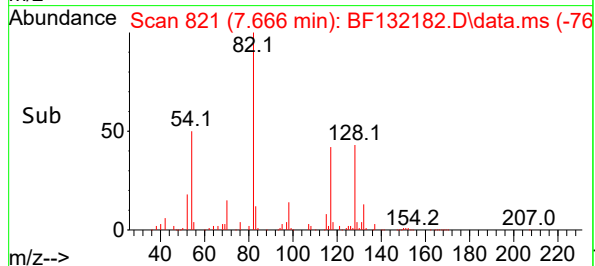
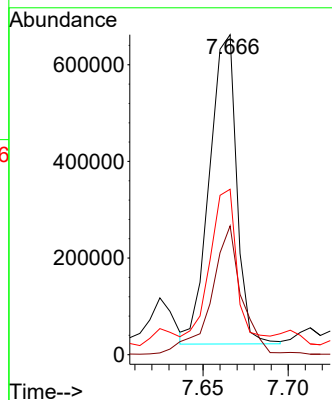
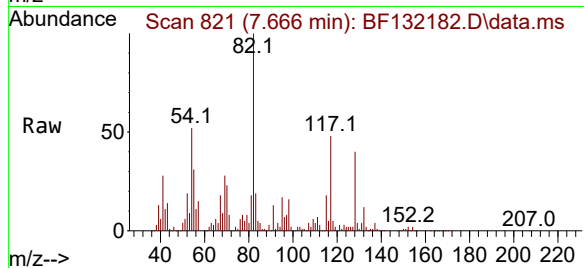
Tgt Ion: 82 Resp: 709237

Ion Ratio Lower Upper

82 100

128 40.2 31.1 46.7

54 51.7 43.9 65.9



#31

Naphthalene

Concen: 117.674 ng

RT: 8.419 min Scan# 949

Delta R.T. 0.018 min

Lab File: BF132182.D

Acq: 21 Jan 2023 02:33

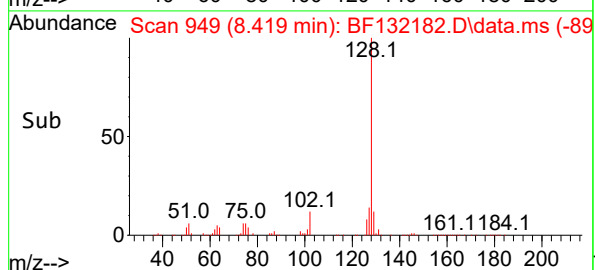
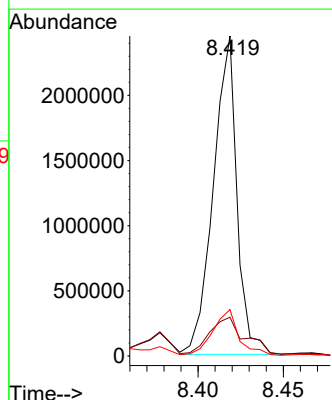
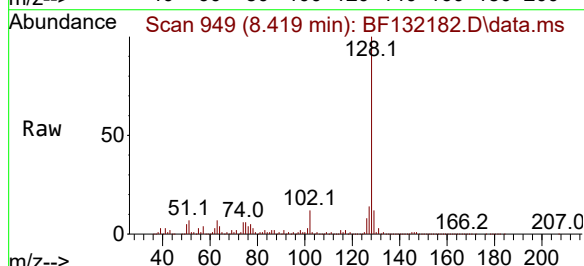
Tgt Ion:128 Resp: 2356250

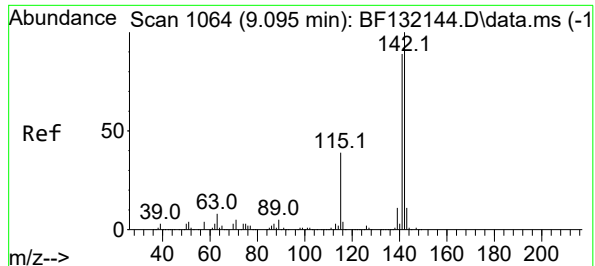
Ion Ratio Lower Upper

128 100

129 12.1 9.3 13.9

127 14.5 10.6 15.8





#37

2-Methylnaphthalene

Concen: 110.959 ng

RT: 9.101 min Scan# 1065

Delta R.T. 0.006 min

Lab File: BF132182.D

Acq: 21 Jan 2023 02:33

Instrument :

BNA_F

ClientSampleId :

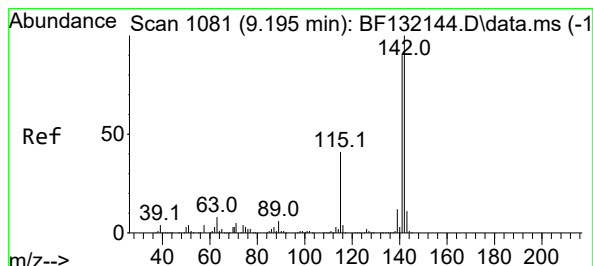
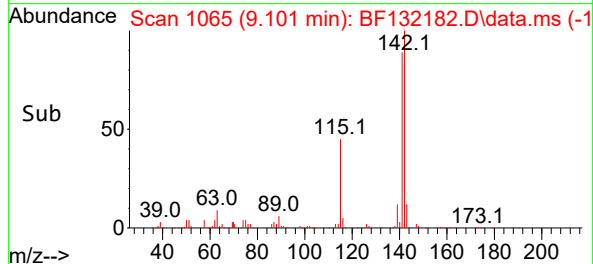
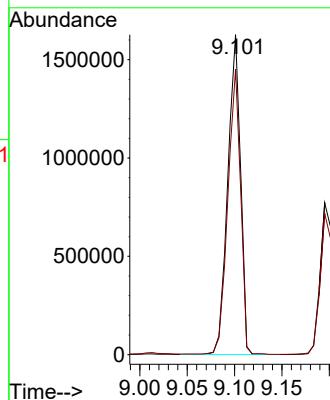
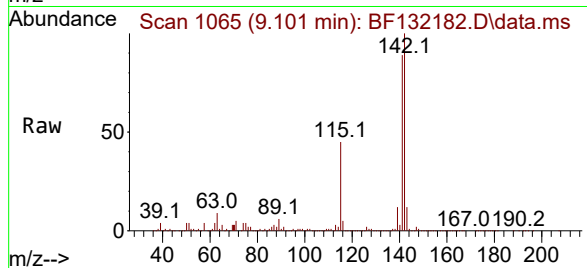
B-P38C

Tgt Ion:142 Resp: 1529697

Ion Ratio Lower Upper

142 100

141 89.3 71.1 106.7



#38

1-Methylnaphthalene

Concen: 52.462 ng

RT: 9.195 min Scan# 1081

Delta R.T. 0.000 min

Lab File: BF132182.D

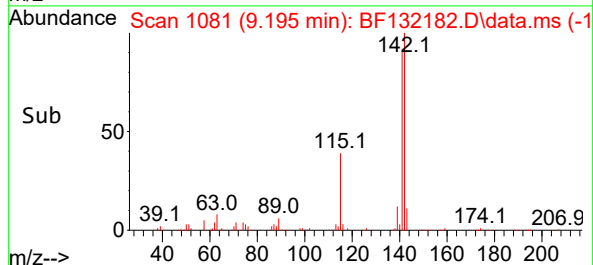
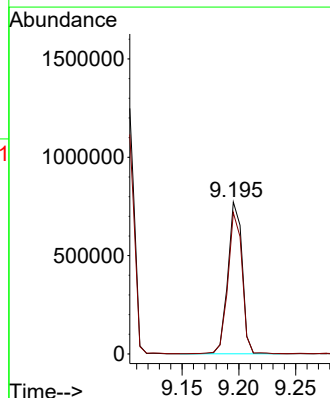
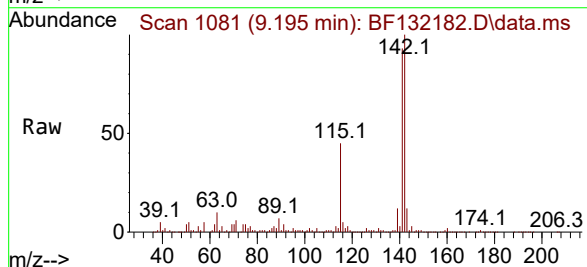
Acq: 21 Jan 2023 02:33

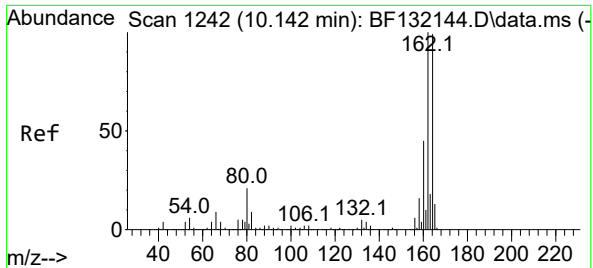
Tgt Ion:142 Resp: 672957

Ion Ratio Lower Upper

142 100

141 93.0 72.1 108.1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.142 min Scan# 1

Delta R.T. -0.000 min

Lab File: BF132182.D

Acq: 21 Jan 2023 02:33

Instrument :

BNA_F

ClientSampleId :

B-P38C

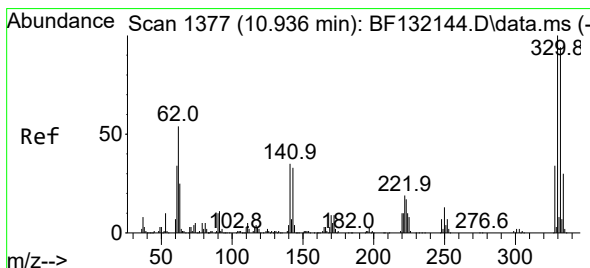
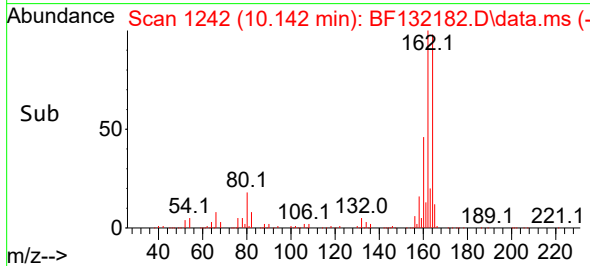
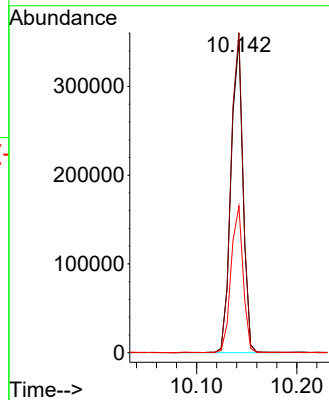
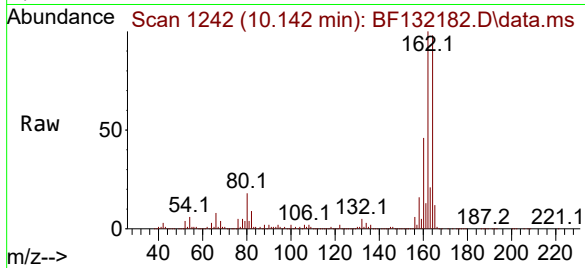
Tgt Ion:164 Resp: 294398

Ion Ratio Lower Upper

164 100

162 102.3 81.2 121.8

160 46.8 36.9 55.3



#42

2,4,6-Tribromophenol

Concen: 134.241 ng

RT: 10.936 min Scan# 1377

Delta R.T. 0.000 min

Lab File: BF132182.D

Acq: 21 Jan 2023 02:33

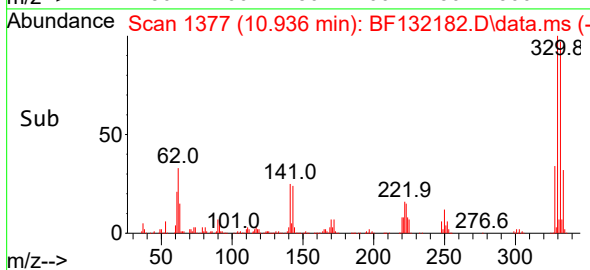
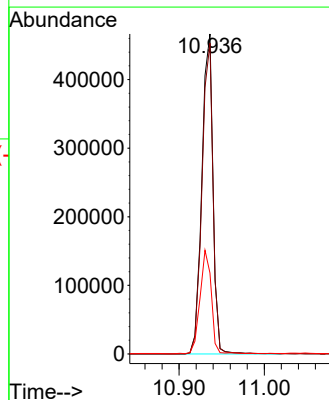
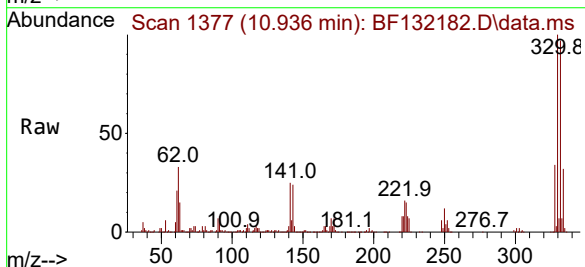
Tgt Ion:330 Resp: 422138

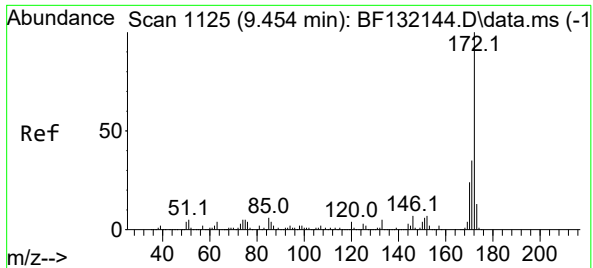
Ion Ratio Lower Upper

330 100

332 96.5 75.6 113.4

141 32.8 27.1 40.7





#45

2-Fluorobiphenyl

Concen: 65.037 ng

RT: 9.454 min Scan# 1125

Delta R.T. -0.000 min

Lab File: BF132182.D

Acq: 21 Jan 2023 02:33

Instrument :

BNA_F

ClientSampleId :

B-P38C

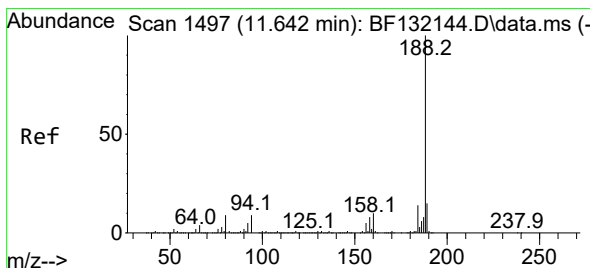
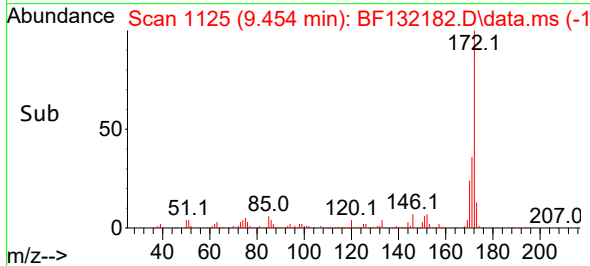
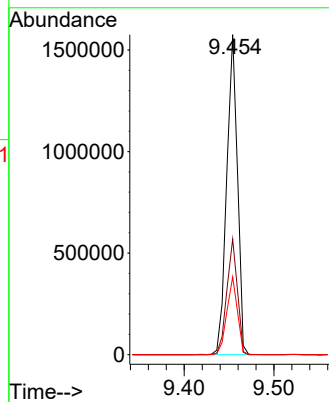
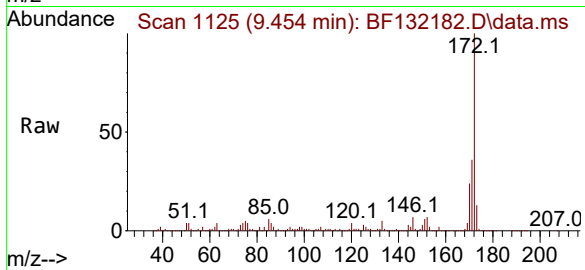
Tgt Ion:172 Resp: 1310324

Ion Ratio Lower Upper

172 100

171 36.2 28.2 42.2

170 24.3 19.6 29.4



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.636 min Scan# 1496

Delta R.T. -0.006 min

Lab File: BF132182.D

Acq: 21 Jan 2023 02:33

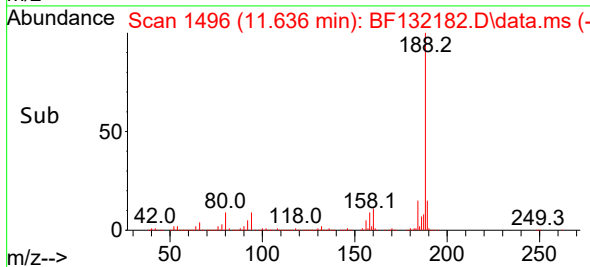
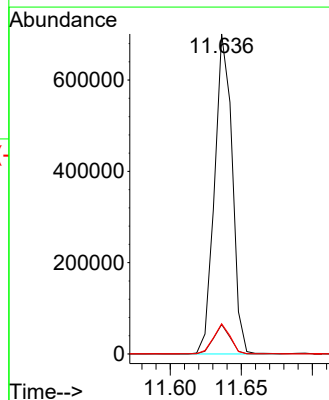
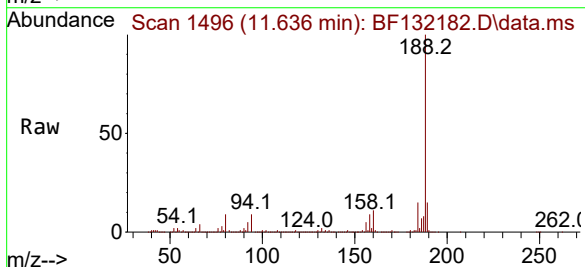
Tgt Ion:188 Resp: 605609

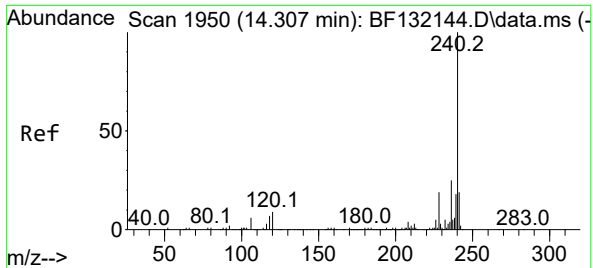
Ion Ratio Lower Upper

188 100

94 9.2 6.9 10.3

80 9.4 7.5 11.3





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.295 min Scan# 1948

Delta R.T. -0.012 min

Lab File: BF132182.D

Acq: 21 Jan 2023 02:33

Instrument :

BNA_F

ClientSampleId :

B-P38C

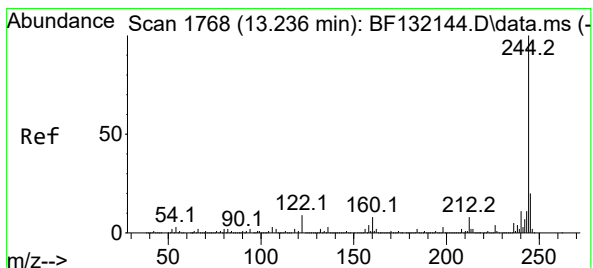
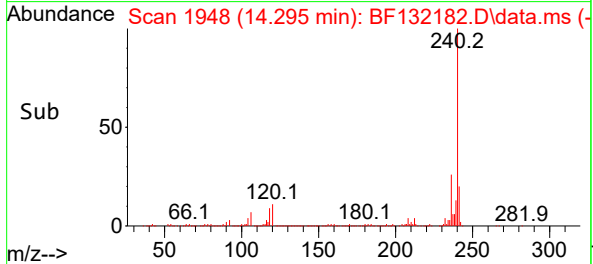
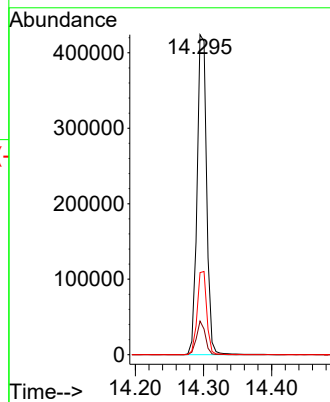
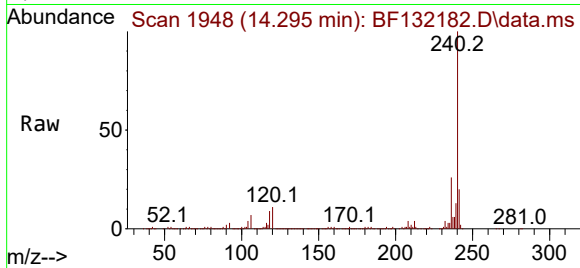
Tgt Ion:240 Resp: 411820

Ion Ratio Lower Upper

240 100

120 10.5 6.9 10.3#

236 25.7 20.3 30.5



#79

Terphenyl-d14

Concen: 68.462 ng

RT: 13.230 min Scan# 1767

Delta R.T. -0.006 min

Lab File: BF132182.D

Acq: 21 Jan 2023 02:33

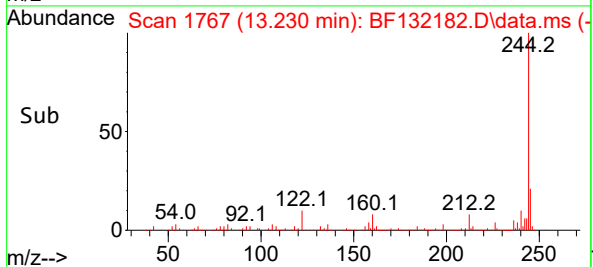
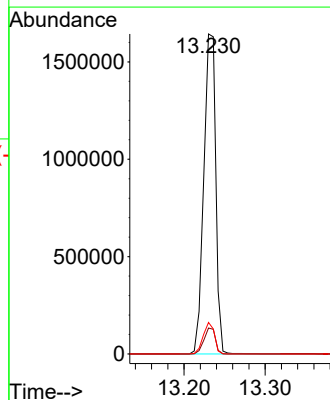
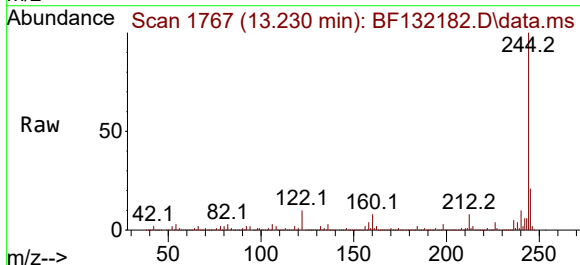
Tgt Ion:244 Resp: 1683122

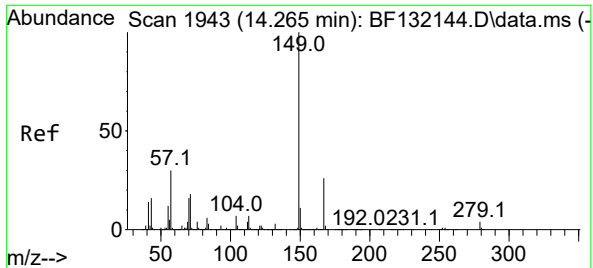
Ion Ratio Lower Upper

244 100

212 8.1 6.7 10.1

122 9.8 7.4 11.2

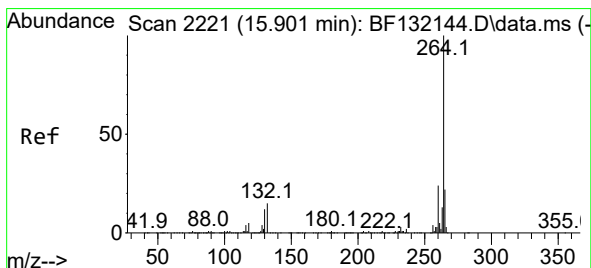
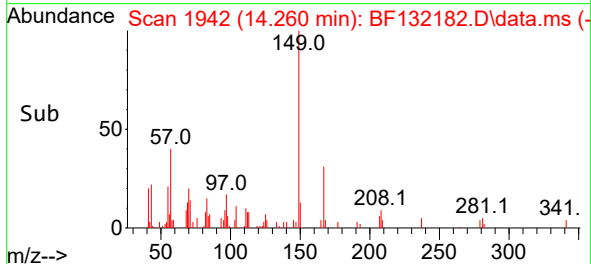
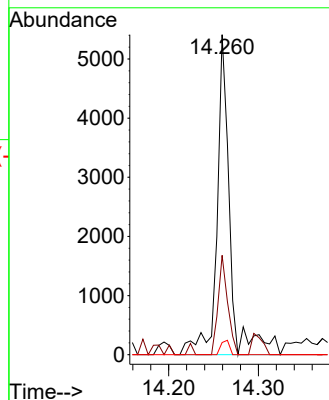
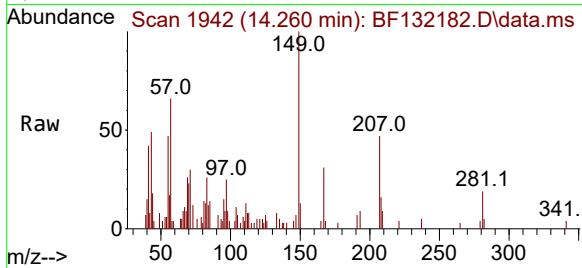




#84
Bis(2-ethylhexyl)phthalate
Concen: 3.796 ng
RT: 14.260 min Scan# 1942
Delta R.T. -0.005 min
Lab File: BF132182.D
Acq: 21 Jan 2023 02:33

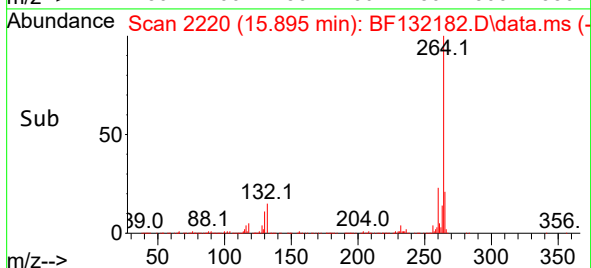
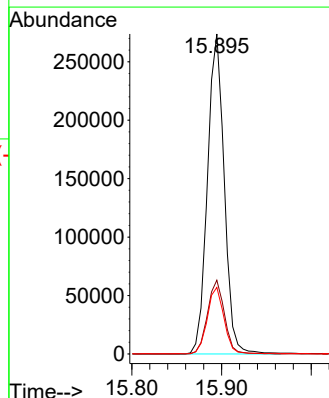
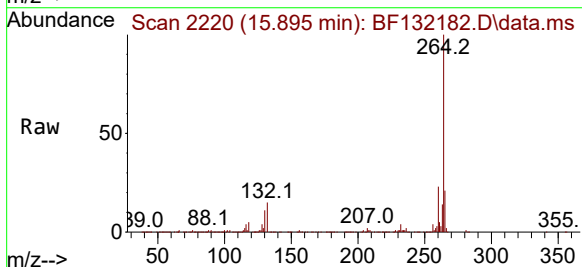
Instrument :
BNA_F
ClientSampleId :
B-P38C

Tgt Ion:149 Resp: 5431
Ion Ratio Lower Upper
149 100
167 31.1 21.0 31.6
279 3.8 3.2 4.8



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.895 min Scan# 2220
Delta R.T. -0.006 min
Lab File: BF132182.D
Acq: 21 Jan 2023 02:33

Tgt Ion:264 Resp: 355739
Ion Ratio Lower Upper
264 100
260 23.0 19.1 28.7
265 20.8 17.4 26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
 Data File : BF132182.D
 Acq On : 21 Jan 2023 02:33
 Operator : CG\JU
 Sample : 01233-11
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-P38C

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF132182.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.884	3	8	13	rVB	1319825	2297570	13.05%	0.509%
2	3.484	91	110	117	rVB	1990031	5107773	29.02%	1.132%
3	3.825	154	168	182	rBV3	808721	1989649	11.30%	0.441%
4	3.966	182	192	196	rBV3	907489	1783187	10.13%	0.395%
5	4.260	235	242	249	rVB2	3706318	7637997	43.39%	1.692%
6	4.343	249	256	258	rBV2	751564	1201894	6.83%	0.266%
7	4.384	258	263	268	rVB	2920612	4500210	25.56%	0.997%
8	4.525	277	287	290	rBV2	3569164	5486192	31.17%	1.215%
9	4.566	290	294	297	rBV	1766198	1917320	10.89%	0.425%
10	4.654	302	309	312	rBV	1937650	2788321	15.84%	0.618%
11	4.701	312	317	323	rVB2	1758470	3391984	19.27%	0.751%
12	4.819	329	337	340	rBV2	6021803	11590542	65.84%	2.568%
13	4.919	347	354	361	rBV3	3394904	5285414	30.02%	1.171%
14	5.054	373	377	380	rBV	1163770	1450506	8.24%	0.321%
15	5.095	380	384	387	rVB	1316006	1556220	8.84%	0.345%
16	5.142	387	392	395	rBV2	1376225	1897781	10.78%	0.420%
17	5.201	395	402	408	rVB2	3475061	5646958	32.08%	1.251%
18	5.278	408	415	417	rBV2	4010110	6737009	38.27%	1.493%
19	5.307	417	420	423	rVB	4315945	4937241	28.05%	1.094%
20	5.360	423	429	431	rBV2	4480035	5964157	33.88%	1.321%
21	5.407	434	437	441	rVB3	1897982	2215435	12.59%	0.491%
22	5.448	441	444	446	rBV2	1891108	1894608	10.76%	0.420%
23	5.542	454	460	463	rBV2	3725379	6557462	37.25%	1.453%
24	5.572	463	465	468	rVB2	1730186	1865544	10.60%	0.413%
25	5.613	468	472	476	rBV2	4713540	8102190	46.03%	1.795%
26	5.648	476	478	481	rVB	3575592	3416835	19.41%	0.757%
27	5.725	484	491	497	rVB3	9269294	17603507	100.00%	3.900%
28	5.825	504	508	510	rBV	2280376	2413507	13.71%	0.535%
29	5.889	516	519	525	rVB4	3020580	4813175	27.34%	1.066%
30	5.937	525	527	529	rBV	3508831	3052447	17.34%	0.676%
31	5.978	529	534	537	rBV2	3027443	4145817	23.55%	0.918%
32	6.031	537	543	546	rVB2	7529928	11607859	65.94%	2.572%
33	6.113	552	557	559	rBV3	1713704	2340899	13.30%	0.519%
34	6.148	559	563	565	rVB3	3826206	4540452	25.79%	1.006%
35	6.178	565	568	570	rBV	2406126	2214940	12.58%	0.491%
36	6.195	570	571	575	rVB3	1297817	1553865	8.83%	0.344%

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
 Data File : BF132182.D
 Acq On : 21 Jan 2023 02:33
 Operator : CG\JU
 Sample : 01233-11
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-P38C

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	6.254	575	581	582	rBV2	2561650	3313587	18.82%	0.734%
38	6.278	582	585	587	rVB	5941859	5323769	30.24%	1.179%
39	6.307	587	590	593	rVB3	2027948	2063646	11.72%	0.457%
40	6.360	593	599	605	rBV4	7767026	15863962	90.12%	3.514%
41	6.413	605	608	610	rVB2	2657895	2226446	12.65%	0.493%
42	6.548	625	631	632	rBV3	3491825	6623255	37.62%	1.467%
43	6.607	638	641	643	rVB	4004002	3928882	22.32%	0.870%
44	6.637	643	646	649	rBV3	7804918	9598853	54.53%	2.127%
45	6.666	649	651	653	rVB	4382403	3863935	21.95%	0.856%
46	6.695	653	656	657	rBV	4120072	3945326	22.41%	0.874%
47	6.766	664	668	669	rBV2	1919164	1948540	11.07%	0.432%
48	6.789	669	672	675	rVV2	4048590	5177246	29.41%	1.147%
49	6.848	677	682	687	rVV5	3073795	7278288	41.35%	1.612%
50	6.889	687	689	693	rVV4	2118213	3250719	18.47%	0.720%
51	6.942	693	698	701	rVV2	11184624	17463111	99.20%	3.869%
52	6.966	701	702	705	rVB2	1965232	1503676	8.54%	0.333%
53	7.066	713	719	723	rVV6	2059655	5276467	29.97%	1.169%
54	7.113	723	727	729	rVV2	4771125	6534518	37.12%	1.448%
55	7.136	729	731	732	rVV	1441846	1284068	7.29%	0.284%
56	7.166	732	736	740	rVV2	4945699	6718315	38.16%	1.488%
57	7.213	741	744	747	rVV3	1743686	2302194	13.08%	0.510%
58	7.254	747	751	754	rVV4	4189152	6336657	36.00%	1.404%
59	7.284	754	756	761	rVB2	3444780	3556725	20.20%	0.788%
60	7.348	765	767	769	rVV	2496881	2388871	13.57%	0.529%
61	7.378	769	772	774	rVV2	5784774	5509074	31.30%	1.220%
62	7.401	774	776	777	rVV	1864227	1412859	8.03%	0.313%
63	7.425	777	780	786	rVB2	8953513	12061575	68.52%	2.672%
64	7.489	786	791	797	rBV3	3741143	8554950	48.60%	1.895%
65	7.566	802	804	806	rBV	2555131	2438024	13.85%	0.540%
66	7.595	806	809	811	rVB	3269002	2811750	15.97%	0.623%
67	7.642	811	817	819	rBV	8002855	10111082	57.44%	2.240%
68	7.678	820	823	825	rVV2	5369121	5294760	30.08%	1.173%
69	7.701	825	827	830	rVB	7884875	6940618	39.43%	1.538%
70	7.748	830	835	839	rBV6	3914692	6022789	34.21%	1.334%
71	7.789	839	842	843	rBV	3140121	3271913	18.59%	0.725%
72	7.872	854	856	858	rBV	3442495	2890340	16.42%	0.640%
73	7.901	858	861	863	rVV2	3892772	3068371	17.43%	0.680%
74	7.983	871	875	877	rBV3	2450449	3480957	19.77%	0.771%
75	8.007	877	879	881	rVB	3721454	2892868	16.43%	0.641%
76	8.036	881	884	885	rBV2	4282265	3641475	20.69%	0.807%

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
 Data File : BF132182.D
 Acq On : 21 Jan 2023 02:33
 Operator : CG\JU
 Sample : 01233-11
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-P38C

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON Filtering: 5
 Sampling : 1 Min Area: 3 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

77	8.060	885	888	892	rVV3	4297742	4907556	27.88%	1.087%
78	8.101	892	895	896	rVV2	1206297	1330791	7.56%	0.295%
79	8.131	896	900	902	rVV2	7656531	8340511	47.38%	1.848%
80	8.201	908	912	914	rVB2	2448026	2898478	16.47%	0.642%
81	8.248	918	920	924	rVB	2476059	2409491	13.69%	0.534%
82	8.319	928	932	933	rBV3	1327007	1514908	8.61%	0.336%
83	8.360	933	939	941	rVV2	6377808	8481958	48.18%	1.879%
84	8.378	941	942	944	rVV	4092429	2837994	16.12%	0.629%
85	8.413	944	948	950	rVV2	4778041	7865217	44.68%	1.742%
86	8.431	950	951	954	rVB	5583200	3755186	21.33%	0.832%
87	8.466	954	957	963	rVB3	2742160	3004993	17.07%	0.666%
88	8.542	963	970	972	rBV5	1302831	2107736	11.97%	0.467%
89	8.625	981	984	987	rBV3	1046541	1211233	6.88%	0.268%
90	8.666	987	991	995	rVB3	2724959	3677634	20.89%	0.815%
91	8.848	1019	1022	1026	rVB	1743116	1602303	9.10%	0.355%
92	8.883	1026	1028	1033	rBV3	1400031	1517923	8.62%	0.336%
93	8.960	1038	1041	1046	rVB3	2851788	2793143	15.87%	0.619%
94	9.101	1062	1065	1067	rVB	5625828	4917689	27.94%	1.089%
95	9.195	1079	1081	1084	rVV	2720099	2238916	12.72%	0.496%
96	9.454	1121	1125	1128	rVB	4797456	3971227	22.56%	0.880%
97	10.142	1239	1242	1245	rVB	1478054	1202110	6.83%	0.266%
98	10.930	1372	1376	1380	rBV	3334164	3169486	18.00%	0.702%
99	11.636	1493	1496	1499	rVB	1686380	1462660	8.31%	0.324%
100	13.230	1763	1767	1771	rBV	4533768	4487087	25.49%	0.994%

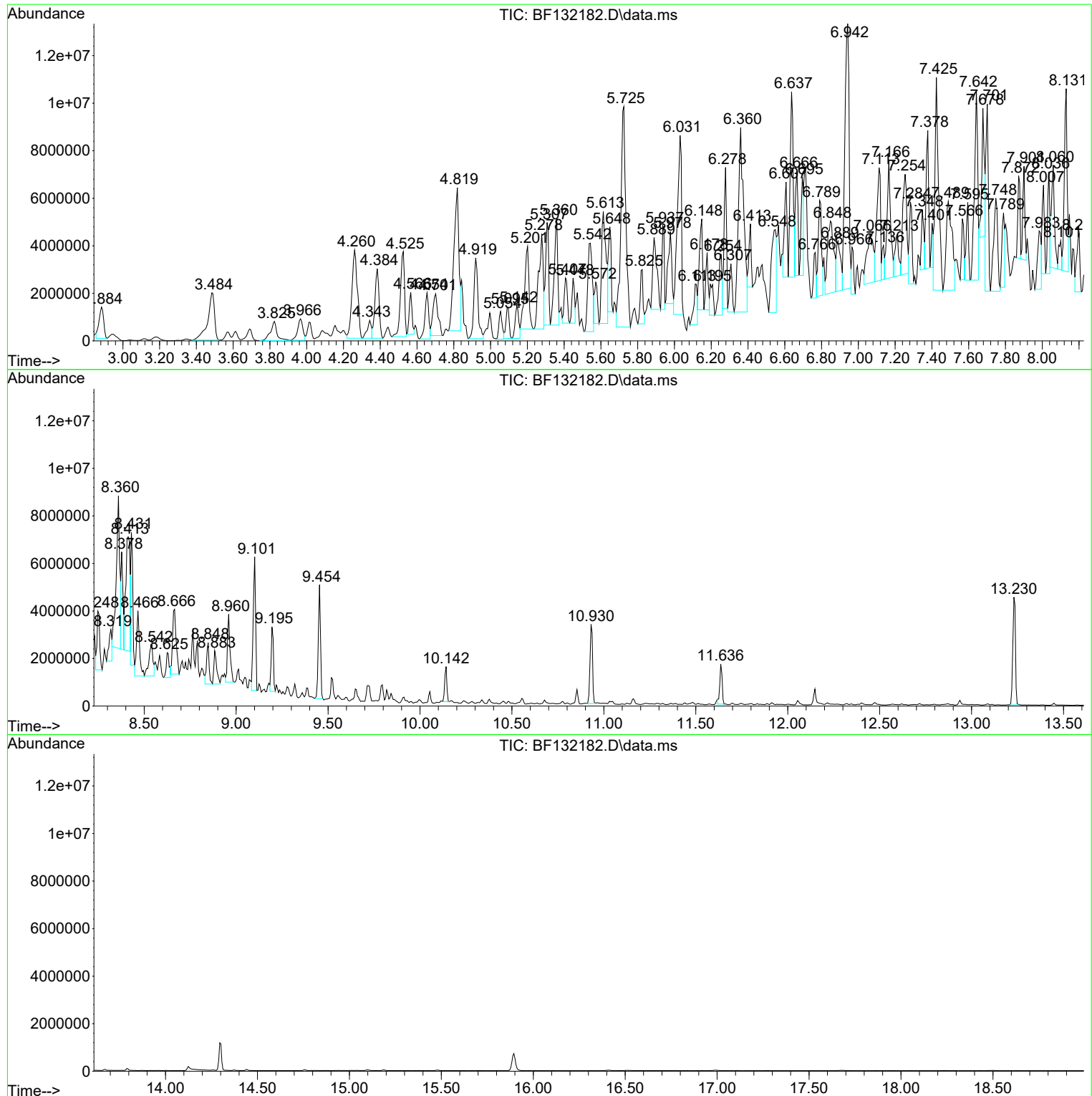
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132182.D
Acq On : 21 Jan 2023 02:33
Operator : CG\JU
Sample : 01233-11
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P38C

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132182.D
Acq On : 21 Jan 2023 02:33
Operator : CG\JU
Sample : 01233-11
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P38C

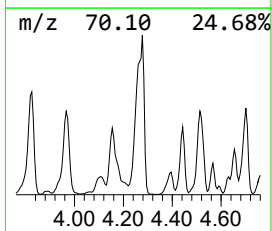
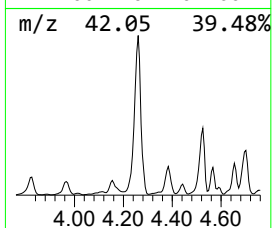
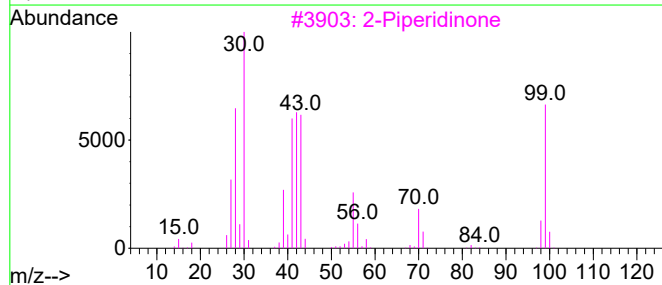
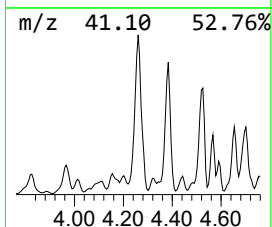
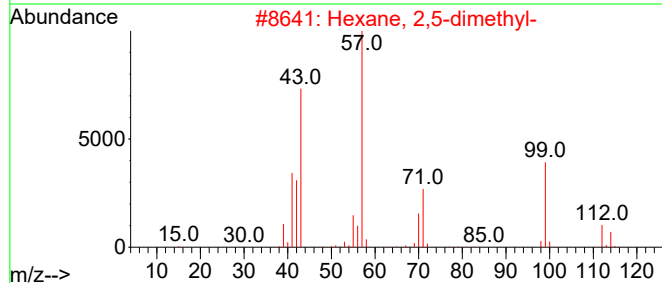
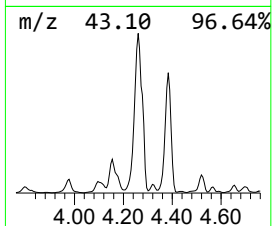
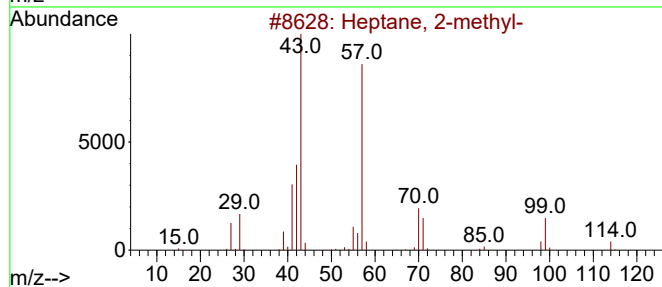
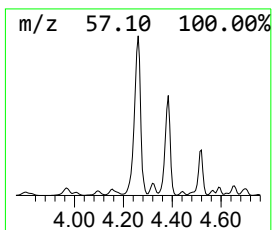
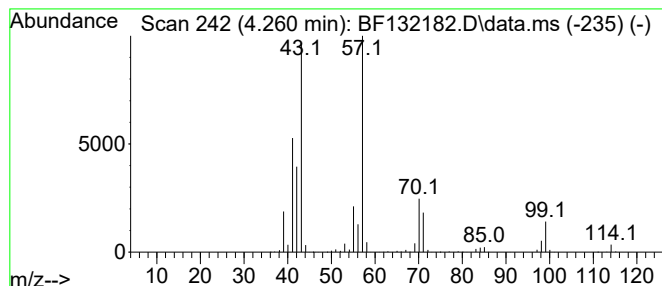
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 Heptane, 2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.260	23.38 ng	7638000	1,4-Dichlorobenzene-d4	7.101

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Heptane, 2-methyl-	114	C8H18	000592-27-8	91
2			Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	72
3			2-Piperidinone	99	C5H9NO	000675-20-7	47
4			Hexane, 4-ethyl-2-methyl-	128	C9H20	003074-75-7	47
5			Cyclohexanol, 4-methyl-	114	C7H14O	000589-91-3	38



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132182.D
Acq On : 21 Jan 2023 02:33
Operator : CG\JU
Sample : 01233-11
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P38C

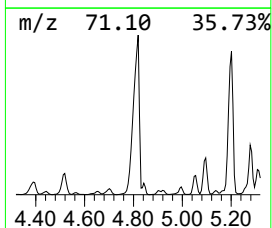
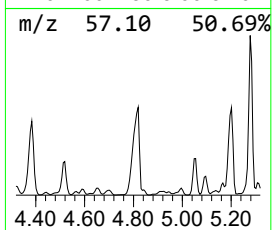
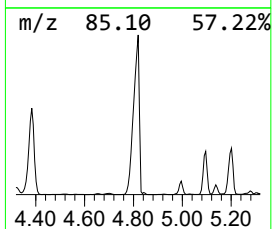
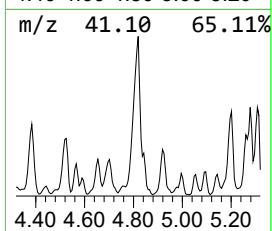
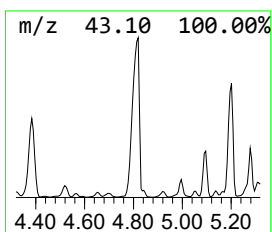
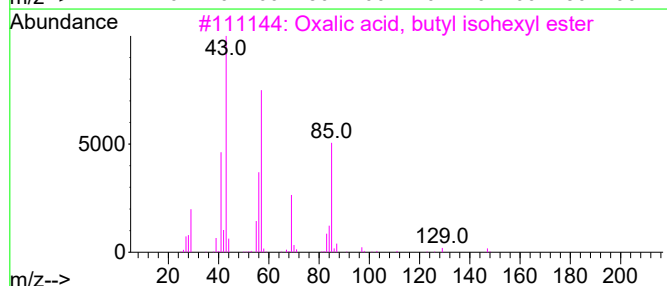
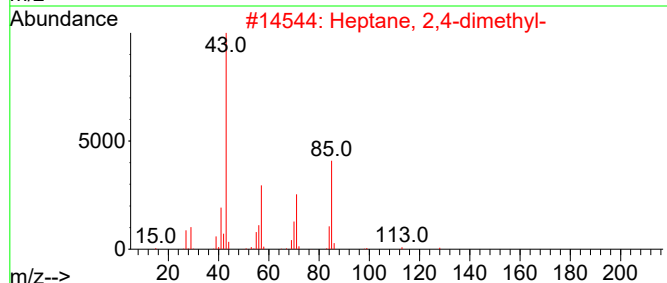
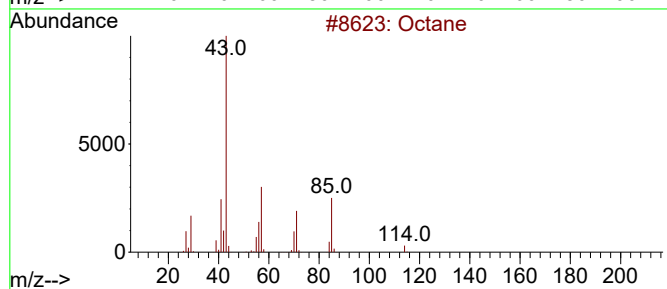
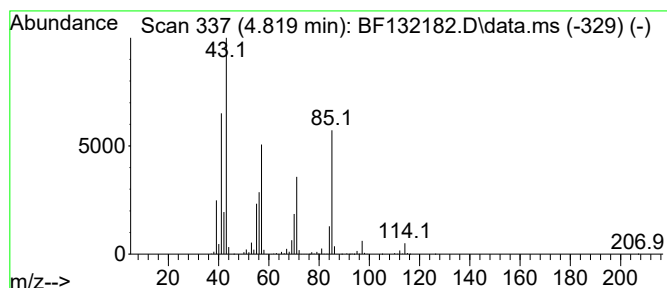
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 Octane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.819	35.47 ng	11590500	1,4-Dichlorobenzene-d4	7.101

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane			114	C8H18	000111-65-9	91
2	Heptane, 2,4-dimethyl-			128	C9H20	002213-23-2	59
3	Oxalic acid, butyl isohexyl ester			230	C12H22O4	1000309-32-7	53
4	Hexane, 3-ethyl-			114	C8H18	000619-99-8	53
5	Undecane, 2,4-dimethyl-			184	C13H28	017312-80-0	53



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132182.D
Acq On : 21 Jan 2023 02:33
Operator : CG\JU
Sample : 01233-11
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P38C

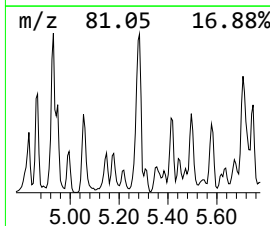
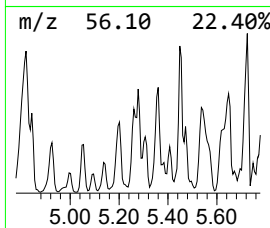
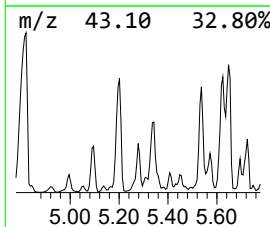
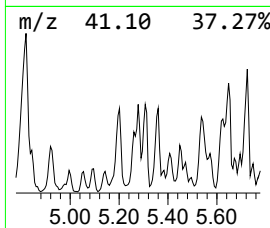
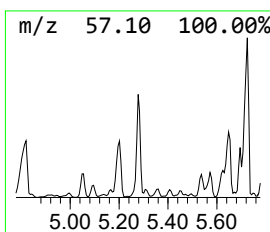
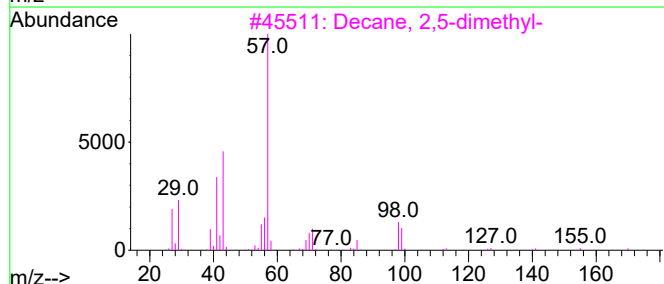
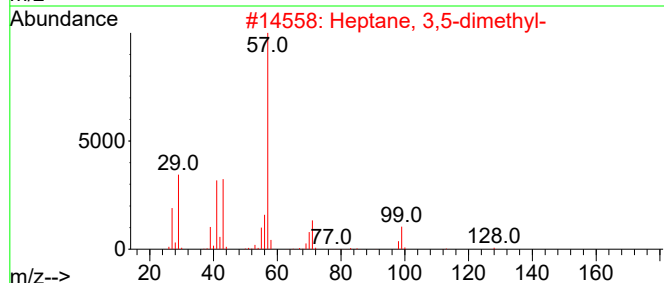
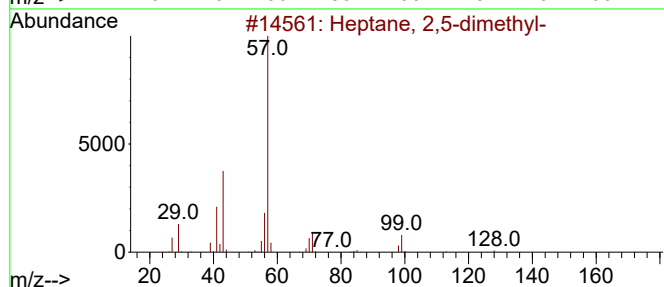
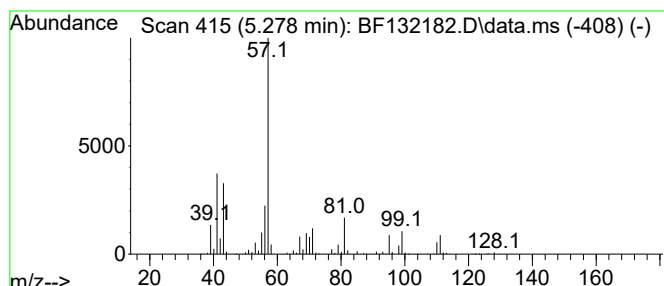
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 Heptane, 2,5-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.278	20.62 ng	6737010	1,4-Dichlorobenzene-d4	7.101

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	52
2			Heptane, 3,5-dimethyl-	128	C9H20	000926-82-9	49
3			Decane, 2,5-dimethyl-	170	C12H26	017312-50-4	47
4			Octane, 3-methyl-	128	C9H20	002216-33-3	47
5			Oxalic acid, isobutyl heptyl ester	244	C13H24O4	1000309-37-2	43



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132182.D
Acq On : 21 Jan 2023 02:33
Operator : CG\JU
Sample : 01233-11
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P38C

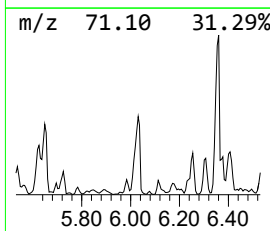
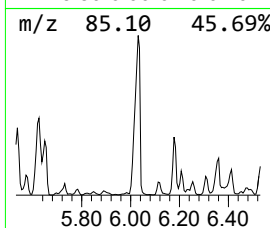
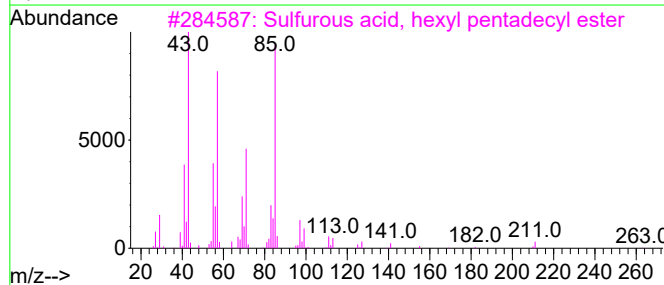
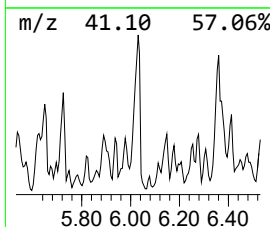
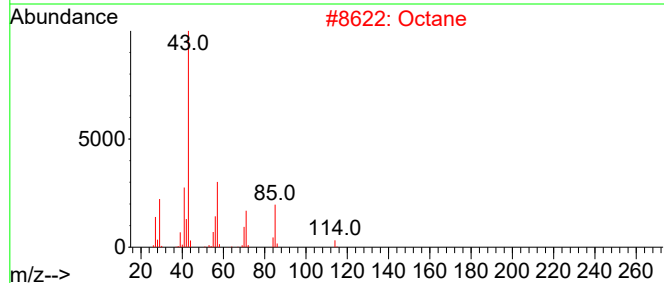
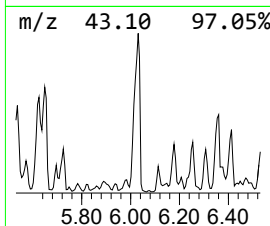
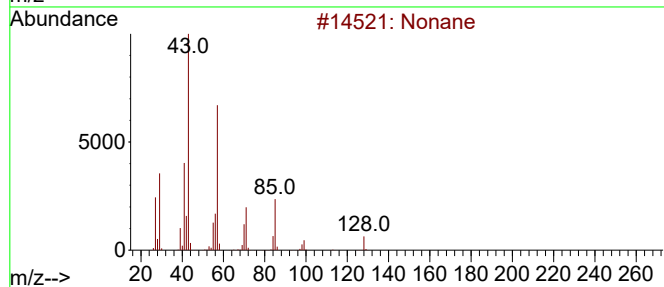
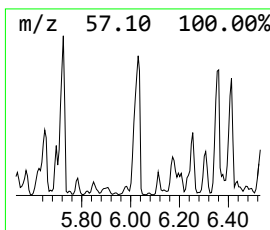
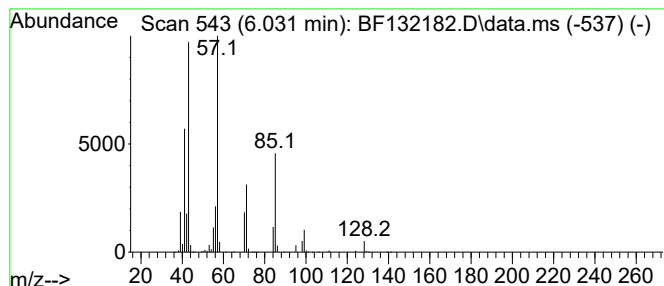
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 Nonane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.031	35.53 ng	11607900	1,4-Dichlorobenzene-d4	7.101

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Nonane	128	C9H20	000111-84-2	94
2			Octane	114	C8H18	000111-65-9	72
3			Sulfurous acid, hexyl pentadecyl...	376	C21H44O3S	1000309-13-7	72
4			4,4-Dimethyl octane	142	C10H22	015869-95-1	72
5			Carbonic acid, decyl prop-1-en-2...	242	C14H26O3	1000382-90-5	64



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132182.D
Acq On : 21 Jan 2023 02:33
Operator : CG\JU
Sample : 01233-11
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P38C

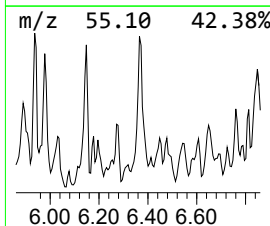
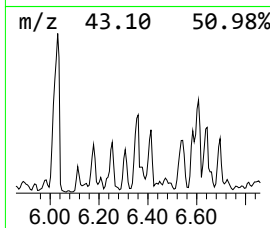
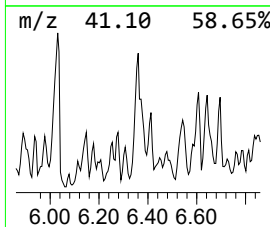
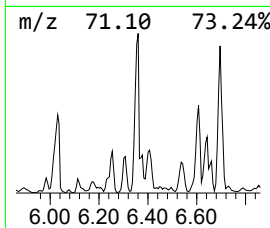
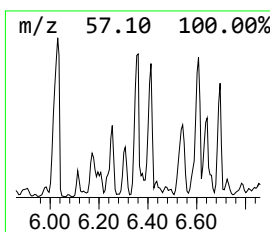
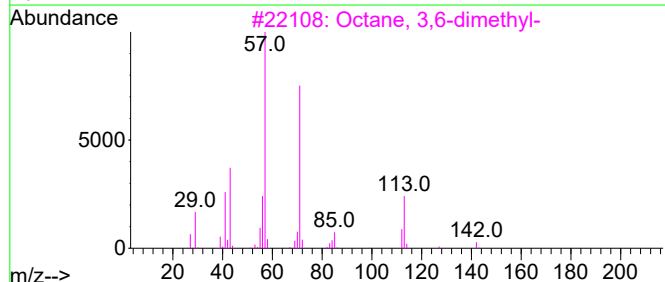
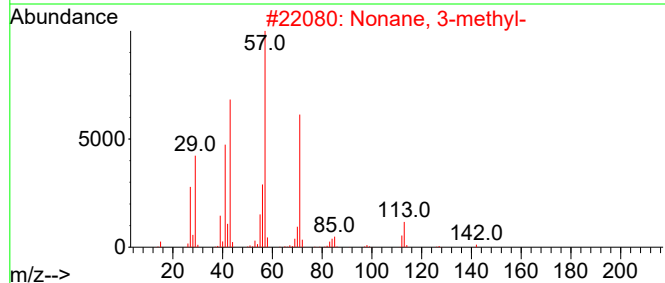
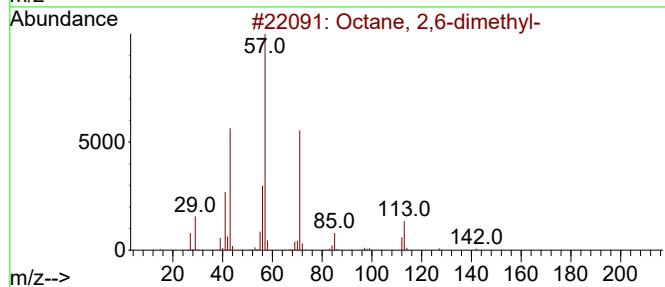
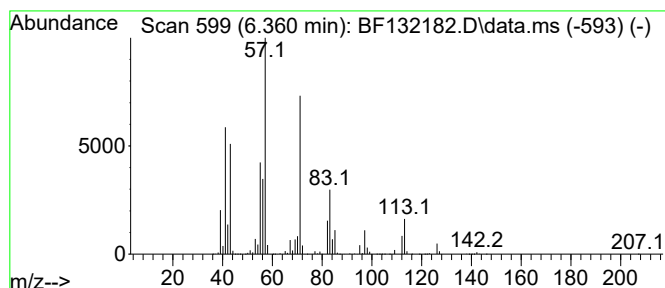
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 6 Octane, 2,6-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.360	48.55 ng	15864000	1,4-Dichlorobenzene-d4	7.101

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	81
2			Nonane, 3-methyl-	142	C10H22	005911-04-6	81
3			Octane, 3,6-dimethyl-	142	C10H22	015869-94-0	74
4			Sulfurous acid, 2-ethylhexyl hex...	418	C24H50O3S	1000309-19-9	64
5			Undecane, 6,6-dimethyl-	184	C13H28	017312-76-4	53



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132182.D
Acq On : 21 Jan 2023 02:33
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Sample : 01233-11
Misc :
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Instrument :
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ClientSampleId :
B-P38C

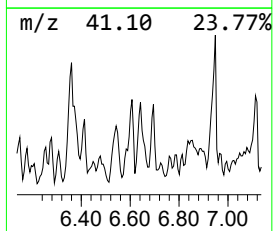
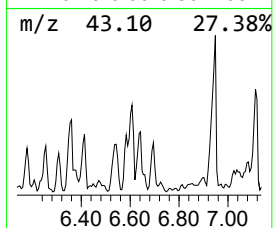
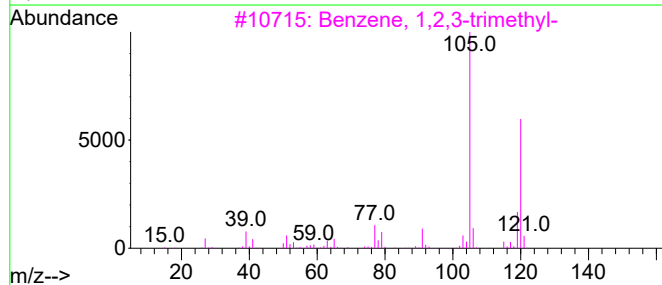
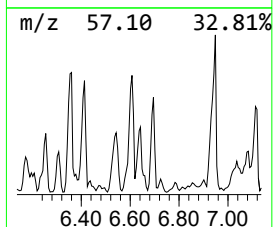
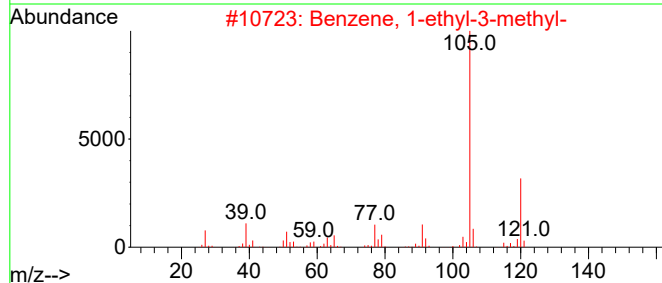
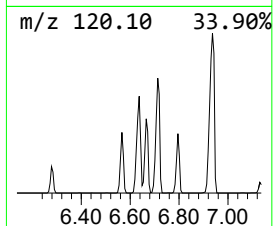
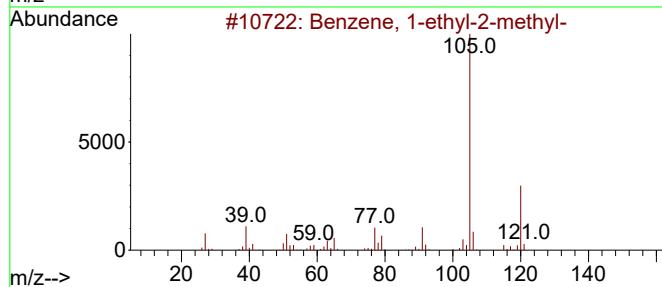
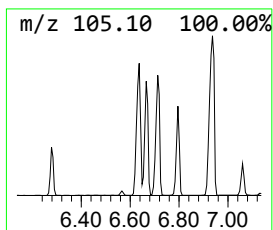
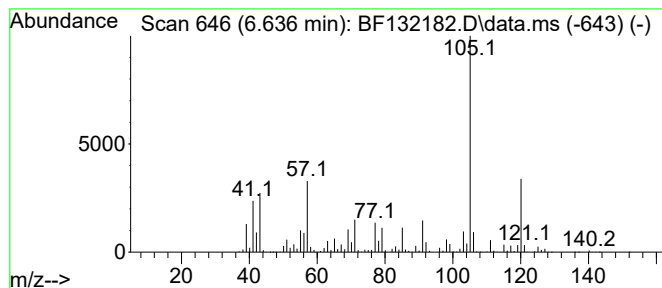
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 7 Benzene, 1-ethyl-2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.636	29.38 ng	9598850	1,4-Dichlorobenzene-d4	7.101

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	93
2			Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	86
3			Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	70
4			Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	70
5			Mesitylene	120	C9H12	000108-67-8	70



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132182.D
Acq On : 21 Jan 2023 02:33
Operator : CG\JU
Sample : 01233-11
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
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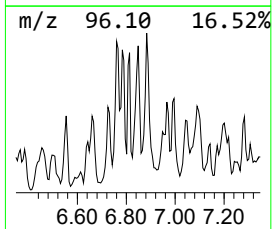
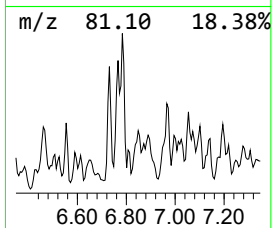
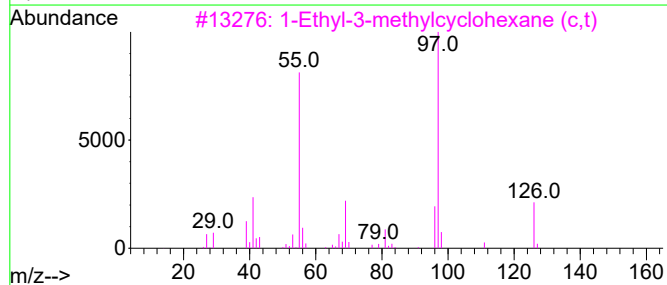
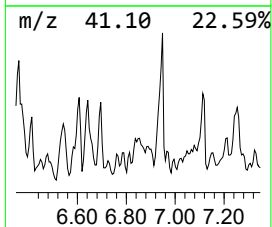
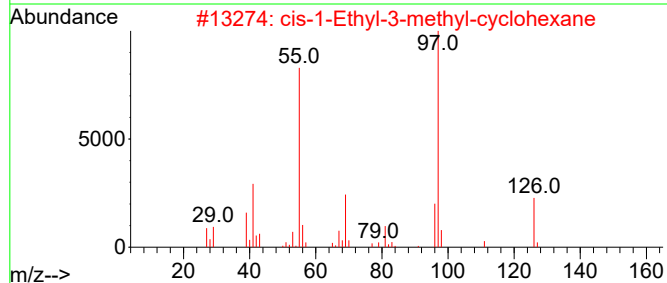
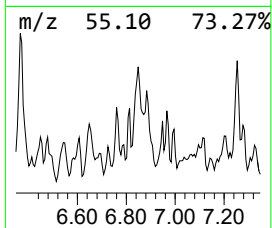
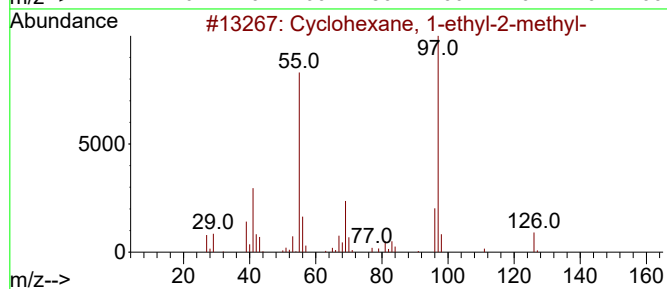
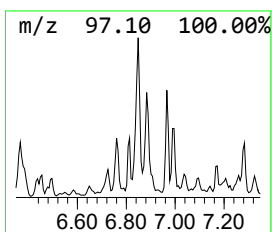
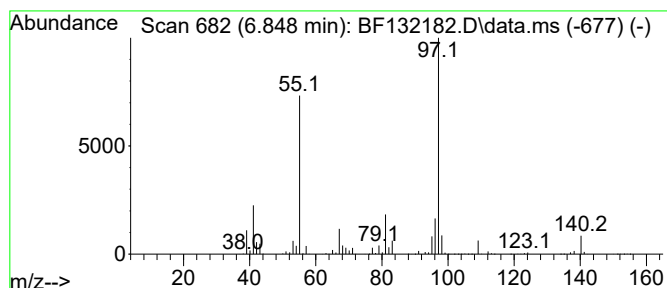
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 8 Cyclohexane, 1-ethyl-2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.848	22.28 ng	7278290	1,4-Dichlorobenzene-d4	7.101

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Cyclohexane, 1-ethyl-2-methyl-	126	C9H18	003728-54-9	72
2		cis-1-Ethyl-3-methyl-cyclohexane	126	C9H18	019489-10-2	72
3		1-Ethyl-3-methylcyclohexane (c,t)	126	C9H18	003728-55-0	72
4		Cyclohexane, 1-methyl-4-(1-methyl...	140	C10H20	001678-82-6	72
5		Cyclohexane, 1-bromo-4-methyl-	176	C7H13Br	006294-40-2	64



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132182.D
Acq On : 21 Jan 2023 02:33
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Instrument :
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ClientSampleId :
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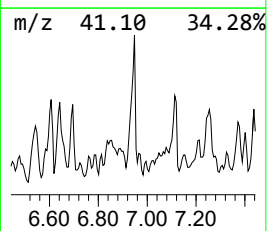
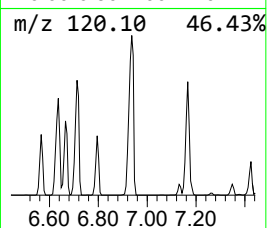
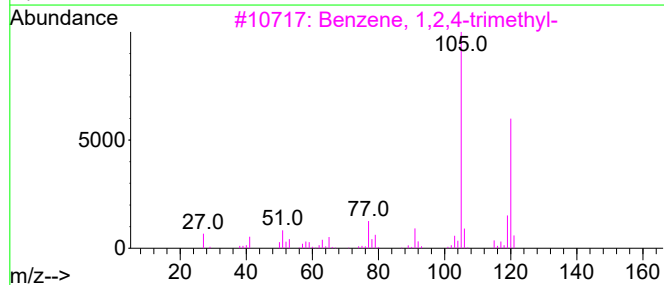
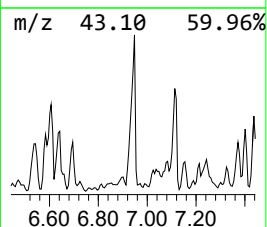
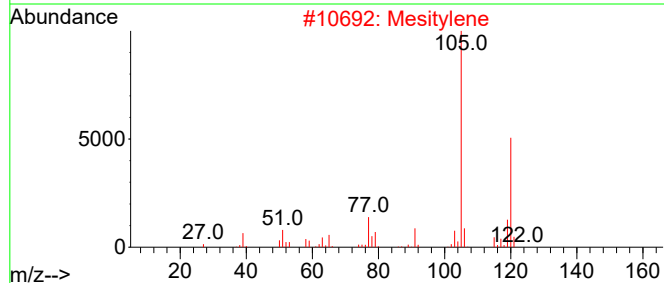
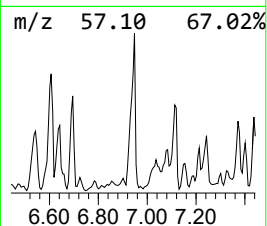
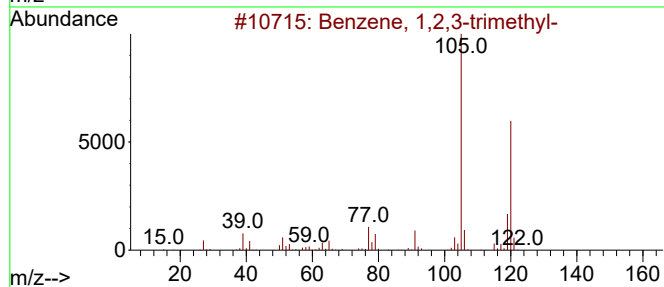
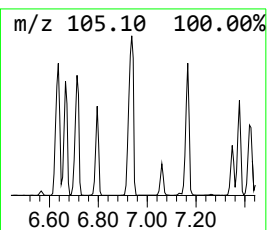
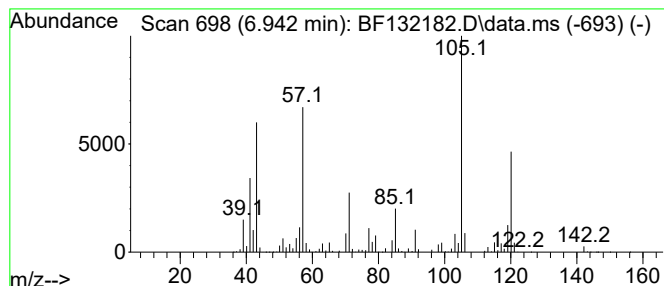
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 9 Benzene, 1,2,3-trimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.942	53.45 ng	17463100	1,4-Dichlorobenzene-d4	7.101

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	95
2			Mesitylene	120	C9H12	000108-67-8	95
3			Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	93
4			Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	64
5			Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	64



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132182.D
Acq On : 21 Jan 2023 02:33
Operator : CG\JU
Sample : 01233-11
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P38C

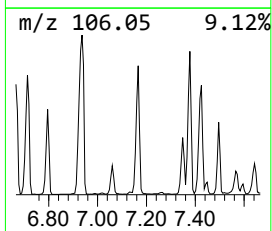
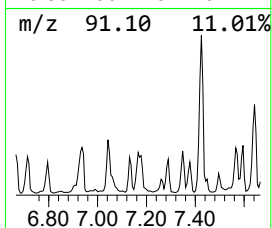
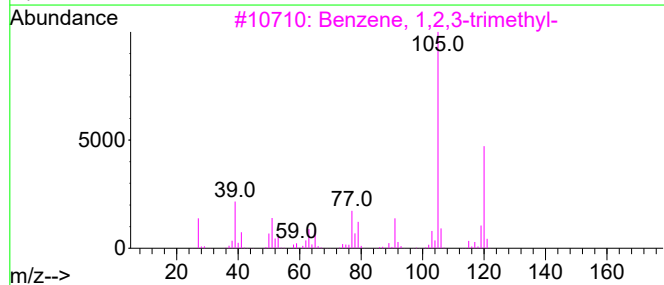
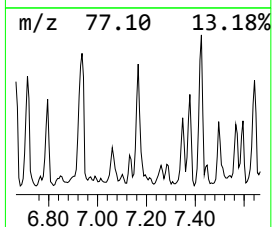
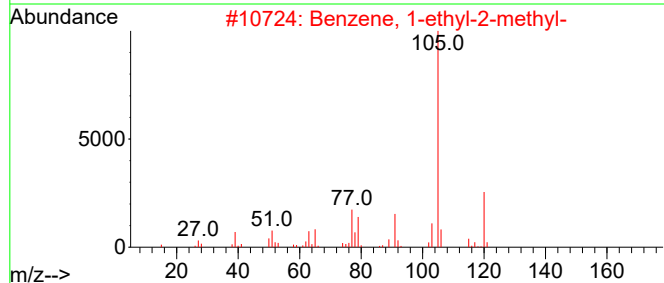
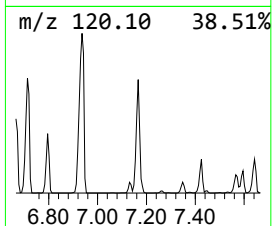
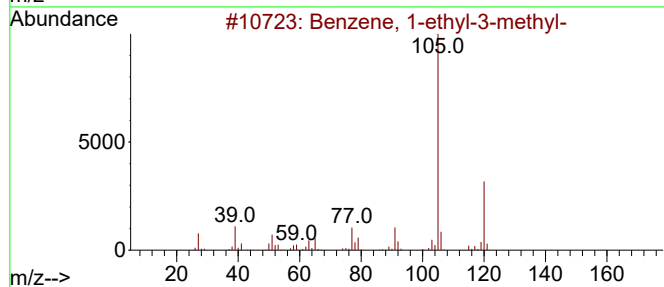
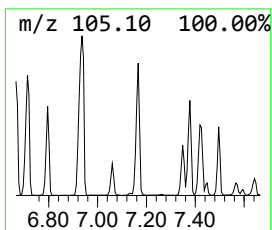
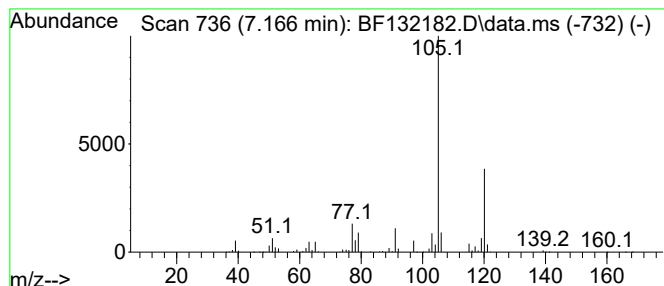
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 10 Benzene, 1-ethyl-3-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.166	20.56 ng	6718320	1,4-Dichlorobenzene-d4	7.101

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	94
2			Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	93
3			Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	91
4			Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	91
5			Mesitylene	120	C9H12	000108-67-8	90



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132182.D
Acq On : 21 Jan 2023 02:33
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Sample : 01233-11
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ALS Vial : 20 Sample Multiplier: 1

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ClientSampleId :
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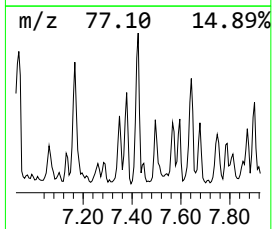
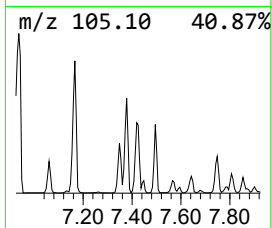
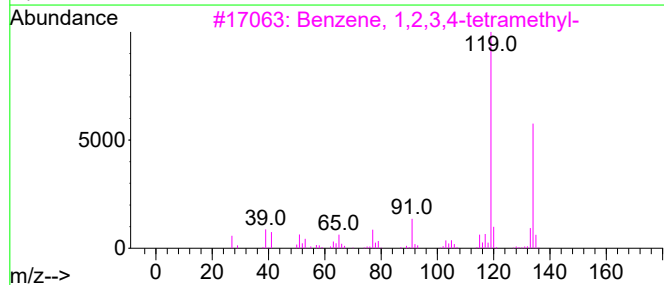
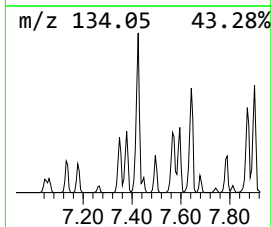
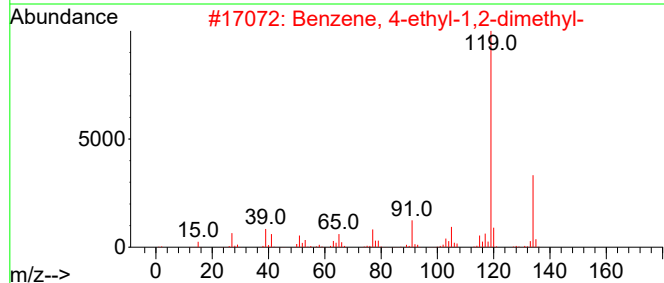
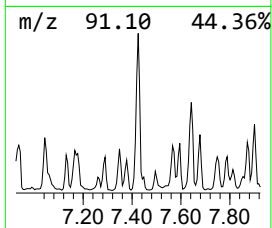
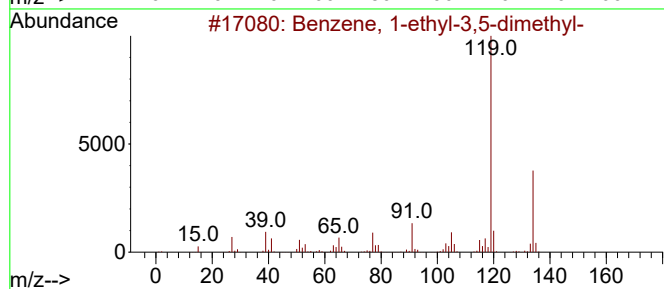
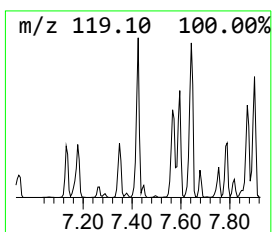
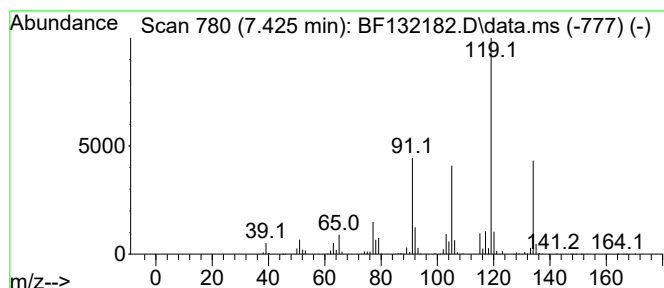
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 11 Benzene, 1-ethyl-3,5-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.425	36.92 ng	12061600	1,4-Dichlorobenzene-d4	7.101

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	96
2		Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	95
3		Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	94
4		Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	94
5		Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	93



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132182.D
Acq On : 21 Jan 2023 02:33
Operator : CG\JU
Sample : 01233-11
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
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ClientSampleId :
B-P38C

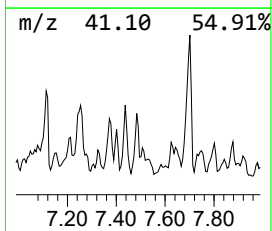
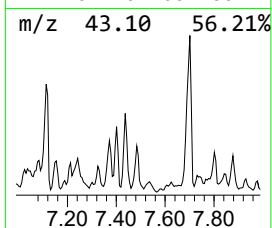
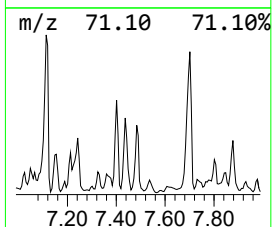
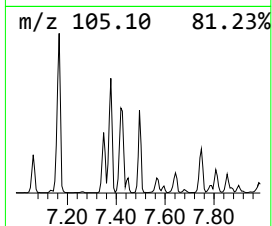
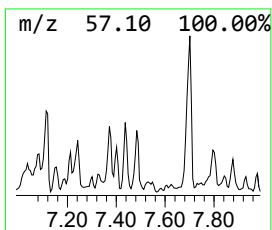
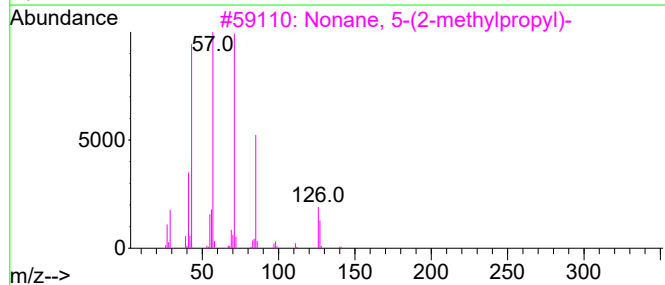
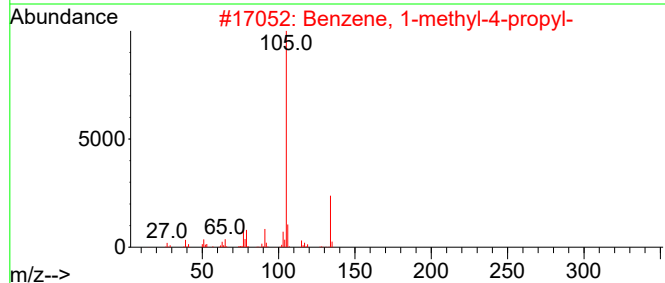
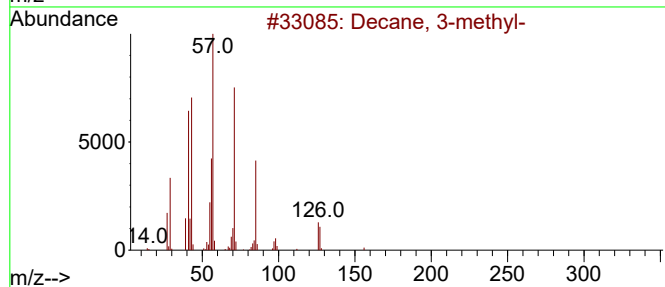
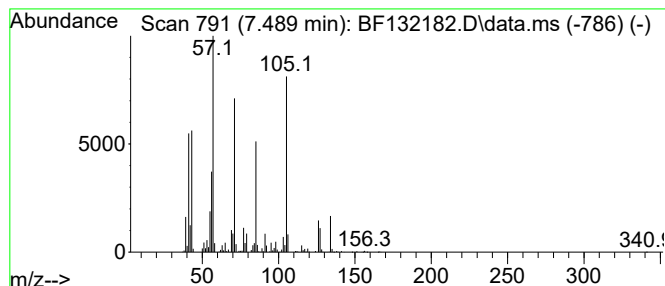
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 12 Decane, 3-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.489	26.18 ng	8554950	1,4-Dichlorobenzene-d4	7.101

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Decane, 3-methyl-	156	C11H24	013151-34-3	68
2			Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	53
3			Nonane, 5-(2-methylpropyl)-	184	C13H28	062185-53-9	43
4			Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	25
5			Benzeneacetaldehyde, .alpha.-met...	134	C9H10O	000093-53-8	25



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132182.D
Acq On : 21 Jan 2023 02:33
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Instrument :
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ClientSampleId :
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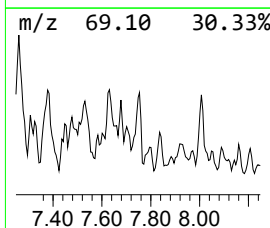
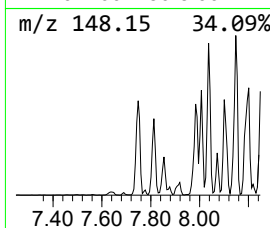
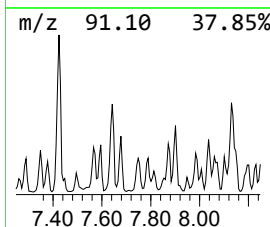
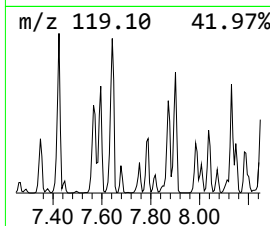
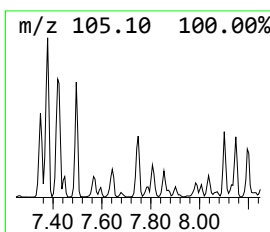
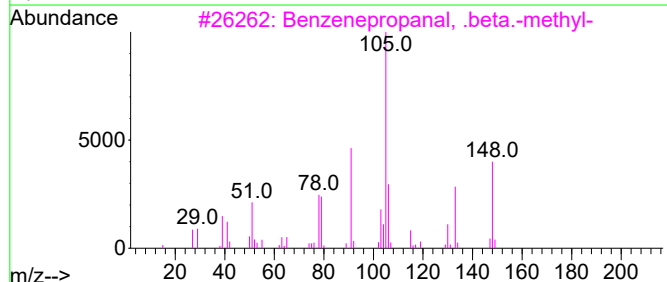
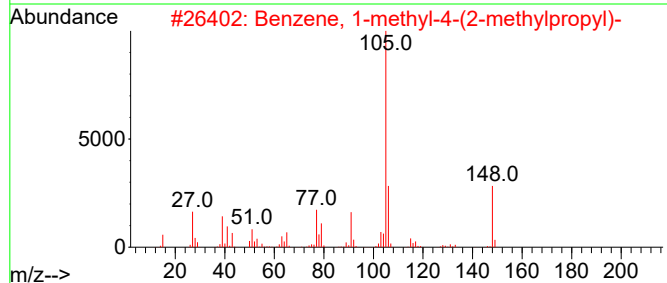
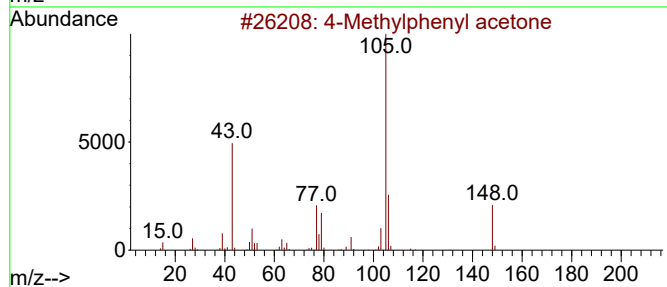
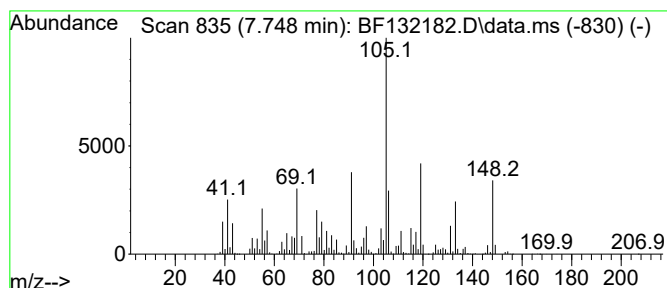
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 13 unknown7.748 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.748	42.44 ng	6022790	Naphthalene-d8	8.389

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		4-Methylphenyl acetone	148	C10H12O	002096-86-8	42
2		Benzene, 1-methyl-4-(2-methylpro...	148	C11H16	005161-04-6	41
3		Benzenepropanal, .beta.-methyl-	148	C10H12O	016251-77-7	30
4		3-Buten-2-ol, 4-phenyl-	148	C10H12O	017488-65-2	25
5		Benzene, 1-methyl-4-butyl	148	C11H16	001595-05-7	22



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132182.D
Acq On : 21 Jan 2023 02:33
Operator : CG\JU
Sample : 01233-11
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
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ClientSampleId :
B-P38C

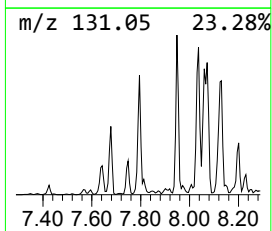
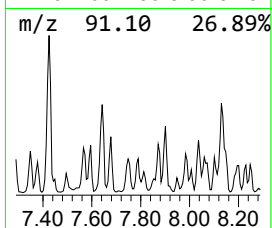
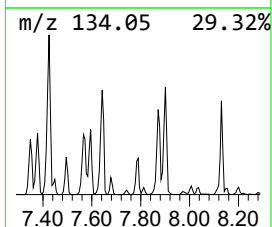
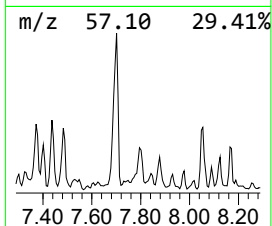
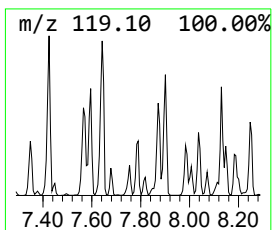
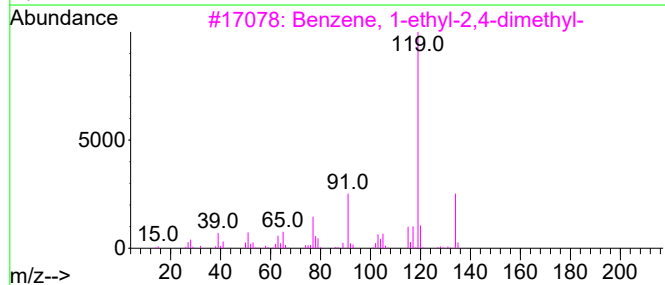
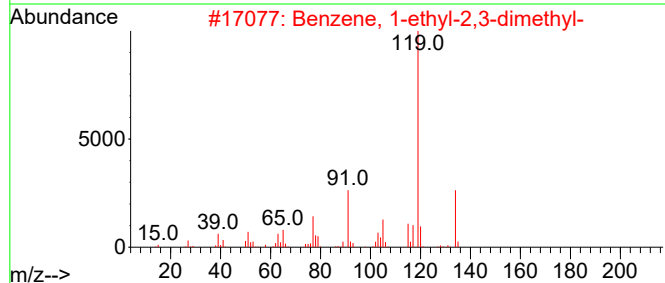
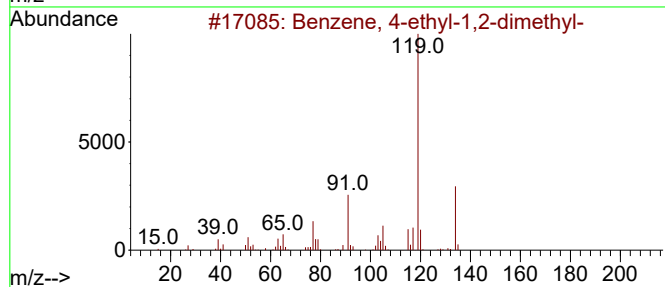
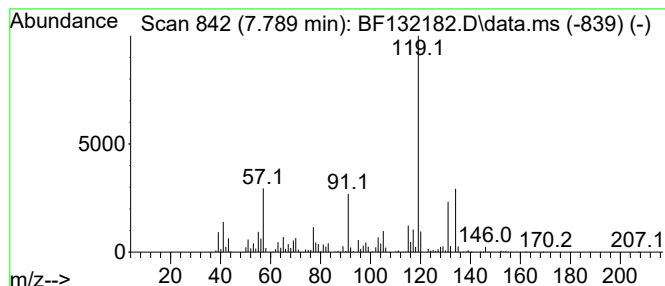
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 14 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.789	23.06 ng	3271910	Naphthalene-d8	8.389

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	95
2			Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	95
3			Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	94
4			Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	91
5			Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	87



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132182.D
Acq On : 21 Jan 2023 02:33
Operator : CG\JU
Sample : 01233-11
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P38C

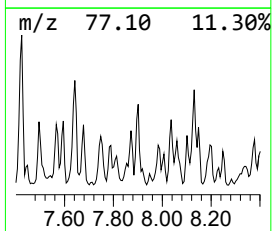
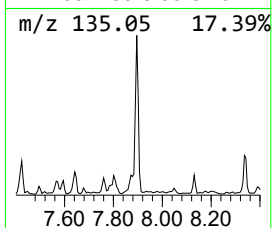
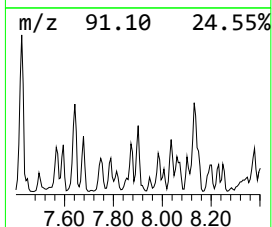
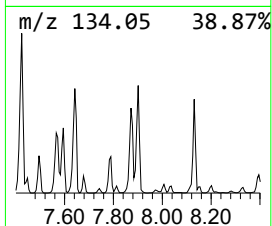
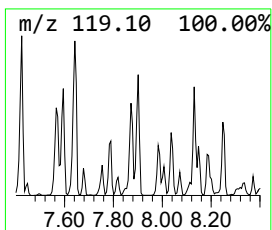
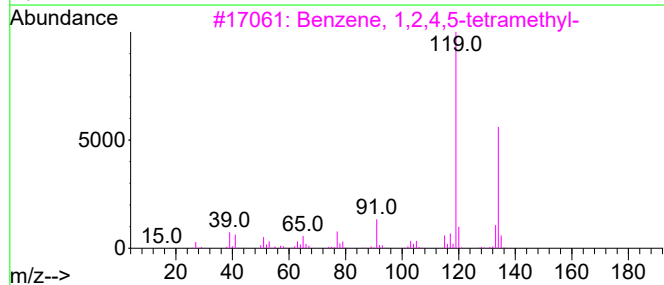
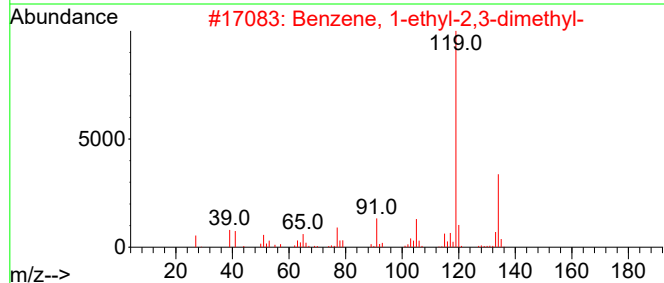
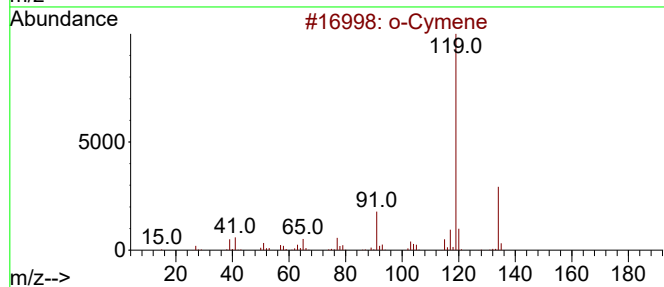
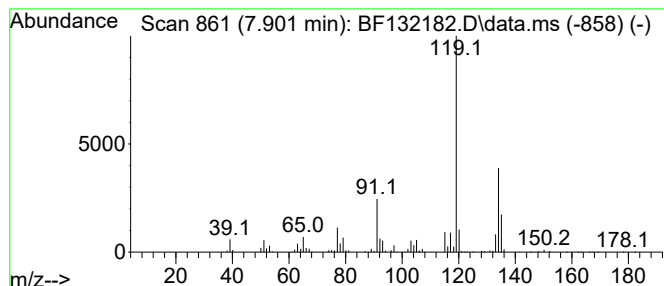
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 15 o-Cymene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.901	21.62 ng	3068370	Naphthalene-d8	8.389

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			o-Cymene	134	C10H14	000527-84-4	93
2			Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	91
3			Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	91
4			Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	91
5			Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	90



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132182.D
Acq On : 21 Jan 2023 02:33
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Sample : 01233-11
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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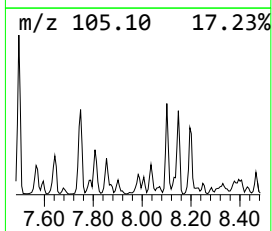
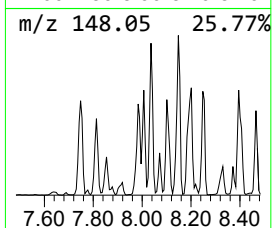
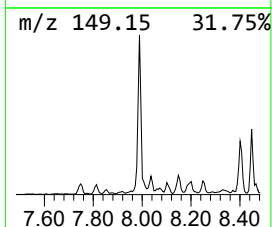
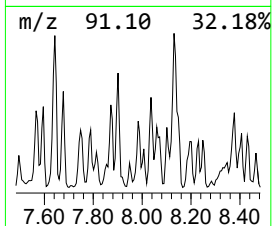
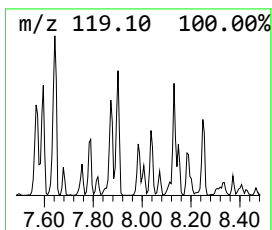
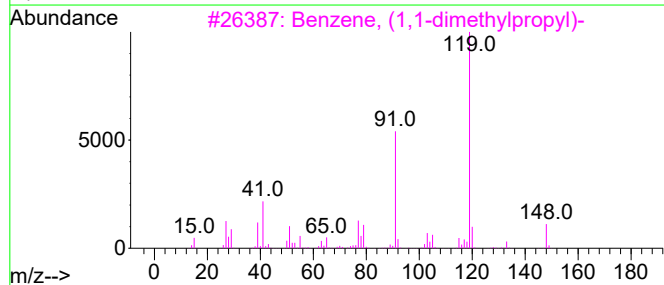
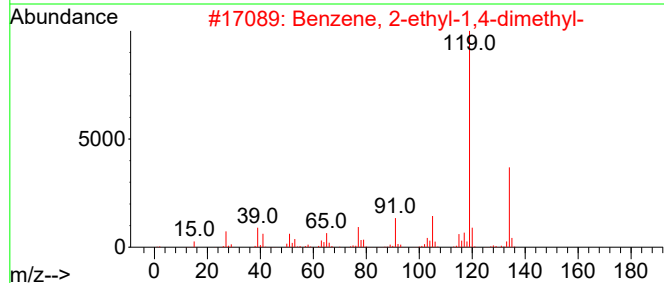
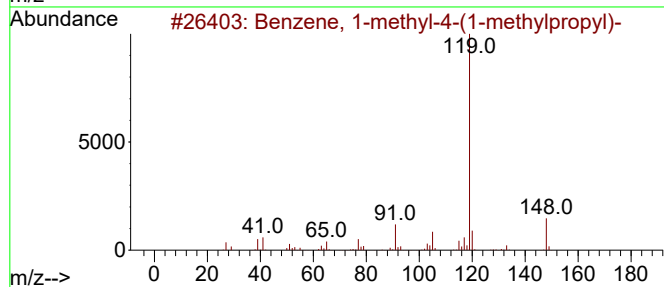
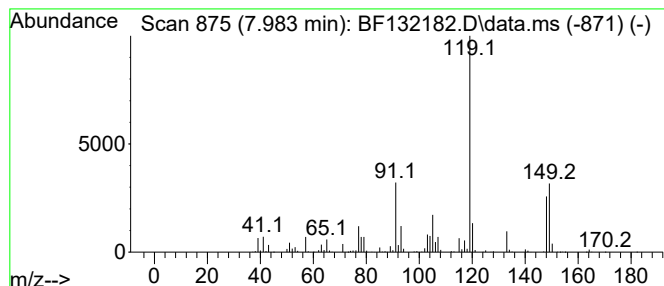
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 16 Benzene, 1-methyl-4-(1-meth... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.983	24.53 ng	3480960	Naphthalene-d8	8.389

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1-methyl-4-(1-methylpro...	148	C11H16	001595-16-0	68
2			Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	58
3			Benzene, (1,1-dimethylpropyl)-	148	C11H16	002049-95-8	53
4			o-Cymene	134	C10H14	000527-84-4	50
5			4'-Methylpropiophenone	148	C10H12O	005337-93-9	50



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132182.D
Acq On : 21 Jan 2023 02:33
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Misc :
ALS Vial : 20 Sample Multiplier: 1

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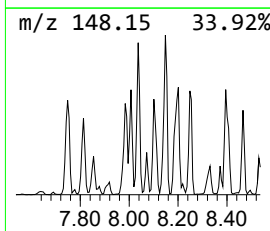
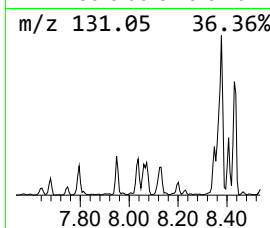
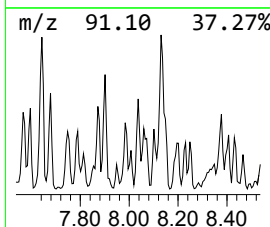
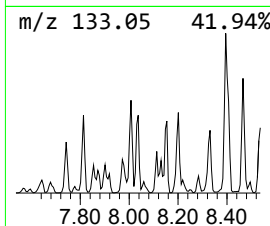
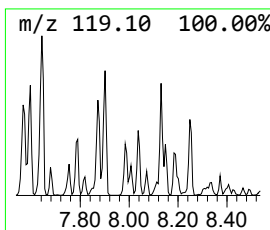
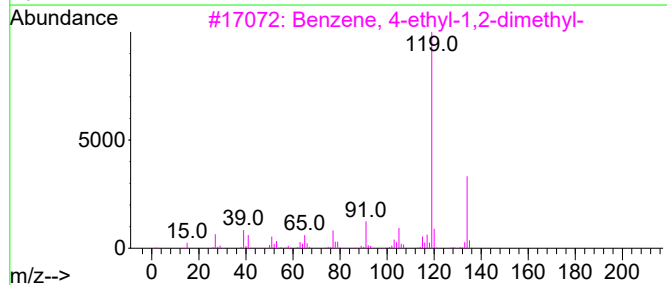
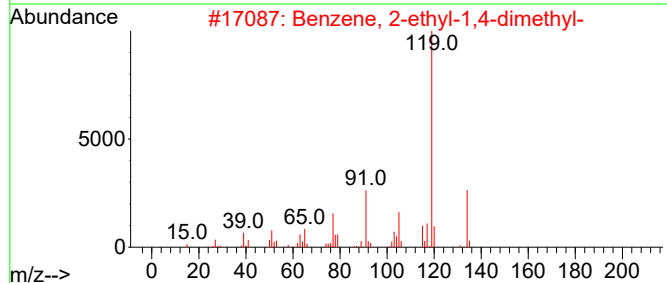
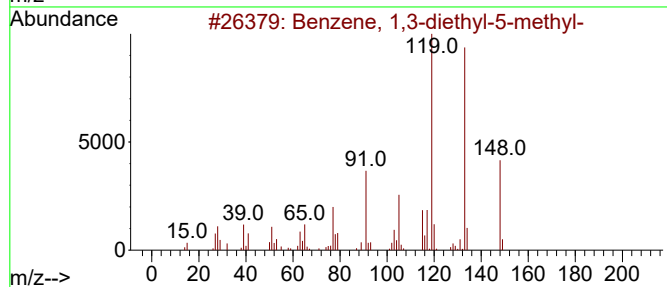
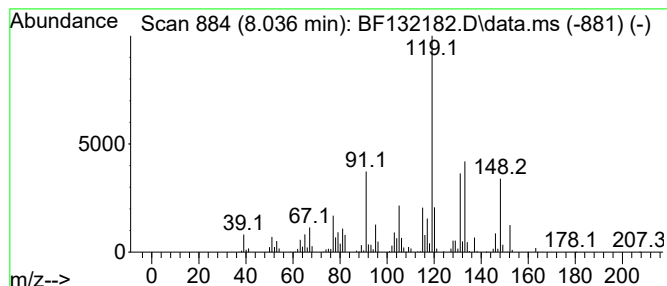
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 17 Benzene, 1,3-diethyl-5-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.036	25.66 ng	3641480	Naphthalene-d8	8.389

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Benzene, 1,3-diethyl-5-methyl-	148	C11H16	002050-24-0	53
2		Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	50
3		Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	43
4		Benzene, (1,1-dimethylpropyl)-	148	C11H16	002049-95-8	43
5		Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	43



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132182.D
Acq On : 21 Jan 2023 02:33
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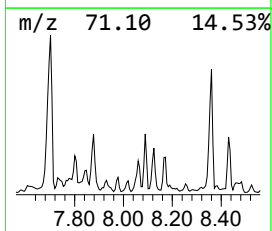
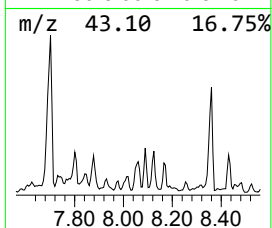
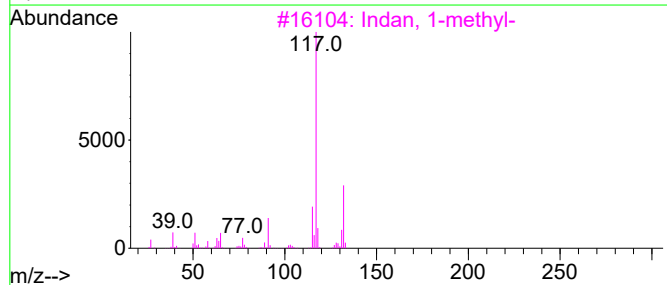
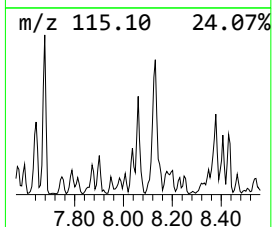
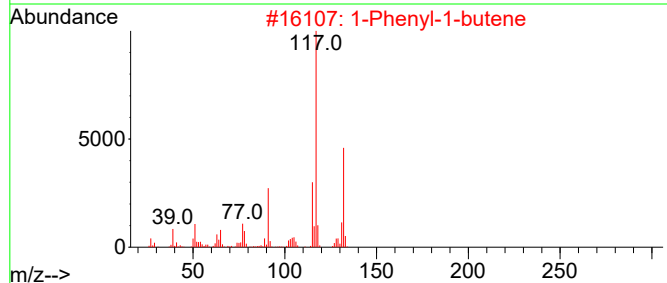
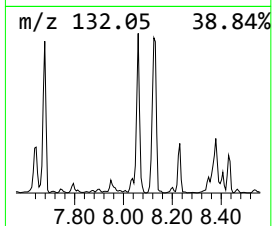
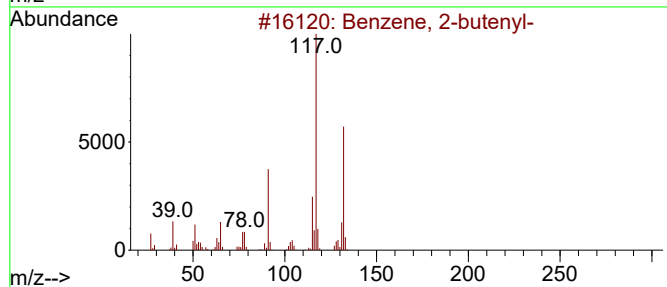
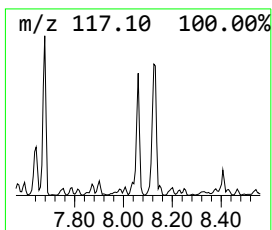
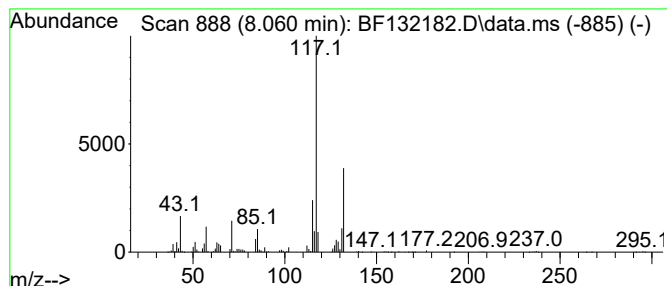
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 18 Benzene, 2-butenyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.060	34.58 ng	4907560	Naphthalene-d8	8.389

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 2-butenyl-	132	C10H12	001560-06-1	90
2			1-Phenyl-1-butene	132	C10H12	000824-90-8	87
3			Indan, 1-methyl-	132	C10H12	000767-58-8	87
4			Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	86
5			1-Methyl-2-phenylcyclopropane	132	C10H12	003145-76-4	86



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132182.D
Acq On : 21 Jan 2023 02:33
Operator : CG\JU
Sample : 01233-11
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P38C

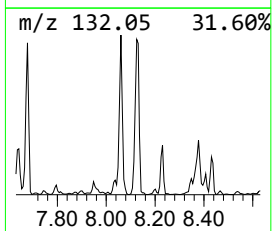
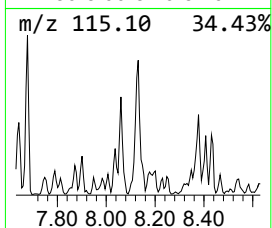
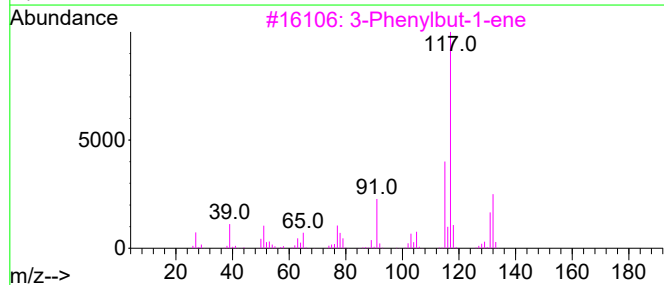
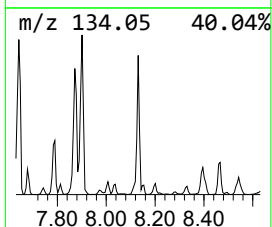
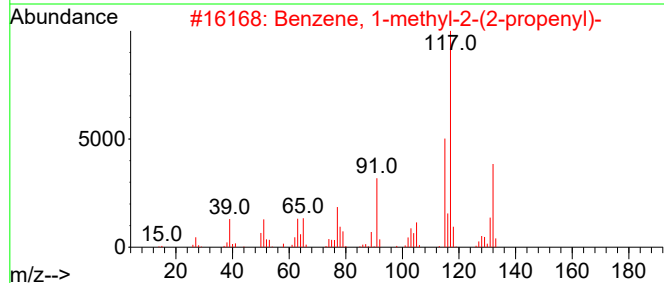
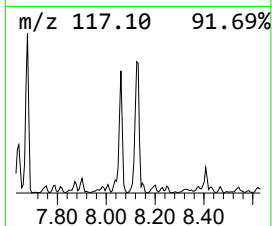
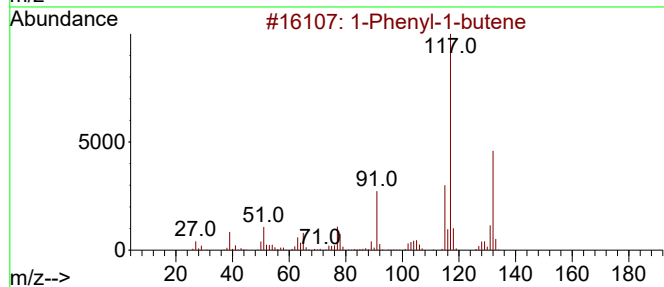
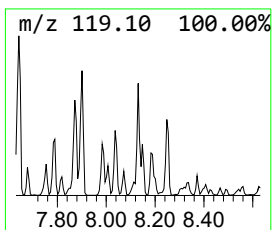
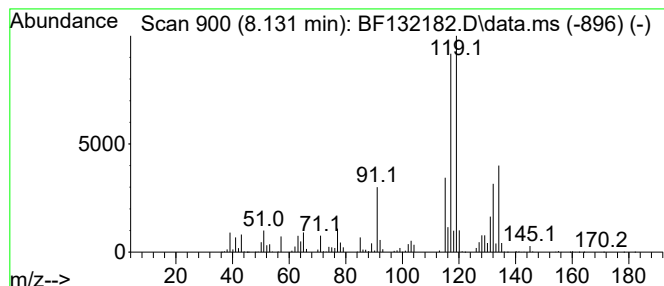
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 19 1-Phenyl-1-butene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.131	58.78 ng	8340510	Naphthalene-d8	8.389

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1-Phenyl-1-butene	132	C10H12	000824-90-8	86
2			Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	64
3			3-Phenylbut-1-ene	132	C10H12	000934-10-1	50
4			Benzene, (2-methyl-2-propenyl)-	132	C10H12	003290-53-7	50
5			Benzene, 2-butenyl-	132	C10H12	001560-06-1	50



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132182.D
Acq On : 21 Jan 2023 02:33
Operator : CG\JU
Sample : 01233-11
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P38C

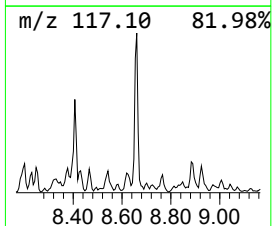
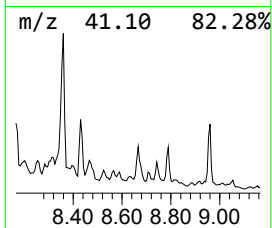
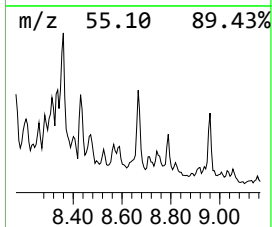
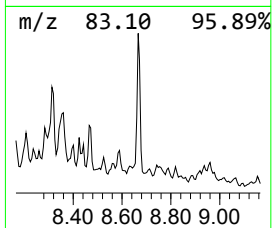
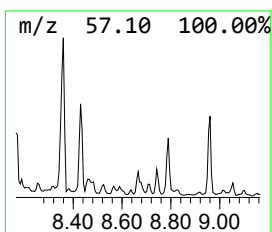
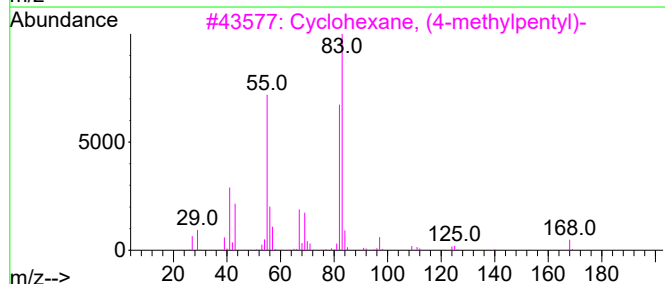
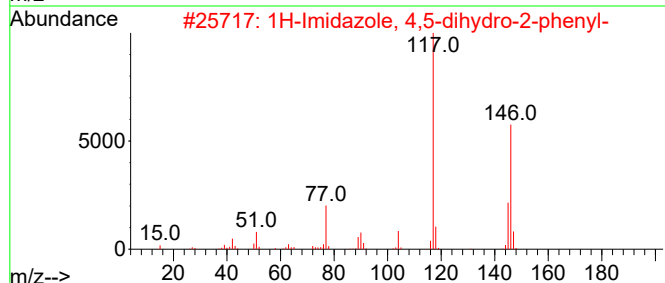
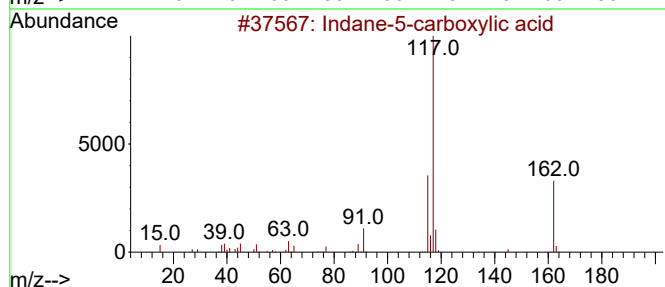
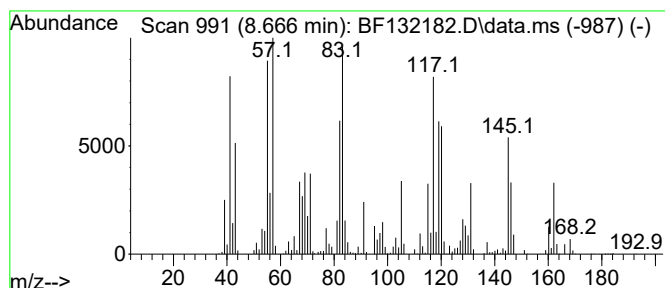
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 20 unknown8.666 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.666	25.92 ng	3677630	Naphthalene-d8	8.389

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Indane-5-carboxylic acid	162	C10H10O2	065898-38-6	25
2		1H-Imidazole, 4,5-dihydro-2-phenyl-	146	C9H10N2	000936-49-2	25
3		Cyclohexane, (4-methylpentyl)-	168	C12H24	061142-20-9	18
4		2-Propenal, 2-methyl-3-phenyl-	146	C10H10O	000101-39-3	15
5		trans-4-Phenyl-3-butenic acid	162	C10H10O2	001914-58-5	15



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132182.D
Acq On : 21 Jan 2023 02:33
Operator : CG\JU
Sample : 01233-11
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P38C

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Heptane, 2-methyl-	4.260	23.4	ng	7638000	1	7.101	6534520	20.0
Octane	4.819	35.5	ng	11590500	1	7.101	6534520	20.0
Heptane, 2,5-di...	5.278	20.6	ng	6737010	1	7.101	6534520	20.0
Nonane	6.031	35.5	ng	11607900	1	7.101	6534520	20.0
Octane, 2,6-dim...	6.360	48.5	ng	15864000	1	7.101	6534520	20.0
Benzene, 1-ethy...	6.636	29.4	ng	9598850	1	7.101	6534520	20.0
Cyclohexane, 1-...	6.848	22.3	ng	7278290	1	7.101	6534520	20.0
Benzene, 1,2,3-...	6.942	53.5	ng	17463100	1	7.101	6534520	20.0
Benzene, 1-ethy...	7.166	20.6	ng	6718320	1	7.101	6534520	20.0
Benzene, 1-ethy...	7.425	36.9	ng	12061600	1	7.101	6534520	20.0
Decane, 3-methyl-	7.489	26.2	ng	8554950	1	7.101	6534520	20.0
unknown7.748	7.748	42.4	ng	6022790	2	8.389	2837990	20.0
Benzene, 4-ethy...	7.789	23.1	ng	3271910	2	8.389	2837990	20.0
o-Cymene	7.901	21.6	ng	3068370	2	8.389	2837990	20.0
Benzene, 1-meth...	7.983	24.5	ng	3480960	2	8.389	2837990	20.0
Benzene, 1,3-di...	8.036	25.7	ng	3641480	2	8.389	2837990	20.0
Benzene, 2-bute...	8.060	34.6	ng	4907560	2	8.389	2837990	20.0
1-Phenyl-1-butene	8.131	58.8	ng	8340510	2	8.389	2837990	20.0
unknown8.666	8.666	25.9	ng	3677630	2	8.389	2837990	20.0



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P38CDL	SDG No.:	O1233
Lab Sample ID:	O1233-11DL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.9
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP013590.D	5	01/20/23 12:30	01/25/23 02:09	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	820	UD	820	1900	ug/Kg
108-95-2	Phenol	390	UD	390	990	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	470	UD	470	990	ug/Kg
95-57-8	2-Chlorophenol	400	UD	400	990	ug/Kg
95-48-7	2-Methylphenol	620	UD	620	990	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	560	UD	560	990	ug/Kg
98-86-2	Acetophenone	470	UD	470	990	ug/Kg
65794-96-9	3+4-Methylphenols	570	UD	570	1900	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	440	UD	440	470	ug/Kg
67-72-1	Hexachloroethane	430	UD	430	990	ug/Kg
98-95-3	Nitrobenzene	430	UD	430	990	ug/Kg
78-59-1	Isophorone	390	UD	390	990	ug/Kg
88-75-5	2-Nitrophenol	540	UD	540	990	ug/Kg
105-67-9	2,4-Dimethylphenol	570	UD	570	990	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	630	UD	630	990	ug/Kg
120-83-2	2,4-Dichlorophenol	470	UD	470	990	ug/Kg
91-20-3	Naphthalene	4300	D	430	990	ug/Kg
106-47-8	4-Chloroaniline	560	UD	560	990	ug/Kg
87-68-3	Hexachlorobutadiene	580	UD	580	990	ug/Kg
105-60-2	Caprolactam	580	UD	580	1900	ug/Kg
59-50-7	4-Chloro-3-methylphenol	460	UD	460	990	ug/Kg
91-57-6	2-Methylnaphthalene	3600	D	440	990	ug/Kg
77-47-4	Hexachlorocyclopentadiene	1000	UD	1000	1900	ug/Kg
88-06-2	2,4,6-Trichlorophenol	500	UD	500	990	ug/Kg
95-95-4	2,4,5-Trichlorophenol	490	UD	490	990	ug/Kg
92-52-4	1,1-Biphenyl	500	UD	500	990	ug/Kg
91-58-7	2-Chloronaphthalene	500	UD	500	990	ug/Kg
88-74-4	2-Nitroaniline	630	UD	630	990	ug/Kg
131-11-3	Dimethylphthalate	470	UD	470	990	ug/Kg
208-96-8	Acenaphthylene	400	UD	400	990	ug/Kg
606-20-2	2,6-Dinitrotoluene	450	UD	450	990	ug/Kg



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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P38CDL	SDG No.:	O1233
Lab Sample ID:	O1233-11DL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.9
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP013590.D	5	01/20/23 12:30	01/25/23 02:09	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	590	UD	590	990	ug/Kg
83-32-9	Acenaphthene	460	UD	460	990	ug/Kg
51-28-5	2,4-Dinitrophenol	750	UD	750	1900	ug/Kg
100-02-7	4-Nitrophenol	800	UD	800	1900	ug/Kg
132-64-9	Dibenzofuran	430	UD	430	990	ug/Kg
121-14-2	2,4-Dinitrotoluene	490	UD	490	990	ug/Kg
84-66-2	Diethylphthalate	470	UD	470	990	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	540	UD	540	990	ug/Kg
86-73-7	Fluorene	460	UD	460	990	ug/Kg
100-01-6	4-Nitroaniline	600	UD	600	990	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	500	UD	500	1900	ug/Kg
86-30-6	n-Nitrosodiphenylamine	480	UD	480	990	ug/Kg
101-55-3	4-Bromophenyl-phenylether	570	UD	570	990	ug/Kg
118-74-1	Hexachlorobenzene	600	UD	600	990	ug/Kg
1912-24-9	Atrazine	520	UD	520	990	ug/Kg
87-86-5	Pentachlorophenol	680	UD	680	1900	ug/Kg
85-01-8	Phenanthrene	490	UD	490	990	ug/Kg
120-12-7	Anthracene	490	UD	490	990	ug/Kg
86-74-8	Carbazole	490	UD	490	990	ug/Kg
84-74-2	Di-n-butylphthalate	510	UD	510	990	ug/Kg
206-44-0	Fluoranthene	460	UD	460	990	ug/Kg
129-00-0	Pyrene	430	UD	430	990	ug/Kg
85-68-7	Butylbenzylphthalate	480	UD	480	990	ug/Kg
91-94-1	3,3-Dichlorobenzidine	800	UD	800	1900	ug/Kg
56-55-3	Benzo(a)anthracene	500	UD	500	990	ug/Kg
218-01-9	Chrysene	500	UD	500	990	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	520	UD	520	990	ug/Kg
117-84-0	Di-n-octyl phthalate	530	UD	530	1900	ug/Kg
205-99-2	Benzo(b)fluoranthene	400	UD	400	990	ug/Kg
207-08-9	Benzo(k)fluoranthene	430	UD	430	990	ug/Kg
50-32-8	Benzo(a)pyrene	390	UD	390	990	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	590	UD	590	990	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	590	UD	590	990	ug/Kg



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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P38CDL	SDG No.:	O1233
Lab Sample ID:	O1233-11DL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.9
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP013590.D	5	01/20/23 12:30	01/25/23 02:09	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	560	UD	560	990	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	530	UD	530	990	ug/Kg
123-91-1	1,4-Dioxane	520	UD	520	990	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	470	UD	470	990	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	111		18 - 112	74%	SPK: 150
13127-88-3	Phenol-d6	103		21 - 104	69%	SPK: 150
4165-60-0	Nitrobenzene-d5	80.9		27 - 109	81%	SPK: 100
321-60-8	2-Fluorobiphenyl	61.8		30 - 103	62%	SPK: 100
118-79-6	2,4,6-Tribromophenol	112		10 - 121	75%	SPK: 150
1718-51-0	Terphenyl-d14	82.7		21 - 107	83%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	477000	8.157
1146-65-2	Naphthalene-d8	1980000	10.987
15067-26-2	Acenaphthene-d10	1240000	14.792
1517-22-2	Phenanthrene-d10	2590000	17.545
1719-03-5	Chrysene-d12	1670000	21.616
1520-96-3	Perylene-d12	1640000	24.204

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012423\
 Data File : BP013590.D
 Acq On : 25 Jan 2023 02:09
 Operator : CG/JU
 Sample : 01233-11DL 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 B-P38CDL

Quant Time: Jan 25 03:55:03 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 25 03:43:27 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

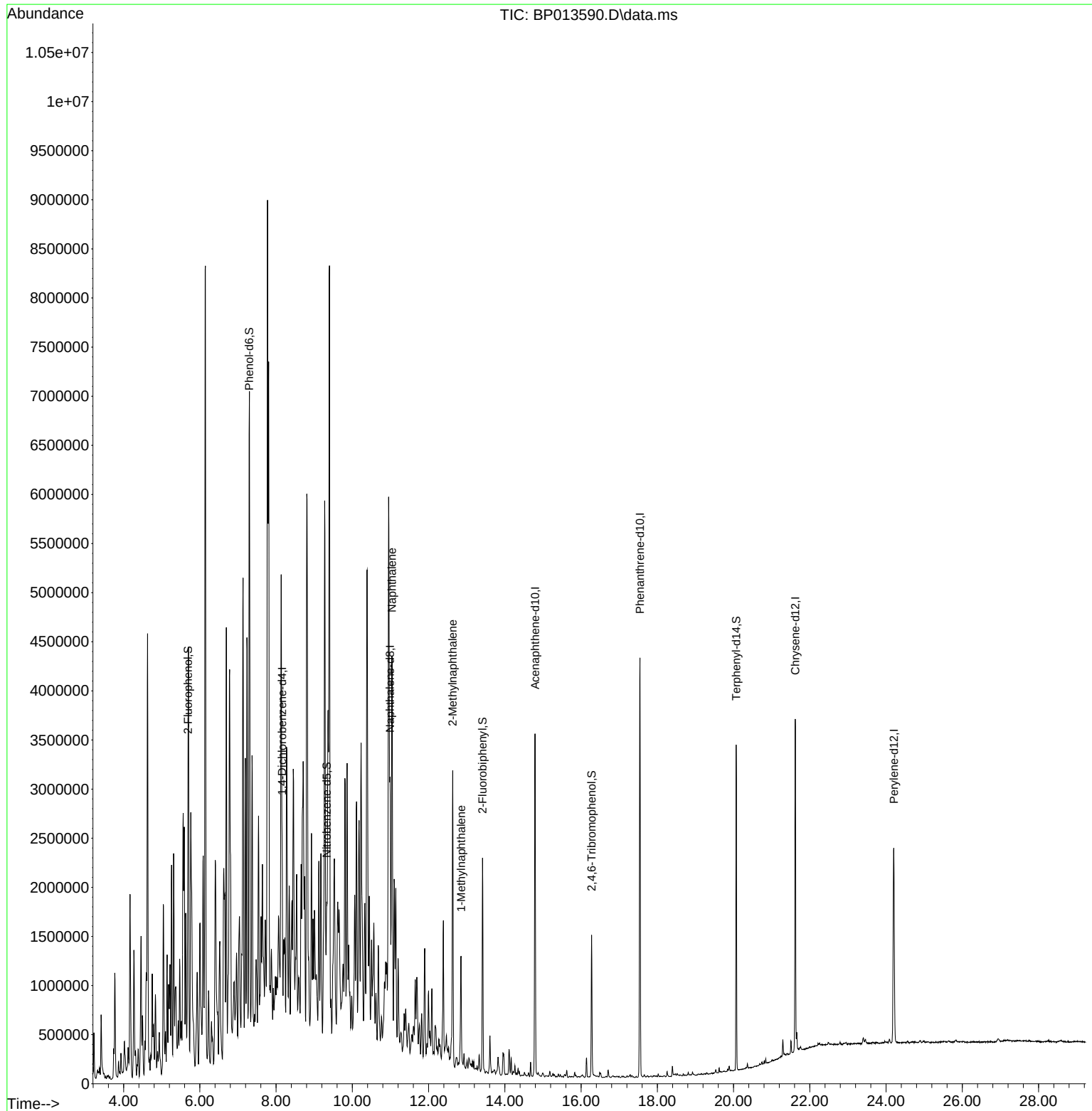
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.157	152	476799	20.000	ng	0.00
21) Naphthalene-d8	10.987	136	1980989	20.000	ng	0.00
39) Acenaphthene-d10	14.792	164	1235300	20.000	ng	0.00
64) Phenanthrene-d10	17.545	188	2590773	20.000	ng	0.00
76) Chrysene-d12	21.616	240	1671768	20.000	ng	-0.01
86) Perylene-d12	24.204	264	1637103	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.687	112	616642	22.159	ng	0.00
7) Phenol-d6	7.293	99	772624	20.629	ng	0.00
23) Nitrobenzene-d5	9.328	82	485594	16.182	ng	0.00
42) 2,4,6-Tribromophenol	16.275	330	278533	22.479	ng	-0.01
45) 2-Fluorobiphenyl	13.416	172	1112206	12.359	ng	-0.01
79) Terphenyl-d14	20.069	244	1537432	16.544	ng	-0.01
Target Compounds						
						Qvalue
31) Naphthalene	11.040	128	2358525	22.146	ng	# 97
37) 2-Methylnaphthalene	12.634	142	1417002	18.719	ng	99
38) 1-Methylnaphthalene	12.851	142	522783	7.349	ng	99

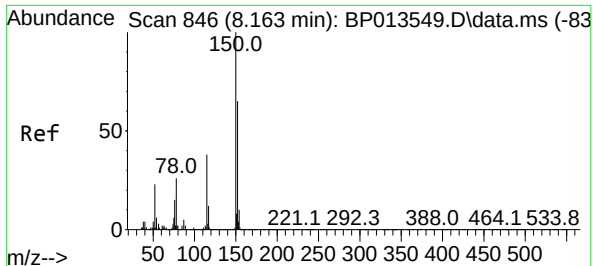
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Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012423\
Data File : BP013590.D
Acq On : 25 Jan 2023 02:09
Operator : CG/JU
Sample : 01233-11DL 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-P38CDL

Quant Time: Jan 25 03:55:03 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 25 03:43:27 2023
Response via : Initial Calibration

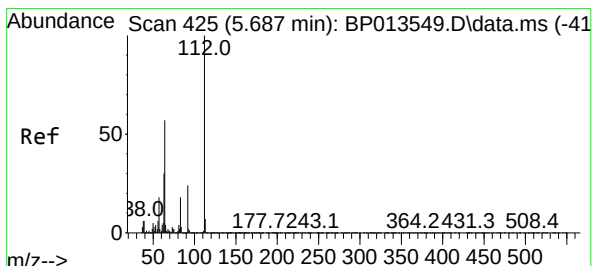
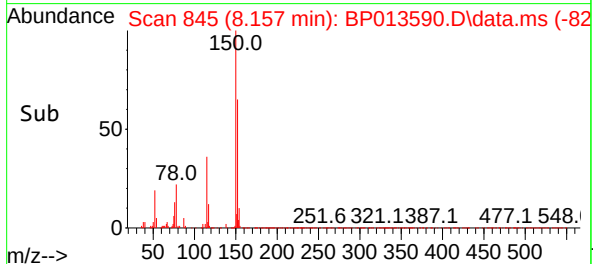
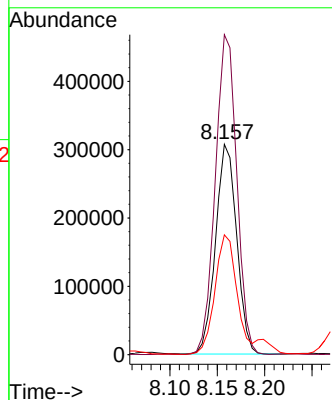
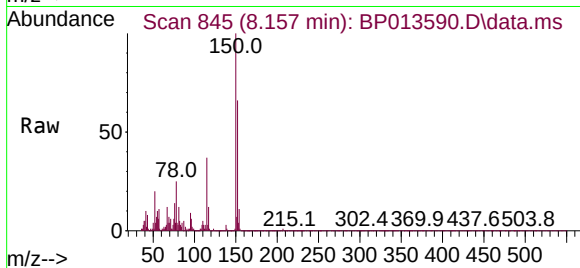




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 8.157 min Scan# 846
 Delta R.T. -0.007 min
 Lab File: BP013590.D
 Acq: 25 Jan 2023 02:09

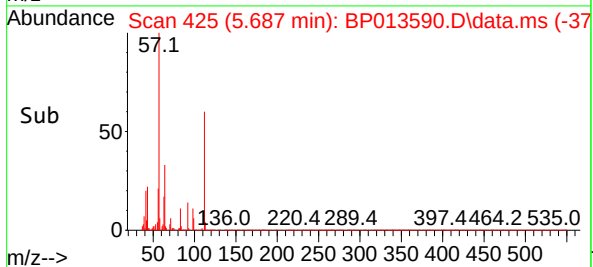
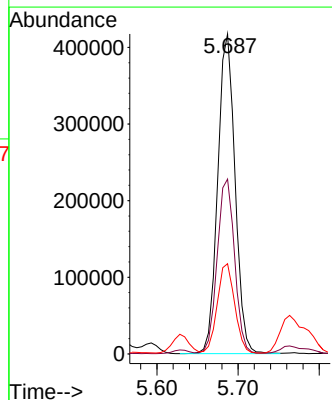
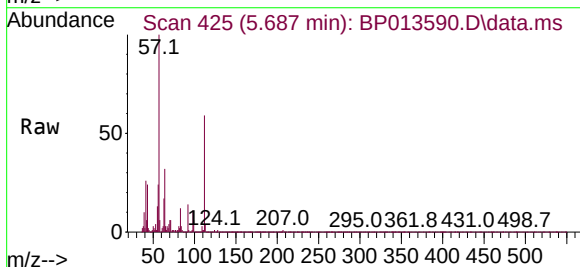
Instrument :
 BNA_P
 ClientSampleId :
 B-P38CDL

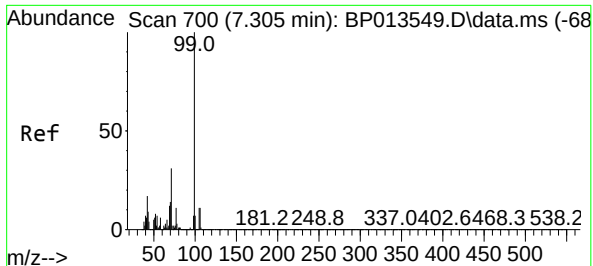
Tgt Ion:152 Resp: 476799
 Ion Ratio Lower Upper
 152 100
 150 152.2 122.4 183.6
 115 56.9 46.1 69.1



#5
 2-Fluorophenol
 Concen: 22.159 ng
 RT: 5.687 min Scan# 425
 Delta R.T. -0.000 min
 Lab File: BP013590.D
 Acq: 25 Jan 2023 02:09

Tgt Ion:112 Resp: 616642
 Ion Ratio Lower Upper
 112 100
 64 54.6 45.4 68.0
 63 28.2 24.1 36.1

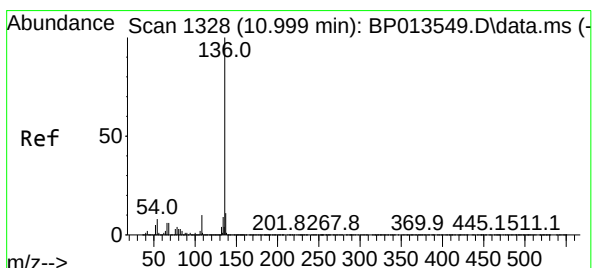
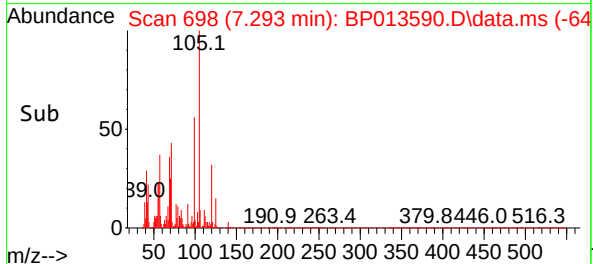
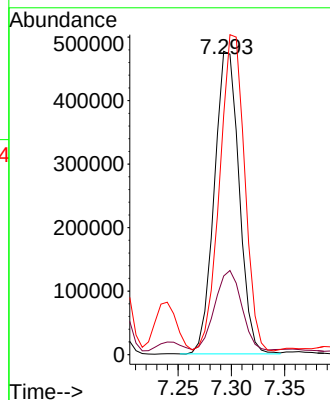
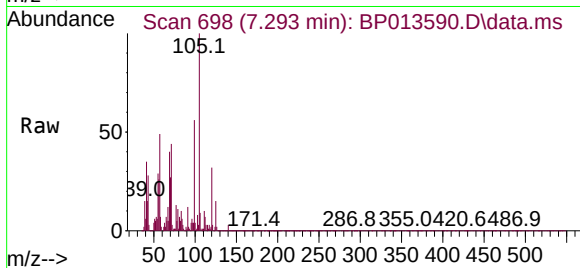




#7
Phenol-d6
Concen: 20.629 ng
RT: 7.293 min Scan# 69
Delta R.T. -0.006 min
Lab File: BP013590.D
Acq: 25 Jan 2023 02:09

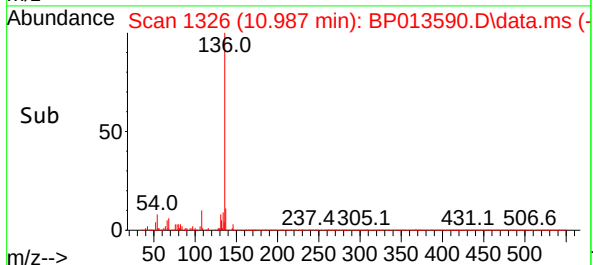
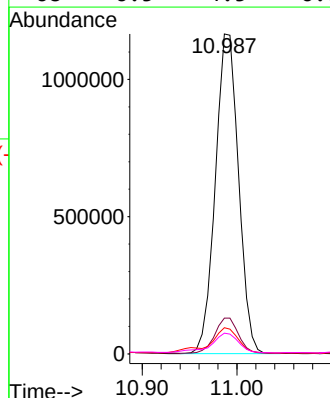
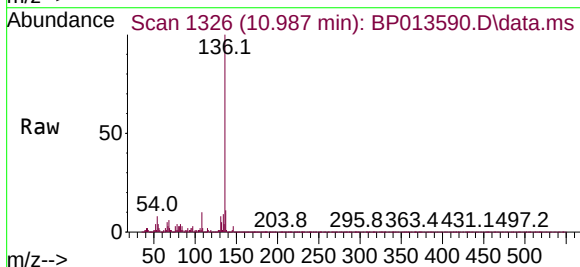
Instrument :
BNA_P
ClientSampleId :
B-P38CDL

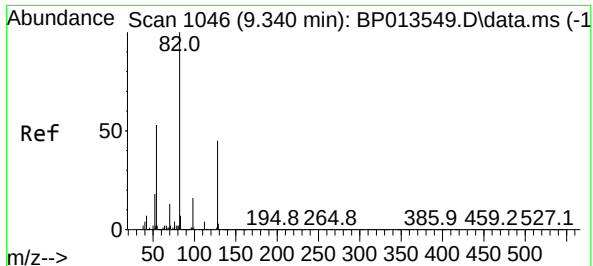
Tgt Ion: 99 Resp: 772624
Ion Ratio Lower Upper
99 100
42 25.9 14.0 21.0#
71 79.1 24.7 37.1#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.987 min Scan# 1326
Delta R.T. -0.006 min
Lab File: BP013590.D
Acq: 25 Jan 2023 02:09

Tgt Ion: 136 Resp: 1980989
Ion Ratio Lower Upper
136 100
137 11.2 9.0 13.4
54 8.2 6.6 9.8
68 6.5 4.5 6.7





#23

Nitrobenzene-d5

Concen: 16.182 ng

RT: 9.328 min Scan# 1044

Delta R.T. -0.006 min

Lab File: BP013590.D

Acq: 25 Jan 2023 02:09

Instrument :

BNA_P

ClientSampleId :

B-P38CDL

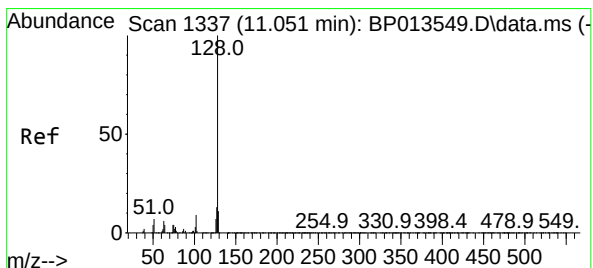
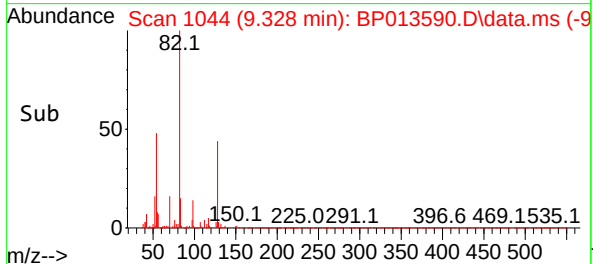
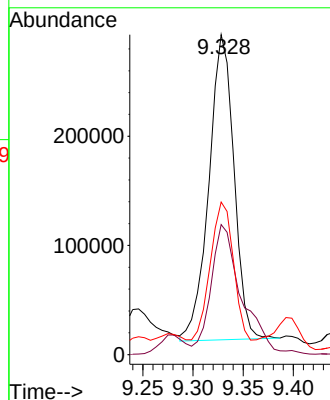
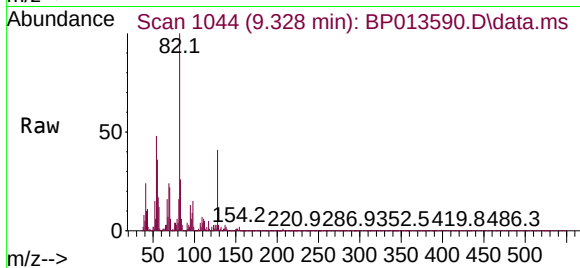
Tgt Ion: 82 Resp: 485594

Ion Ratio Lower Upper

82 100

128 40.6 35.8 53.6

54 47.7 42.6 64.0



#31

Naphthalene

Concen: 22.146 ng

RT: 11.040 min Scan# 1335

Delta R.T. -0.006 min

Lab File: BP013590.D

Acq: 25 Jan 2023 02:09

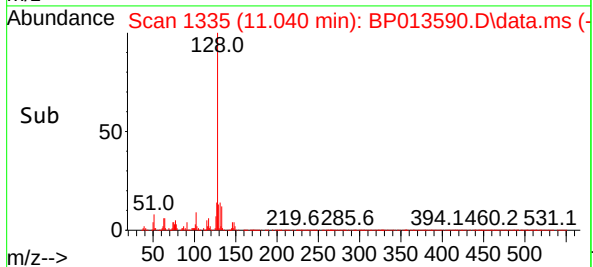
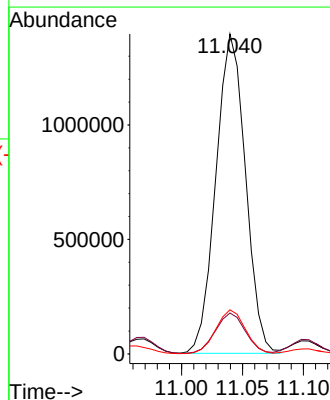
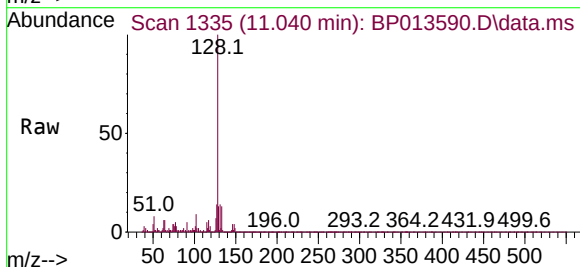
Tgt Ion: 128 Resp: 2358525

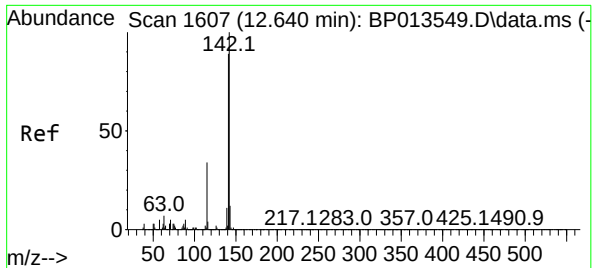
Ion Ratio Lower Upper

128 100

129 12.8 8.5 12.7#

127 13.8 10.6 16.0

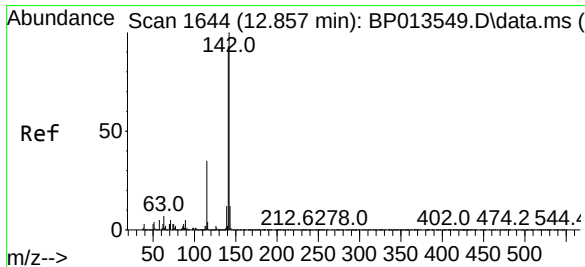
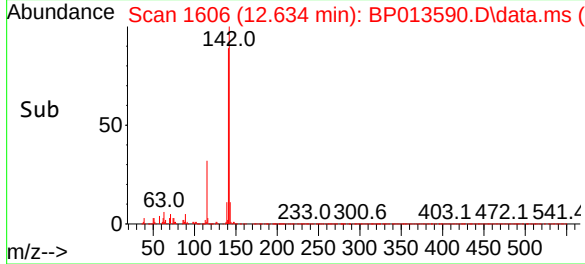
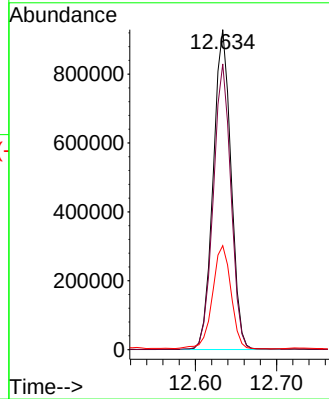
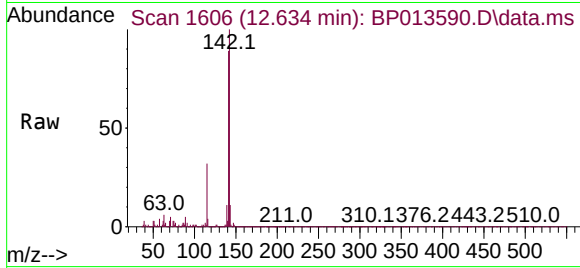




#37
2-Methylnaphthalene
Concen: 18.719 ng
RT: 12.634 min Scan# 1606
Delta R.T. -0.006 min
Lab File: BP013590.D
Acq: 25 Jan 2023 02:09

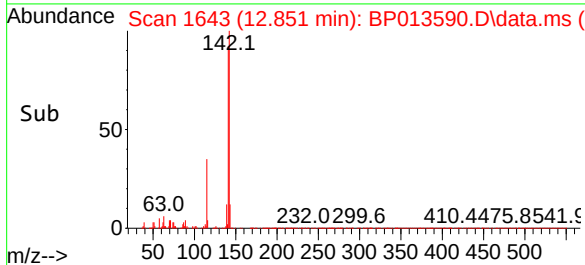
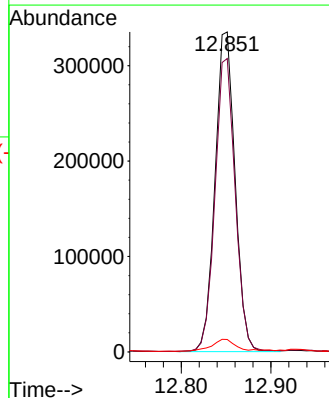
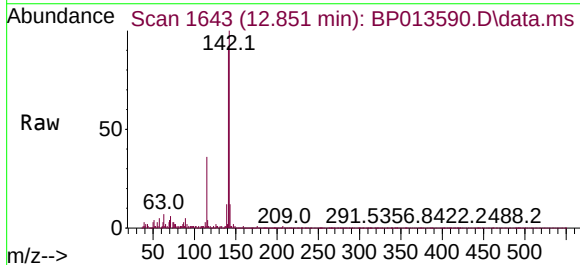
Instrument :
BNA_P
ClientSampleId :
B-P38CDL

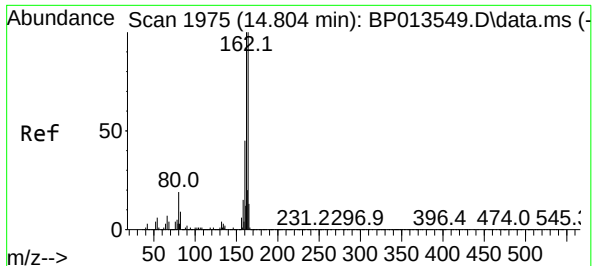
Tgt Ion:142 Resp: 1417002
Ion Ratio Lower Upper
142 100
141 89.3 71.4 107.2
115 32.5 27.4 41.2



#38
1-Methylnaphthalene
Concen: 7.349 ng
RT: 12.851 min Scan# 1643
Delta R.T. -0.006 min
Lab File: BP013590.D
Acq: 25 Jan 2023 02:09

Tgt Ion:142 Resp: 522783
Ion Ratio Lower Upper
142 100
141 91.7 74.3 111.5
116 3.9 3.0 4.6

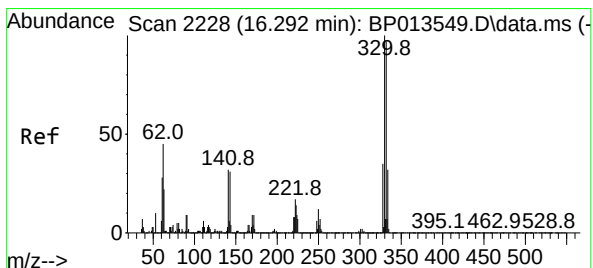
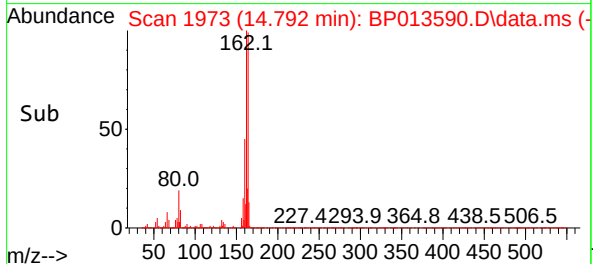
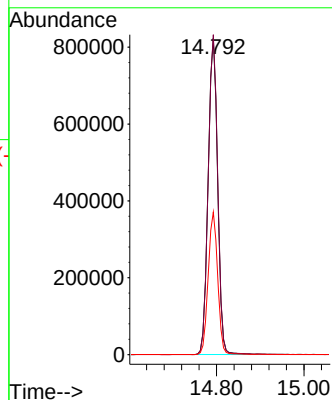
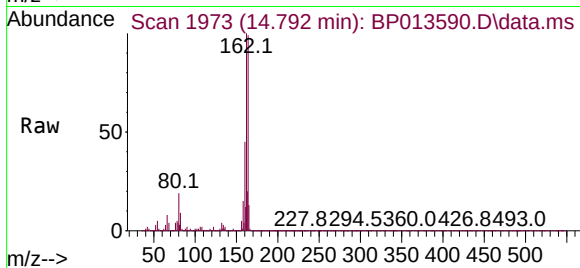




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.792 min Scan# 1973
Delta R.T. -0.006 min
Lab File: BP013590.D
Acq: 25 Jan 2023 02:09

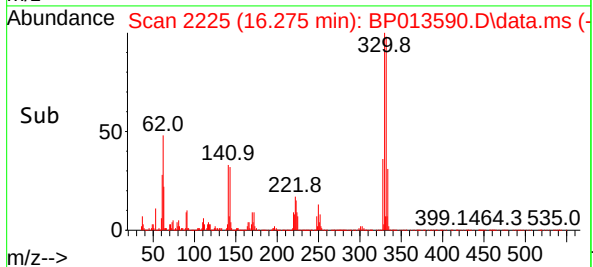
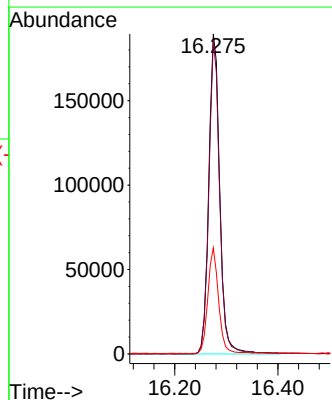
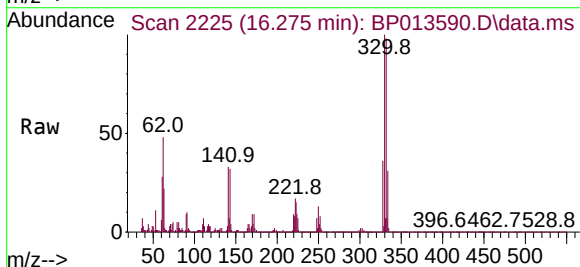
Instrument :
BNA_P
ClientSampleId :
B-P38CDL

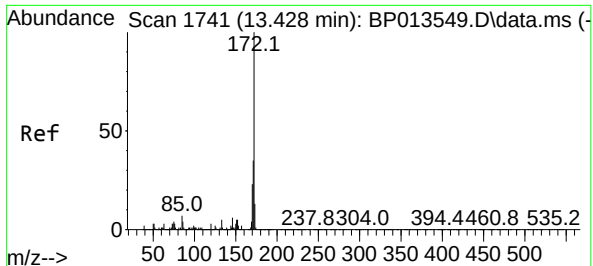
Tgt Ion:164 Resp: 1235300
Ion Ratio Lower Upper
164 100
162 101.1 80.1 120.1
160 45.0 35.9 53.9



#42
2,4,6-Tribromophenol
Concen: 22.479 ng
RT: 16.275 min Scan# 2225
Delta R.T. -0.012 min
Lab File: BP013590.D
Acq: 25 Jan 2023 02:09

Tgt Ion:330 Resp: 278533
Ion Ratio Lower Upper
330 100
332 96.2 77.4 116.2
141 32.8 27.6 41.4





#45

2-Fluorobiphenyl

Concen: 12.359 ng

RT: 13.416 min Scan# 11

Delta R.T. -0.012 min

Lab File: BP013590.D

Acq: 25 Jan 2023 02:09

Instrument :

BNA_P

ClientSampleId :

B-P38CDL

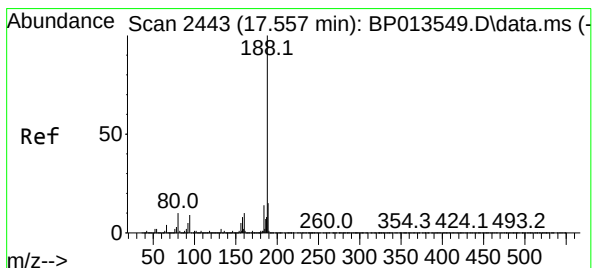
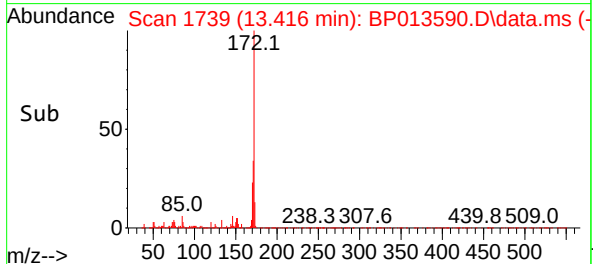
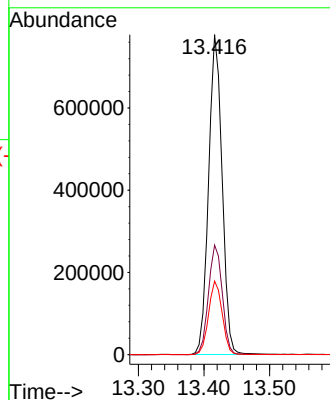
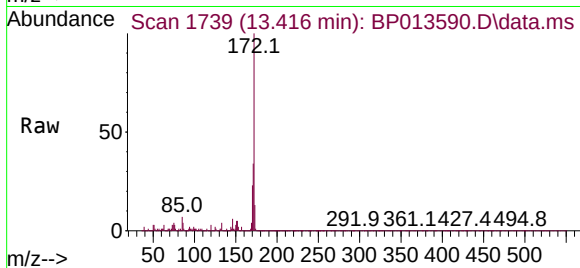
Tgt Ion:172 Resp: 1112206

Ion Ratio Lower Upper

172 100

171 34.2 27.8 41.8

170 23.0 18.6 27.8



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.545 min Scan# 2441

Delta R.T. -0.006 min

Lab File: BP013590.D

Acq: 25 Jan 2023 02:09

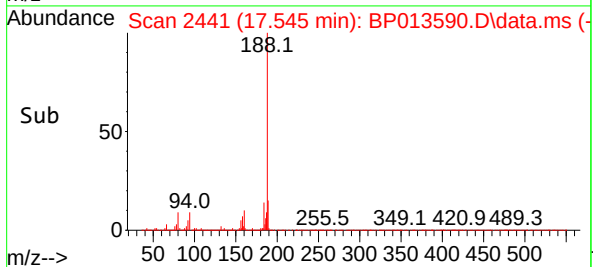
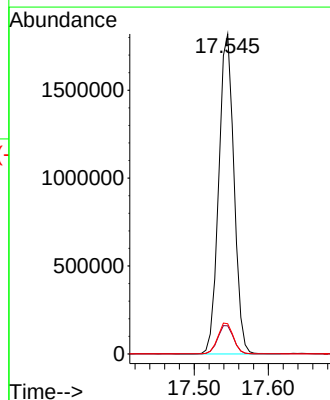
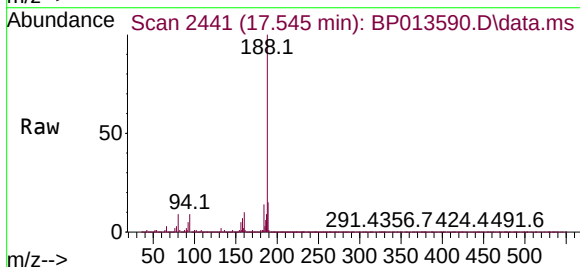
Tgt Ion:188 Resp: 2590773

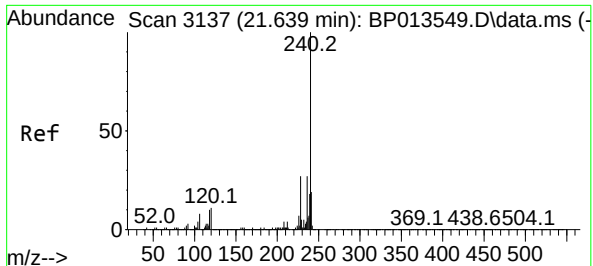
Ion Ratio Lower Upper

188 100

94 8.8 7.2 10.8

80 9.5 8.2 12.2

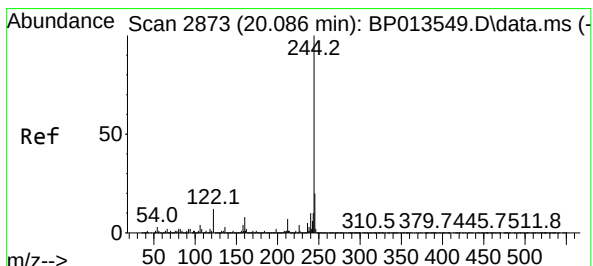
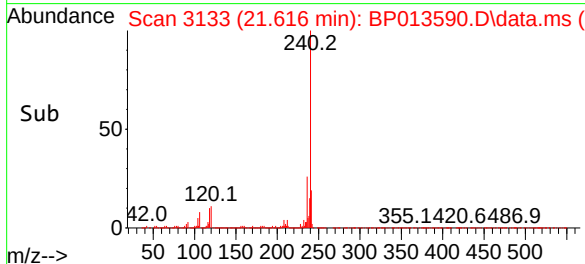
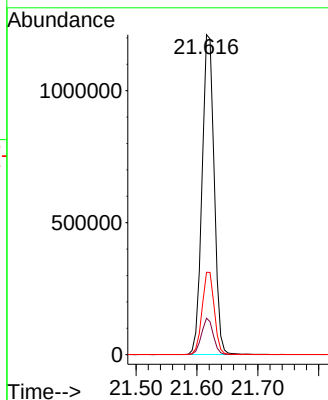
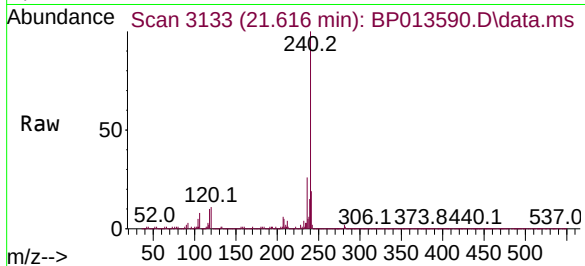




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.616 min Scan# 31
Delta R.T. -0.012 min
Lab File: BP013590.D
Acq: 25 Jan 2023 02:09

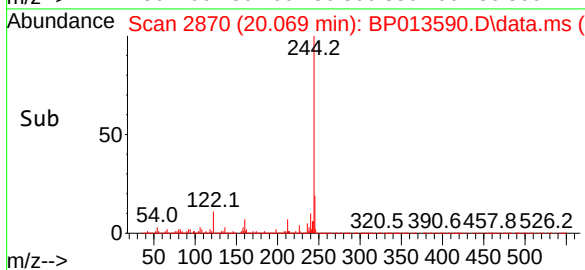
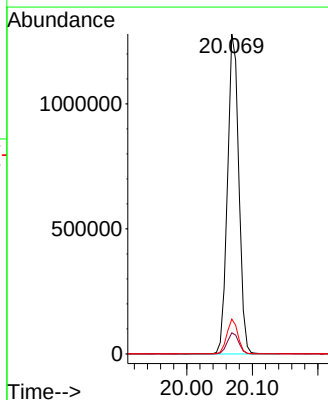
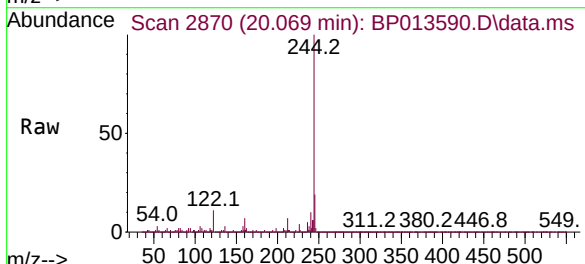
Instrument :
BNA_P
ClientSampleId :
B-P38CDL

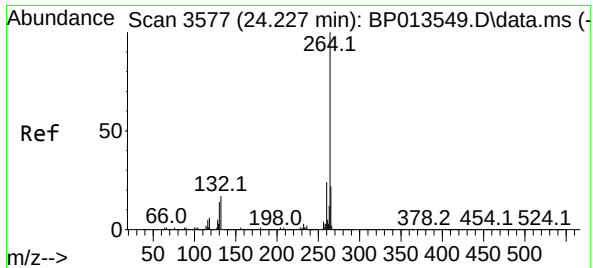
Tgt Ion:240 Resp: 1671768
Ion Ratio Lower Upper
240 100
120 11.4 8.6 13.0
236 25.7 21.3 31.9



#79
Terphenyl-d14
Concen: 16.544 ng
RT: 20.069 min Scan# 2870
Delta R.T. -0.012 min
Lab File: BP013590.D
Acq: 25 Jan 2023 02:09

Tgt Ion:244 Resp: 1537432
Ion Ratio Lower Upper
244 100
212 6.6 5.4 8.2
122 10.9 9.2 13.8

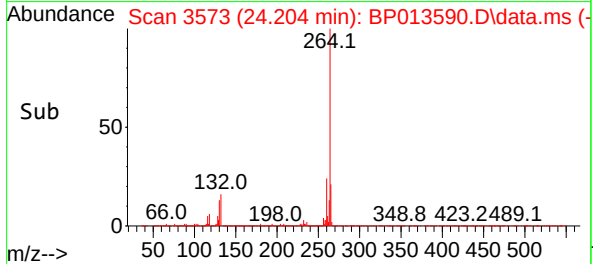
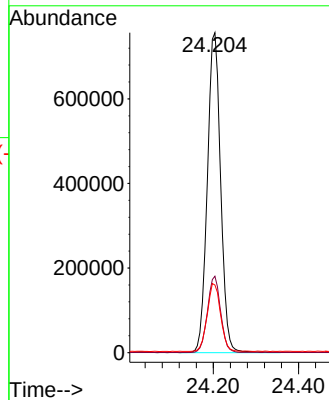
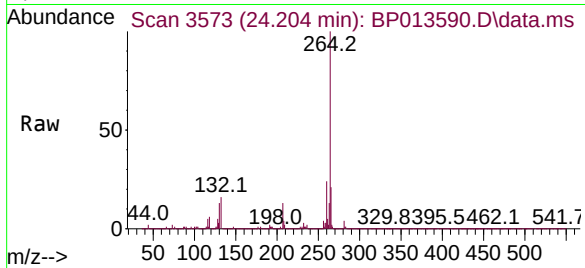




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.204 min Scan# 31
Delta R.T. -0.012 min
Lab File: BP013590.D
Acq: 25 Jan 2023 02:09

Instrument :
BNA_P
ClientSampleId :
B-P38CDL

Tgt Ion:264 Resp: 1637103
Ion Ratio Lower Upper
264 100
260 23.9 18.8 28.2
265 21.1 17.4 26.2



CALIBRATION SUMMARY



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: loui01

Lab Code: CHEM Case No.: O1233 SAS No.: O1233 SDG No.: O1233

Instrument ID: BNA_F Calibration Date(s): 01/19/2023 01/19/2023

Calibration Time(s): 11:21 15:11

LAB FILE ID:		RRF2.5 = BF132140.D			RRF005 = BF132141.D		RRF010 = BF132142.D	
		RRF020 = BF132143.D			RRF040 = BF132144.D		RRF050 = BF132145.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.301	1.246	1.204	1.116	1.063	1.145	9.4
Benzaldehyde			1.086	1.022	0.903	0.814	0.927	13.3
Phenol-d6		1.696	1.541	1.516	1.404	1.325	1.441	10.5
Phenol		1.733	1.636	1.580	1.468	1.375	1.500	10.3
bis(2-Chloroethyl)ether		1.461	1.341	1.325	1.236	1.178	1.270	8.9
2-Chlorophenol		1.351	1.306	1.286	1.183	1.129	1.203	9.5
2-Methylphenol		1.172	1.098	1.104	1.042	0.990	1.054	7.1
2,2-oxybis(1-Chloropropane)		2.119	1.959	1.937	1.815	1.731	1.846	9.2
Acetophenone		0.579	0.528	0.504	0.462	0.431	0.481	12.2
3+4-Methylphenols		1.509	1.435	1.426	1.317	1.235	1.329	10.2
n-Nitroso-di-n-propylamine	0.922	1.015	0.971	0.921	0.847	0.797	0.883	9.9
Nitrobenzene-d5		0.363	0.366	0.383	0.383	0.371	0.376	2.5
Hexachloroethane		0.503	0.486	0.495	0.489	0.466	0.482	3.8
Nitrobenzene		0.397	0.392	0.410	0.406	0.388	0.399	2.2
Isophorone		0.767	0.740	0.738	0.719	0.711	0.737	2.5
2-Nitrophenol		0.099	0.105	0.128	0.148	0.154	0.127	19.5
2,4-Dimethylphenol		0.334	0.330	0.324	0.322	0.308	0.319	3.8
bis(2-Chloroethoxy)methane		0.497	0.471	0.461	0.430	0.407	0.442	8.0
2,4-Dichlorophenol		0.303	0.298	0.313	0.309	0.294	0.303	2.3
Naphthalene		1.185	1.119	1.075	0.998	0.942	1.027	9.9
4-Chloroaniline		0.496	0.474	0.458	0.437	0.411	0.440	8.7
Hexachlorobutadiene		0.252	0.234	0.234	0.227	0.220	0.231	4.7
Caprolactam		0.075	0.081	0.086	0.090	0.089	0.086	6.6
4-Chloro-3-methylphenol		0.299	0.305	0.314	0.309	0.305	0.305	1.8
2-Methylnaphthalene		0.828	0.783	0.739	0.684	0.643	0.707	11.0
Hexachlorocyclopentadiene			0.306	0.342	0.390	0.389	0.380	12.4
2,4,6-Trichlorophenol		0.392	0.414	0.445	0.448	0.437	0.432	5.0
2-Fluorobiphenyl		1.669	1.529	1.407	1.250	1.162	1.369	14.8
2,4,5-Trichlorophenol		0.475	0.487	0.519	0.523	0.504	0.505	3.7
1,1-Biphenyl		1.813	1.710	1.657	1.537	1.450	1.578	9.7
2-Chloronaphthalene		1.372	1.294	1.270	1.195	1.131	1.220	7.8
2-Nitroaniline		0.245	0.288	0.354	0.380	0.391	0.351	17.4
Dimethylphthalate		1.562	1.520	1.519	1.435	1.369	1.449	6.0
Acenaphthylene		2.180	2.078	2.033	1.912	1.834	1.951	7.6
2,6-Dinitrotoluene		0.224	0.253	0.286	0.301	0.300	0.281	11.0
3-Nitroaniline		0.256	0.289	0.318	0.322	0.319	0.300	7.9

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: loui01

Lab Code: CHEM Case No.: O1233 SAS No.: O1233 SDG No.: O1233

Instrument ID: BNA_F Calibration Date(s): 01/19/2023 01/19/2023

Calibration Time(s): 11:21 15:11

LAB FILE ID:		RRF2.5 = BF132140.D			RRF005 = BF132141.D		RRF010 = BF132142.D	
		RRF020 = BF132143.D			RRF040 = BF132144.D		RRF050 = BF132145.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Acenaphthene		1.315	1.269	1.214	1.141	1.085	1.174	8.0
2,4-Dinitrophenol			0.078	0.097	0.111	0.124	0.108	19.9
4-Nitrophenol		0.172	0.191	0.221	0.232	0.242	0.218	12.2
Dibenzofuran		2.079	1.971	1.883	1.771	1.692	1.814	9.4
2,4-Dinitrotoluene		0.266	0.281	0.340	0.355	0.372	0.337	13.5
Diethylphthalate		1.495	1.493	1.485	1.423	1.389	1.420	5.4
4-Chlorophenyl-phenylether		0.838	0.783	0.750	0.704	0.664	0.720	10.4
Fluorene		1.619	1.504	1.416	1.282	1.219	1.344	12.9
4-Nitroaniline		0.258	0.275	0.293	0.282	0.290	0.279	4.1
4,6-Dinitro-2-methylphenol			0.058	0.072	0.085	0.094	0.087	22.3
n-Nitrosodiphenylamine		0.705	0.681	0.655	0.614	0.598	0.641	6.5
2,4,6-Tribromophenol		0.197	0.207	0.222	0.221	0.217	0.214	4.2
4-Bromophenyl-phenylether		0.260	0.253	0.247	0.237	0.230	0.244	4.2
Hexachlorobenzene		0.260	0.248	0.243	0.235	0.229	0.242	4.2
Atrazine		0.204	0.202	0.203	0.197	0.190	0.198	3.0
Pentachlorophenol		0.123	0.136	0.156	0.162	0.167	0.156	12.5
Phenanthrene		1.231	1.134	1.083	0.997	0.960	1.050	10.0
Anthracene		1.244	1.150	1.104	1.007	0.965	1.062	10.1
Carbazole		1.046	0.997	0.952	0.865	0.829	0.907	10.1
Di-n-butylphthalate		1.021	1.052	1.071	0.990	0.977	1.010	4.1
Fluoranthene		1.297	1.190	1.123	1.008	0.979	1.078	12.0
Pyrene		1.905	1.890	1.961	1.847	1.820	1.843	5.4
Terphenyl-d14		1.378	1.298	1.274	1.157	1.116	1.194	10.7
Butylbenzylphthalate		0.360	0.428	0.535	0.582	0.598	0.534	19.0
3,3-Dichlorobenzidine		0.310	0.345	0.403	0.422	0.418	0.398	12.9
Benzo (a) anthracene		1.454	1.419	1.446	1.403	1.402	1.429	2.0
Chrysene		1.457	1.365	1.351	1.331	1.310	1.360	3.6
Bis (2-ethylhexyl) phthalate		0.472	0.547	0.691	0.768	0.788	0.705	20.4
Di-n-octyl phthalate			0.595	0.816	1.093	1.187	1.083	30.0
Benzo (b) fluoranthene		1.288	1.234	1.181	1.230	1.164	1.218	3.3
Benzo (k) fluoranthene		1.336	1.302	1.303	1.211	1.157	1.242	5.7
Benzo (a) pyrene		1.124	1.102	1.157	1.195	1.167	1.171	4.2
Indeno (1,2,3-cd) pyrene		1.093	1.197	1.461	1.579	1.556	1.451	15.2
Dibenzo (a,h) anthracene		0.926	1.009	1.215	1.294	1.249	1.184	12.9
Benzo (g,h,i) perylene		0.925	1.038	1.267	1.354	1.328	1.246	15.2
1,2,4,5-Tetrachlorobenzene		0.789	0.737	0.719	0.684	0.641	0.696	8.0

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: loui01

Lab Code: CHEM Case No.: O1233 SAS No.: O1233 SDG No.: O1233

Instrument ID: BNA_F Calibration Date(s): 01/19/2023 01/19/2023

Calibration Time(s): 11:21 15:11

LAB FILE ID:		RRF2.5 = BF132140.D			RRF005 = BF132141.D		RRF010 = BF132142.D	
		RRF020 = BF132143.D			RRF040 = BF132144.D		RRF050 = BF132145.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
1,4-Dioxane		0.624	0.591	0.586	0.580	0.553	0.580	4.2
2,3,4,6-Tetrachlorophenol		0.344	0.366	0.400	0.405	0.393	0.384	5.8

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF011923.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Fri Jan 20 00:50:42 2023
 Response Via : Initial Calibration

Calibration Files

2.5 =BF132140.D 5 =BF132141.D 10 =BF132142.D 20 =BF132143.D 40 =BF132144.D 50 =BF132145.D 60 =BF132146.D 80 =BF132147.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.624	0.591	0.586	0.580	0.553	0.575	0.553	0.580	4.24	
3)	Pyridine	1.663	1.539	1.599	1.567	1.496	1.554	1.480	1.557	3.98	
4)	n-Nitrosodimet...	0.731	0.705	0.733	0.730	0.724	0.761	0.742	0.732	2.31	
5) S	2-Fluorophenol	1.301	1.246	1.204	1.116	1.063	1.077	1.009	1.145	9.35	
6)	Aniline	2.241	2.090	2.044	1.937	1.865	1.940	1.857	1.996	6.91	
7) S	Phenol-d6	1.696	1.541	1.516	1.404	1.325	1.352	1.254	1.441	10.54	
8)	2-Chlorophenol	1.351	1.306	1.286	1.183	1.129	1.136	1.034	1.203	9.50	
9)	Benzaldehyde		1.086	1.022	0.903	0.814	0.812		0.927	13.33	
10) C	Phenol	1.733	1.636	1.580	1.468	1.375	1.408	1.303	1.500	10.29	
11)	bis(2-Chloroet...	1.461	1.341	1.325	1.236	1.178	1.219	1.131	1.270	8.87	
12)	1,3-Dichlorobe...	1.556	1.458	1.406	1.312	1.242	1.269	1.174	1.345	9.97	
13) C	1,4-Dichlorobe...	1.544	1.451	1.419	1.314	1.238	1.266	1.163	1.342	9.99	
14)	1,2-Dichlorobe...	1.495	1.391	1.326	1.200	1.128	1.134	1.014	1.241	13.62	
15)	Benzyl Alcohol	1.128	1.103	1.125	1.106	1.090	1.105	1.060	1.102	2.07	
16)	2,2'-oxybis(1-...	2.119	1.959	1.937	1.815	1.731	1.743	1.617	1.846	9.20	
17)	2-Methylphenol	1.172	1.098	1.104	1.042	0.990	1.019	0.955	1.054	7.08	
18)	Hexachloroethane	0.503	0.486	0.495	0.489	0.466	0.485	0.449	0.482	3.82	
19) P	n-Nitroso-di-n...	0.922	1.015	0.971	0.921	0.847	0.797	0.814	0.776	0.883	9.86
20)	3+4-Methylphenols	1.509	1.435	1.426	1.317	1.235	1.258	1.119	1.328	10.25	
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.579	0.528	0.504	0.462	0.431	0.442	0.419	0.481	12.18	
23) S	Nitrobenzene-d5	0.363	0.366	0.383	0.383	0.371	0.388	0.381	0.376	2.54	
24)	Nitrobenzene	0.397	0.392	0.410	0.406	0.388	0.406	0.391	0.399	2.20	
25)	Isophorone	0.767	0.740	0.738	0.719	0.711	0.739	0.743	0.737	2.45	
26) C	2-Nitrophenol	0.099	0.105	0.128	0.148	0.154			0.127	19.49	
27)	2,4-Dimethylph...	0.334	0.330	0.324	0.322	0.308	0.313	0.300	0.319	3.82	
28)	bis(2-Chloroet...	0.497	0.471	0.461	0.430	0.407	0.421	0.406	0.442	7.97	
29) C	2,4-Dichloroph...	0.303	0.298	0.313	0.309	0.294	0.305	0.296	0.303	2.28	
30)	1,2,4-Trichlor...	0.388	0.360	0.355	0.338	0.320	0.328	0.316	0.344	7.49	
31)	Naphthalene	1.185	1.119	1.075	0.998	0.942	0.965	0.907	1.027	9.89	
32)	Benzoic acid		0.118	0.151	0.188	0.200	0.228	0.235	0.187	24.10	
33)	4-Chloroaniline	0.496	0.474	0.458	0.437	0.411	0.410	0.390	0.440	8.72	
34) C	Hexachlorobuta...	0.252	0.234	0.234	0.227	0.220	0.230	0.220	0.231	4.75	
35)	Caprolactam	0.075	0.081	0.086	0.090	0.089	0.090	0.089	0.086	6.65	
36) C	4-Chloro-3-met...	0.299	0.305	0.314	0.309	0.305	0.302	0.298	0.305	1.80	
37)	2-Methylnaphth...	0.828	0.783	0.739	0.684	0.643	0.655	0.619	0.707	11.04	
38)	1-Methylnaphth...	0.774	0.719	0.690	0.638	0.599	0.609	0.577	0.658	10.93	

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF011923.M

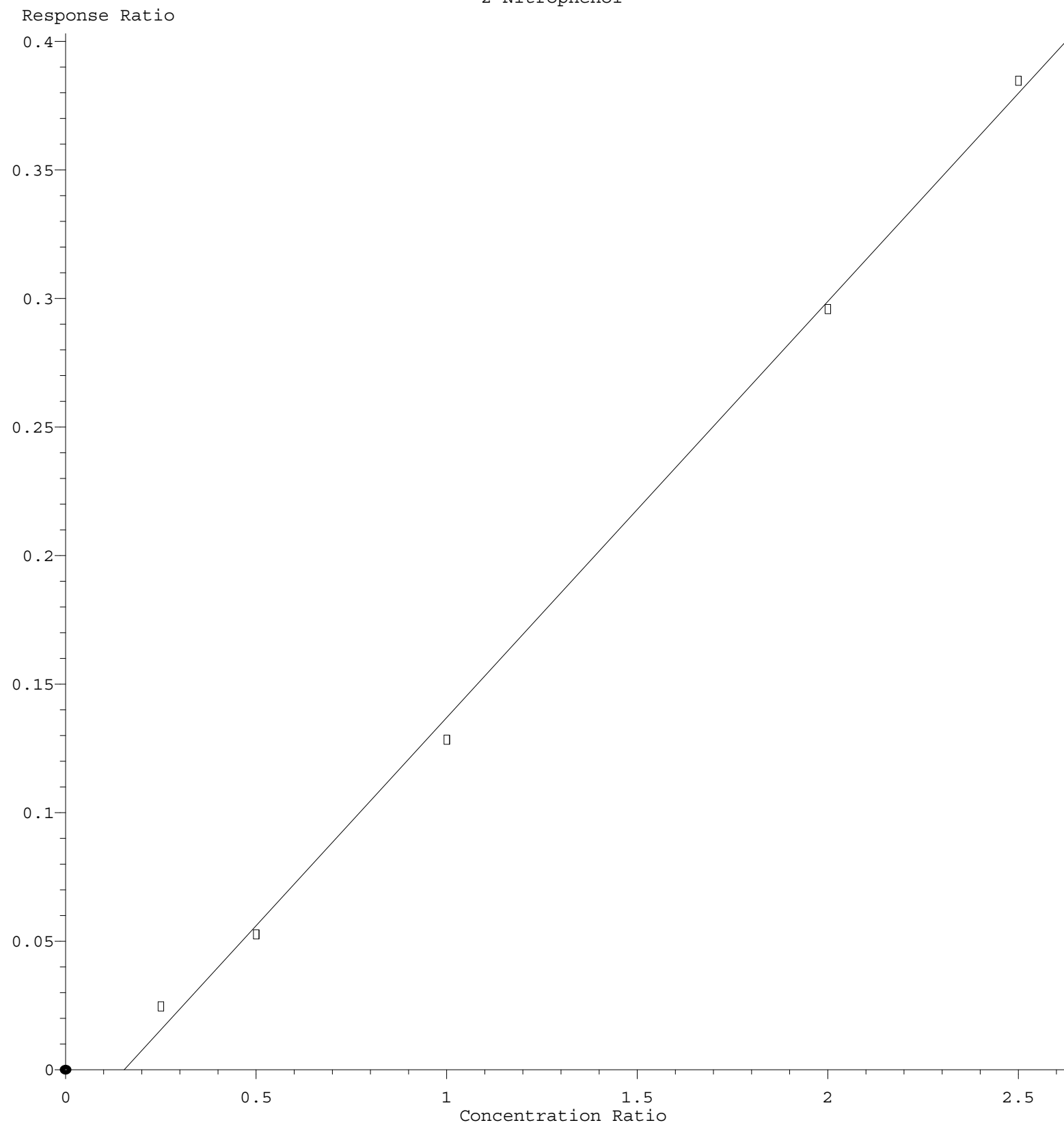
39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.789	0.737	0.719	0.684	0.641	0.667	0.634	0.696	8.04	
41) P	Hexachlorocycl...	0.306	0.342	0.390	0.389	0.422	0.428	0.380		12.43	
42) S	2,4,6-Tribromo...	0.197	0.207	0.222	0.221	0.217	0.219	0.212	0.214	4.25	
43) C	2,4,6-Trichlor...	0.392	0.414	0.445	0.448	0.437	0.451	0.436	0.432	4.95	
44)	2,4,5-Trichlor...	0.475	0.487	0.519	0.523	0.504	0.524	0.504	0.505	3.69	
45) S	2-Fluorobiphenyl	1.669	1.529	1.407	1.250	1.162	1.197		1.369	14.76	
46)	1,1'-Biphenyl	1.813	1.710	1.657	1.537	1.450	1.490	1.388	1.578	9.70	
47)	2-Chloronaphth...	1.372	1.294	1.270	1.195	1.131	1.167	1.110	1.220	7.81	
48)	2-Nitroaniline	0.245	0.288	0.354	0.380	0.391	0.405	0.395	0.351	17.42	
49)	Acenaphthylene	2.180	2.078	2.033	1.912	1.834	1.851	1.771	1.951	7.63	
50)	Dimethylphthalate	1.562	1.520	1.519	1.435	1.369	1.396	1.338	1.449	5.95	
51)	2,6-Dinitrotol...	0.224	0.253	0.286	0.301	0.300	0.307	0.296	0.281	10.95	
52) C	Acenaphthene	1.315	1.269	1.214	1.141	1.085	1.123	1.070	1.174	8.01	
53)	3-Nitroaniline	0.256	0.289	0.318	0.322	0.319	0.307	0.291	0.300	7.88	
54) P	2,4-Dinitrophenol	0.078	0.097	0.111	0.124	0.131		0.108		19.86	
55)	Dibenzofuran	2.079	1.971	1.883	1.771	1.692	1.707	1.594	1.814	9.44	
56) P	4-Nitrophenol	0.172	0.191	0.221	0.232	0.242	0.239	0.233	0.218	12.18	
57)	2,4-Dinitrotol...	0.266	0.281	0.340	0.355	0.372	0.379	0.366	0.337	13.46	
58)	Fluorene	1.619	1.504	1.416	1.282	1.219	1.221	1.148	1.344	12.87	
59)	2,3,4,6-Tetrac...	0.344	0.366	0.400	0.405	0.393	0.399	0.382	0.384	5.77	
60)	Diethylphthalate	1.495	1.493	1.485	1.423	1.389	1.362	1.296	1.420	5.37	
61)	4-Chlorophenyl...	0.838	0.783	0.750	0.704	0.664	0.673	0.625	0.720	10.37	
62)	4-Nitroaniline	0.258	0.275	0.293	0.282	0.290	0.283	0.276	0.279	4.12	
63)	Azobenzene	1.594	1.515	1.498	1.401	1.349	1.354	1.268	1.426	8.00	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...	0.058	0.072	0.085	0.094	0.103	0.109	0.087		22.26	
66) c	n-Nitrosodiphe...	0.705	0.681	0.655	0.614	0.598	0.628	0.601	0.641	6.46	
67)	4-Bromophenyl-...	0.260	0.253	0.247	0.237	0.230	0.244	0.236	0.244	4.25	
68)	Hexachlorobenzene	0.260	0.248	0.243	0.235	0.229	0.242	0.237	0.242	4.22	
69)	Atrazine	0.204	0.202	0.203	0.197	0.190	0.198	0.190	0.198	2.96	
70) C	Pentachlorophenol	0.123	0.136	0.156	0.162	0.167	0.174	0.172	0.156	12.45	
71)	Phenanthrene	1.231	1.134	1.083	0.997	0.960	1.003	0.939	1.050	10.02	
72)	Anthracene	1.244	1.150	1.104	1.007	0.965	1.006	0.956	1.062	10.15	
73)	Carbazole	1.046	0.997	0.952	0.865	0.829	0.852	0.808	0.907	10.07	
74)	Di-n-butylphth...	1.021	1.052	1.071	0.990	0.977	1.001	0.955	1.010	4.07	
75) C	Fluoranthene	1.297	1.190	1.123	1.008	0.979	1.002	0.949	1.078	11.96	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzydine	0.607	0.635	0.615	0.682	0.569	0.574	0.521	0.600	8.60	
78)	Pyrene	1.905	1.890	1.961	1.847	1.820	1.833	1.646	1.843	5.41	
79) S	Terphenyl-d14	1.378	1.298	1.274	1.157	1.116	1.127	1.007	1.194	10.71	
80)	Butylbenzylpht...	0.360	0.428	0.535	0.582	0.598	0.624	0.612	0.534	19.03	
81)	Benzo(a)anthra...	1.454	1.419	1.446	1.403	1.402	1.471	1.406	1.429	1.95	
82)	3,3'-Dichlorob...	0.310	0.345	0.403	0.422	0.418	0.456	0.430	0.398	12.91	
83)	Chrysene	1.457	1.365	1.351	1.331	1.310	1.380	1.325	1.360	3.62	
84)	Bis(2-ethylhex...	0.472	0.547	0.691	0.768	0.788	0.841	0.830	0.705	20.44	
85) c	Di-n-octyl pht...	0.595	0.816	1.093	1.187	1.360	1.445	1.083		30.01#	

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF011923.M

86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.093	1.197	1.461	1.579	1.556	1.661	1.613	1.451	15.17
88)	Benzo(b)fluora...	1.288	1.234	1.181	1.230	1.164	1.212	1.214	1.218	3.28
89)	Benzo(k)fluora...	1.336	1.302	1.303	1.211	1.157	1.208	1.177	1.242	5.66
90) C	Benzo(a)pyrene	1.124	1.102	1.157	1.195	1.167	1.243	1.212	1.171	4.23
91)	Dibenzo(a,h)an...	0.926	1.009	1.215	1.294	1.249	1.323	1.268	1.184	12.94
92)	Benzo(g,h,i)pe...	0.925	1.038	1.267	1.354	1.328	1.422	1.385	1.246	15.21

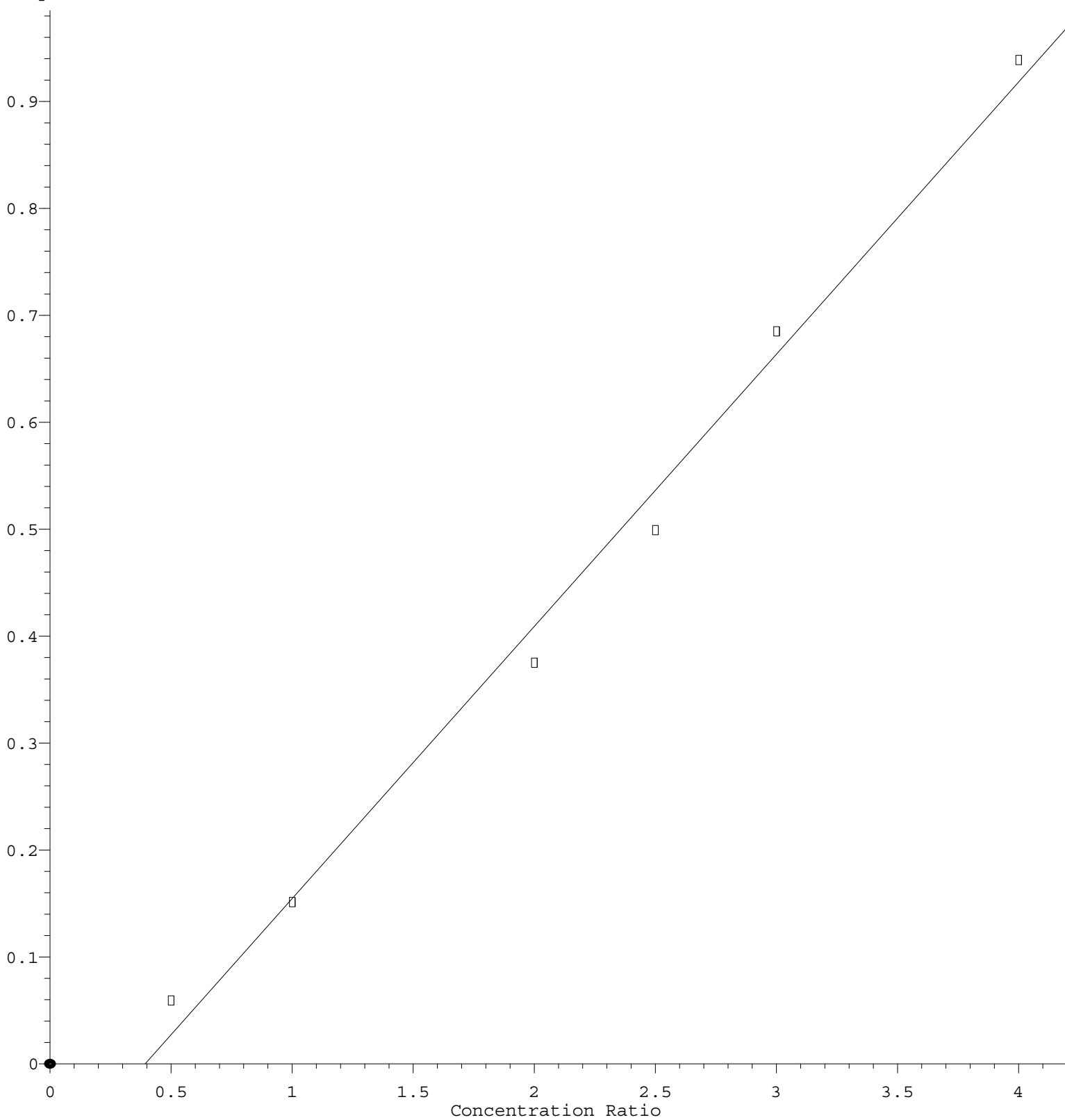
(#) = Out of Range

2-Nitrophenol



Benzoic acid

Response Ratio



$$\text{Response} = 2.545\text{e-}001 * \text{Amt} - 9.992\text{e-}002$$

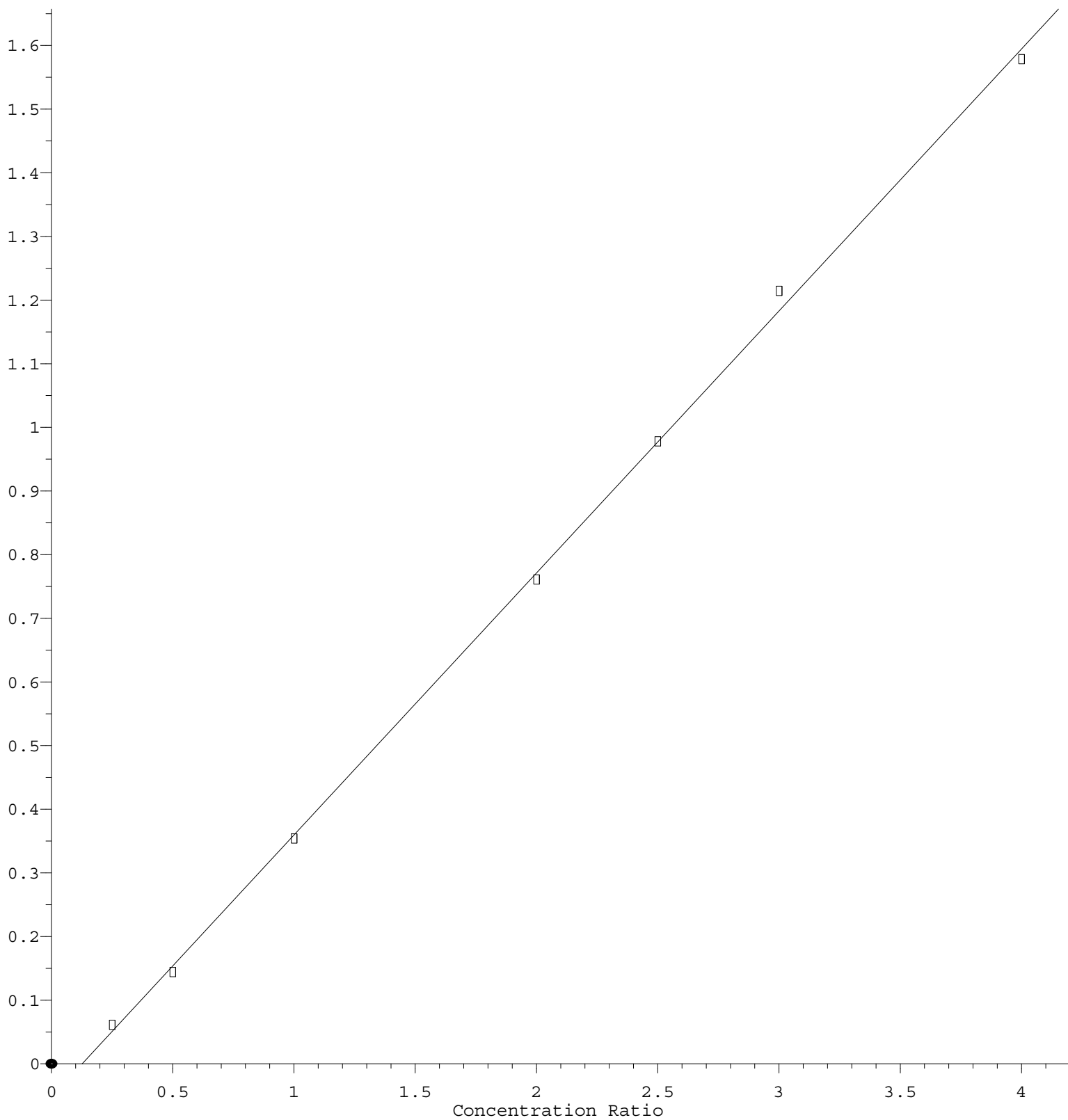
Coef of Det (r^2) = 0.991816 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF011923.M

Calibration Table Last Updated: Fri Jan 20 00:50:42 2023

2-Nitroaniline

Response Ratio



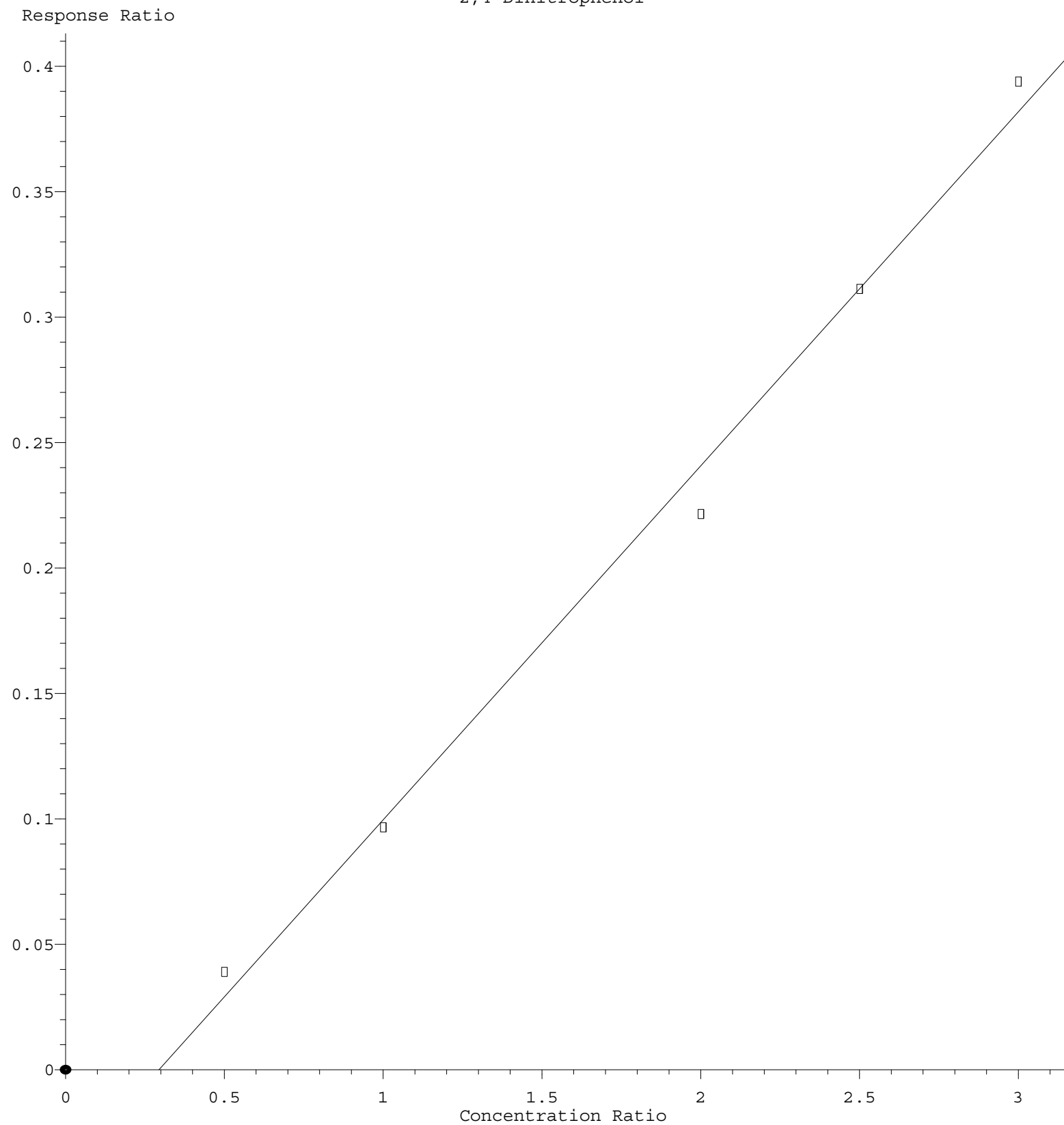
$$\text{Response} = 4.118\text{e-}001 * \text{Amt} - 5.219\text{e-}002$$

Coef of Det (r^2) = 0.999189 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF011923.M

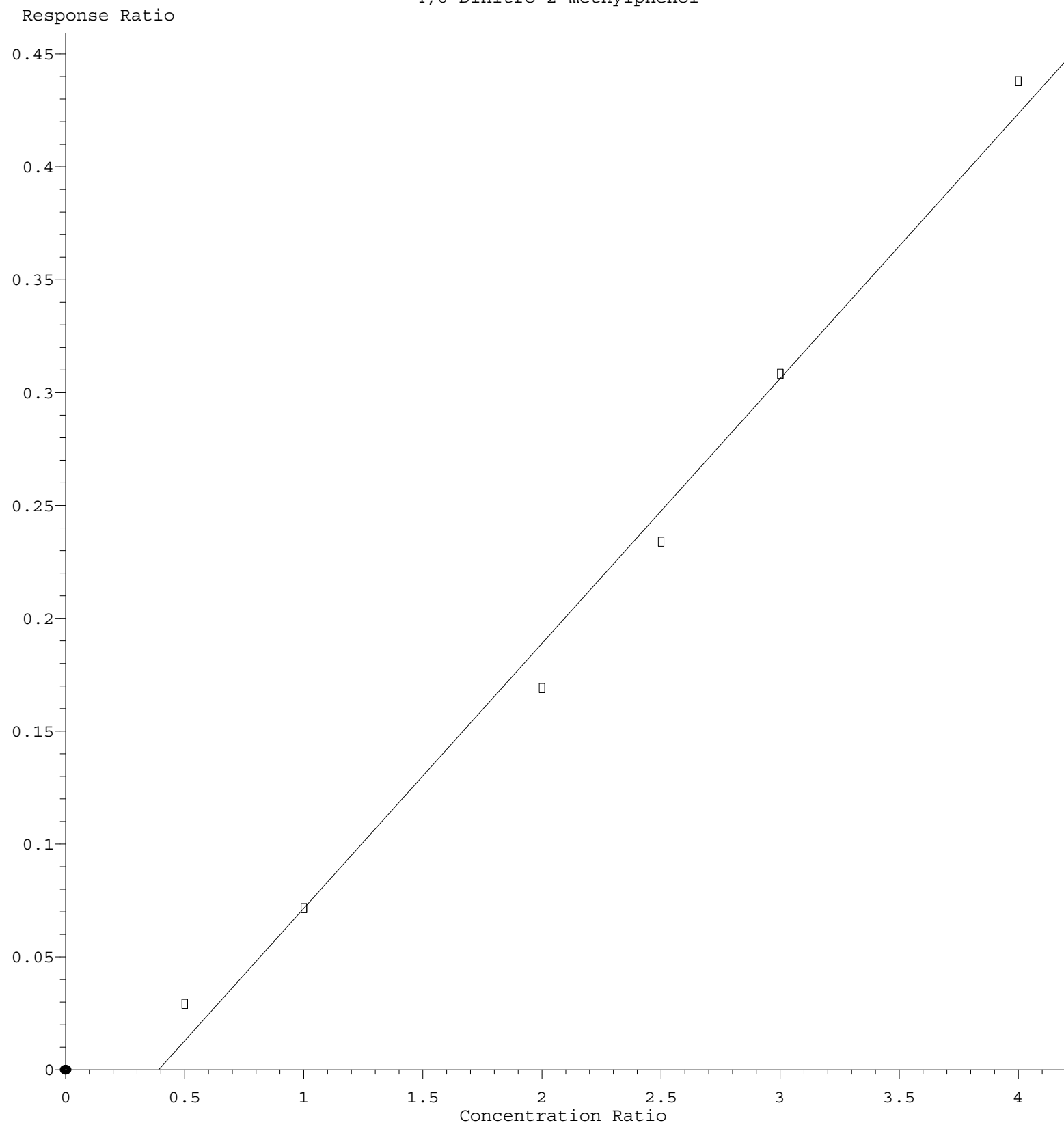
Calibration Table Last Updated: Fri Jan 20 00:50:42 2023

2,4-Dinitrophenol



Response = $1.411e-001 * \text{Amt} - 4.154e-002$
 Coef of Det (r^2) = 0.992791 Curve Fit: Linear
 Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF011923.M
 Calibration Table Last Updated: Fri Jan 20 00:50:42 2023

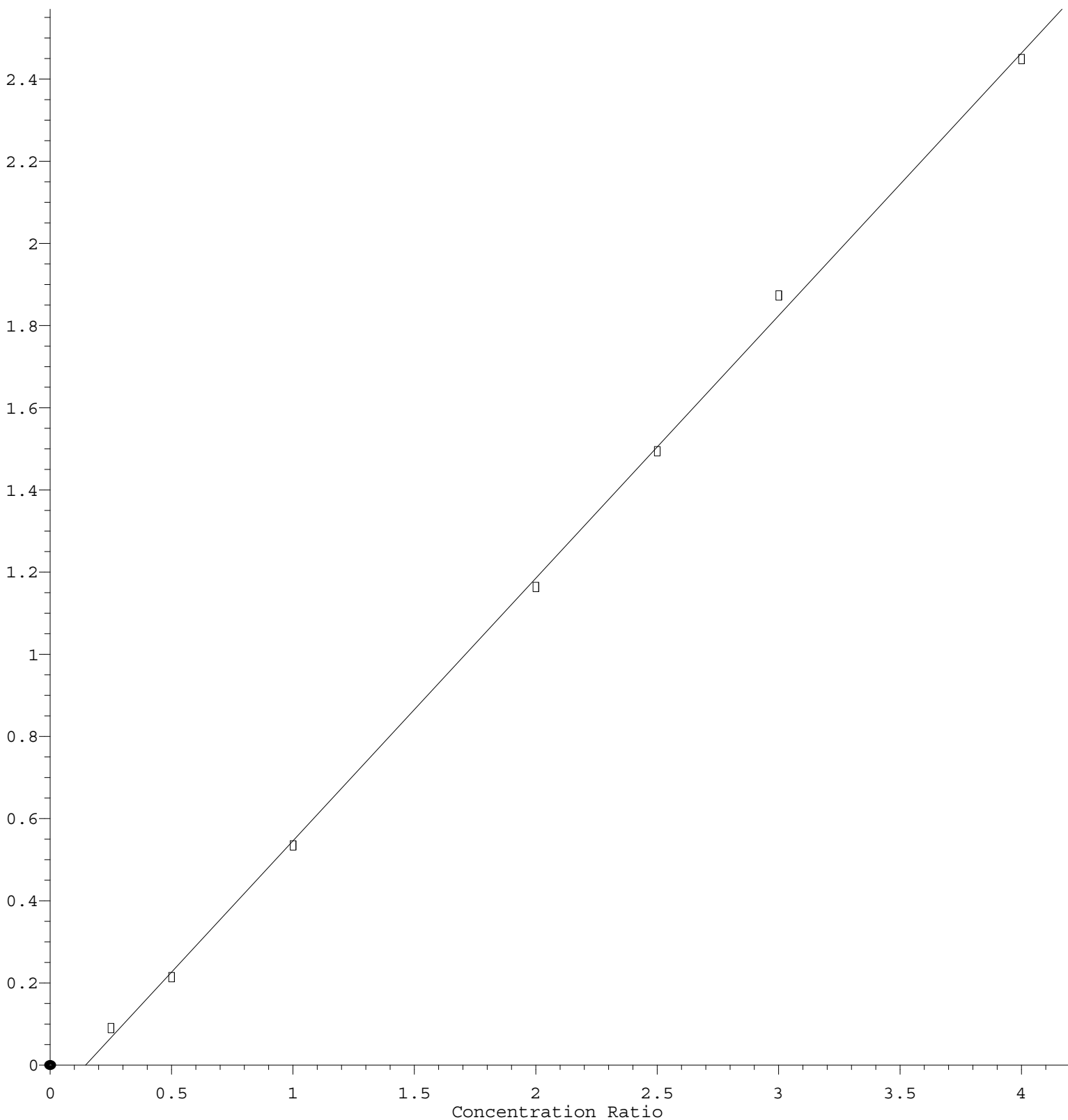
4,6-Dinitro-2-methylphenol



Response = $1.173 \times 10^{-1} \times \text{Amt} - 4.581 \times 10^{-2}$
Coef of Det (r^2) = 0.990888 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF011923.M
Calibration Table Last Updated: Fri Jan 20 00:50:42 2023

Butylbenzylphthalate

Response Ratio



$$\text{Response} = 6.394\text{e-}001 * \text{Amt} - 9.337\text{e-}002$$

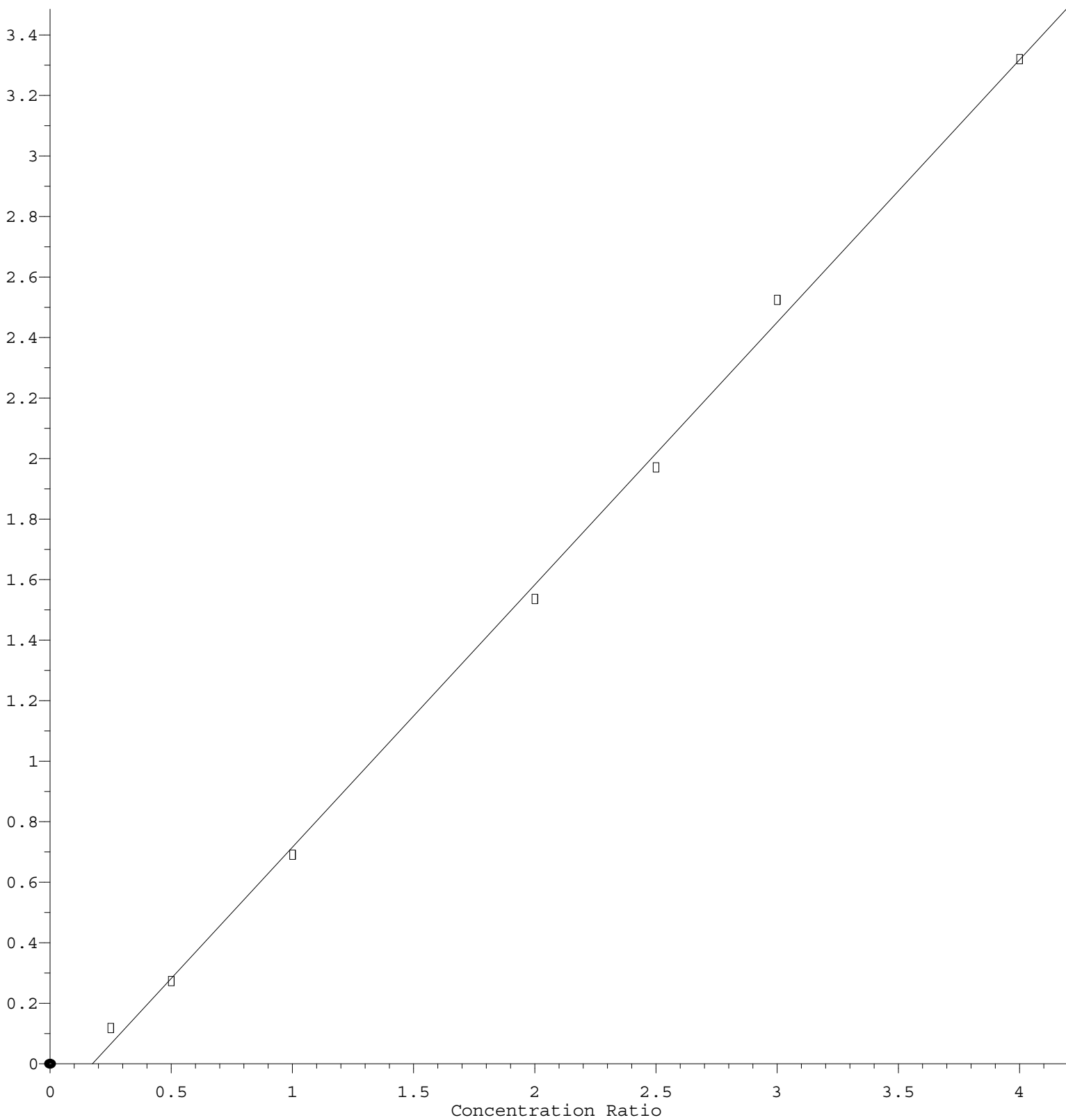
Coef of Det (r^2) = 0.999143 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF011923.M

Calibration Table Last Updated: Fri Jan 20 00:50:42 2023

Bis(2-ethylhexyl)phthalate

Response Ratio



$$\text{Response} = 8.674\text{e-}001 * \text{Amt} - 1.515\text{e-}001$$

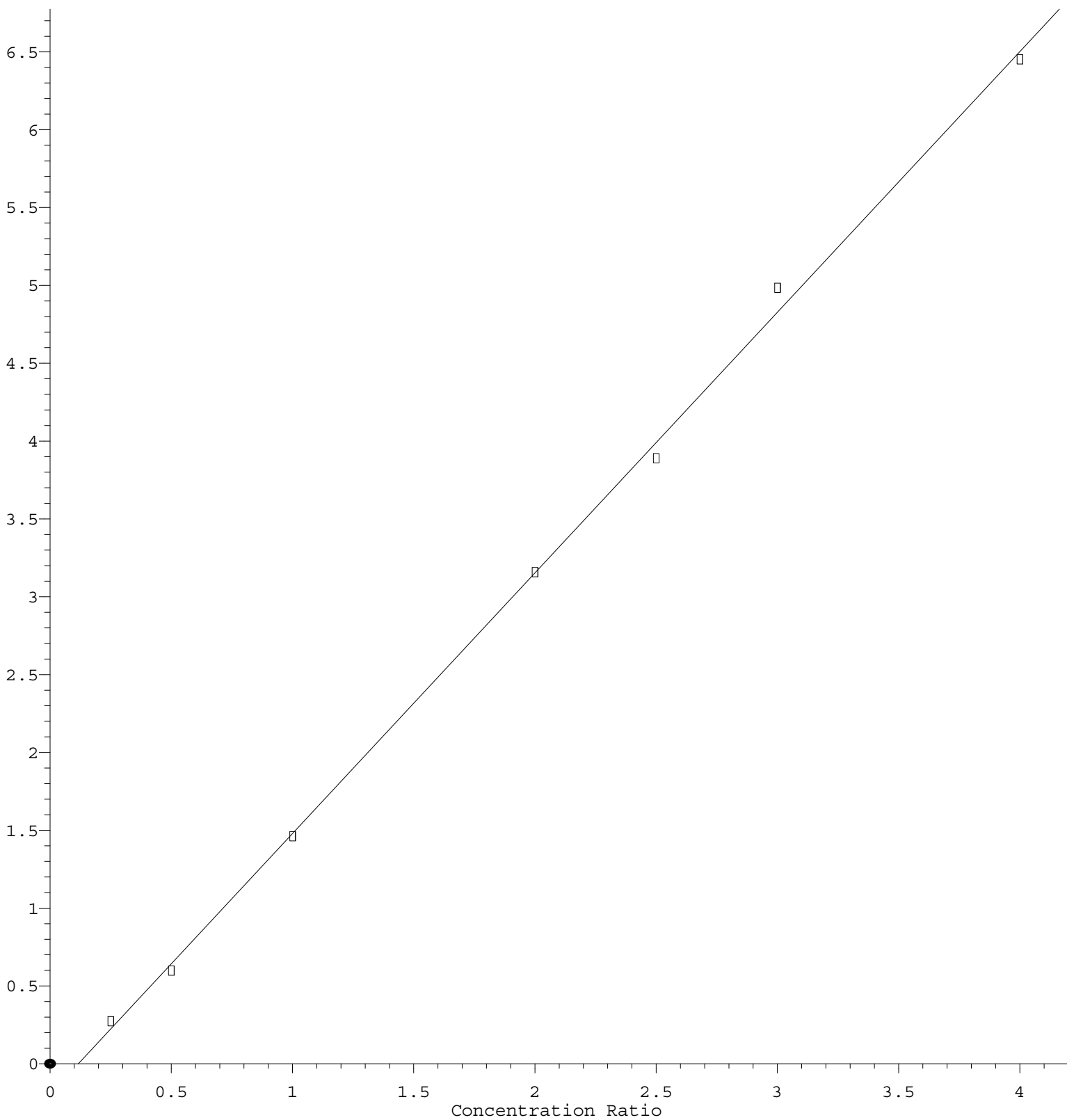
Coef of Det (r^2) = 0.998465 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF011923.M

Calibration Table Last Updated: Fri Jan 20 00:50:42 2023

Indeno (1,2,3-cd)pyrene

Response Ratio



$$\text{Response} = 1.674\text{e}+000 * \text{Amt} - 1.957\text{e}-001$$

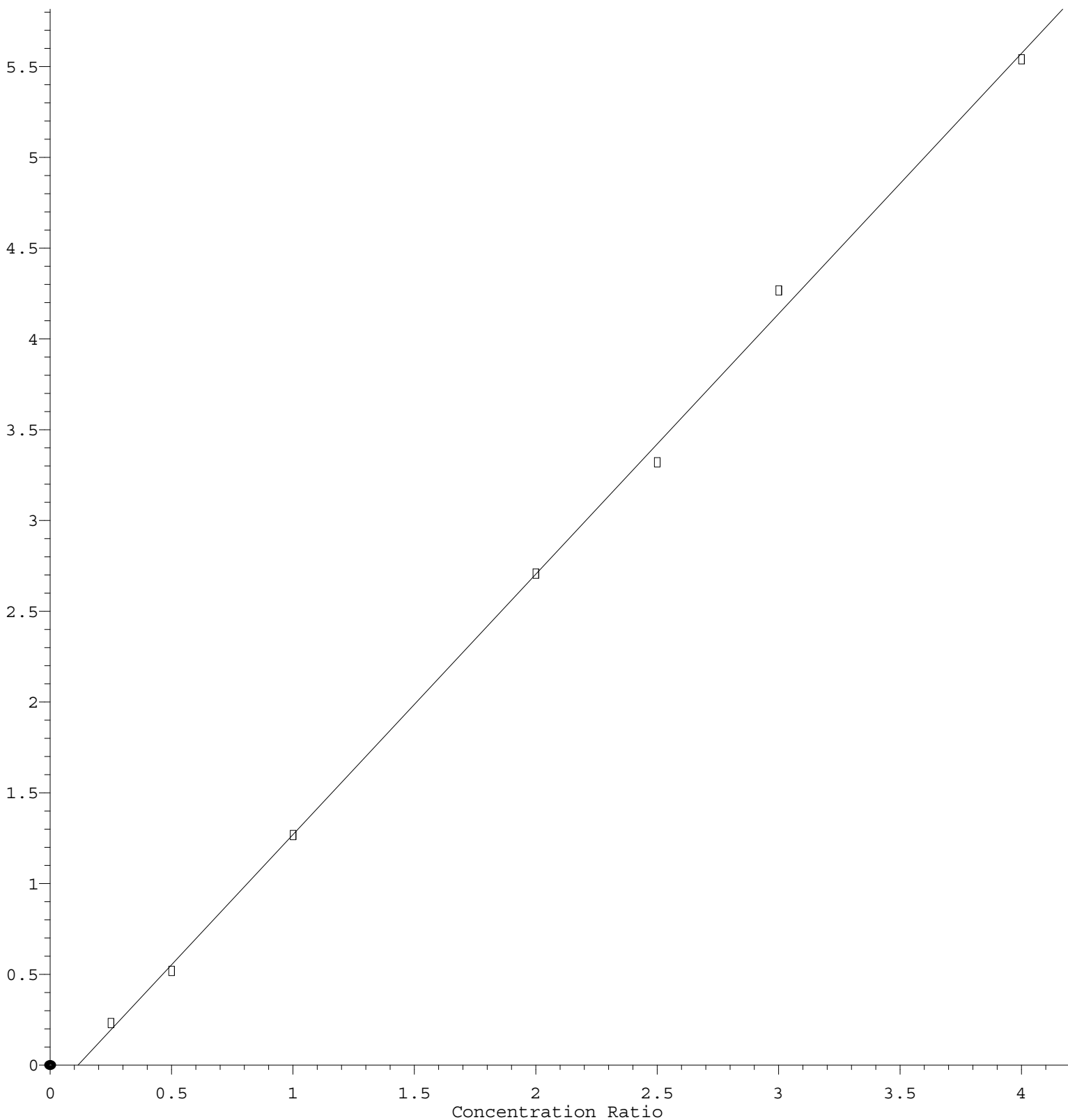
Coef of Det (r^2) = 0.998700 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF011923.M

Calibration Table Last Updated: Fri Jan 20 00:50:42 2023

Benzo(g,h,i)perylene

Response Ratio



$$\text{Response} = 1.434\text{e}+000 * \text{Amt} - 1.648\text{e}-001$$

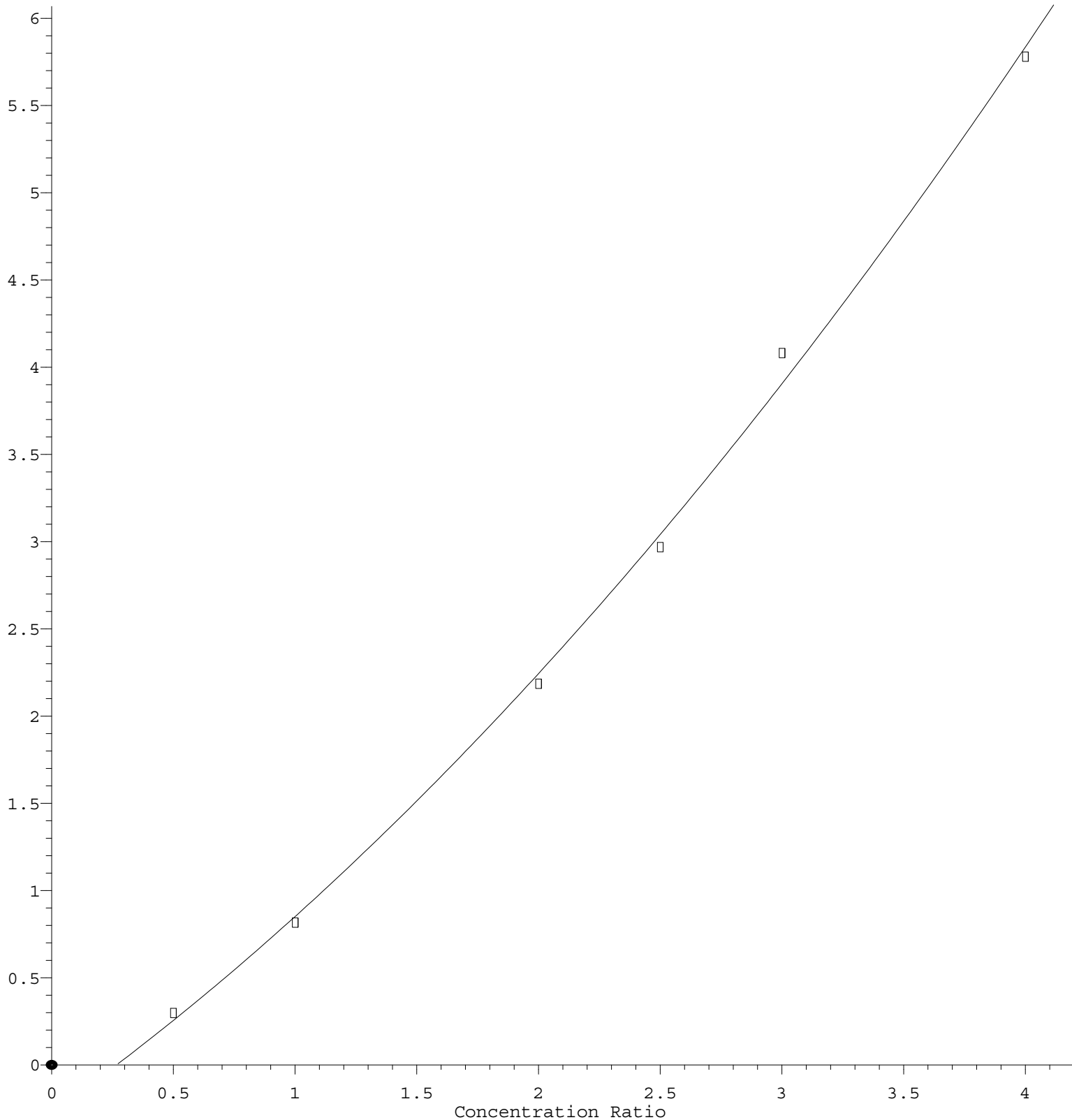
Coef of Det (r^2) = 0.998719 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF011923.M

Calibration Table Last Updated: Fri Jan 20 00:50:42 2023

Di-n-octyl phthalate

Response Ratio



$R = 1.344e-001 A^2 + 9.896e-001 A - 2.736e-001$
 Coef of Det (r^2) = 0.997826 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF011923.M
 Calibration Table Last Updated: Fri Jan 20 00:50:42 2023

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011923\
 Data File : BF132140.D
 Acq On : 19 Jan 2023 11:21
 Operator : CG\JU
 Sample : SSTDICC2.5
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC2.5

Quant Time: Jan 20 00:09:06 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 00:07:35 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

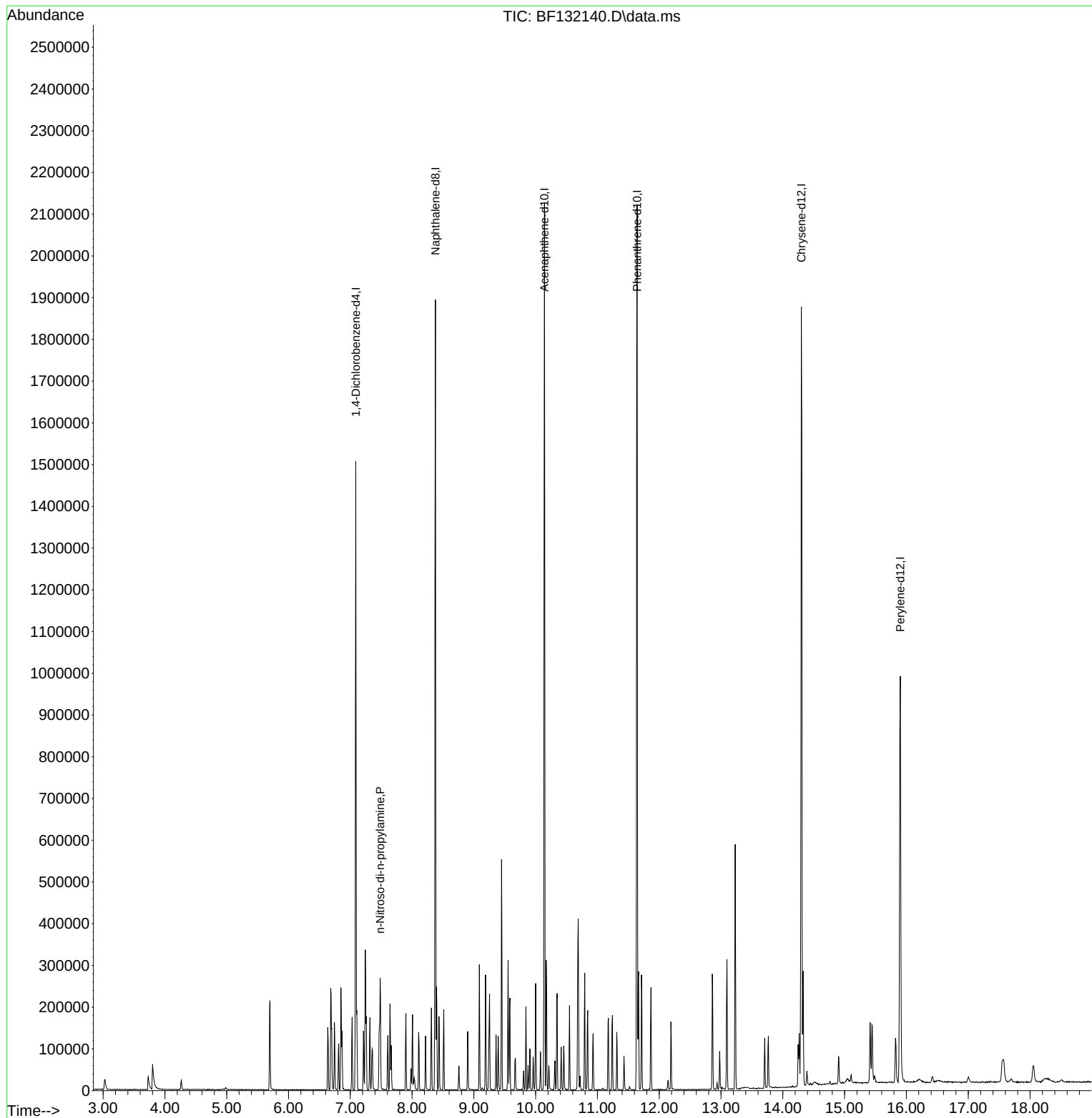
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.089	152	195208	20.000	ng	0.00
21) Naphthalene-d8	8.378	136	704530	20.000	ng	0.00
39) Acenaphthene-d10	10.142	164	385356	20.000	ng	0.00
64) Phenanthrene-d10	11.642	188	760266	20.000	ng	0.00
76) Chrysene-d12	14.301	240	608530	20.000	ng	# 0.00
86) Perylene-d12	15.901	264	485191	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.000	ng	
7) Phenol-d6	0.000	99	0d	0.000	ng	
23) Nitrobenzene-d5	0.000	82	0d	0.000	ng	
42) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng	
45) 2-Fluorobiphenyl	0.000	172	0d	0.000	ng	
79) Terphenyl-d14	0.000	244	0d	0.000	ng	
Target Compounds						
19) n-Nitroso-di-n-propyla...	7.484	70	22501	2.611	ng	Qvalue 95

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011923\
Data File : BF132140.D
Acq On : 19 Jan 2023 11:21
Operator : CG\JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Jan 20 00:09:06 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 20 00:07:35 2023
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011923\
 Data File : BF132141.D
 Acq On : 19 Jan 2023 11:53
 Operator : CG\JU
 Sample : SSTDICC005
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC005

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 01/20/2023
 Supervised By : Jagrut Upadhyay 01/20/2023

Quant Time: Jan 20 00:09:43 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 00:07:35 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.090	152	182160	20.000	ng	0.00
21) Naphthalene-d8	8.378	136	648667	20.000	ng	0.00
39) Acenaphthene-d10	10.142	164	352490	20.000	ng	0.00
64) Phenanthrene-d10	11.642	188	687824	20.000	ng	0.00
76) Chrysene-d12	14.301	240	485083	20.000	ng	0.00
86) Perylene-d12	15.901	264	352188	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.701	112	118505	11.364	ng	0.00
7) Phenol-d6	6.690	99	154497	11.770	ng	-0.01
23) Nitrobenzene-d5	7.643	82	117730	9.642	ng	-0.01
42) 2,4,6-Tribromophenol	10.931	330	34791	9.240	ng	0.00
45) 2-Fluorobiphenyl	9.448	172	294189	13.062	ng	0.00
79) Terphenyl-d14	13.230	244	334255	11.543	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.019	88	28431	5.382	ng	98
3) Pyridine	3.784	79	75755	5.342	ng	97
4) n-Nitrosodimethylamine	3.725	42	33278	4.989	ng	# 99
6) Aniline	6.748	93	102038	5.590	ng	93
8) 2-Chlorophenol	6.866	128	61537	5.614	ng	98
10) Phenol	6.701	94	78903	5.774	ng	95
11) bis(2-Chloroethyl)ether	6.813	93	66549	5.753	ng	96
12) 1,3-Dichlorobenzene	7.031	146	70845	5.782	ng	94
13) 1,4-Dichlorobenzene	7.107	146	70326	5.752	ng	97
14) 1,2-Dichlorobenzene	7.260	146	68086	6.023	ng	97
15) Benzyl Alcohol	7.213	79	51349	5.045	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.354	45	96505	5.740	ng	98
17) 2-Methylphenol	7.319	107	53355	5.556	ng	94
18) Hexachloroethane	7.607	117	22916	5.222	ng	96
19) n-Nitroso-di-n-propyla...	7.484	70	46218	5.748	ng	94
20) 3+4-Methylphenols	7.472	107	68721	5.679	ng	96
22) Acetophenone	7.490	105	93901	6.023	ng	# 97
24) Nitrobenzene	7.666	77	64350	4.977	ng	95
25) Isophorone	7.901	82	124332	5.204	ng	99
26) 2-Nitrophenol	7.984	139	15976	3.545	ng	97
27) 2,4-Dimethylphenol	8.007	122	54213	5.244	ng	96
28) bis(2-Chloroethoxy)met...	8.107	93	80663	5.627	ng	97
29) 2,4-Dichlorophenol	8.219	162	49213	5.014	ng	99
30) 1,2,4-Trichlorobenzene	8.313	180	62964	5.648	ng	97
31) Naphthalene	8.395	128	192118	5.767	ng	99
33) 4-Chloroaniline	8.437	127	80401	5.640	ng	98
34) Hexachlorobutadiene	8.513	225	40845	5.454	ng	99
35) Caprolactam	8.766	113	12224m	4.400	ng	
36) 4-Chloro-3-methylphenol	8.901	107	48436	4.904	ng	97
37) 2-Methylnaphthalene	9.089	142	134235	5.852	ng	99
38) 1-Methylnaphthalene	9.189	142	125517	5.881	ng	99
40) 1,2,4,5-Tetrachloroben...	9.254	216	69557	5.672	ng	98
43) 2,4,6-Trichlorophenol	9.360	196	34564	4.541	ng	95
44) 2,4,5-Trichlorophenol	9.395	196	41858	4.702	ng	94
46) 1,1'-Biphenyl	9.554	154	159760	5.745	ng	100
47) 2-Chloronaphthalene	9.584	162	120880	5.623	ng	95

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011923\
 Data File : BF132141.D
 Acq On : 19 Jan 2023 11:53
 Operator : CG\JU
 Sample : SSTDICC005
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC005

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 01/20/2023
 Supervised By : Jagrut Upadhyay 01/20/2023

Quant Time: Jan 20 00:09:43 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 00:07:35 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Nitroaniline	9.672	65	21592	3.488	ng	96
49) Acenaphthylene	10.001	152	192093	5.586	ng	97
50) Dimethylphthalate	9.842	163	137683	5.393	ng	100
51) 2,6-Dinitrotoluene	9.907	165	19735	3.988	ng	# 82
52) Acenaphthene	10.172	154	115909	5.603	ng	98
53) 3-Nitroaniline	10.078	138	22536	4.260	ng	92
55) Dibenzofuran	10.348	168	183200	5.731	ng	96
56) 4-Nitrophenol	10.219	139	15152	3.935	ng	99
57) 2,4-Dinitrotoluene	10.313	165	23444	3.947	ng	# 85
58) Fluorene	10.689	166	142641	6.022	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.460	232	30336m	4.480	ng	
60) Diethylphthalate	10.548	149	131777	5.264	ng	99
61) 4-Chlorophenyl-phenyle...	10.683	204	73864	5.823	ng	93
62) 4-Nitroaniline	10.689	138	22739	4.617	ng	95
63) Azobenzene	10.842	77	140461	5.590	ng	97
66) n-Nitrosodiphenylamine	10.795	169	121302	5.507	ng	99
67) 4-Bromophenyl-phenylether	11.178	248	44657	5.327	ng	92
68) Hexachlorobenzene	11.242	284	44794	5.376	ng	98
69) Atrazine	11.319	200	34994	5.149	ng	99
70) Pentachlorophenol	11.430	266	21134	3.947	ng	91
71) Phenanthrene	11.666	178	211702	5.865	ng	98
72) Anthracene	11.713	178	213968	5.859	ng	97
73) Carbazole	11.866	167	179791	5.764	ng	98
74) Di-n-butylphthalate	12.189	149	175501	5.054	ng	99
75) Fluoranthene	12.860	202	223006	6.015	ng	98
77) Benzidine	12.977	184	73637	5.056	ng	98
78) Pyrene	13.095	202	231080	5.169	ng	100
80) Butylbenzylphthalate	13.707	149	43698	3.373	ng	96
81) Benzo(a)anthracene	14.289	228	176274	5.087	ng	98
82) 3,3'-Dichlorobenzidine	14.248	252	37640	3.900	ng	99
83) Chrysene	14.324	228	176738	5.358	ng	98
84) Bis(2-ethylhexyl)phtha...	14.266	149	57226	3.345	ng	99
87) Indeno(1,2,3-cd)pyrene	17.548	276	96216	3.765	ng	98
88) Benzo(b)fluoranthene	15.413	252	113397	5.288	ng	99
89) Benzo(k)fluoranthene	15.448	252	117601	5.377	ng	99
90) Benzo(a)pyrene	15.824	252	98927	4.796	ng	95
91) Dibenzo(a,h)anthracene	17.577	278	81546	3.912	ng	99
92) Benzo(g,h,i)perylene	18.054	276	81471	3.715	ng	# 94

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

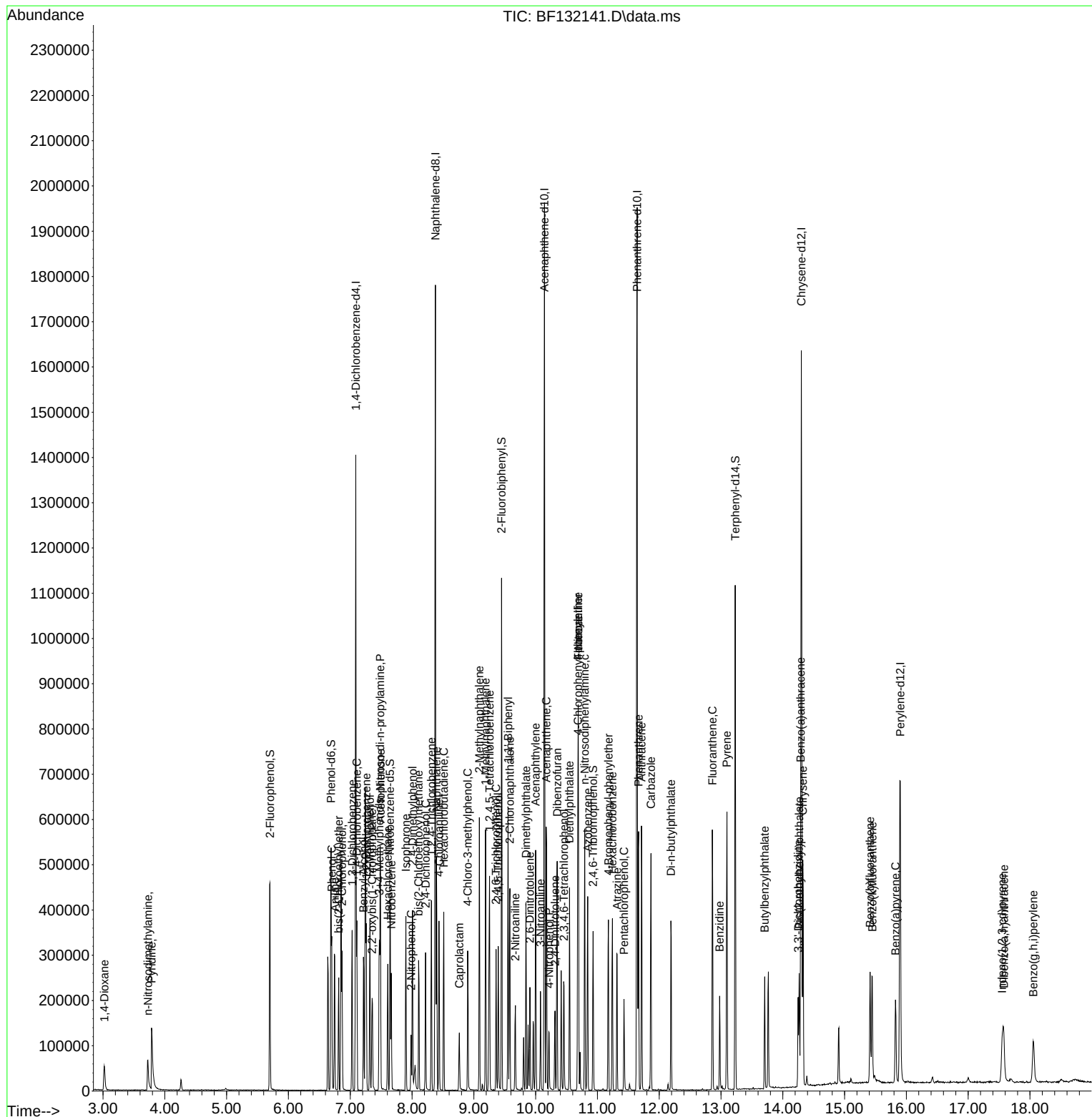
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011923\
Data File : BF132141.D
Acq On : 19 Jan 2023 11:53
Operator : CG\JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Christian Giraldo 01/20/2023
Supervised By :Jaqrut Upadhyay 01/20/2023

Quant Time: Jan 20 00:09:43 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 20 00:07:35 2023
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011923\
 Data File : BF132142.D
 Acq On : 19 Jan 2023 12:26
 Operator : CG\JU
 Sample : SSTDICC010
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC010

Quant Time: Jan 20 00:10:19 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 00:07:35 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.090	152	181294	20.000	ng	0.00
21) Naphthalene-d8	8.378	136	635776	20.000	ng	0.00
39) Acenaphthene-d10	10.142	164	343275	20.000	ng	0.00
64) Phenanthrene-d10	11.642	188	671726	20.000	ng	0.00
76) Chrysene-d12	14.301	240	434613	20.000	ng	0.00
86) Perylene-d12	15.901	264	339398	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.701	112	225836	21.761	ng	0.00
7) Phenol-d6	6.690	99	279343	21.382	ng	-0.01
23) Nitrobenzene-d5	7.648	82	232920	19.462	ng	0.00
42) 2,4,6-Tribromophenol	10.930	330	70890	19.333	ng	0.00
45) 2-Fluorobiphenyl	9.454	172	524790	23.925	ng	0.00
79) Terphenyl-d14	13.230	244	564308	21.750	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.019	88	53539	10.183	ng	98
3) Pyridine	3.778	79	139529	9.886	ng	98
4) n-Nitrosodimethylamine	3.719	42	63909	9.628	ng	99
6) Aniline	6.748	93	189455	10.428	ng	97
8) 2-Chlorophenol	6.872	128	118344	10.848	ng	92
9) Benzaldehyde	6.643	77	98463	11.715	ng	97
10) Phenol	6.701	94	148332	10.906	ng	95
11) bis(2-Chloroethyl)ether	6.813	93	121564	10.559	ng	99
12) 1,3-Dichlorobenzene	7.031	146	132193	10.841	ng	96
13) 1,4-Dichlorobenzene	7.107	146	131526	10.809	ng	99
14) 1,2-Dichlorobenzene	7.260	146	126058	11.204	ng	96
15) Benzyl Alcohol	7.219	79	99939	9.866	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.354	45	177617	10.614	ng	98
17) 2-Methylphenol	7.319	107	99555	10.417	ng	98
18) Hexachloroethane	7.607	117	44062	10.088	ng	97
19) n-Nitroso-di-n-propyla...	7.484	70	87979	10.994	ng	97
20) 3+4-Methylphenols	7.472	107	130094	10.803	ng	95
22) Acetophenone	7.490	105	167799	10.981	ng	96
24) Nitrobenzene	7.666	77	124607	9.834	ng	96
25) Isophorone	7.901	82	235392	10.052	ng	99
26) 2-Nitrophenol	7.984	139	33479	7.579	ng	97
27) 2,4-Dimethylphenol	8.007	122	104848	10.348	ng	98
28) bis(2-Chloroethoxy)met...	8.113	93	149878	10.668	ng	97
29) 2,4-Dichlorophenol	8.219	162	94733	9.848	ng	98
30) 1,2,4-Trichlorobenzene	8.313	180	114575	10.486	ng	100
31) Naphthalene	8.401	128	355602	10.891	ng	98
32) Benzoic acid	8.066	122	37655	6.331	ng	92
33) 4-Chloroaniline	8.437	127	150762	10.789	ng	96
34) Hexachlorobutadiene	8.513	225	74489	10.148	ng	99
35) Caprolactam	8.778	113	25712	9.443	ng	87
36) 4-Chloro-3-methylphenol	8.901	107	97071	10.027	ng	98
37) 2-Methylnaphthalene	9.089	142	248900	11.072	ng	96
38) 1-Methylnaphthalene	9.189	142	228574	10.927	ng	99
40) 1,2,4,5-Tetrachloroben...	9.254	216	126425	10.585	ng	99
41) Hexachlorocyclopentadiene	9.242	237	52593	8.069	ng	99
43) 2,4,6-Trichlorophenol	9.360	196	70987	9.577	ng	96

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011923\
 Data File : BF132142.D
 Acq On : 19 Jan 2023 12:26
 Operator : CG\JU
 Sample : SSTDICC010
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC010

Quant Time: Jan 20 00:10:19 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 00:07:35 2023
 Response via : Initial Calibration

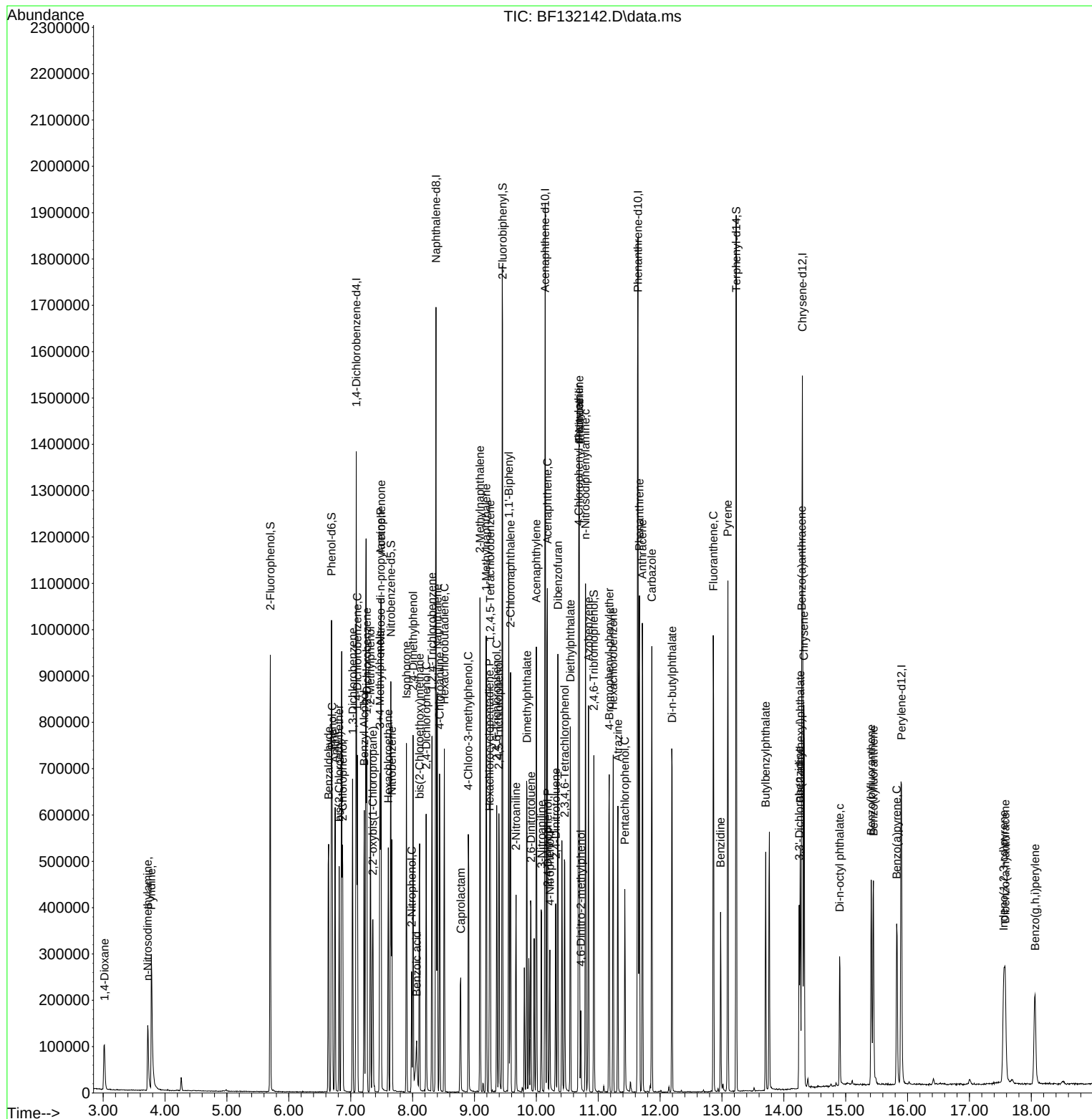
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.395	196	83630	9.647	ng	99
46) 1,1'-Biphenyl	9.554	154	293487	10.837	ng	100
47) 2-Chloronaphthalene	9.584	162	222092	10.609	ng	99
48) 2-Nitroaniline	9.672	65	49471	8.207	ng	99
49) Acenaphthylene	10.001	152	356712	10.651	ng	98
50) Dimethylphthalate	9.848	163	260923	10.495	ng	99
51) 2,6-Dinitrotoluene	9.913	165	43419	9.010	ng	99
52) Acenaphthene	10.178	154	217757	10.810	ng	96
53) 3-Nitroaniline	10.083	138	49662	9.639	ng	95
54) 2,4-Dinitrophenol	10.183	184	13395	6.882	ng	# 1
55) Dibenzofuran	10.348	168	338245	10.865	ng	97
56) 4-Nitrophenol	10.219	139	32842	8.759	ng	94
57) 2,4-Dinitrotoluene	10.313	165	48250	8.342	ng	97
58) Fluorene	10.695	166	258139	11.191	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.460	232	62761	9.517	ng	99
60) Diethylphthalate	10.548	149	256262	10.511	ng	99
61) 4-Chlorophenyl-phenyle...	10.683	204	134364	10.878	ng	92
62) 4-Nitroaniline	10.695	138	47271	9.855	ng	90
63) Azobenzene	10.842	77	260037	10.627	ng	99
65) 4,6-Dinitro-2-methylph...	10.719	198	19587	6.725	ng	96
66) n-Nitrosodiphenylamine	10.795	169	228808	10.636	ng	98
67) 4-Bromophenyl-phenylether	11.178	248	84869	10.365	ng	90
68) Hexachlorobenzene	11.242	284	83441	10.254	ng	99
69) Atrazine	11.319	200	67709	10.201	ng	98
70) Pentachlorophenol	11.430	266	45654	8.731	ng	97
71) Phenanthrene	11.666	178	380704	10.800	ng	99
72) Anthracene	11.713	178	386327	10.833	ng	98
73) Carbazole	11.866	167	334989	10.997	ng	98
74) Di-n-butylphthalate	12.195	149	353393	10.421	ng	99
75) Fluoranthene	12.860	202	399560	11.035	ng	98
77) Benzidine	12.977	184	137915	10.569	ng	99
78) Pyrene	13.095	202	410756	10.255	ng	99
80) Butylbenzylphthalate	13.707	149	93001	8.012	ng	94
81) Benzo(a)anthracene	14.289	228	308379	9.932	ng	99
82) 3,3'-Dichlorobenzidine	14.248	252	75066	8.681	ng	# 97
83) Chrysene	14.324	228	296684	10.039	ng	100
84) Bis(2-ethylhexyl)phtha...	14.266	149	118849	7.754	ng	100
85) Di-n-octyl phthalate	14.901	149	129384	5.499	ng	96
87) Indeno(1,2,3-cd)pyrene	17.554	276	203109	8.246	ng	97
88) Benzo(b)fluoranthene	15.413	252	209435	10.135	ng	99
89) Benzo(k)fluoranthene	15.448	252	220873	10.480	ng	100
90) Benzo(a)pyrene	15.824	252	186928	9.403	ng	# 96
91) Dibenzo(a,h)anthracene	17.577	278	171280	8.527	ng	99
92) Benzo(g,h,i)perylene	18.059	276	176091	8.331	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011923\
Data File : BF132142.D
Acq On : 19 Jan 2023 12:26
Operator : CG\JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Quant Time: Jan 20 00:10:19 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 20 00:07:35 2023
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011923\
 Data File : BF132143.D
 Acq On : 19 Jan 2023 12:59
 Operator : CG\JU
 Sample : SSTDICC020
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC020

Quant Time: Jan 20 00:10:56 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 00:07:35 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.089	152	177575	20.000	ng	0.00
21) Naphthalene-d8	8.378	136	620425	20.000	ng	0.00
39) Acenaphthene-d10	10.142	164	328550	20.000	ng	0.00
64) Phenanthrene-d10	11.642	188	639965	20.000	ng	0.00
76) Chrysene-d12	14.301	240	367797	20.000	ng	# 0.00
86) Perylene-d12	15.901	264	323952	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.701	112	427429	42.048	ng	0.00
7) Phenol-d6	6.695	99	538343	42.071	ng	0.00
23) Nitrobenzene-d5	7.648	82	475248	40.692	ng	0.00
42) 2,4,6-Tribromophenol	10.936	330	146122	41.637	ng	0.00
45) 2-Fluorobiphenyl	9.454	172	924221	44.024	ng	0.00
79) Terphenyl-d14	13.230	244	937153	42.682	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.019	88	103973	20.189	ng	99
3) Pyridine	3.778	79	283925	20.537	ng	99
4) n-Nitrosodimethylamine	3.725	42	130228	20.029	ng	100
6) Aniline	6.748	93	362992	20.399	ng	99
8) 2-Chlorophenol	6.872	128	228290	21.365	ng	95
9) Benzaldehyde	6.642	77	181394	22.035	ng	97
10) Phenol	6.707	94	280535	21.059	ng	99
11) bis(2-Chloroethyl)ether	6.813	93	235199	20.856	ng	98
12) 1,3-Dichlorobenzene	7.031	146	249749	20.910	ng	99
13) 1,4-Dichlorobenzene	7.107	146	251976	21.142	ng	98
14) 1,2-Dichlorobenzene	7.260	146	235491	21.369	ng	98
15) Benzyl Alcohol	7.219	79	199836	20.142	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.360	45	343951	20.985	ng	99
17) 2-Methylphenol	7.319	107	195986	20.937	ng	98
18) Hexachloroethane	7.607	117	87861	20.537	ng	96
19) n-Nitroso-di-n-propyla...	7.489	70	163582	20.870	ng	99
20) 3+4-Methylphenols	7.472	107	253207	21.467	ng	93
22) Acetophenone	7.495	105	312922	20.984	ng	# 98
24) Nitrobenzene	7.672	77	254536	20.584	ng	94
25) Isophorone	7.907	82	457753	20.032	ng	97
26) 2-Nitrophenol	7.989	139	79652	18.478	ng	92
27) 2,4-Dimethylphenol	8.007	122	200911	20.319	ng	98
28) bis(2-Chloroethoxy)met...	8.113	93	286250	20.878	ng	99
29) 2,4-Dichlorophenol	8.225	162	193959	20.662	ng	96
30) 1,2,4-Trichlorobenzene	8.313	180	220172	20.649	ng	99
31) Naphthalene	8.401	128	666768	20.926	ng	99
32) Benzoic acid	8.084	122	93861	16.170	ng	93
33) 4-Chloroaniline	8.442	127	284387	20.856	ng	95
34) Hexachlorobutadiene	8.513	225	145075	20.254	ng	100
35) Caprolactam	8.795	113	53142	20.000	ng	97
36) 4-Chloro-3-methylphenol	8.907	107	194651	20.605	ng	100
37) 2-Methylnaphthalene	9.089	142	458759	20.912	ng	98
38) 1-Methylnaphthalene	9.195	142	428243	20.980	ng	100
40) 1,2,4,5-Tetrachloroben...	9.254	216	236280	20.670	ng	99
41) Hexachlorocyclopentadiene	9.242	237	112433	18.024	ng	96
43) 2,4,6-Trichlorophenol	9.360	196	146261	20.616	ng	95

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011923\
 Data File : BF132143.D
 Acq On : 19 Jan 2023 12:59
 Operator : CG\JU
 Sample : SSTDICC020
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC020

Quant Time: Jan 20 00:10:56 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 00:07:35 2023
 Response via : Initial Calibration

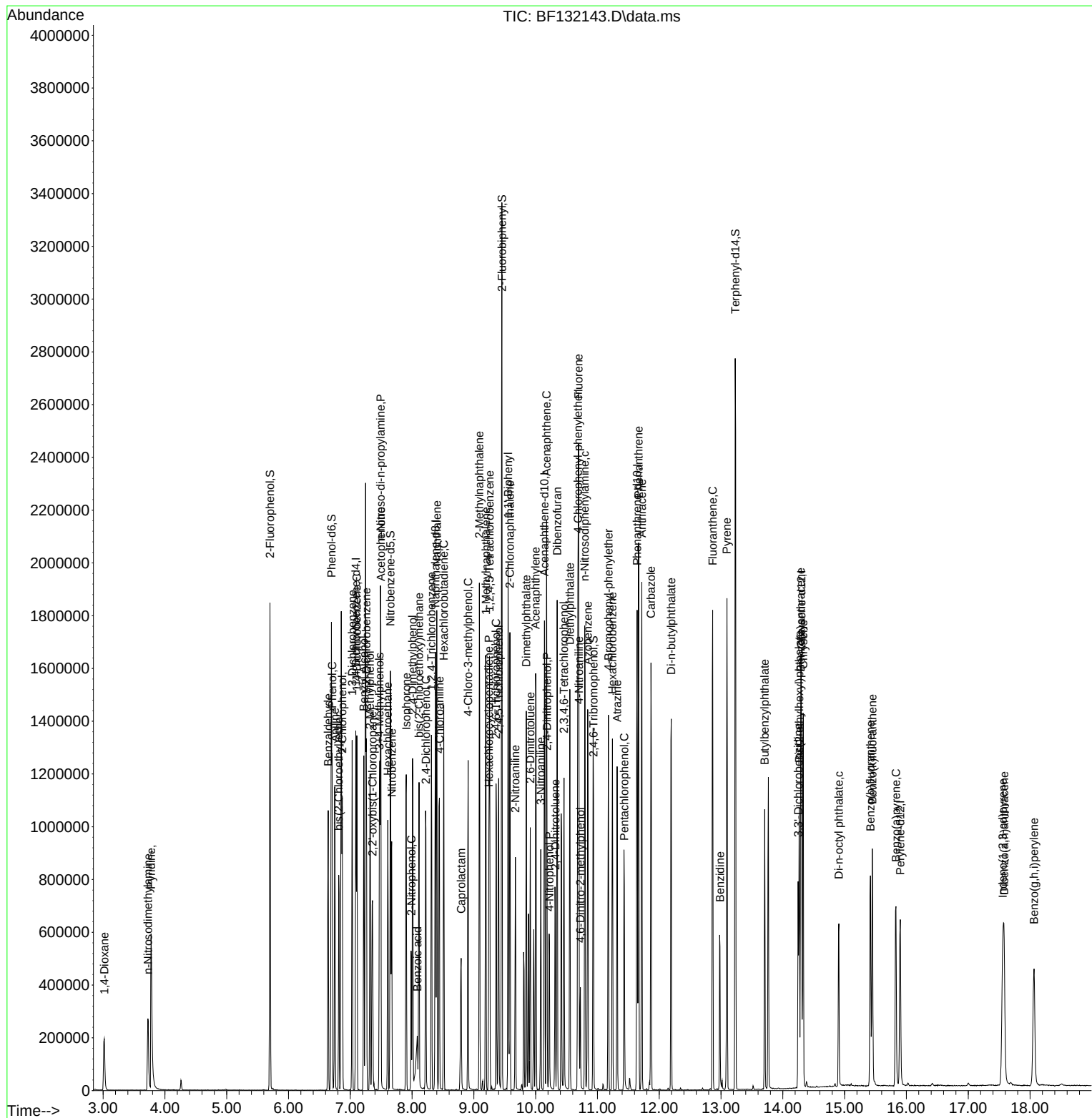
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.401	196	170434	20.541	ng	97
46) 1,1'-Biphenyl	9.554	154	544416	21.003	ng	99
47) 2-Chloronaphthalene	9.583	162	417187	20.821	ng	99
48) 2-Nitroaniline	9.672	65	116311	20.161	ng	97
49) Acenaphthylene	10.001	152	667961	20.838	ng	99
50) Dimethylphthalate	9.848	163	499198	20.979	ng	100
51) 2,6-Dinitrotoluene	9.913	165	93819	20.342	ng	89
52) Acenaphthene	10.177	154	398701	20.679	ng	99
53) 3-Nitroaniline	10.083	138	104344	21.160	ng	99
54) 2,4-Dinitrophenol	10.183	184	31754	17.046	ng	# 1
55) Dibenzofuran	10.348	168	618748	20.766	ng	99
56) 4-Nitrophenol	10.225	139	72500	20.202	ng	95
57) 2,4-Dinitrotoluene	10.319	165	111577	20.154	ng	# 85
58) Fluorene	10.695	166	465243	21.073	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.460	232	131354	20.811	ng	99
60) Diethylphthalate	10.554	149	487809	20.905	ng	100
61) 4-Chlorophenyl-phenyle...	10.683	204	246432	20.845	ng	98
62) 4-Nitroaniline	10.701	138	96209	20.957	ng	92
63) Azobenzene	10.842	77	492240	21.019	ng	97
65) 4,6-Dinitro-2-methylph...	10.725	198	45820	16.514	ng	96
66) n-Nitrosodiphenylamine	10.795	169	419303	20.458	ng	99
67) 4-Bromophenyl-phenylether	11.177	248	158088	20.266	ng	95
68) Hexachlorobenzene	11.242	284	155701	20.084	ng	95
69) Atrazine	11.319	200	130188	20.588	ng	99
70) Pentachlorophenol	11.436	266	99527	19.978	ng	96
71) Phenanthrene	11.666	178	693158	20.639	ng	99
72) Anthracene	11.719	178	706624	20.798	ng	99
73) Carbazole	11.866	167	609049	20.986	ng	98
74) Di-n-butylphthalate	12.195	149	685370	21.214	ng	99
75) Fluoranthene	12.866	202	718725	20.834	ng	98
77) Benzidine	12.983	184	226247	20.488	ng	99
78) Pyrene	13.095	202	721378	21.282	ng	99
80) Butylbenzylphthalate	13.707	149	196673	20.022	ng	94
81) Benzo(a)anthracene	14.289	228	531948	20.245	ng	98
82) 3,3'-Dichlorobenzidine	14.248	252	148391	20.279	ng	95
83) Chrysene	14.330	228	496952	19.870	ng	100
84) Bis(2-ethylhexyl)phtha...	14.265	149	254101	19.590	ng	99
85) Di-n-octyl phthalate	14.907	149	300157	15.074	ng	99
87) Indeno(1,2,3-cd)pyrene	17.559	276	473348	20.135	ng	99
88) Benzo(b)fluoranthene	15.418	252	382655	19.400	ng	99
89) Benzo(k)fluoranthene	15.448	252	422247	20.990	ng	99
90) Benzo(a)pyrene	15.830	252	374919	19.760	ng	99
91) Dibenzo(a,h)anthracene	17.583	278	393739	20.537	ng	100
92) Benzo(g,h,i)perylene	18.065	276	410458	20.346	ng	98

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

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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011923\  
Data File : BF132143.D  
Acq On    : 19 Jan 2023  12:59  
Operator  : CG\JU  
Sample    : SSTDICC020  
Misc      :  
ALS Vial  : 5    Sample Multiplier: 1
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Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Jan 20 00:10:56 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 20 00:07:35 2023
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011923\
 Data File : BF132144.D
 Acq On : 19 Jan 2023 13:32
 Operator : CG\JU
 Sample : SSTDICCC040
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICCC040

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 01/20/2023
 Supervised By : Jagrut Upadhyay 01/20/2023

Quant Time: Jan 20 00:11:34 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 00:07:35 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.089	152	169947	20.000	ng	0.00
21) Naphthalene-d8	8.378	136	574298	20.000	ng	0.00
39) Acenaphthene-d10	10.142	164	299783	20.000	ng	0.00
64) Phenanthrene-d10	11.642	188	571110	20.000	ng	0.00
76) Chrysene-d12	14.307	240	311669	20.000	ng	0.00
86) Perylene-d12	15.901	264	321403	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.707	112	758471	77.963	ng	0.00
7) Phenol-d6	6.701	99	954609	77.950	ng	0.00
23) Nitrobenzene-d5	7.654	82	880688	81.464	ng	0.00
42) 2,4,6-Tribromophenol	10.936	330	265316	82.856	ng	0.00
45) 2-Fluorobiphenyl	9.454	172	1498425	78.225	ng	0.00
79) Terphenyl-d14	13.236	244	1442323	77.520	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.019	88	196981	39.966	ng	100
3) Pyridine	3.778	79	532677	40.260	ng	100
4) n-Nitrosodimethylamine	3.737	42	248242	39.894	ng	100
6) Aniline	6.754	93	658318	38.655	ng	100
8) 2-Chlorophenol	6.872	128	402247	39.335	ng	100
9) Benzaldehyde	6.642	77	306944	38.959	ng	100
10) Phenol	6.713	94	498859	39.129	ng	100
11) bis(2-Chloroethyl)ether	6.819	93	420156	38.930	ng	100
12) 1,3-Dichlorobenzene	7.031	146	446086	39.024	ng	100
13) 1,4-Dichlorobenzene	7.107	146	446695	39.162	ng	100
14) 1,2-Dichlorobenzene	7.266	146	407798	38.665	ng	100
15) Benzyl Alcohol	7.225	79	375920	39.591	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.360	45	617002	39.334	ng	100
17) 2-Methylphenol	7.325	107	354140	39.530	ng	100
18) Hexachloroethane	7.607	117	166087	40.564	ng	100
19) n-Nitroso-di-n-propyla...	7.495	70	287772	38.362	ng	100
20) 3+4-Methylphenols	7.484	107	447769	39.665	ng	100
22) Acetophenone	7.501	105	530480	38.431	ng	100
24) Nitrobenzene	7.672	77	466421	40.748	ng	100
25) Isophorone	7.907	82	825701	39.035	ng	100
26) 2-Nitrophenol	7.989	139	169914	42.583	ng	100
27) 2,4-Dimethylphenol	8.013	122	369954	40.420	ng	100
28) bis(2-Chloroethoxy)met...	8.119	93	494081	38.931	ng	100
29) 2,4-Dichlorophenol	8.225	162	354739	40.824	ng	100
30) 1,2,4-Trichlorobenzene	8.319	180	388596	39.372	ng	100
31) Naphthalene	8.401	128	1146683	38.878	ng	100
32) Benzoic acid	8.113	122	215433	40.096	ng	100
33) 4-Chloroaniline	8.442	127	501389	39.724	ng	100
34) Hexachlorobutadiene	8.513	225	260748	39.327	ng	100
35) Caprolactam	8.813	113	103837	42.217	ng	100
36) 4-Chloro-3-methylphenol	8.913	107	354572	40.548	ng	100
37) 2-Methylnaphthalene	9.095	142	785673	38.690	ng	100
38) 1-Methylnaphthalene	9.195	142	732441	38.764	ng	100
40) 1,2,4,5-Tetrachloroben...	9.260	216	410056	39.314	ng	100
41) Hexachlorocyclopentadiene	9.248	237	234059	41.122	ng	100
43) 2,4,6-Trichlorophenol	9.366	196	268487	41.476	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011923\
 Data File : BF132144.D
 Acq On : 19 Jan 2023 13:32
 Operator : CG\JU
 Sample : SSTDICCC040
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICCC040

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 01/20/2023
 Supervised By : Jagrut Upadhyay 01/20/2023

Quant Time: Jan 20 00:11:34 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 00:07:35 2023
 Response via : Initial Calibration

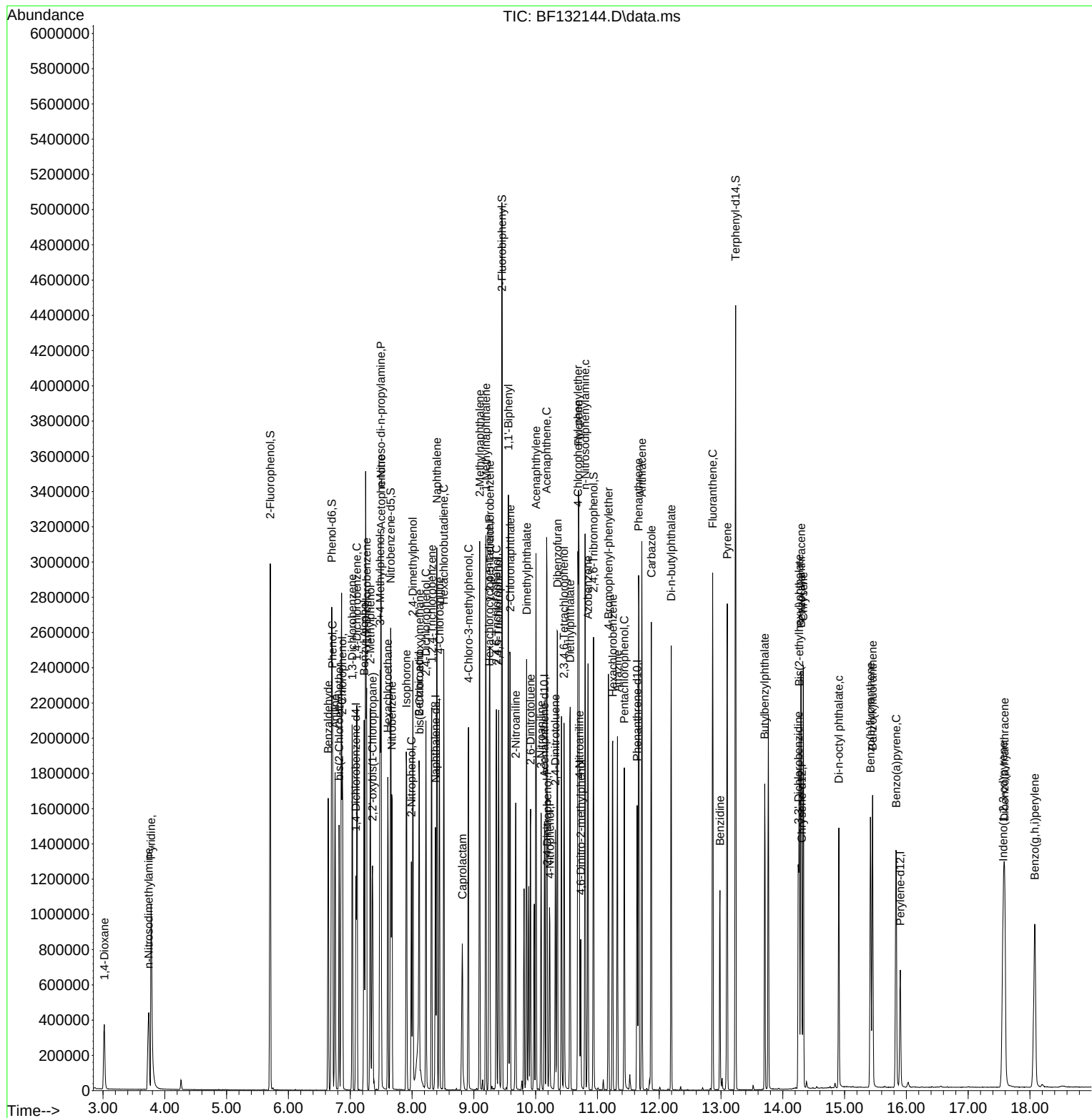
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.401	196	313420	41.399	ng	100
46) 1,1'-Biphenyl	9.560	154	921691	38.971	ng	100
47) 2-Chloronaphthalene	9.589	162	716342	39.181	ng	100
48) 2-Nitroaniline	9.678	65	228133	43.338	ng	100
49) Acenaphthylene	10.007	152	1146101	39.186	ng	100
50) Dimethylphthalate	9.854	163	860394	39.627	ng	100
51) 2,6-Dinitrotoluene	9.919	165	180288	42.841	ng	100
52) Acenaphthene	10.178	154	684074	38.885	ng	100
53) 3-Nitroaniline	10.089	138	192978	42.890	ng	100
54) 2,4-Dinitrophenol	10.189	184	66408	39.070	ng	100
55) Dibenzofuran	10.354	168	1061594	39.048	ng	100
56) 4-Nitrophenol	10.230	139	138964	42.437	ng	100
57) 2,4-Dinitrotoluene	10.319	165	212688	42.104	ng	100
58) Fluorene	10.695	166	768665	38.157	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.460	232	243020	42.198	ng	100
60) Diethylphthalate	10.560	149	853449	40.084	ng	100
61) 4-Chlorophenyl-phenyle...	10.683	204	422248	39.143	ng	100
62) 4-Nitroaniline	10.707	138	168856	40.310	ng	100
63) Azobenzene	10.848	77	839858	39.303	ng	100
65) 4,6-Dinitro-2-methylph...	10.730	198	96569	39.000	ng	100
66) n-Nitrosodiphenylamine	10.801	169	701625	38.360	ng	100
67) 4-Bromophenyl-phenylether	11.177	248	270734	38.892	ng	100
68) Hexachlorobenzene	11.248	284	268855	38.861	ng	100
69) Atrazine	11.325	200	225347	39.933	ng	100
70) Pentachlorophenol	11.436	266	185189	41.654	ng	100
71) Phenanthrene	11.666	178	1139286	38.013	ng	100
72) Anthracene	11.719	178	1150507	37.945	ng	100
73) Carbazole	11.872	167	988127	38.153	ng	100
74) Di-n-butylphthalate	12.195	149	1131265	39.237	ng	100
75) Fluoranthene	12.866	202	1151764	37.412	ng	100
77) Benzidine	12.983	184	425104	45.428	ng	100
78) Pyrene	13.101	202	1151402	40.086	ng	100
80) Butylbenzylphthalate	13.707	149	362674	43.571	ng	100
81) Benzo(a)anthracene	14.295	228	874477	39.275	ng	100
82) 3,3'-Dichlorobenzidine	14.254	252	263165	42.440	ng	100
83) Chrysene	14.330	228	829789	39.153	ng	100
84) Bis(2-ethylhexyl)phtha...	14.265	149	478672	43.550	ng	100
85) Di-n-octyl phthalate	14.907	149	681099	40.365	ng	100
87) Indeno(1,2,3-cd)pyrene	17.565	276	1014980	43.516	ng	100
88) Benzo(b)fluoranthene	15.418	252	790849	40.413	ng	100
89) Benzo(k)fluoranthene	15.454	252	778274	38.996	ng	100
90) Benzo(a)pyrene	15.836	252	768300	40.813	ng	100
91) Dibenzo(a,h)anthracene	17.589	278	831784	43.729	ng	100
92) Benzo(g,h,i)perylene	18.077	276	870045	43.468	ng	100

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

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Christian Giraldo 01/20/2023
Supervised By :Jaqrut Upadhyay 01/20/2023



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011923\
 Data File : BF132145.D
 Acq On : 19 Jan 2023 14:05
 Operator : CG\JU
 Sample : SSTDICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC050

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 01/20/2023
 Supervised By : Jagrut Upadhyay 01/20/2023

Quant Time: Jan 20 00:12:12 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 00:07:35 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.089	152	177180	20.000	ng	0.00
21) Naphthalene-d8	8.378	136	595908	20.000	ng	0.00
39) Acenaphthene-d10	10.148	164	310298	20.000	ng	0.00
64) Phenanthrene-d10	11.642	188	585882	20.000	ng	0.00
76) Chrysene-d12	14.307	240	311022	20.000	ng	0.00
86) Perylene-d12	15.901	264	346490	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.707	112	941792	92.855	ng	0.00
7) Phenol-d6	6.707	99	1174162	91.963	ng	0.00
23) Nitrobenzene-d5	7.660	82	1105681	98.568	ng	0.00
42) 2,4,6-Tribromophenol	10.942	330	336280	101.459	ng	0.00
45) 2-Fluorobiphenyl	9.460	172	1802173	90.894	ng	0.00
79) Terphenyl-d14	13.236	244	1735431	93.467	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.013	88	244783	47.637	ng	99
3) Pyridine	3.778	79	662788	48.048	ng	99
4) n-Nitrosodimethylamine	3.743	42	320636	49.424	ng	98
6) Aniline	6.760	93	826125	46.528	ng	99
8) 2-Chlorophenol	6.878	128	500010	46.899	ng	96
9) Benzaldehyde	6.648	77	360380	43.875	ng	97
10) Phenol	6.719	94	609126	45.828	ng	99
11) bis(2-Chloroethyl)ether	6.825	93	521642	46.360	ng	99
12) 1,3-Dichlorobenzene	7.037	146	549927	46.144	ng	98
13) 1,4-Dichlorobenzene	7.113	146	548549	46.128	ng	98
14) 1,2-Dichlorobenzene	7.266	146	499841	45.457	ng	98
15) Benzyl Alcohol	7.225	79	482950m	48.786	ng	
16) 2,2'-oxybis(1-Chloropr...	7.360	45	766802	46.888	ng	99
17) 2-Methylphenol	7.325	107	438415	46.939	ng	98
18) Hexachloroethane	7.607	117	206517	48.379	ng	99
19) n-Nitroso-di-n-propyla...	7.501	70	353160	45.157	ng	98
20) 3+4-Methylphenols	7.484	107	547088	46.485	ng	97
22) Acetophenone	7.501	105	641650	44.799	ng	97
24) Nitrobenzene	7.678	77	577756	48.645	ng	97
25) Isophorone	7.913	82	1058764	48.238	ng	99
26) 2-Nitrophenol	7.989	139	229233	55.366	ng	95
27) 2,4-Dimethylphenol	8.019	122	459142	48.345	ng	99
28) bis(2-Chloroethoxy)met...	8.119	93	606059	46.022	ng	100
29) 2,4-Dichlorophenol	8.231	162	438374	48.619	ng	98
30) 1,2,4-Trichlorobenzene	8.319	180	476787	46.556	ng	99
31) Naphthalene	8.401	128	1402749	45.835	ng	99
32) Benzoic acid	8.125	122	297419m	53.348	ng	
33) 4-Chloroaniline	8.442	127	613040	46.808	ng	99
34) Hexachlorobutadiene	8.513	225	327490	47.602	ng	99
35) Caprolactam	8.825	113	133328	52.242	ng	95
36) 4-Chloro-3-methylphenol	8.913	107	454054	50.041	ng	96
37) 2-Methylnaphthalene	9.095	142	957373	45.435	ng	99
38) 1-Methylnaphthalene	9.195	142	892550	45.525	ng	98
40) 1,2,4,5-Tetrachloroben...	9.260	216	497324	46.064	ng	99
41) Hexachlorocyclopentadiene	9.248	237	301713	51.212	ng	99
43) 2,4,6-Trichlorophenol	9.366	196	339356	50.648	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011923\
 Data File : BF132145.D
 Acq On : 19 Jan 2023 14:05
 Operator : CG\JU
 Sample : SSTDICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC050

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 01/20/2023
 Supervised By : Jagrut Upadhyay 01/20/2023

Quant Time: Jan 20 00:12:12 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 00:07:35 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.401	196	391297	49.934	ng	97
46) 1,1'-Biphenyl	9.560	154	1124635	45.940	ng	99
47) 2-Chloronaphthalene	9.589	162	877513	46.370	ng	97
48) 2-Nitroaniline	9.678	65	303436	55.690	ng	97
49) Acenaphthylene	10.007	152	1423101	47.008	ng	99
50) Dimethylphthalate	9.860	163	1061697	47.242	ng	99
51) 2,6-Dinitrotoluene	9.919	165	232348	53.340	ng	88
52) Acenaphthene	10.183	154	841514	46.213	ng	99
53) 3-Nitroaniline	10.095	138	247567	53.158	ng	96
54) 2,4-Dinitrophenol	10.189	184	96577	54.894	ng	# 33
55) Dibenzofuran	10.354	168	1312755	46.650	ng	98
56) 4-Nitrophenol	10.230	139	187684	55.373	ng	90
57) 2,4-Dinitrotoluene	10.325	165	288781	55.230	ng	95
58) Fluorene	10.701	166	945267	45.333	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.466	232	305023	51.170	ng	99
60) Diethylphthalate	10.560	149	1077388	48.887	ng	99
61) 4-Chlorophenyl-phenyle...	10.683	204	515105	46.133	ng	97
62) 4-Nitroaniline	10.713	138	224981	51.889	ng	100
63) Azobenzene	10.848	77	1046552	47.316	ng	97
65) 4,6-Dinitro-2-methylph...	10.736	198	137036	53.948	ng	90
66) n-Nitrosodiphenylamine	10.807	169	875788	46.675	ng	99
67) 4-Bromophenyl-phenylether	11.183	248	336414	47.108	ng	92
68) Hexachlorobenzene	11.248	284	335056	47.208	ng	96
69) Atrazine	11.324	200	277856	47.996	ng	98
70) Pentachlorophenol	11.436	266	243980	53.494	ng	99
71) Phenanthrene	11.672	178	1406598	45.749	ng	99
72) Anthracene	11.724	178	1413425	45.441	ng	100
73) Carbazole	11.871	167	1214908	45.726	ng	100
74) Di-n-butylphthalate	12.195	149	1431340	48.393	ng	99
75) Fluoranthene	12.866	202	1433519	45.390	ng	100
77) Benzidine	12.983	184	442327	47.367	ng	99
78) Pyrene	13.101	202	1414860	49.360	ng	99
80) Butylbenzylphthalate	13.707	149	464683	55.942	ng	99
81) Benzo(a)anthracene	14.295	228	1090452	49.077	ng	100
82) 3,3'-Dichlorobenzidine	14.254	252	324871	52.500	ng	99
83) Chrysene	14.330	228	1018676	48.165	ng	99
84) Bis(2-ethylhexyl)phtha...	14.265	149	612928	55.881	ng	100
85) Di-n-octyl phthalate	14.907	149	923139	54.824	ng	99
87) Indeno(1,2,3-cd)pyrene	17.571	276	1347579	53.593	ng	100
88) Benzo(b)fluoranthene	15.418	252	1008597	47.809	ng	100
89) Benzo(k)fluoranthene	15.454	252	1002201	46.580	ng	98
90) Benzo(a)pyrene	15.836	252	1011307	49.832	ng	99
91) Dibenzo(a,h)anthracene	17.595	278	1082263	52.778	ng	98
92) Benzo(g,h,i)perylene	18.089	276	1150332	53.311	ng	99

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

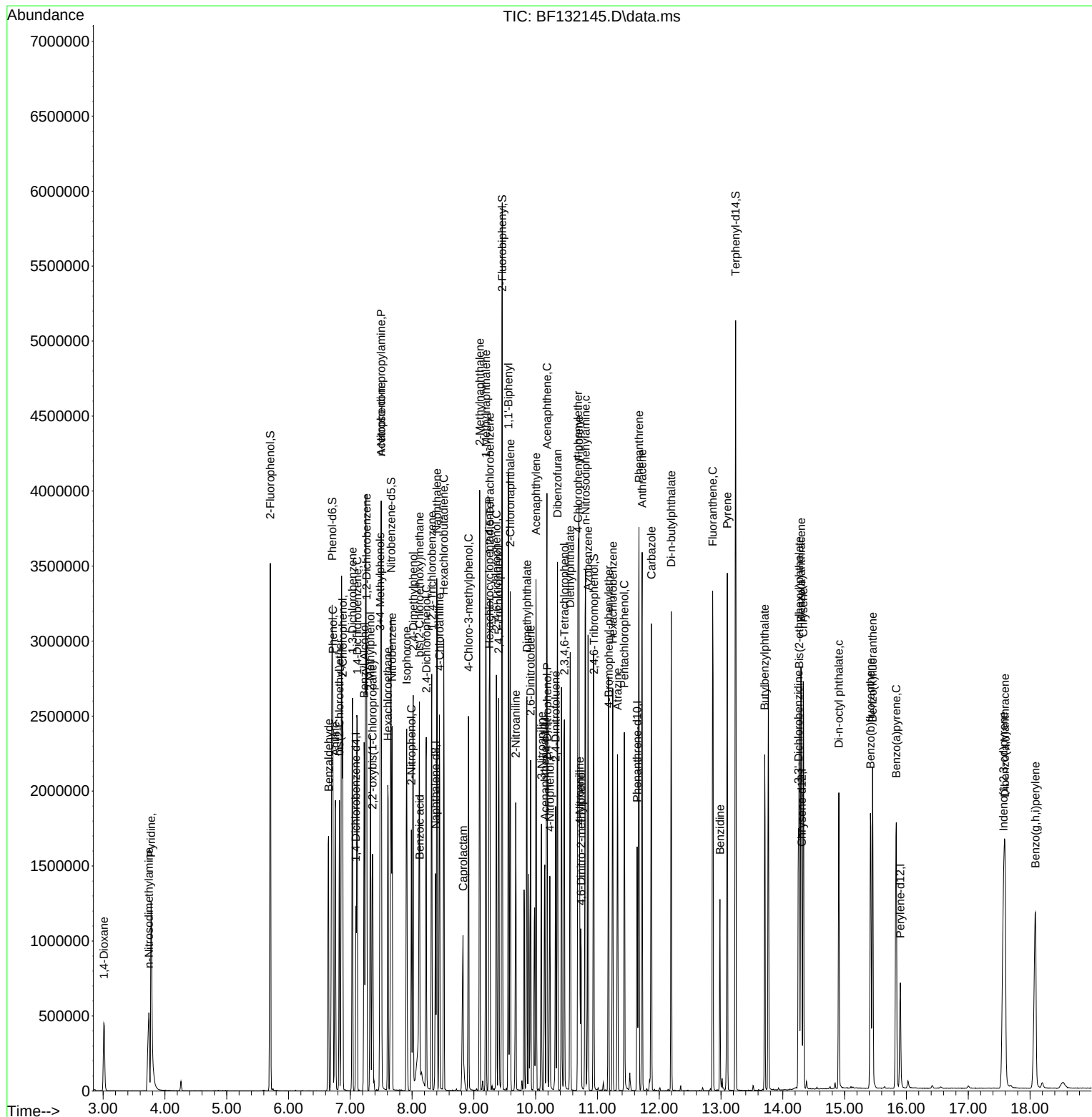
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011923\  
Data File : BF132145.D  
Acq On    : 19 Jan 2023  14:05  
Operator  : CG\JU  
Sample    : SSTDICC050  
Misc      :  
ALS Vial  : 7   Sample Multiplier: 1
```

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Christian Giraldo 01/20/2023
Supervised By :Jaqrut Upadhyay 01/20/2023

Quant Time: Jan 20 00:12:12 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 20 00:07:35 2023
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011923\
 Data File : BF132146.D
 Acq On : 19 Jan 2023 14:38
 Operator : CG\JU
 Sample : SSTDICC060
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC060

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 01/20/2023
 Supervised By : Jagrut Upadhyay 01/20/2023

Quant Time: Jan 20 00:12:53 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 00:07:35 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.096	152	164101	20.000	ng	0.00
21) Naphthalene-d8	8.384	136	543258	20.000	ng	0.00
39) Acenaphthene-d10	10.148	164	277026	20.000	ng	0.00
64) Phenanthrene-d10	11.642	188	485801	20.000	ng	0.00
76) Chrysene-d12	14.307	240	261239	20.000	ng	0.00
86) Perylene-d12	15.901	264	324061	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.713	112	1059992	112.838	ng	0.00
7) Phenol-d6	6.707	99	1331098	112.564	ng	0.00
23) Nitrobenzene-d5	7.660	82	1263977	123.599	ng	0.00
42) 2,4,6-Tribromophenol	10.942	330	364523	123.189	ng	0.00
45) 2-Fluorobiphenyl	9.460	172	1988942	112.362	ng	0.00
79) Terphenyl-d14	13.236	244	1766851	113.293	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.037	88	283102	59.486	ng	99
3) Pyridine	3.790	79	765012	59.879	ng	98
4) n-Nitrosodimethylamine	3.766	42	374475	62.324	ng	100
6) Aniline	6.760	93	954832m	58.063	ng	
8) 2-Chlorophenol	6.878	128	559128	56.624	ng	98
9) Benzaldehyde	6.643	77	399508	52.515	ng	97
10) Phenol	6.725	94	693090	56.300	ng	99
11) bis(2-Chloroethyl)ether	6.825	93	600050	57.578	ng	100
12) 1,3-Dichlorobenzene	7.037	146	624541	56.582	ng	98
13) 1,4-Dichlorobenzene	7.113	146	623474	56.608	ng	97
14) 1,2-Dichlorobenzene	7.266	146	558505	54.840	ng	97
15) Benzyl Alcohol	7.231	79	543905m	59.323	ng	
16) 2,2'-oxybis(1-Chloropr...	7.360	45	858154	56.657	ng	100
17) 2-Methylphenol	7.331	107	501889	58.018	ng	97
18) Hexachloroethane	7.607	117	238869	60.417	ng	98
19) n-Nitroso-di-n-propyla...	7.507	70	400734	55.324	ng	96
20) 3+4-Methylphenols	7.490	107	619283	56.813	ng	95
22) Acetophenone	7.501	105	719773	55.124	ng	96
24) Nitrobenzene	7.678	77	661651	61.107	ng	100
25) Isophorone	7.913	82	1204344	60.189	ng	98
27) 2,4-Dimethylphenol	8.019	122	509668	58.866	ng	98
28) bis(2-Chloroethoxy)met...	8.119	93	685428	57.094	ng	100
29) 2,4-Dichlorophenol	8.231	162	497669	60.545	ng	99
30) 1,2,4-Trichlorobenzene	8.319	180	533946	57.190	ng	99
31) Naphthalene	8.407	128	1573333	56.391	ng	99
32) Benzoic acid	8.131	122	372112	73.214	ng	92
33) 4-Chloroaniline	8.448	127	668392	55.981	ng	98
34) Hexachlorobutadiene	8.513	225	374047	59.639	ng	99
35) Caprolactam	8.831	113	146867	63.124	ng	97
36) 4-Chloro-3-methylphenol	8.919	107	492144	59.496	ng	98
37) 2-Methylnaphthalene	9.095	142	1067083	55.550	ng	99
38) 1-Methylnaphthalene	9.195	142	992206	55.513	ng	98
40) 1,2,4,5-Tetrachloroben...	9.260	216	554629	57.542	ng	100
41) Hexachlorocyclopentadiene	9.248	237	350854	66.706	ng	98
43) 2,4,6-Trichlorophenol	9.366	196	374625	62.627	ng	98
44) 2,4,5-Trichlorophenol	9.401	196	435398	62.235	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011923\
 Data File : BF132146.D
 Acq On : 19 Jan 2023 14:38
 Operator : CG\JU
 Sample : SSTDICC060
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC060

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 01/20/2023
 Supervised By : Jagrut Upadhyay 01/20/2023

Quant Time: Jan 20 00:12:53 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 00:07:35 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) 1,1'-Biphenyl	9.560	154	1238119	56.650	ng	100
47) 2-Chloronaphthalene	9.589	162	969983	57.413	ng	97
48) 2-Nitroaniline	9.678	65	336394	69.154	ng	94
49) Acenaphthylene	10.007	152	1538399	56.920	ng	100
50) Dimethylphthalate	9.860	163	1159801	57.805	ng	99
51) 2,6-Dinitrotoluene	9.919	165	254927	65.553	ng	# 86
52) Acenaphthene	10.184	154	933128	57.399	ng	98
53) 3-Nitroaniline	10.095	138	254855	61.295	ng	99
54) 2,4-Dinitrophenol	10.195	184	109113	69.468	ng	# 46
55) Dibenzofuran	10.354	168	1418239	56.451	ng	96
56) 4-Nitrophenol	10.231	139	198311	65.536	ng	88
57) 2,4-Dinitrotoluene	10.325	165	314857	67.450	ng	97
58) Fluorene	10.701	166	1014678	54.506	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.466	232	331979	62.381	ng	99
60) Diethylphthalate	10.560	149	1131757	57.521	ng	100
61) 4-Chlorophenyl-phenyle...	10.684	204	559503	56.128	ng	97
62) 4-Nitroaniline	10.713	138	234838	60.667	ng	96
63) Azobenzene	10.848	77	1125601	57.002	ng	97
65) 4,6-Dinitro-2-methylph...	10.736	198	149779	71.112	ng	96
66) n-Nitrosodiphenylamine	10.807	169	915576	58.848	ng	99
67) 4-Bromophenyl-phenylether	11.183	248	355646	60.061	ng	94
68) Hexachlorobenzene	11.248	284	353336	60.040	ng	94
69) Atrazine	11.325	200	288287	60.057	ng	99
70) Pentachlorophenol	11.436	266	254300	67.243	ng	98
71) Phenanthrene	11.672	178	1461486	57.327	ng	99
72) Anthracene	11.725	178	1465755	56.831	ng	99
73) Carbazole	11.872	167	1241858	56.370	ng	100
74) Di-n-butylphthalate	12.195	149	1458925	59.487	ng	99
75) Fluoranthene	12.866	202	1459641	55.738	ng	99
77) Benzidine	12.983	184	449922	57.362	ng	98
78) Pyrene	13.101	202	1436571	59.668	ng	99
80) Butylbenzylphthalate	13.707	149	489360	70.140	ng	98
81) Benzo(a)anthracene	14.295	228	1152856	61.773	ng	99
82) 3,3'-Dichlorobenzidine	14.254	252	357350	68.754	ng	99
83) Chrysene	14.336	228	1081540	60.882	ng	99
84) Bis(2-ethylhexyl)phtha...	14.266	149	659424	71.576	ng	99
85) Di-n-octyl phthalate	14.907	149	1066128	75.381	ng	100
87) Indeno(1,2,3-cd)pyrene	17.571	276	1615101	68.678	ng	99
88) Benzo(b)fluoranthene	15.424	252	1178524	59.730	ng	99
89) Benzo(k)fluoranthene	15.454	252	1174837	58.383	ng	99
90) Benzo(a)pyrene	15.836	252	1208530	63.672	ng	99
91) Dibenzo(a,h)anthracene	17.595	278	1286113	67.060	ng	99
92) Benzo(g,h,i)perylene	18.089	276	1382605	68.510	ng	99

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

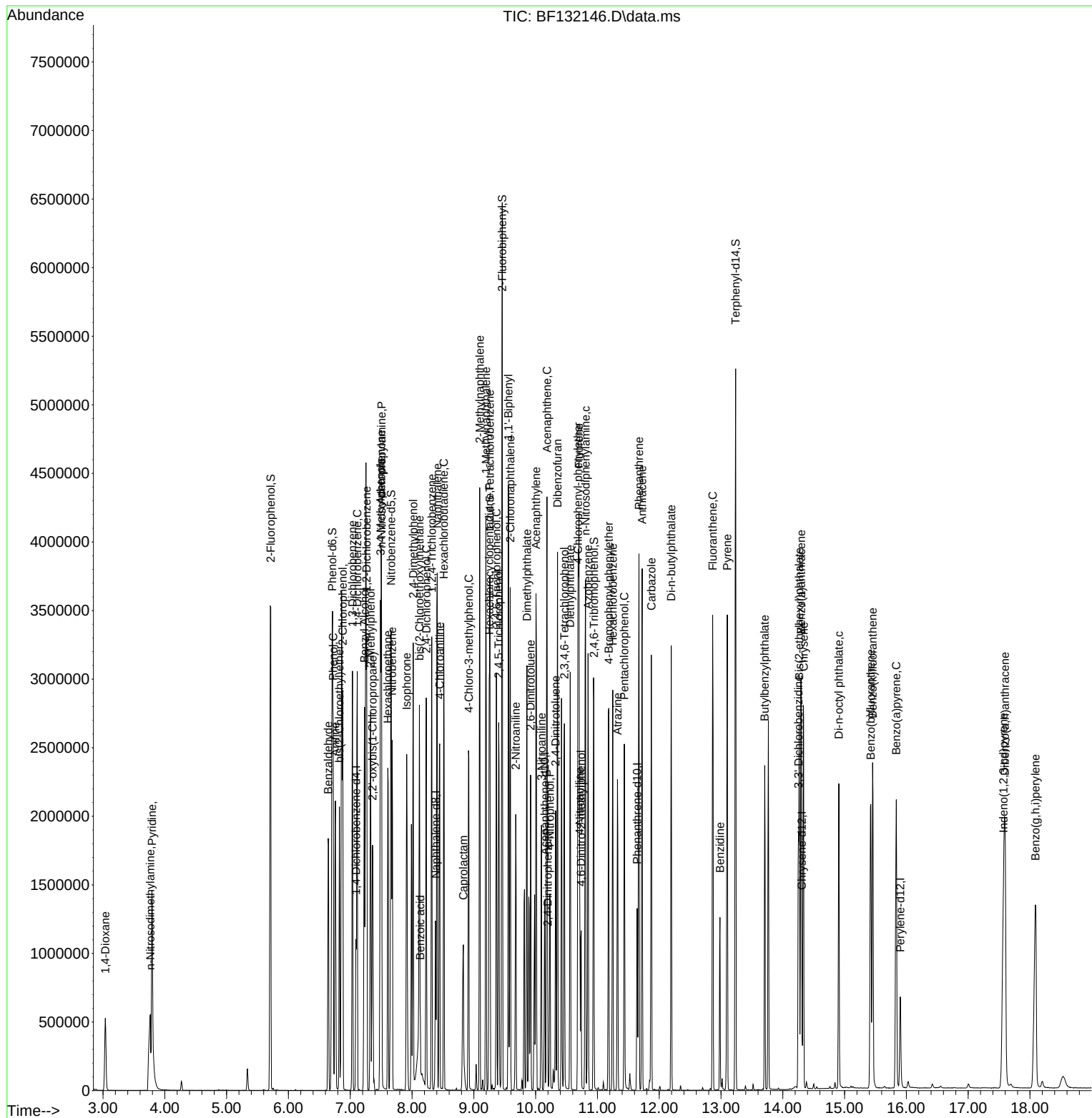
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011923\  
Data File : BF132146.D  
Acq On    : 19 Jan 2023  14:38  
Operator  : CG\JU  
Sample    : SSTDICC060  
Misc      :  
ALS Vial  : 8    Sample Multiplier: 1
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Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Christian Giraldo 01/20/2023
Supervised By :Jagrut Upadhyay 01/20/2023

Quant Time: Jan 20 00:12:53 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 20 00:07:35 2023
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011923\
 Data File : BF132147.D
 Acq On : 19 Jan 2023 15:11
 Operator : CG\JU
 Sample : SSTDICC080
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

Manual Integrations

APPROVED

Reviewed By : Christian Giraldo 01/20/2023
 Supervised By : Jagrut Upadhyay 01/20/2023

Quant Time: Jan 20 00:13:30 2023

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Jan 20 00:07:35 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.096	152	168961	20.000	ng	0.00
21) Naphthalene-d8	8.384	136	540711	20.000	ng	0.00
39) Acenaphthene-d10	10.148	164	272617	20.000	ng	0.00
64) Phenanthrene-d10	11.642	188	471595	20.000	ng	0.00
76) Chrysene-d12	14.307	240	273781	20.000	ng	0.00
86) Perylene-d12	15.907	264	342038	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.713	112	1363259	140.947	ng	0.00
7) Phenol-d6	6.713	99	1695017	139.216	ng	0.01
23) Nitrobenzene-d5	7.666	82	1647214	161.833	ng	0.01
42) 2,4,6-Tribromophenol	10.942	330	461956	158.641	ng	0.00
45) 2-Fluorobiphenyl	0.000	172	0d	0.000	ng	
79) Terphenyl-d14	13.242	244	2205569	134.946	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.037	88	373432	76.209	ng	99
3) Pyridine	3.796	79	1000583	76.065	ng	99
4) n-Nitrosodimethylamine	3.772	42	501503	81.065	ng	96
6) Aniline	6.766	93	1255287m	74.138	ng	
8) 2-Chlorophenol	6.884	128	698627	68.717	ng	95
10) Phenol	6.731	94	880657	69.479	ng	98
11) bis(2-Chloroethyl)ether	6.831	93	764597	71.257	ng	99
12) 1,3-Dichlorobenzene	7.037	146	793257	69.800	ng	98
13) 1,4-Dichlorobenzene	7.113	146	786058	69.316	ng	98
14) 1,2-Dichlorobenzene	7.272	146	685248	65.350	ng	98
15) Benzyl Alcohol	7.231	79	716458m	75.895	ng	
16) 2,2'-oxybis(1-Chloropr...	7.366	45	1092829	70.075	ng	98
17) 2-Methylphenol	7.331	107	645724	72.498	ng	98
18) Hexachloroethane	7.613	117	303340	74.517	ng	91
19) n-Nitroso-di-n-propyla...	7.513	70	524239	70.293	ng	97
20) 3+4-Methylphenols	7.495	107	756246	67.382	ng	# 87
22) Acetophenone	7.507	105	907280	69.811	ng	96
24) Nitrobenzene	7.684	77	846567	78.554	ng	98
25) Isophorone	7.919	82	1606965	80.689	ng	99
27) 2,4-Dimethylphenol	8.025	122	649440	75.362	ng	97
28) bis(2-Chloroethoxy)met...	8.125	93	878164	73.492	ng	99
29) 2,4-Dichlorophenol	8.237	162	639612	78.180	ng	98
30) 1,2,4-Trichlorobenzene	8.319	180	684460	73.657	ng	98
31) Naphthalene	8.407	128	1961170	70.623	ng	99
32) Benzoic acid	8.154	122	507604	100.343	ng	92
33) 4-Chloroaniline	8.448	127	844274	71.044	ng	99
34) Hexachlorobutadiene	8.519	225	475647	76.195	ng	99
35) Caprolactam	8.842	113	192010	82.915	ng	98
36) 4-Chloro-3-methylphenol	8.919	107	645563	78.410	ng	95
37) 2-Methylnaphthalene	9.095	142	1338305	69.998	ng	100
38) 1-Methylnaphthalene	9.201	142	1248378	70.174	ng	98
40) 1,2,4,5-Tetrachloroben...	9.260	216	690929	72.843	ng	99
41) Hexachlorocyclopentadiene	9.248	237	467005	90.225	ng	98
43) 2,4,6-Trichlorophenol	9.366	196	475486	80.773	ng	98
44) 2,4,5-Trichlorophenol	9.407	196	549090	79.755	ng	97
46) 1,1'-Biphenyl	9.566	154	1513966	70.392	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011923\
 Data File : BF132147.D
 Acq On : 19 Jan 2023 15:11
 Operator : CG\JU
 Sample : SSTDICC080
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC080

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 01/20/2023
 Supervised By : Jagrut Upadhyay 01/20/2023

Quant Time: Jan 20 00:13:30 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 00:07:35 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) 2-Chloronaphthalene	9.595	162	1209948	72.774	ng	98
48) 2-Nitroaniline	9.684	65	430334	89.897	ng	97
49) Acenaphthylene	10.013	152	1930720	72.591	ng	99
50) Dimethylphthalate	9.866	163	1459554	73.922	ng	99
51) 2,6-Dinitrotoluene	9.925	165	322657	84.311	ng	88
52) Acenaphthene	10.184	154	1166439	72.911	ng	99
53) 3-Nitroaniline	10.101	138	317239	77.533	ng	95
55) Dibenzofuran	10.354	168	1738505	70.318	ng	93
56) 4-Nitrophenol	10.236	139	254033	85.308	ng	86
57) 2,4-Dinitrotoluene	10.331	165	399599	86.988	ng	93
58) Fluorene	10.701	166	1251479	68.314	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.466	232	416329	79.496	ng	99
60) Diethylphthalate	10.566	149	1413313	72.993	ng	99
61) 4-Chlorophenyl-phenyle...	10.689	204	681650	69.487	ng	99
62) 4-Nitroaniline	10.719	138	300676	78.932	ng	96
63) Azobenzene	10.848	77	1382602	71.149	ng	95
65) 4,6-Dinitro-2-methylph...	10.742	198	206528	101.009	ng	92
66) n-Nitrosodiphenylamine	10.807	169	1134402	75.109	ng	100
67) 4-Bromophenyl-phenylether	11.184	248	445768	77.548	ng	97
68) Hexachlorobenzene	11.248	284	447376	78.309	ng	# 91
69) Atrazine	11.331	200	358442	76.921	ng	100
70) Pentachlorophenol	11.442	266	325031	88.535	ng	99
71) Phenanthrene	11.672	178	1770533	71.541	ng	99
72) Anthracene	11.725	178	1803269	72.024	ng	100
73) Carbazole	11.878	167	1523393	71.232	ng	99
74) Di-n-butylphthalate	12.195	149	1802008	75.690	ng	99
75) Fluoranthene	12.872	202	1789458	70.391	ng	99
77) Benzidine	12.983	184	571079	69.473	ng	97
78) Pyrene	13.101	202	1802135	71.423	ng	99
80) Butylbenzylphthalate	13.713	149	670333	91.677	ng	91
81) Benzo(a)anthracene	14.295	228	1540103	78.742	ng	99
82) 3,3'-Dichlorobenzidine	14.254	252	471070	86.482	ng	# 99
83) Chrysene	14.336	228	1451007	77.939	ng	98
84) Bis(2-ethylhexyl)phtha...	14.266	149	908932	94.139	ng	99
85) Di-n-octyl phthalate	14.913	149	1582333	106.755	ng	100
87) Indeno(1,2,3-cd)pyrene	17.583	276	2206787	88.906	ng	99
88) Benzo(b)fluoranthene	15.430	252	1660771	79.747	ng	98
89) Benzo(k)fluoranthene	15.466	252	1609871	75.797	ng	100
90) Benzo(a)pyrene	15.842	252	1657701	82.747	ng	99
91) Dibenzo(a,h)anthracene	17.613	278	1735171	85.719	ng	98
92) Benzo(g,h,i)perylene	18.107	276	1894782	88.954	ng	98

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

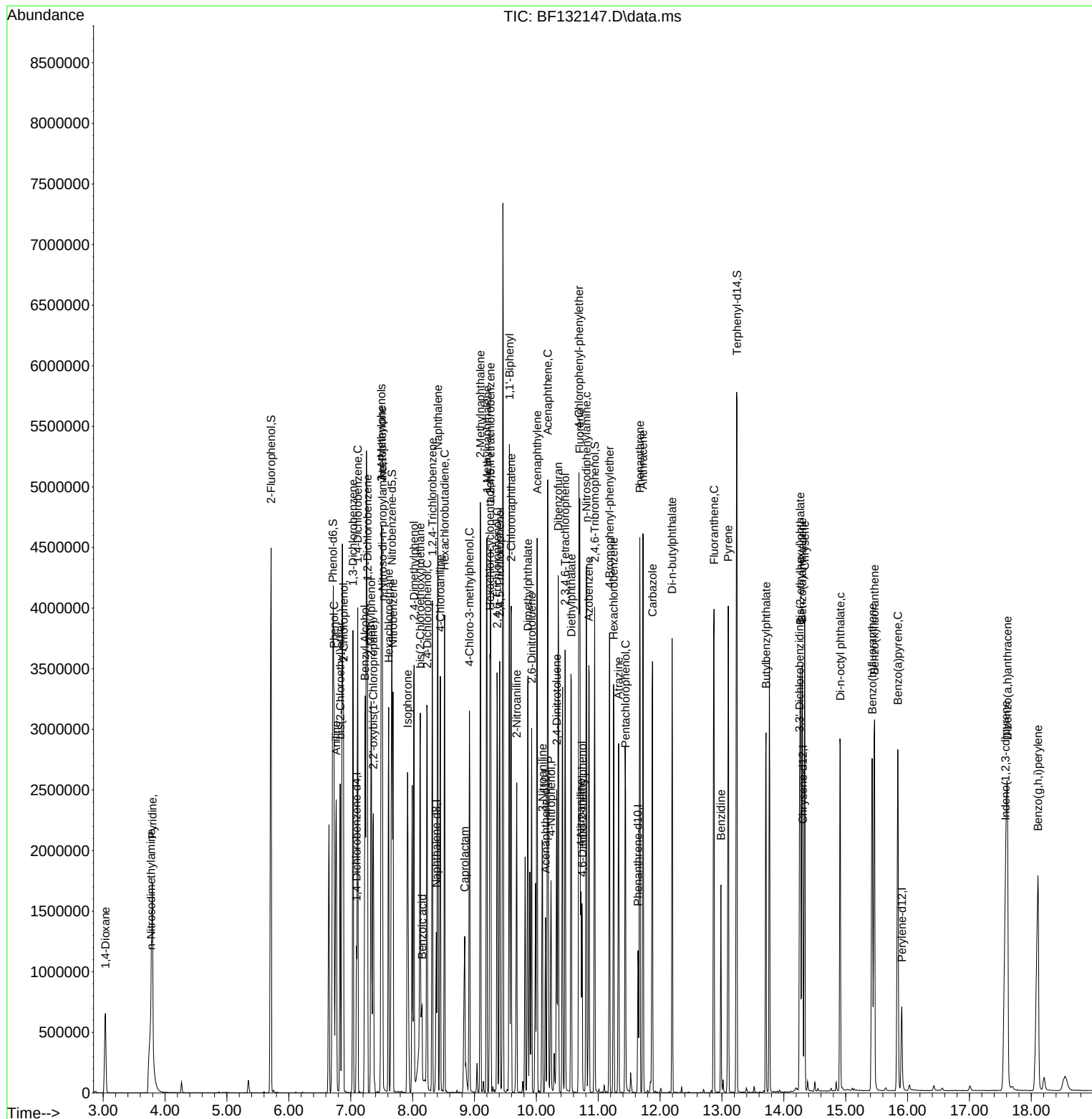
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011923\
Data File : BF132147.D
Acq On : 19 Jan 2023 15:11
Operator : CG\JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Christian Giraldo 01/20/2023
Supervised By :Jaqrut Upadhyay 01/20/2023

Quant Time: Jan 20 00:13:30 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 20 00:07:35 2023
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011923\
 Data File : BF132148.D
 Acq On : 19 Jan 2023 15:44
 Operator : CG\JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ICVBF011923

Quant Time: Jan 20 00:55:54 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 00:50:42 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.090	152	163547	20.000	ng	0.00
21) Naphthalene-d8	8.378	136	561606	20.000	ng	0.00
39) Acenaphthene-d10	10.142	164	294382	20.000	ng	0.00
64) Phenanthrene-d10	11.642	188	541465	20.000	ng	0.00
76) Chrysene-d12	14.307	240	289030	20.000	ng	0.00
86) Perylene-d12	15.901	264	315389	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.707	112	745654	79.645	ng	0.00
7) Phenol-d6	6.701	99	936762	79.486	ng	0.00
23) Nitrobenzene-d5	7.654	82	876371	82.897	ng	0.00
42) 2,4,6-Tribromophenol	10.936	330	264106	83.991	ng	0.00
45) 2-Fluorobiphenyl	9.454	172	1484699	73.696	ng	0.00
79) Terphenyl-d14	13.236	244	1375266	79.705	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.013	88	186409	39.301	ng	99
3) Pyridine	3.778	79	507287	39.841	ng	100
4) n-Nitrosodimethylamine	3.737	42	242074	40.425	ng	100
6) Aniline	6.754	93	640806	39.256	ng	99
8) 2-Chlorophenol	6.872	128	399260	40.571	ng	100
9) Benzaldehyde	6.643	77	308063	40.632	ng	97
10) Phenol	6.713	94	487091	39.701	ng	99
11) bis(2-Chloroethyl)ether	6.819	93	407756	39.259	ng	99
12) 1,3-Dichlorobenzene	7.031	146	435096	39.552	ng	99
13) 1,4-Dichlorobenzene	7.107	146	439030	39.996	ng	98
14) 1,2-Dichlorobenzene	7.266	146	399382	39.349	ng	98
15) Benzyl Alcohol	7.225	79	374565	41.551	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.360	45	598742	39.664	ng	99
17) 2-Methylphenol	7.325	107	345436	40.067	ng	99
18) Hexachloroethane	7.607	117	163023	41.373	ng	98
19) n-Nitroso-di-n-propyla...	7.495	70	279754	38.753	ng	99
20) 3+4-Methylphenols	7.478	107	441586	40.648	ng	94
22) Acetophenone	7.501	105	515033	38.155	ng	99
24) Nitrobenzene	7.672	77	461525	41.232	ng	99
25) Isophorone	7.907	82	811356	39.224	ng	100
26) 2-Nitrophenol	7.990	139	188076	44.494	ng	96
27) 2,4-Dimethylphenol	8.013	122	360494	40.276	ng	100
28) bis(2-Chloroethoxy)met...	8.119	93	487002	39.240	ng	99
29) 2,4-Dichlorophenol	8.225	162	346157	40.736	ng	98
30) 1,2,4-Trichlorobenzene	8.319	180	379741	39.345	ng	100
31) Naphthalene	8.401	128	1120785	38.858	ng	99
32) Benzoic acid	8.107	122	246749	42.386	ng	93
33) 4-Chloroaniline	8.442	127	484982	39.292	ng	99
34) Hexachlorobutadiene	8.513	225	260381	40.159	ng	99
35) Caprolactam	8.813	113	100708	41.792	ng	98
36) 4-Chloro-3-methylphenol	8.907	107	347512	40.638	ng	97
37) 2-Methylnaphthalene	9.095	142	771500	38.851	ng	99
38) 1-Methylnaphthalene	9.195	142	713576	38.619	ng	99
40) 1,2,4,5-Tetrachloroben...	9.260	216	401549	39.204	ng	99
41) Hexachlorocyclopentadiene	9.242	237	239100	42.778	ng	99
43) 2,4,6-Trichlorophenol	9.366	196	263620	41.471	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011923\
 Data File : BF132148.D
 Acq On : 19 Jan 2023 15:44
 Operator : CG\JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ICVBF011923

Quant Time: Jan 20 00:55:54 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 00:50:42 2023
 Response via : Initial Calibration

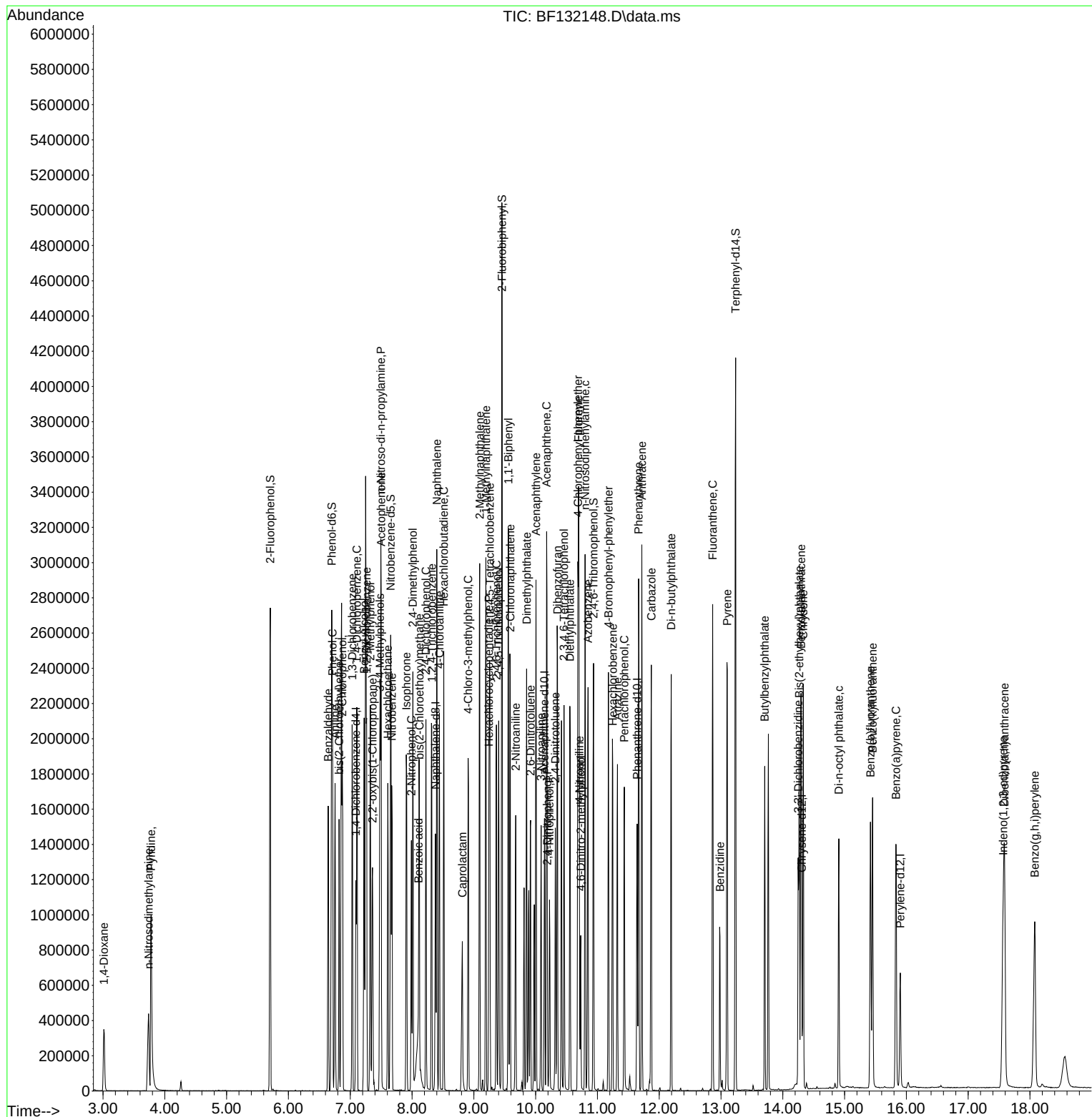
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.401	196	309687	41.656	ng	99
46) 1,1'-Biphenyl	9.560	154	906370	39.026	ng	99
47) 2-Chloronaphthalene	9.589	162	697476	38.849	ng	100
48) 2-Nitroaniline	9.678	65	232437	40.882	ng	98
49) Acenaphthylene	10.007	152	1125150	39.175	ng	99
50) Dimethylphthalate	9.854	163	847054	39.729	ng	99
51) 2,6-Dinitrotoluene	9.919	165	182283	44.109	ng	97
52) Acenaphthene	10.178	154	670346	38.803	ng	98
53) 3-Nitroaniline	10.089	138	192065	43.470	ng	98
54) 2,4-Dinitrophenol	10.189	184	77817	43.353	ng	83
55) Dibenzofuran	10.354	168	1029957	38.579	ng	99
56) 4-Nitrophenol	10.225	139	143657	44.675	ng	88
57) 2,4-Dinitrotoluene	10.319	165	226854	45.732	ng	98
58) Fluorene	10.695	166	755542	38.193	ng	98
59) 2,3,4,6-Tetrachlorophenol	10.460	232	237937	42.074	ng	99
60) Diethylphthalate	10.554	149	828728	39.637	ng	98
61) 4-Chlorophenyl-phenyle...	10.684	204	412428	38.934	ng	99
62) 4-Nitroaniline	10.707	138	167869	40.810	ng	98
63) Azobenzene	10.848	77	811938	38.693	ng	98
65) 4,6-Dinitro-2-methylph...	10.731	198	111699	42.985	ng	94
66) n-Nitrosodiphenylamine	10.801	169	682412	39.352	ng	99
67) 4-Bromophenyl-phenylether	11.178	248	261124	39.565	ng	98
68) Hexachlorobenzene	11.248	284	260189	39.667	ng	98
69) Atrazine	11.325	200	216709	40.505	ng	99
70) Pentachlorophenol	11.436	266	185687	44.053	ng	98
71) Phenanthrene	11.666	178	1106432	38.938	ng	100
72) Anthracene	11.719	178	1118170	38.898	ng	99
73) Carbazole	11.872	167	936219	38.127	ng	98
74) Di-n-butylphthalate	12.195	149	1101796	40.307	ng	99
75) Fluoranthene	12.866	202	1097474	37.600	ng	99
77) Benzidine	12.983	184	352976	40.675	ng	99
78) Pyrene	13.101	202	1091496	40.977	ng	99
80) Butylbenzylphthalate	13.707	149	356250	41.476	ng	95
81) Benzo(a)anthracene	14.295	228	823181	39.867	ng	99
82) 3,3'-Dichlorobenzidine	14.248	252	255697	44.466	ng	# 98
83) Chrysene	14.330	228	775281	39.446	ng	99
84) Bis(2-ethylhexyl)phtha...	14.266	149	468631	40.877	ng	99
85) Di-n-octyl phthalate	14.907	149	699411	42.292	ng	99
87) Indeno(1,2,3-cd)pyrene	17.565	276	1022972	41.080	ng	99
88) Benzo(b)fluoranthene	15.418	252	789087	41.092	ng	99
89) Benzo(k)fluoranthene	15.454	252	756317	38.618	ng	99
90) Benzo(a)pyrene	15.830	252	762470	41.276	ng	98
91) Dibenzo(a,h)anthracene	17.589	278	836172	44.798	ng	98
92) Benzo(g,h,i)perylene	18.077	276	867368	40.647	ng	100

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011923\
Data File : BF132148.D
Acq On : 19 Jan 2023 15:44
Operator : CG\JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF011923

Quant Time: Jan 20 00:55:54 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 20 00:50:42 2023
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011923\
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 00:50:42 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
2	1,4-Dioxane	0.580	0.570	1.7	95	0.00
3	Pyridine	1.557	1.551	0.4	95	0.00
4	n-Nitrosodimethylamine	0.732	0.740	-1.1	98	0.00
5 S	2-Fluorophenol	1.145	1.140	0.4	98	0.00
6	Aniline	1.996	1.959	1.9	97	0.00
7 S	Phenol-d6	1.441	1.432	0.6	98	0.00
8	2-Chlorophenol	1.203	1.221	-1.5	99	0.00
9	Benzaldehyde	0.927	0.942	-1.6	100	0.00
10 C	Phenol	1.500	1.489	0.7	98	0.00
11	bis(2-Chloroethyl)ether	1.270	1.247	1.8	97	0.00
12	1,3-Dichlorobenzene	1.345	1.330	1.1	98	0.00
13 C	1,4-Dichlorobenzene	1.342	1.342	0.0	98	0.00
14	1,2-Dichlorobenzene	1.241	1.221	1.6	98	0.00
15	Benzyl Alcohol	1.102	1.145	-3.9	100	0.00
16	2,2'-oxybis(1-Chloropropane	1.846	1.830	0.9	97	0.00
17	2-Methylphenol	1.054	1.056	-0.2	98	0.00
18	Hexachloroethane	0.482	0.498	-3.3	98	0.00
19 P	n-Nitroso-di-n-propylamine	0.883	0.855	3.2	97	0.00
20	3+4-Methylphenols	1.328	1.350	-1.7	99	0.00
21 I	Naphthalene-d8	1.000	1.000	0.0	98	0.00
22	Acetophenone	0.481	0.459	4.6	97	0.00
23 S	Nitrobenzene-d5	0.376	0.390	-3.7	100	0.00
24	Nitrobenzene	0.399	0.411	-3.0	99	0.00
25	Isophorone	0.737	0.722	2.0	98	0.00
26 C	2-Nitrophenol	0.127	0.167	-31.5#	111	0.00
27	2,4-Dimethylphenol	0.319	0.321	-0.6	97	0.00
28	bis(2-Chloroethoxy)methane	0.442	0.434	1.8	99	0.00
29 C	2,4-Dichlorophenol	0.303	0.308	-1.7	98	0.00
30	1,2,4-Trichlorobenzene	0.344	0.338	1.7	98	0.00
31	Naphthalene	1.027	0.998	2.8	98	0.00
32	Benzoic acid	0.187	0.220	-17.6	115	0.00
33	4-Chloroaniline	0.440	0.432	1.8	97	0.00
34 C	Hexachlorobutadiene	0.231	0.232	-0.4	100	0.00
35	Caprolactam	0.086	0.090	-4.7	97	0.00
36 C	4-Chloro-3-methylphenol	0.305	0.309	-1.3	98	0.00
37	2-Methylnaphthalene	0.707	0.687	2.8	98	0.00
38	1-Methylnaphthalene	0.658	0.635	3.5	97	0.00
39 I	Acenaphthene-d10	1.000	1.000	0.0	98	0.00
40	1,2,4,5-Tetrachlorobenzene	0.696	0.682	2.0	98	0.00
41 P	Hexachlorocyclopentadiene	0.380	0.406	-6.8	102	0.00
42 S	2,4,6-Tribromophenol	0.214	0.224	-4.7	100	0.00
43 C	2,4,6-Trichlorophenol	0.432	0.448	-3.7	98	0.00
44	2,4,5-Trichlorophenol	0.505	0.526	-4.2	99	0.00
45 S	2-Fluorobiphenyl	1.369	1.261	7.9	99	0.00
46	1,1'-Biphenyl	1.578	1.539	2.5	98	0.00
47	2-Chloronaphthalene	1.220	1.185	2.9	97	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011923\
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 Sample : SSTDICV040
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
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Quant Time: Jan 20 00:55:54 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 00:50:42 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48	2-Nitroaniline	0.351	0.395	-12.5	102	0.00
49	Acenaphthylene	1.951	1.911	2.1	98	0.00
50	Dimethylphthalate	1.449	1.439	0.7	98	0.00
51	2,6-Dinitrotoluene	0.281	0.310	-10.3	101	0.00
52 C	Acenaphthene	1.174	1.139	3.0	98	0.00
53	3-Nitroaniline	0.300	0.326	-8.7	100	0.00
54 P	2,4-Dinitrophenol	0.108	0.132	-22.2	117	0.00
55	Dibenzofuran	1.814	1.749	3.6	97	0.00
56 P	4-Nitrophenol	0.218	0.244	-11.9	103	0.00
57	2,4-Dinitrotoluene	0.337	0.385	-14.2	107	0.00
58	Fluorene	1.344	1.283	4.5	98	0.00
59	2,3,4,6-Tetrachlorophenol	0.384	0.404	-5.2	98	0.00
60	Diethylphthalate	1.420	1.408	0.8	97	0.00
61	4-Chlorophenyl-phenylether	0.720	0.700	2.8	98	0.00
62	4-Nitroaniline	0.279	0.285	-2.2	99	0.00
63	Azobenzene	1.426	1.379	3.3	97	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	95	0.00
65	4,6-Dinitro-2-methylphenol	0.087	0.103	-18.4	116	0.00
66 c	n-Nitrosodiphenylamine	0.641	0.630	1.7	97	0.00
67	4-Bromophenyl-phenylether	0.244	0.241	1.2	96	0.00
68	Hexachlorobenzene	0.242	0.240	0.8	97	0.00
69	Atrazine	0.198	0.200	-1.0	96	0.00
70 C	Pentachlorophenol	0.156	0.171	-9.6	100	0.00
71	Phenanthrene	1.050	1.022	2.7	97	0.00
72	Anthracene	1.062	1.033	2.7	97	0.00
73	Carbazole	0.907	0.865	4.6	95	0.00
74	Di-n-butylphthalate	1.010	1.017	-0.7	97	0.00
75 C	Fluoranthene	1.078	1.013	6.0	95	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	93	0.00
77	Benzydine	0.600	0.611	-1.8	83	0.00
78	Pyrene	1.843	1.888	-2.4	95	0.00
79 S	Terphenyl-d14	1.194	1.190	0.3	95	0.00
80	Butylbenzylphthalate	0.534	0.616	-15.4	98	0.00
81	Benzo(a)anthracene	1.429	1.424	0.3	94	0.00
82	3,3'-Dichlorobenzidine	0.398	0.442	-11.1	97	0.00
83	Chrysene	1.360	1.341	1.4	93	0.00
84	Bis(2-ethylhexyl)phthalate	0.705	0.811	-15.0	98	0.00
85 c	Di-n-octyl phthalate	1.083	1.210	-11.7	103	0.00
86 I	Perylene-d12	1.000	1.000	0.0	98	0.00
87	Indeno(1,2,3-cd)pyrene	1.451	1.622	-11.8	101	0.00
88	Benzo(b)fluoranthene	1.218	1.251	-2.7	100	0.00
89	Benzo(k)fluoranthene	1.242	1.199	3.5	97	0.00
90 C	Benzo(a)pyrene	1.171	1.209	-3.2	99	0.00
91	Dibenzo(a,h)anthracene	1.184	1.326	-12.0	101	0.00
92	Benzo(g,h,i)perylene	1.246	1.375	-10.4	100	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011923\
Data File : BF132148.D
Acq On : 19 Jan 2023 15:44
Operator : CG\JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF011923

Quant Time: Jan 20 00:55:54 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 20 00:50:42 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range

SPCC's out = 0 CCC's out = 1

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011923\
 Data File : BF132148.D
 Acq On : 19 Jan 2023 15:44
 Operator : CG\JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ICVBF011923

Quant Time: Jan 20 00:55:54 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 00:50:42 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	96	0.00
2	1,4-Dioxane	40.000	39.301	1.7	95	0.00
3	Pyridine	40.000	39.841	0.4	95	0.00
4	n-Nitrosodimethylamine	40.000	40.425	-1.1	98	0.00
5 S	2-Fluorophenol	80.000	79.645	0.4	98	0.00
6	Aniline	40.000	39.256	1.9	97	0.00
7 S	Phenol-d6	80.000	79.486	0.6	98	0.00
8	2-Chlorophenol	40.000	40.571	-1.4	99	0.00
9	Benzaldehyde	40.000	40.632	-1.6	100	0.00
10 C	Phenol	40.000	39.701	0.7	98	0.00
11	bis(2-Chloroethyl)ether	40.000	39.259	1.9	97	0.00
12	1,3-Dichlorobenzene	40.000	39.552	1.1	98	0.00
13 C	1,4-Dichlorobenzene	40.000	39.996	0.0	98	0.00
14	1,2-Dichlorobenzene	40.000	39.349	1.6	98	0.00
15	Benzyl Alcohol	40.000	41.551	-3.9	100	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	39.664	0.8	97	0.00
17	2-Methylphenol	40.000	40.067	-0.2	98	0.00
18	Hexachloroethane	40.000	41.373	-3.4	98	0.00
19 P	n-Nitroso-di-n-propylamine	40.000	38.753	3.1	97	0.00
20	3+4-Methylphenols	40.000	40.648	-1.6	99	0.00
21 I	Naphthalene-d8	20.000	20.000	0.0	98	0.00
22	Acetophenone	40.000	38.155	4.6	97	0.00
23 S	Nitrobenzene-d5	80.000	82.897	-3.6	100	0.00
24	Nitrobenzene	40.000	41.232	-3.1	99	0.00
25	Isophorone	40.000	39.224	1.9	98	0.00
26 C	2-Nitrophenol	40.000	44.494	-11.2	111	0.00
27	2,4-Dimethylphenol	40.000	40.276	-0.7	97	0.00
28	bis(2-Chloroethoxy)methane	40.000	39.240	1.9	99	0.00
29 C	2,4-Dichlorophenol	40.000	40.736	-1.8	98	0.00
30	1,2,4-Trichlorobenzene	40.000	39.345	1.6	98	0.00
31	Naphthalene	40.000	38.858	2.9	98	0.00
32	Benzoic acid	40.000	42.386	-6.0	115	0.00
33	4-Chloroaniline	40.000	39.292	1.8	97	0.00
34 C	Hexachlorobutadiene	40.000	40.159	-0.4	100	0.00
35	Caprolactam	40.000	41.792	-4.5	97	0.00
36 C	4-Chloro-3-methylphenol	40.000	40.638	-1.6	98	0.00
37	2-Methylnaphthalene	40.000	38.851	2.9	98	0.00
38	1-Methylnaphthalene	40.000	38.619	3.5	97	0.00
39 I	Acenaphthene-d10	20.000	20.000	0.0	98	0.00
40	1,2,4,5-Tetrachlorobenzene	40.000	39.204	2.0	98	0.00
41 P	Hexachlorocyclopentadiene	40.000	42.778	-6.9	102	0.00
42 S	2,4,6-Tribromophenol	80.000	83.991	-5.0	100	0.00
43 C	2,4,6-Trichlorophenol	40.000	41.471	-3.7	98	0.00
44	2,4,5-Trichlorophenol	40.000	41.656	-4.1	99	0.00
45 S	2-Fluorobiphenyl	80.000	73.696	7.9	99	0.00
46	1,1'-Biphenyl	40.000	39.026	2.4	98	0.00
47	2-Chloronaphthalene	40.000	38.849	2.9	97	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011923\
 Data File : BF132148.D
 Acq On : 19 Jan 2023 15:44
 Operator : CG\JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ICVBF011923

Quant Time: Jan 20 00:55:54 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 00:50:42 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48	2-Nitroaniline	40.000	40.882	-2.2	102	0.00
49	Acenaphthylene	40.000	39.175	2.1	98	0.00
50	Dimethylphthalate	40.000	39.729	0.7	98	0.00
51	2,6-Dinitrotoluene	40.000	44.109	-10.3	101	0.00
52 C	Acenaphthene	40.000	38.803	3.0	98	0.00
53	3-Nitroaniline	40.000	43.470	-8.7	100	0.00
54 P	2,4-Dinitrophenol	40.000	43.353	-8.4	117	0.00
55	Dibenzofuran	40.000	38.579	3.6	97	0.00
56 P	4-Nitrophenol	40.000	44.675	-11.7	103	0.00
57	2,4-Dinitrotoluene	40.000	45.732	-14.3	107	0.00
58	Fluorene	40.000	38.193	4.5	98	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	42.074	-5.2	98	0.00
60	Diethylphthalate	40.000	39.637	0.9	97	0.00
61	4-Chlorophenyl-phenylether	40.000	38.934	2.7	98	0.00
62	4-Nitroaniline	40.000	40.810	-2.0	99	0.00
63	Azobenzene	40.000	38.693	3.3	97	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	95	0.00
65	4,6-Dinitro-2-methylphenol	40.000	42.985	-7.5	116	0.00
66 c	n-Nitrosodiphenylamine	40.000	39.352	1.6	97	0.00
67	4-Bromophenyl-phenylether	40.000	39.565	1.1	96	0.00
68	Hexachlorobenzene	40.000	39.667	0.8	97	0.00
69	Atrazine	40.000	40.505	-1.3	96	0.00
70 C	Pentachlorophenol	40.000	44.053	-10.1	100	0.00
71	Phenanthrene	40.000	38.938	2.7	97	0.00
72	Anthracene	40.000	38.898	2.8	97	0.00
73	Carbazole	40.000	38.127	4.7	95	0.00
74	Di-n-butylphthalate	40.000	40.307	-0.8	97	0.00
75 C	Fluoranthene	40.000	37.600	6.0	95	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	93	0.00
77	Benzydine	40.000	40.675	-1.7	83	0.00
78	Pyrene	40.000	40.977	-2.4	95	0.00
79 S	Terphenyl-d14	80.000	79.705	0.4	95	0.00
80	Butylbenzylphthalate	40.000	41.476	-3.7	98	0.00
81	Benzo(a)anthracene	40.000	39.867	0.3	94	0.00
82	3,3'-Dichlorobenzidine	40.000	44.466	-11.2	97	0.00
83	Chrysene	40.000	39.446	1.4	93	0.00
84	Bis(2-ethylhexyl)phthalate	40.000	40.877	-2.2	98	0.00
85 c	Di-n-octyl phthalate	40.000	42.292	-5.7	103	0.00
86 I	Perylene-d12	20.000	20.000	0.0	98	0.00
87	Indeno(1,2,3-cd)pyrene	40.000	41.080	-2.7	101	0.00
88	Benzo(b)fluoranthene	40.000	41.092	-2.7	100	0.00
89	Benzo(k)fluoranthene	40.000	38.618	3.5	97	0.00
90 C	Benzo(a)pyrene	40.000	41.276	-3.2	99	0.00
91	Dibenzo(a,h)anthracene	40.000	44.798	-12.0	101	0.00
92	Benzo(g,h,i)perylene	40.000	40.647	-1.6	100	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011923\
Data File : BF132148.D
Acq On : 19 Jan 2023 15:44
Operator : CG\JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF011923

Quant Time: Jan 20 00:55:54 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 20 00:50:42 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: loui01

Lab Code: CHEM Case No.: O1233 SAS No.: O1233 SDG No.: O1233

Instrument ID: BNA_G Calibration Date(s): 12/27/2022 12/27/2022

Calibration Time(s): 14:55 19:42

LAB FILE ID:		RRF2.5 = BG056126.D		RRF005 = BG056127.D		RRF010 = BG056128.D		
		RRF020 = BG056129.D		RRF040 = BG056130.D		RRF050 = BG056131.D		
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.169	1.169	1.157	1.128	1.128	1.120	4.9
Benzaldehyde		1.168	1.151	1.108	1.001	0.997	1.023	12.4
Phenol-d6		1.750	1.739	1.781	1.786	1.729	1.720	3.9
Phenol		1.756	1.808	1.805	1.796	1.756	1.745	4.3
bis(2-Chloroethyl)ether		1.212	1.248	1.285	1.195	1.162	1.182	6.5
2-Chlorophenol		1.120	1.124	1.156	1.137	1.119	1.115	3.1
2-Methylphenol		1.283	1.274	1.327	1.330	1.275	1.280	3.0
2,2-oxybis(1-Chloropropane)		0.241	0.227	0.216	0.210	0.201	0.209	10.3
Acetophenone		0.571	0.584	0.572	0.567	0.564	0.566	2.3
3+4-Methylphenols		1.764	1.762	1.838	1.872	1.825	1.800	2.5
n-Nitroso-di-n-propylamine	1.042	1.116	1.102	1.088	1.060	1.051	1.046	5.9
Nitrobenzene-d5		0.405	0.387	0.401	0.389	0.386	0.391	2.4
Hexachloroethane		0.446	0.427	0.430	0.418	0.420	0.414	6.4
Nitrobenzene		0.408	0.387	0.390	0.383	0.387	0.387	2.6
Isophorone		0.868	0.842	0.828	0.819	0.814	0.823	3.3
2-Nitrophenol		0.198	0.193	0.195	0.198	0.200	0.198	1.7
2,4-Dimethylphenol		0.352	0.381	0.372	0.359	0.356	0.362	3.0
bis(2-Chloroethoxy)methane		0.451	0.427	0.450	0.420	0.424	0.428	3.9
2,4-Dichlorophenol		0.381	0.385	0.397	0.411	0.413	0.400	3.4
Naphthalene		1.075	1.041	1.064	1.036	1.055	1.053	1.4
4-Chloroaniline		0.519	0.490	0.501	0.502	0.501	0.503	1.7
Hexachlorobutadiene		0.340	0.326	0.327	0.330	0.322	0.326	2.2
Caprolactam		0.140	0.135	0.145	0.134	0.130	0.135	4.1
4-Chloro-3-methylphenol		0.404	0.384	0.417	0.402	0.413	0.406	2.9
2-Methylnaphthalene		0.914	0.894	0.878	0.890	0.888	0.889	1.5
Hexachlorocyclopentadiene		0.384	0.371	0.415	0.456	0.472	0.427	9.0
2,4,6-Trichlorophenol		0.470	0.462	0.494	0.517	0.527	0.496	4.8
2-Fluorobiphenyl		1.505	1.433	1.451	1.469	1.486	1.448	3.2
2,4,5-Trichlorophenol		0.579	0.570	0.578	0.597	0.616	0.586	2.8
1,1-Biphenyl		1.455	1.398	1.448	1.457	1.463	1.432	2.3
2-Chloronaphthalene		1.158	1.106	1.117	1.149	1.159	1.131	2.4
2-Nitroaniline		0.229	0.226	0.244	0.246	0.252	0.241	4.3
Dimethylphthalate		1.665	1.624	1.674	1.624	1.627	1.615	3.5
Acenaphthylene		1.888	1.808	1.841	1.872	1.893	1.840	2.8
2,6-Dinitrotoluene		0.353	0.342	0.342	0.341	0.354	0.344	2.2
3-Nitroaniline		0.336	0.308	0.329	0.334	0.339	0.327	3.5

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



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6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: loui01

Lab Code: CHEM Case No.: O1233 SAS No.: O1233 SDG No.: O1233

Instrument ID: BNA_G Calibration Date(s): 12/27/2022 12/27/2022

Calibration Time(s): 14:55 19:42

LAB FILE ID:		RRF2.5 = BG056126.D			RRF005 = BG056127.D		RRF010 = BG056128.D	
		RRF020 = BG056129.D			RRF040 = BG056130.D		RRF050 = BG056131.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Acenaphthene		1.216	1.126	1.202	1.223	1.243	1.197	3.4
2,4-Dinitrophenol		0.209	0.229	0.249	0.261	0.262	0.246	8.0
4-Nitrophenol		0.251	0.240	0.256	0.261	0.252	0.252	2.7
Dibenzofuran		2.038	1.939	2.015	2.022	2.016	1.980	3.0
2,4-Dinitrotoluene		0.467	0.461	0.488	0.496	0.498	0.481	3.3
Diethylphthalate		1.633	1.519	1.533	1.531	1.523	1.514	4.8
4-Chlorophenyl-phenylether		1.011	0.975	1.007	1.012	1.019	0.994	2.6
Fluorene		1.679	1.588	1.623	1.601	1.606	1.593	3.6
4-Nitroaniline		0.335	0.336	0.347	0.345	0.333	0.335	2.9
4,6-Dinitro-2-methylphenol		0.124	0.120	0.135	0.141	0.141	0.135	6.6
n-Nitrosodiphenylamine		0.559	0.545	0.556	0.560	0.568	0.555	1.5
2,4,6-Tribromophenol		0.249	0.249	0.258	0.257	0.260	0.253	2.1
4-Bromophenyl-phenylether		0.258	0.248	0.254	0.258	0.261	0.255	1.8
Hexachlorobenzene		0.245	0.229	0.235	0.241	0.242	0.238	2.2
Atrazine		0.229	0.235	0.232	0.238	0.230	0.230	2.5
Pentachlorophenol		0.161	0.169	0.181	0.190	0.193	0.183	7.1
Phenanthrene		1.069	1.039	1.044	1.049	1.039	1.036	2.3
Anthracene		1.126	1.064	1.088	1.081	1.067	1.069	3.3
Carbazole		0.955	0.902	0.905	0.913	0.887	0.899	3.6
Di-n-butylphthalate		0.913	0.884	0.913	0.914	0.898	0.896	2.3
Fluoranthene		1.422	1.370	1.385	1.373	1.331	1.352	3.8
Pyrene		1.497	1.431	1.424	1.404	1.419	1.410	3.8
Terphenyl-d14		1.209	1.145	1.140	1.113	1.105	1.117	5.0
Butylbenzylphthalate		0.406	0.388	0.401	0.409	0.418	0.404	2.3
3,3-Dichlorobenzidine		0.517	0.499	0.505	0.526	0.512	0.506	2.8
Benzo (a) anthracene		1.449	1.398	1.401	1.416	1.424	1.405	2.1
Chrysene		1.350	1.311	1.314	1.333	1.334	1.316	2.0
Bis (2-ethylhexyl) phthalate		0.608	0.567	0.565	0.590	0.601	0.583	3.0
Di-n-octyl phthalate		0.994	0.973	0.976	1.000	1.008	0.984	1.7
Benzo (b) fluoranthene		1.310	1.235	1.285	1.297	1.277	1.271	3.0
Benzo (k) fluoranthene		1.300	1.284	1.245	1.283	1.284	1.265	2.4
Benzo (a) pyrene		1.277	1.233	1.230	1.261	1.258	1.239	2.3
Indeno (1,2,3-cd) pyrene		1.482	1.429	1.447	1.484	1.447	1.455	1.9
Dibenzo (a,h) anthracene		1.270	1.222	1.221	1.234	1.198	1.219	2.4
Benzo (g,h,i) perylene		1.215	1.162	1.179	1.213	1.169	1.183	2.1
1,2,4,5-Tetrachlorobenzene		0.761	0.719	0.750	0.765	0.776	0.750	2.9

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: loui01

Lab Code: CHEM Case No.: O1233 SAS No.: O1233 SDG No.: O1233

Instrument ID: BNA_G Calibration Date(s): 12/27/2022 12/27/2022

Calibration Time(s): 14:55 19:42

LAB FILE ID:		RRF2.5 = BG056126.D			RRF005 = BG056127.D		RRF010 = BG056128.D	
		RRF020 = BG056129.D			RRF040 = BG056130.D		RRF050 = BG056131.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
1,4-Dioxane		0.534	0.553	0.535	0.538	0.502	0.512	7.8
2,3,4,6-Tetrachlorophenol		0.535	0.531	0.569	0.559	0.569	0.551	3.3

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
 Method File : 8270-BG122722.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Dec 28 05:20:14 2022
 Response Via : Initial Calibration

Calibration Files

2.5 =BG056126.D 5 =BG056127.D 10 =BG056128.D 20 =BG056129.D 40 =BG056130.D 50 =BG056131.D 60 =BG056132.D 80 =BG056133.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.534	0.553	0.535	0.538	0.502	0.477	0.442	0.512	7.80	
3)	Pyridine	1.468	1.554	1.680	1.617	1.599	1.528	1.462	1.558	5.13	
4)	n-Nitrosodimet...	0.311	0.311	0.330	0.335	0.331	0.301	0.300	0.317	4.70	
5) S	2-Fluorophenol	1.169	1.169	1.157	1.128	1.128	1.061	1.029	1.120	4.90	
6)	Aniline	2.284	2.358	2.331	2.300	2.228	2.176	2.114	2.256	3.88	
7) S	Phenol-d6	1.750	1.738	1.781	1.786	1.729	1.653	1.605	1.720	3.90	
8)	2-Chlorophenol	1.120	1.124	1.156	1.137	1.119	1.098	1.048	1.115	3.08	
9)	Benzaldehyde	1.168	1.151	1.108	1.001	0.997	0.899	0.837	1.023	12.35	
10) C	Phenol	1.756	1.808	1.805	1.796	1.756	1.682	1.608	1.745	4.25	
11)	bis(2-Chloroet...	1.212	1.248	1.285	1.195	1.162	1.103	1.070	1.182	6.48	
12)	1,3-Dichlorobe...	1.421	1.485	1.384	1.355	1.353	1.278	1.220	1.357	6.48	
13) C	1,4-Dichlorobe...	1.411	1.428	1.394	1.383	1.362	1.302	1.256	1.362	4.54	
14)	1,2-Dichlorobe...	1.358	1.364	1.374	1.332	1.321	1.249	1.202	1.314	4.95	
15)	Benzyl Alcohol	1.241	1.231	1.290	1.315	1.268	1.220	1.199	1.252	3.28	
16)	2,2'-oxybis(1-...	0.241	0.227	0.216	0.210	0.201	0.187	0.181	0.209	10.28	
17)	2-Methylphenol	1.283	1.274	1.327	1.330	1.275	1.247	1.225	1.280	3.01	
18)	Hexachloroethane	0.446	0.427	0.430	0.418	0.420	0.386	0.371	0.414	6.36	
19) P	n-Nitroso-di-n...	1.042	1.116	1.102	1.088	1.060	1.051	0.963	0.947	1.046	5.88
20)	3+4-Methylphenols	1.764	1.762	1.838	1.872	1.825	1.781	1.756	1.800	2.52	
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.571	0.584	0.572	0.567	0.564	0.557	0.543	0.566	2.28	
23) S	Nitrobenzene-d5	0.405	0.387	0.401	0.389	0.386	0.391	0.378	0.391	2.38	
24)	Nitrobenzene	0.408	0.387	0.390	0.383	0.387	0.381	0.376	0.387	2.58	
25)	Isophorone	0.868	0.842	0.828	0.819	0.814	0.807	0.781	0.823	3.33	
26) C	2-Nitrophenol	0.198	0.193	0.195	0.198	0.200	0.202	0.202	0.198	1.72	
27)	2,4-Dimethylph...	0.352	0.381	0.372	0.359	0.356	0.358	0.353	0.362	2.99	
28)	bis(2-Chloroet...	0.451	0.427	0.450	0.420	0.424	0.412	0.409	0.428	3.95	
29) C	2,4-Dichloroph...	0.381	0.385	0.397	0.411	0.413	0.414	0.398	0.400	3.39	
30)	1,2,4-Trichlor...	0.473	0.453	0.452	0.448	0.457	0.447	0.445	0.454	2.06	
31)	Naphthalene	1.075	1.041	1.064	1.036	1.055	1.057	1.040	1.053	1.36	
32)	Benzoic acid	0.226	0.235	0.284	0.279	0.288	0.291	0.276	0.268	9.91	
33)	4-Chloroaniline	0.519	0.490	0.501	0.502	0.501	0.505	0.500	0.503	1.71	
34) C	Hexachlorobuta...	0.340	0.326	0.327	0.330	0.322	0.322	0.317	0.326	2.20	
35)	Caprolactam	0.140	0.135	0.145	0.134	0.130	0.135	0.129	0.135	4.15	
36) C	4-Chloro-3-met...	0.404	0.384	0.417	0.402	0.413	0.417	0.401	0.406	2.86	
37)	2-Methylnaphth...	0.914	0.894	0.878	0.890	0.888	0.885	0.872	0.889	1.49	
38)	1-Methylnaphth...	0.825	0.824	0.844	0.817	0.828	0.829	0.810	0.825	1.29	

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
 Method File : 8270-BG122722.M

39) I	Acenaphthene-d10	-----ISTD-----								
40)	1,2,4,5-Tetrac...	0.761	0.719	0.750	0.765	0.776	0.755	0.721	0.750	2.89
41) P	Hexachlorocycl...	0.384	0.371	0.415	0.456	0.472	0.450	0.443	0.427	8.98
42) S	2,4,6-Tribromo...	0.249	0.249	0.258	0.257	0.260	0.254	0.246	0.253	2.09
43) C	2,4,6-Trichlor...	0.470	0.462	0.494	0.517	0.527	0.508	0.492	0.496	4.78
44)	2,4,5-Trichlor...	0.579	0.570	0.578	0.597	0.616	0.590	0.573	0.586	2.76
45) S	2-Fluorobiphenyl	1.505	1.433	1.451	1.469	1.486	1.430	1.365	1.448	3.18
46)	1,1'-Biphenyl	1.455	1.398	1.448	1.457	1.463	1.426	1.380	1.432	2.26
47)	2-Chloronaphth...	1.158	1.106	1.117	1.149	1.159	1.134	1.090	1.131	2.41
48)	2-Nitroaniline	0.229	0.226	0.244	0.246	0.252	0.252	0.236	0.241	4.32
49)	Acenaphthylene	1.888	1.808	1.841	1.872	1.893	1.827	1.749	1.840	2.78
50)	Dimethylphthalate	1.665	1.624	1.674	1.624	1.627	1.581	1.506	1.615	3.52
51)	2,6-Dinitrotol...	0.353	0.342	0.342	0.341	0.354	0.345	0.331	0.344	2.25
52) C	Acenaphthene	1.216	1.126	1.202	1.223	1.243	1.208	1.157	1.197	3.40
53)	3-Nitroaniline	0.336	0.308	0.329	0.334	0.339	0.331	0.315	0.327	3.54
54) P	2,4-Dinitrophenol	0.209	0.229	0.249	0.261	0.262	0.260	0.251	0.246	8.00
55)	Dibenzofuran	2.038	1.939	2.015	2.022	2.016	1.959	1.872	1.980	3.01
56) P	4-Nitrophenol	0.251	0.240	0.256	0.261	0.252	0.256	0.246	0.252	2.73
57)	2,4-Dinitrotol...	0.467	0.461	0.488	0.496	0.498	0.491	0.466	0.481	3.28
58)	Fluorene	1.679	1.588	1.623	1.601	1.606	1.559	1.491	1.593	3.63
59)	2,3,4,6-Tetrac...	0.535	0.531	0.569	0.559	0.569	0.561	0.528	0.551	3.33
60)	Diethylphthalate	1.633	1.519	1.533	1.531	1.523	1.467	1.393	1.514	4.82
61)	4-Chlorophenyl...	1.011	0.975	1.007	1.012	1.019	0.985	0.948	0.994	2.61
62)	4-Nitroaniline	0.335	0.336	0.347	0.345	0.333	0.333	0.318	0.335	2.87
63)	Azobenzene	1.227	1.199	1.207	1.169	1.177	1.128	1.072	1.168	4.54
64) I	Phenanthrene-d10	-----ISTD-----								
65)	4,6-Dinitro-2-...	0.124	0.120	0.135	0.141	0.141	0.142	0.139	0.135	6.60
66) c	n-Nitrosodiphe...	0.559	0.545	0.556	0.560	0.568	0.553	0.543	0.555	1.54
67)	4-Bromophenyl-...	0.258	0.248	0.254	0.258	0.261	0.253	0.252	0.255	1.78
68)	Hexachlorobenzene	0.245	0.229	0.235	0.241	0.242	0.237	0.235	0.238	2.21
69)	Atrazine	0.229	0.235	0.232	0.238	0.230	0.226	0.221	0.230	2.53
70) C	Pentachlorophenol	0.161	0.169	0.181	0.190	0.193	0.195	0.190	0.183	7.14
71)	Phenanthrene	1.069	1.039	1.044	1.049	1.039	1.024	0.991	1.036	2.33
72)	Anthracene	1.126	1.064	1.088	1.081	1.067	1.047	1.011	1.069	3.32
73)	Carbazole	0.955	0.902	0.905	0.913	0.887	0.881	0.849	0.899	3.63
74)	Di-n-butylphth...	0.913	0.884	0.913	0.914	0.898	0.889	0.860	0.896	2.26
75) C	Fluoranthene	1.422	1.370	1.385	1.373	1.331	1.319	1.265	1.352	3.82
76) I	Chrysene-d12	-----ISTD-----								
77)	Benzidine	0.731	0.700	0.698	0.732	0.698	0.690	0.656	0.701	3.67
78)	Pyrene	1.497	1.431	1.424	1.404	1.419	1.365	1.329	1.410	3.76
79) S	Terphenyl-d14	1.209	1.145	1.140	1.113	1.105	1.072	1.033	1.117	5.04
80)	Butylbenzylphth...	0.406	0.388	0.401	0.409	0.418	0.409	0.401	0.404	2.31
81)	Benzo(a)anthra...	1.449	1.398	1.401	1.416	1.424	1.392	1.354	1.405	2.10
82)	3,3'-Dichlorob...	0.517	0.499	0.505	0.526	0.512	0.497	0.484	0.506	2.76
83)	Chrysene	1.350	1.311	1.314	1.333	1.334	1.299	1.269	1.316	2.04
84)	Bis(2-ethylhex...	0.608	0.567	0.565	0.590	0.601	0.578	0.570	0.583	2.96
85) c	Di-n-octyl pht...	0.994	0.973	0.976	1.000	1.008	0.973	0.962	0.984	1.73

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG122722.M

86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.482	1.429	1.447	1.484	1.447	1.479	1.414	1.455	1.90
88)	Benzo(b)fluora...	1.310	1.235	1.285	1.297	1.277	1.289	1.201	1.271	3.03
89)	Benzo(k)fluora...	1.300	1.284	1.245	1.283	1.284	1.244	1.218	1.265	2.36
90) C	Benzo(a)pyrene	1.277	1.233	1.230	1.261	1.258	1.226	1.191	1.239	2.30
91)	Dibenzo(a,h)an...	1.270	1.222	1.221	1.234	1.198	1.217	1.174	1.219	2.43
92)	Benzo(g,h,i)pe...	1.215	1.162	1.179	1.213	1.169	1.192	1.148	1.183	2.14

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122722\
 Data File : BG056126.D
 Acq On : 27 Dec 2022 14:55
 Operator : CG/JU
 Sample : SSTDICC2.5
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SSTDICC2.5

Quant Time: Dec 28 04:52:16 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 28 04:51:15 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

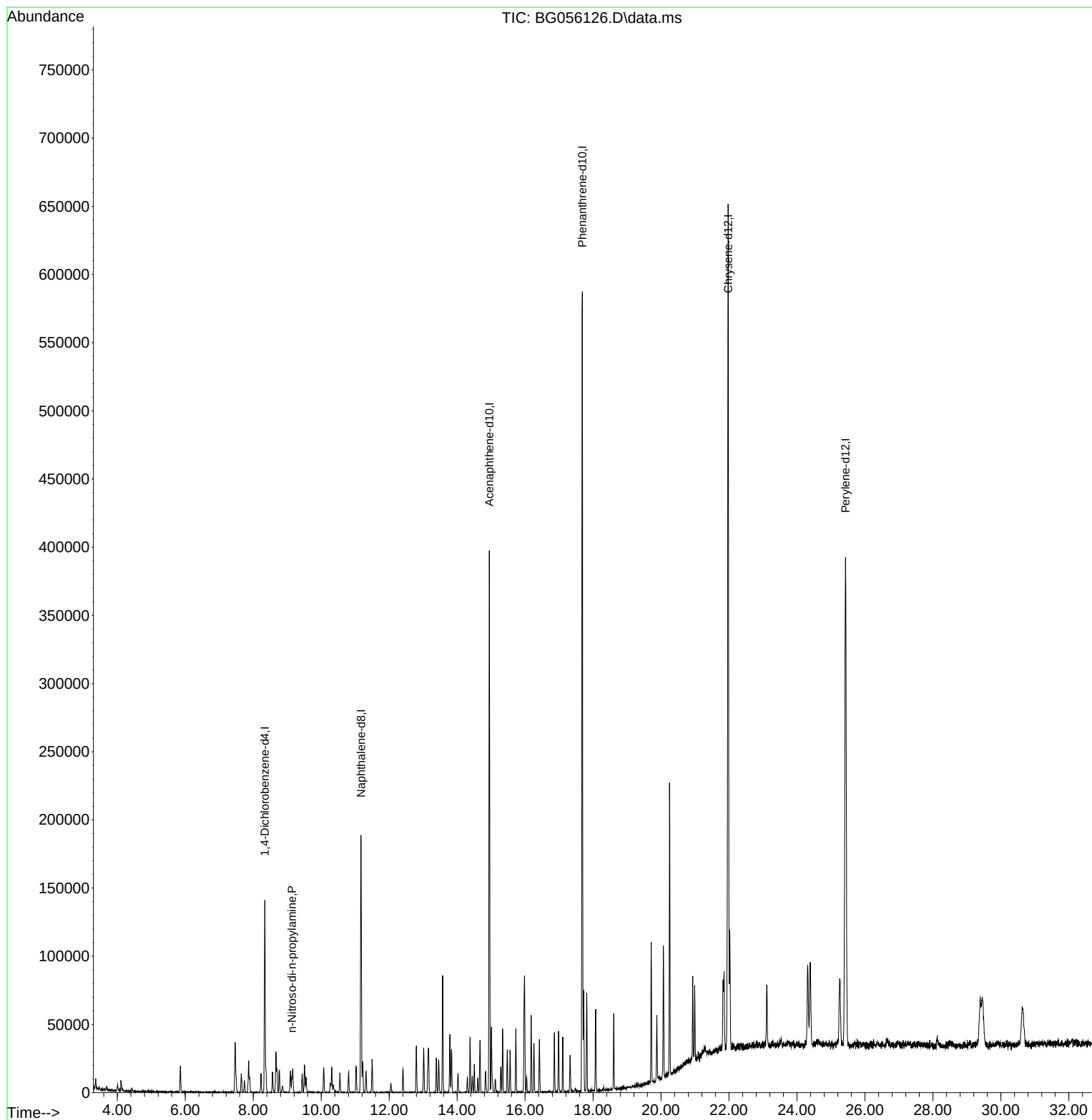
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.340	152	46232	20.000	ng	0.00
21) Naphthalene-d8	11.172	136	173546	20.000	ng	0.00
39) Acenaphthene-d10	14.944	164	149131	20.000	ng	0.00
64) Phenanthrene-d10	17.682	188	418758	20.000	ng	0.00
76) Chrysene-d12	21.971	240	422087	20.000	ng	0.00
86) Perylene-d12	25.426	264	457213	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.000	ng	
7) Phenol-d6	0.000	99	0d	0.000	ng	
23) Nitrobenzene-d5	0.000	82	0d	0.000	ng	
42) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng	
45) 2-Fluorobiphenyl	0.000	172	0d	0.000	ng	
79) Terphenyl-d14	0.000	244	0d	0.000	ng	
Target Compounds						
19) n-Nitroso-di-n-propyla...	9.133	70	6022	3.314	ng	Qvalue # 88

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122722\
Data File : BG056126.D
Acq On : 27 Dec 2022 14:55
Operator : CG/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SSTDICC2.5

Quant Time: Dec 28 04:52:16 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 28 04:51:15 2022
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122722\
 Data File : BG056127.D
 Acq On : 27 Dec 2022 15:36
 Operator : CG/JU
 Sample : SSTDICC005
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

BNA_G

ClientSampleId :

SSTDICC005

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 12/28/2022
 Supervised By :Jagrut Upadhyay 12/28/2022

Quant Time: Dec 28 04:52:53 2022

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Dec 28 04:51:15 2022

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.340	152	43885	20.000	ng	0.00
21) Naphthalene-d8	11.166	136	166353	20.000	ng	# 0.00
39) Acenaphthene-d10	14.944	164	148054	20.000	ng	0.00
64) Phenanthrene-d10	17.676	188	400254	20.000	ng	0.00
76) Chrysene-d12	21.977	240	386697	20.000	ng	0.00
86) Perylene-d12	25.432	264	423911	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.855	112	25651	13.708	ng	0.00
7) Phenol-d6	7.465	99	38393	15.952	ng	0.00
23) Nitrobenzene-d5	9.509	82	33696	14.155	ng	0.00
42) 2,4,6-Tribromophenol	16.419	330	18409	5.157	ng	0.00
45) 2-Fluorobiphenyl	13.575	172	111446	10.557	ng	0.00
79) Terphenyl-d14	20.250	244	233668	10.680	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.675	88	5864	10.768	ng	94
3) Pyridine	4.104	79	16105m	8.986	ng	
4) n-Nitrosodimethylamine	3.998	42	3410	2.117	ng	# 80
6) Aniline	7.647	93	25063	8.698	ng	# 95
8) 2-Chlorophenol	7.894	128	12284	5.088	ng	90
9) Benzaldehyde	7.459	77	12816	8.479	ng	# 86
10) Phenol	7.494	94	19267	7.315	ng	94
11) bis(2-Chloroethyl)ether	7.741	93	13299	7.751	ng	87
12) 1,3-Dichlorobenzene	8.229	146	15590	4.992	ng	96
13) 1,4-Dichlorobenzene	8.375	146	15481	4.851	ng	94
14) 1,2-Dichlorobenzene	8.699	146	14904	4.886	ng	91
15) Benzyl Alcohol	8.569	79	13611	5.443	ng	97
16) 2,2'-oxybis(1-Chloropr...	8.863	45	2648	1.186	ng	85
17) 2-Methylphenol	8.763	107	14076	6.792	ng	99
18) Hexachloroethane	9.439	117	4890	5.047	ng	87
19) n-Nitroso-di-n-propyla...	9.133	70	12240	7.095	ng	# 97
20) 3+4-Methylphenols	9.086	107	19349	6.542	ng	96
22) Acetophenone	9.163	105	23765	5.763	ng	# 93
24) Nitrobenzene	9.551	77	16968	7.082	ng	98
25) Isophorone	10.073	82	36097	7.231	ng	98
26) 2-Nitrophenol	10.267	139	8225	5.799	ng	# 88
27) 2,4-Dimethylphenol	10.309	122	14629	6.141	ng	96
28) bis(2-Chloroethoxy)met...	10.549	93	18736	8.493	ng	97
29) 2,4-Dichlorophenol	10.802	162	15830	4.682	ng	90
30) 1,2,4-Trichlorobenzene	11.025	180	19658	4.473	ng	# 80
31) Naphthalene	11.219	128	44689	5.091	ng	98
32) Benzoic acid	10.356	122	9389	5.109	ng	93
33) 4-Chloroaniline	11.319	127	21592	5.738	ng	96
34) Hexachlorobutadiene	11.495	225	14125	3.418	ng	89
35) Caprolactam	12.048	113	5819	6.177	ng	92
36) 4-Chloro-3-methylphenol	12.406	107	16799	5.299	ng	88
37) 2-Methylnaphthalene	12.800	142	38002	4.900	ng	97
38) 1-Methylnaphthalene	13.011	142	34315	4.542	ng	96
40) 1,2,4,5-Tetrachloroben...	13.152	216	28165	4.509	ng	97
41) Hexachlorocyclopentadiene	13.135	237	14209	4.010	ng	98
43) 2,4,6-Trichlorophenol	13.387	196	17396	4.705	ng	92

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122722\
 Data File : BG056127.D
 Acq On : 27 Dec 2022 15:36
 Operator : CG/JU
 Sample : SSTDICC005
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

BNA_G

ClientSampleId :

SSTDICC005

Manual Integrations

APPROVED

Reviewed By : Christian Giraldo 12/28/2022
 Supervised By : Jagrut Upadhyay 12/28/2022

Quant Time: Dec 28 04:52:53 2022

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Dec 28 04:51:15 2022

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.458	196	21422	5.139	ng	98
46) 1,1'-Biphenyl	13.787	154	53840	5.365	ng	97
47) 2-Chloronaphthalene	13.834	162	42879	5.259	ng	98
48) 2-Nitroaniline	14.022	65	8493	6.226	ng	89
49) Acenaphthylene	14.674	152	69880	5.369	ng	98
50) Dimethylphthalate	14.380	163	61635	4.815	ng	96
51) 2,6-Dinitrotoluene	14.504	165	13056	6.591	ng	94
52) Acenaphthene	15.009	154	45016	5.152	ng	87
53) 3-Nitroaniline	14.833	138	12427	6.168	ng	86
54) 2,4-Dinitrophenol	15.038	184	7746	5.260	ng	92
55) Dibenzofuran	15.338	168	75416	5.133	ng	99
56) 4-Nitrophenol	15.121	139	9272	5.743	ng	# 81
57) 2,4-Dinitrotoluene	15.285	165	17276	5.778	ng	# 85
58) Fluorene	15.984	166	62138	5.173	ng	98
59) 2,3,4,6-Tetrachlorophenol	15.555	232	19819	4.162	ng	# 97
60) Diethylphthalate	15.732	149	60456	4.832	ng	98
61) 4-Chlorophenyl-phenyle...	15.967	204	37424	4.574	ng	93
62) 4-Nitroaniline	15.984	138	12414	5.658	ng	# 80
63) Azobenzene	16.254	77	45417	5.964	ng	96
65) 4,6-Dinitro-2-methylph...	16.049	198	12452	6.512	ng	92
66) n-Nitrosodiphenylamine	16.172	169	55941	5.333	ng	97
67) 4-Bromophenyl-phenylether	16.860	248	25775	4.395	ng	93
68) Hexachlorobenzene	16.983	284	24520	3.394	ng	98
69) Atrazine	17.106	200	22878	4.817	ng	96
70) Pentachlorophenol	17.324	266	16090	3.896	ng	94
71) Phenanthrene	17.717	178	107017	5.102	ng	97
72) Anthracene	17.811	178	112676	5.430	ng	97
73) Carbazole	18.076	167	95566	5.584	ng	98
74) Di-n-butylphthalate	18.605	149	91401	4.592	ng	# 97
75) Fluoranthene	19.709	202	142324	4.846	ng	98
77) Benzidine	19.874	184	70659	10.405	ng	97
78) Pyrene	20.068	202	144698	6.184	ng	98
80) Butylbenzylphthalate	20.931	149	39215	5.914	ng	93
81) Benzo(a)anthracene	21.954	228	140036	5.146	ng	98
82) 3,3'-Dichlorobenzidine	21.854	252	49950	5.102	ng	93
83) Chrysene	22.024	228	130556	5.119	ng	98
84) Bis(2-ethylhexyl)phtha...	21.824	149	58785	5.967	ng	99
85) Di-n-octyl phthalate	23.111	149	96098	5.751	ng	99
87) Indeno(1,2,3-cd)pyrene	29.386	276	157054	4.607	ng	# 96
88) Benzo(b)fluoranthene	24.322	252	138844	5.061	ng	100
89) Benzo(k)fluoranthene	24.386	252	137773	5.033	ng	94
90) Benzo(a)pyrene	25.262	252	135341	5.836	ng	# 97
91) Dibenzo(a,h)anthracene	29.463	278	134554	4.716	ng	# 95
92) Benzo(g,h,i)perylene	30.638	276	128711	4.666	ng	# 93

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

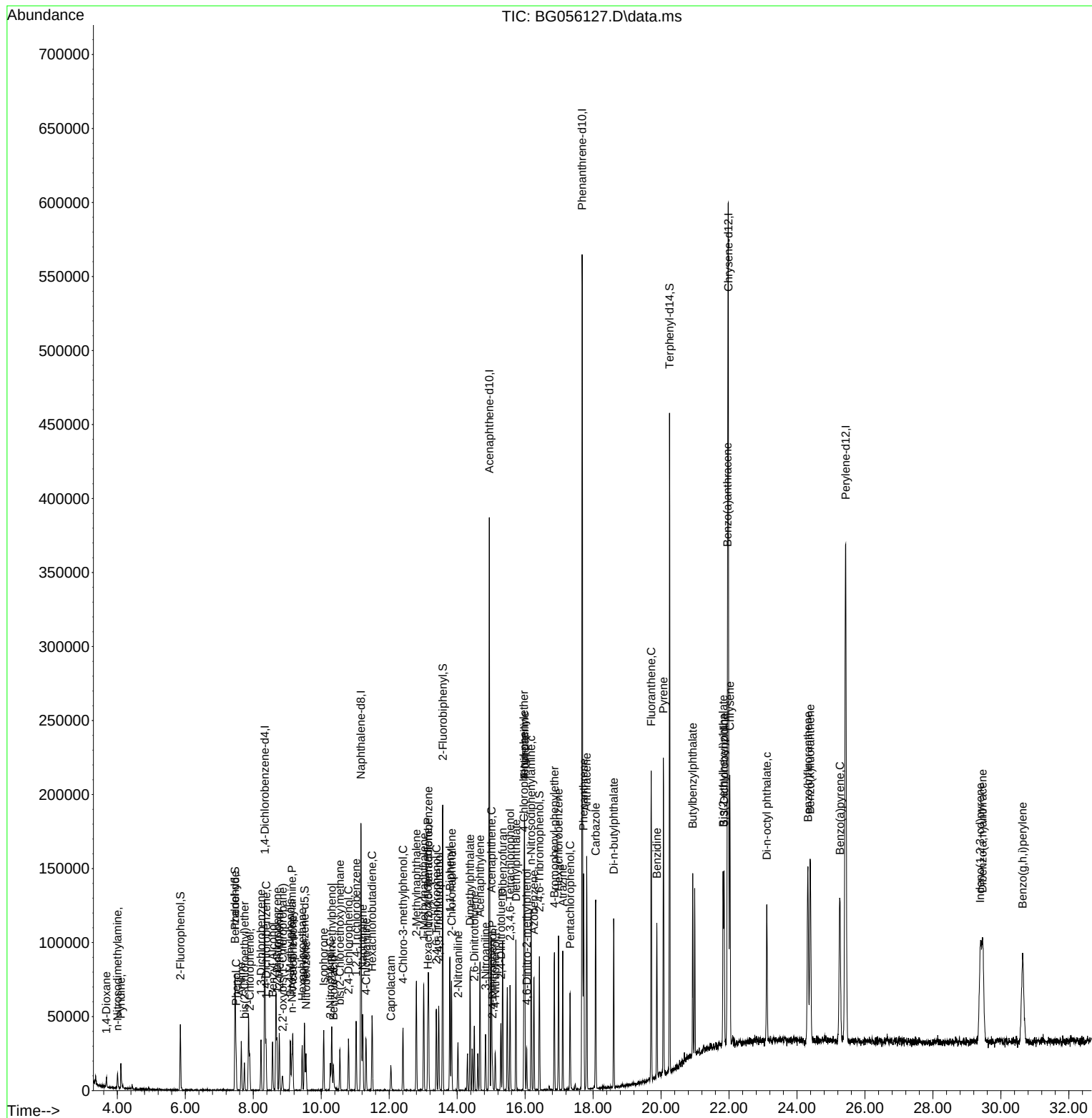
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Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122722\  
Data File : BG056127.D  
Acq On    : 27 Dec 2022  15:36  
Operator  : CG/JU  
Sample    : SSTDICC005  
Misc      :  
ALS Vial  : 3    Sample Multiplier: 1
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Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Christian Giraldo 12/28/2022
Supervised By :Jaqrut Upadhyay 12/28/2022

Quant Time: Dec 28 04:52:53 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 28 04:51:15 2022
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122722\
 Data File : BG056128.D
 Acq On : 27 Dec 2022 16:17
 Operator : CG/JU
 Sample : SSTDICC010
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_G

ClientSampleId :

SSTDICC010

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 12/28/2022
 Supervised By :Jagrut Upadhyay 12/28/2022

Quant Time: Dec 28 04:53:30 2022

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Dec 28 04:51:15 2022

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.336	152	42891	20.000	ng	0.00
21) Naphthalene-d8	11.168	136	167757	20.000	ng	# 0.00
39) Acenaphthene-d10	14.945	164	151521	20.000	ng	0.00
64) Phenanthrene-d10	17.678	188	411709	20.000	ng	0.00
76) Chrysene-d12	21.973	240	400467	20.000	ng	0.00
86) Perylene-d12	25.427	264	440912	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.856	112	50141	27.416	ng	0.00
7) Phenol-d6	7.466	99	74566	31.700	ng	0.00
23) Nitrobenzene-d5	9.505	82	64939	27.051	ng	0.00
42) 2,4,6-Tribromophenol	16.420	330	37767	10.337	ng	0.00
45) 2-Fluorobiphenyl	13.571	172	217093	20.094	ng	0.00
79) Terphenyl-d14	20.251	244	458622	20.240	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.676	88	11850m	22.264	ng	
3) Pyridine	4.099	79	33336	19.032	ng	# 92
4) n-Nitrosodimethylamine	4.005	42	6670	4.236	ng	# 91
6) Aniline	7.648	93	50560	17.953	ng	96
8) 2-Chlorophenol	7.889	128	24107	10.217	ng	93
9) Benzaldehyde	7.460	77	24676	16.704	ng	84
10) Phenol	7.495	94	38773	15.061	ng	99
11) bis(2-Chloroethyl)ether	7.736	93	26768	15.963	ng	90
12) 1,3-Dichlorobenzene	8.224	146	31855	10.437	ng	97
13) 1,4-Dichlorobenzene	8.371	146	30625	9.818	ng	92
14) 1,2-Dichlorobenzene	8.700	146	29252	9.813	ng	98
15) Benzyl Alcohol	8.565	79	26398	10.801	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.847	45	4861m	2.227	ng	
17) 2-Methylphenol	8.759	107	27325	13.490	ng	99
18) Hexachloroethane	9.440	117	9164	9.678	ng	93
19) n-Nitroso-di-n-propyla...	9.135	70	23623	14.011	ng	96
20) 3+4-Methylphenols	9.088	107	37792	13.075	ng	93
22) Acetophenone	9.164	105	48952	11.771	ng	# 97
24) Nitrobenzene	9.546	77	32429	13.421	ng	94
25) Isophorone	10.069	82	70616	14.028	ng	97
26) 2-Nitrophenol	10.269	139	16181	11.312	ng	# 87
27) 2,4-Dimethylphenol	10.310	122	31979	13.312	ng	96
28) bis(2-Chloroethoxy)met...	10.545	93	35824	16.103	ng	96
29) 2,4-Dichlorophenol	10.803	162	32289	9.470	ng	99
30) 1,2,4-Trichlorobenzene	11.027	180	38035	8.581	ng	96
31) Naphthalene	11.220	128	87332	9.866	ng	97
32) Benzoic acid	10.374	122	19692m	10.626	ng	
33) 4-Chloroaniline	11.314	127	41139	10.841	ng	98
34) Hexachlorobutadiene	11.497	225	27372	6.569	ng	94
35) Caprolactam	12.061	113	11316	11.912	ng	98
36) 4-Chloro-3-methylphenol	12.407	107	32248	10.086	ng	98
37) 2-Methylnaphthalene	12.795	142	74947	9.584	ng	95
38) 1-Methylnaphthalene	13.012	142	69133	9.074	ng	94
40) 1,2,4,5-Tetrachloroben...	13.153	216	54500	8.525	ng	99
41) Hexachlorocyclopentadiene	13.136	237	28110	7.751	ng	99
43) 2,4,6-Trichlorophenol	13.383	196	35016	9.253	ng	93

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122722\
 Data File : BG056128.D
 Acq On : 27 Dec 2022 16:17
 Operator : CG/JU
 Sample : SSTDICC010
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_G

ClientSampleId :

SSTDICC010

Manual Integrations

APPROVED

Reviewed By : Christian Giraldo 12/28/2022
 Supervised By : Jagrut Upadhyay 12/28/2022

Quant Time: Dec 28 04:53:30 2022

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Dec 28 04:51:15 2022

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.453	196	43189	10.124	ng	95
46) 1,1'-Biphenyl	13.782	154	105921	10.313	ng	97
47) 2-Chloronaphthalene	13.835	162	83754	10.036	ng	95
48) 2-Nitroaniline	14.023	65	17159	12.292	ng	97
49) Acenaphthylene	14.669	152	137004	10.285	ng	96
50) Dimethylphthalate	14.381	163	123025	9.391	ng	99
51) 2,6-Dinitrotoluene	14.505	165	25939	12.796	ng	94
52) Acenaphthene	15.010	154	85336	9.543	ng	93
53) 3-Nitroaniline	14.834	138	23334	11.316	ng	# 76
54) 2,4-Dinitrophenol	15.039	184	17349	11.512	ng	# 85
55) Dibenzofuran	15.339	168	146888	9.768	ng	94
56) 4-Nitrophenol	15.122	139	18218	11.025	ng	98
57) 2,4-Dinitrotoluene	15.286	165	34942	11.419	ng	89
58) Fluorene	15.985	166	120341	9.790	ng	98
59) 2,3,4,6-Tetrachlorophenol	15.557	232	40204m	8.250	ng	
60) Diethylphthalate	15.727	149	115070	8.987	ng	98
61) 4-Chlorophenyl-phenyle...	15.968	204	73853	8.819	ng	95
62) 4-Nitroaniline	15.985	138	25481	11.347	ng	88
63) Azobenzene	16.262	77	90864	11.659	ng	96
65) 4,6-Dinitro-2-methylph...	16.044	198	24763	12.591	ng	96
66) n-Nitrosodiphenylamine	16.179	169	112233	10.403	ng	95
67) 4-Bromophenyl-phenylether	16.861	248	50994	8.453	ng	96
68) Hexachlorobenzene	16.984	284	47192	6.351	ng	98
69) Atrazine	17.108	200	48390	9.906	ng	97
70) Pentachlorophenol	17.325	266	34788	8.189	ng	95
71) Phenanthrene	17.719	178	213851	9.912	ng	96
72) Anthracene	17.813	178	219066	10.263	ng	99
73) Carbazole	18.077	167	185738	10.551	ng	98
74) Di-n-butylphthalate	18.606	149	181879	8.884	ng	100
75) Fluoranthene	19.710	202	281952	9.332	ng	98
77) Benzidine	19.875	184	140168	19.930	ng	99
78) Pyrene	20.069	202	286541	11.825	ng	98
80) Butylbenzylphthalate	20.933	149	77622	11.304	ng	98
81) Benzo(a)anthracene	21.955	228	279946	9.934	ng	97
82) 3,3'-Dichlorobenzidine	21.855	252	99837	9.847	ng	97
83) Chrysene	22.025	228	262534	9.940	ng	98
84) Bis(2-ethylhexyl)phtha...	21.826	149	113450	11.121	ng	98
85) Di-n-octyl phthalate	23.112	149	194744	11.254	ng	100
87) Indeno(1,2,3-cd)pyrene	29.399	276	315023	8.885	ng	# 96
88) Benzo(b)fluoranthene	24.317	252	272349	9.544	ng	98
89) Benzo(k)fluoranthene	24.387	252	283075	9.943	ng	99
90) Benzo(a)pyrene	25.257	252	271843	11.270	ng	98
91) Dibenzo(a,h)anthracene	29.470	278	269355	9.077	ng	97
92) Benzo(g,h,i)perylene	30.645	276	256170	8.928	ng	95

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122722\
 Data File : BG056128.D
 Acq On : 27 Dec 2022 16:17
 Operator : CG/JU
 Sample : SSTDICC010
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_G

ClientSampleId :

SSTDICC010

Manual Integrations

APPROVED

Reviewed By : Christian Giraldo 12/28/2022
 Supervised By : Jagrut Upadhyay 12/28/2022

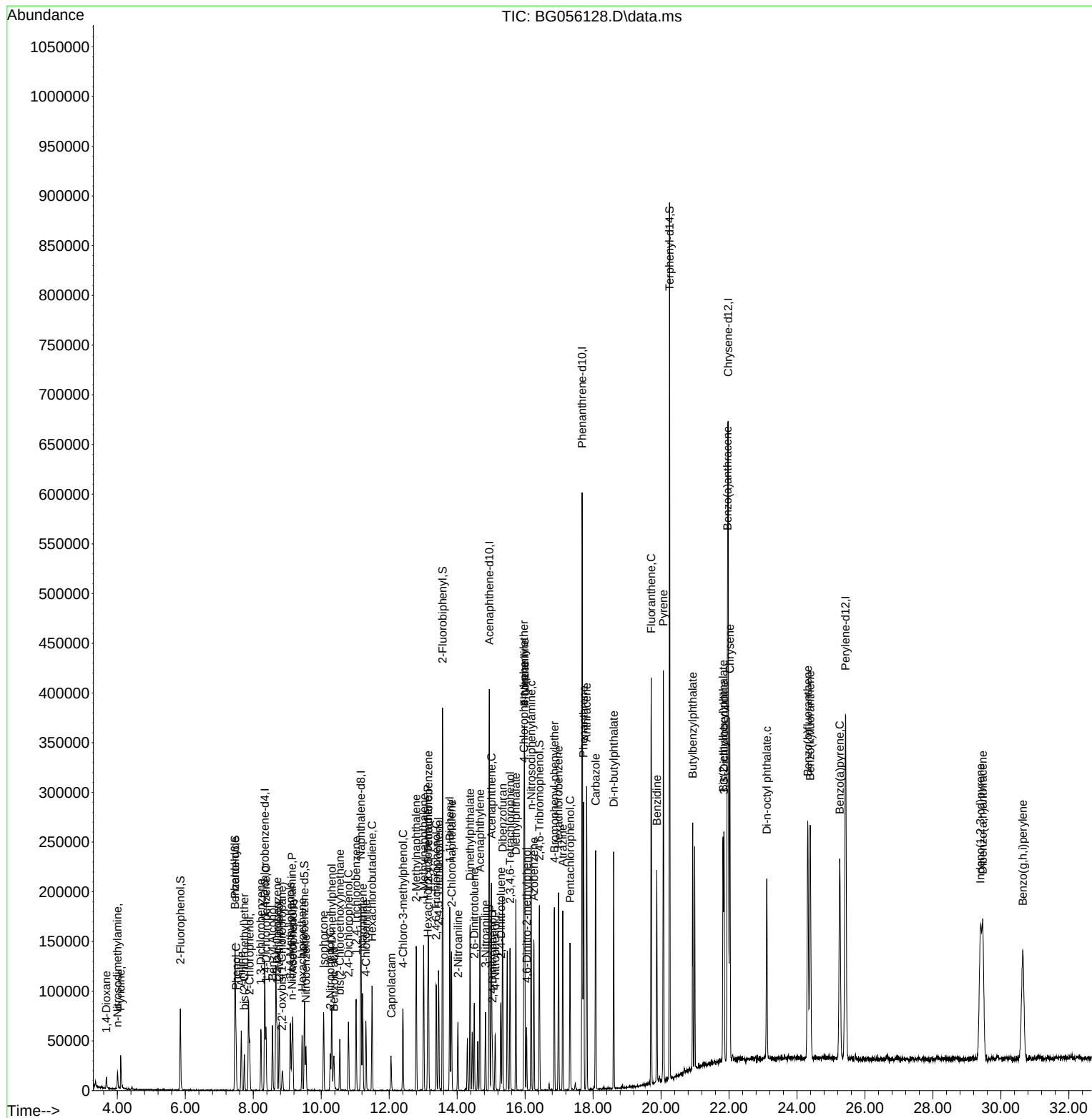
Quant Time: Dec 28 04:53:30 2022

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Dec 28 04:51:15 2022

Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122722\
 Data File : BG056129.D
 Acq On : 27 Dec 2022 16:58
 Operator : CG/JU
 Sample : SSTDICC020
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SSTDICC020

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 12/28/2022
 Supervised By :Jagrut Upadhyay 12/28/2022

Quant Time: Dec 28 04:54:06 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 28 04:51:15 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.338	152	40608	20.000	ng	0.00
21) Naphthalene-d8	11.169	136	162329	20.000	ng	0.00
39) Acenaphthene-d10	14.947	164	143990	20.000	ng	0.00
64) Phenanthrene-d10	17.679	188	389214	20.000	ng	0.00
76) Chrysene-d12	21.974	240	380242	20.000	ng	0.00
86) Perylene-d12	25.423	264	417769	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.852	112	93989	54.280	ng	0.00
7) Phenol-d6	7.468	99	144629	64.943	ng	0.00
23) Nitrobenzene-d5	9.513	82	130103	56.009	ng	0.00
42) 2,4,6-Tribromophenol	16.422	330	74388	21.425	ng	0.00
45) 2-Fluorobiphenyl	13.573	172	417747	40.689	ng	0.00
79) Terphenyl-d14	20.253	244	866677	40.284	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.678	88	21725m	43.113	ng	
3) Pyridine	4.095	79	68207	41.129	ng	96
4) n-Nitrosodimethylamine	4.007	42	13404	8.991	ng	# 97
6) Aniline	7.650	93	94653	35.499	ng	98
8) 2-Chlorophenol	7.891	128	46957	21.020	ng	93
9) Benzaldehyde	7.462	77	44981	32.161	ng	98
10) Phenol	7.491	94	73308	30.077	ng	94
11) bis(2-Chloroethyl)ether	7.738	93	52185	32.870	ng	98
12) 1,3-Dichlorobenzene	8.226	146	56188	19.444	ng	94
13) 1,4-Dichlorobenzene	8.373	146	56599	19.165	ng	96
14) 1,2-Dichlorobenzene	8.696	146	55812	19.775	ng	97
15) Benzyl Alcohol	8.567	79	52386	22.638	ng	97
16) 2,2'-oxybis(1-Chloropr...	8.855	45	8759	4.239	ng	89
17) 2-Methylphenol	8.766	107	53905	28.109	ng	93
18) Hexachloroethane	9.436	117	17452	19.468	ng	92
19) n-Nitroso-di-n-propyla...	9.137	70	44170	27.670	ng	98
20) 3+4-Methylphenols	9.090	107	74649	27.278	ng	98
22) Acetophenone	9.160	105	92836	23.070	ng	97
24) Nitrobenzene	9.548	77	63241	27.048	ng	99
25) Isophorone	10.071	82	134386	27.590	ng	99
26) 2-Nitrophenol	10.265	139	31704	22.905	ng	99
27) 2,4-Dimethylphenol	10.312	122	60320	25.949	ng	97
28) bis(2-Chloroethoxy)met...	10.547	93	73122	33.967	ng	# 98
29) 2,4-Dichlorophenol	10.799	162	64460	19.537	ng	98
30) 1,2,4-Trichlorobenzene	11.028	180	73297	17.090	ng	99
31) Naphthalene	11.222	128	172775	20.172	ng	98
32) Benzoic acid	10.394	122	46134	25.727	ng	95
33) 4-Chloroaniline	11.316	127	81286	22.138	ng	99
34) Hexachlorobutadiene	11.498	225	53071	13.162	ng	98
35) Caprolactam	12.063	113	23561	25.630	ng	95
36) 4-Chloro-3-methylphenol	12.403	107	67704	21.884	ng	96
37) 2-Methylnaphthalene	12.803	142	142586	18.842	ng	99
38) 1-Methylnaphthalene	13.014	142	136981	18.581	ng	95
40) 1,2,4,5-Tetrachloroben...	13.155	216	108015	17.780	ng	99
41) Hexachlorocyclopentadiene	13.138	237	59739	17.333	ng	96
43) 2,4,6-Trichlorophenol	13.385	196	71184	19.794	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122722\
 Data File : BG056129.D
 Acq On : 27 Dec 2022 16:58
 Operator : CG/JU
 Sample : SSTDICC020
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

BNA_G

ClientSampleId :

SSTDICC020

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 12/28/2022
 Supervised By :Jagrut Upadhyay 12/28/2022

Quant Time: Dec 28 04:54:06 2022

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Dec 28 04:51:15 2022

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.455	196	83267	20.540	ng	99
46) 1,1'-Biphenyl	13.784	154	208463	21.359	ng	99
47) 2-Chloronaphthalene	13.837	162	160877	20.286	ng	99
48) 2-Nitroaniline	14.025	65	35104	26.462	ng	97
49) Acenaphthylene	14.671	152	265093	20.942	ng	99
50) Dimethylphthalate	14.383	163	241055	19.364	ng	97
51) 2,6-Dinitrotoluene	14.507	165	49255	25.568	ng	96
52) Acenaphthene	15.012	154	173041	20.362	ng	99
53) 3-Nitroaniline	14.836	138	47310	24.144	ng	95
54) 2,4-Dinitrophenol	15.036	184	35907	25.072	ng	96
55) Dibenzofuran	15.335	168	290124	20.302	ng	99
56) 4-Nitrophenol	15.118	139	36868	23.479	ng	89
57) 2,4-Dinitrotoluene	15.288	165	70249	24.158	ng	94
58) Fluorene	15.987	166	233762	20.011	ng	98
59) 2,3,4,6-Tetrachlorophenol	15.558	232	81990	17.704	ng	# 98
60) Diethylphthalate	15.729	149	220798	18.146	ng	99
61) 4-Chlorophenyl-phenyle...	15.964	204	144980	18.218	ng	96
62) 4-Nitroaniline	15.987	138	49914	23.391	ng	92
63) Azobenzene	16.258	77	173725	23.458	ng	97
65) 4,6-Dinitro-2-methylph...	16.046	198	52373	28.168	ng	97
66) n-Nitrosodiphenylamine	16.175	169	216417	21.218	ng	98
67) 4-Bromophenyl-phenylether	16.857	248	98820	17.327	ng	96
68) Hexachlorobenzene	16.986	284	91566	13.035	ng	100
69) Atrazine	17.110	200	90393	19.573	ng	99
70) Pentachlorophenol	17.321	266	70361	17.520	ng	96
71) Phenanthrene	17.721	178	406188	19.914	ng	99
72) Anthracene	17.815	178	423455	20.985	ng	98
73) Carbazole	18.073	167	352090	21.156	ng	99
74) Di-n-butylphthalate	18.608	149	355389	18.362	ng	99
75) Fluoranthene	19.712	202	539062	18.874	ng	99
77) Benzidine	19.877	184	265540	39.765	ng	99
78) Pyrene	20.071	202	541364	23.529	ng	99
80) Butylbenzylphthalate	20.929	149	152503	23.391	ng	96
81) Benzo(a)anthracene	21.951	228	532675	19.908	ng	99
82) 3,3'-Dichlorobenzidine	21.851	252	191986	19.943	ng	98
83) Chrysene	22.021	228	499820	19.931	ng	99
84) Bis(2-ethylhexyl)phtha...	21.822	149	214945	22.190	ng	98
85) Di-n-octyl phthalate	23.108	149	371119	22.586	ng	100
87) Indeno(1,2,3-cd)pyrene	29.407	276	604461	17.993	ng	# 97
88) Benzo(b)fluoranthene	24.319	252	536655m	19.849	ng	
89) Benzo(k)fluoranthene	24.395	252	520150	19.282	ng	100
90) Benzo(a)pyrene	25.259	252	513781	22.481	ng	97
91) Dibenzo(a,h)anthracene	29.472	278	510236	18.146	ng	98
92) Benzo(g,h,i)perylene	30.647	276	492382	18.111	ng	96

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

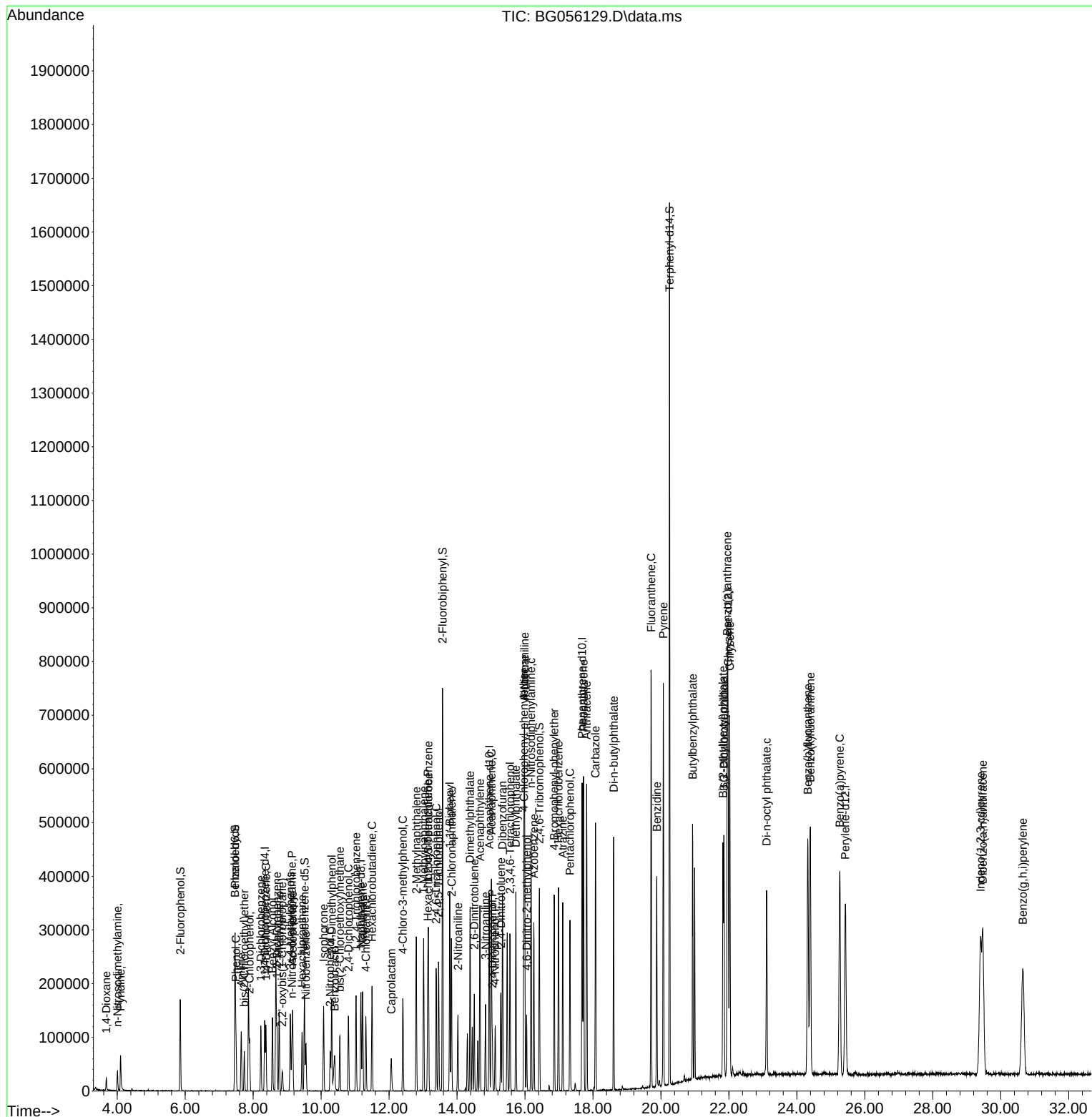
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Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122722\  
Data File : BG056129.D  
Acq On    : 27 Dec 2022  16:58  
Operator  : CG/JU  
Sample    : SSTDICC020  
Misc      :  
ALS Vial  : 5    Sample Multiplier: 1
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Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Christian Giraldo 12/28/2022
Supervised By :Jagrut Upadhyay 12/28/2022

Quant Time: Dec 28 04:54:06 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 28 04:51:15 2022
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122722\
 Data File : BG056130.D
 Acq On : 27 Dec 2022 17:40
 Operator : CG/JU
 Sample : SSTDICCC040
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SSTDICCC040

Quant Time: Dec 28 04:54:43 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 28 04:51:15 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.338	152	41150	20.000	ng	0.00
21) Naphthalene-d8	11.170	136	163717	20.000	ng	0.00
39) Acenaphthene-d10	14.948	164	138977	20.000	ng	0.00
64) Phenanthrene-d10	17.680	188	365985	20.000	ng	0.00
76) Chrysene-d12	21.975	240	356915	20.000	ng	0.00
86) Perylene-d12	25.424	264	394986	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.853	112	185638	105.797	ng	0.00
7) Phenol-d6	7.469	99	293933	130.247	ng	0.00
23) Nitrobenzene-d5	9.513	82	254990	108.842	ng	0.00
42) 2,4,6-Tribromophenol	16.423	330	142987	42.668	ng	0.00
45) 2-Fluorobiphenyl	13.573	172	816851	82.432	ng	0.00
79) Terphenyl-d14	20.254	244	1589598	78.715	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.679	88	44303	86.760	ng	100
3) Pyridine	4.096	79	133090	79.197	ng	100
4) n-Nitrosodimethylamine	4.002	42	27577	18.255	ng	100
6) Aniline	7.651	93	189288	70.056	ng	100
8) 2-Chlorophenol	7.897	128	93592	41.344	ng	100
9) Benzaldehyde	7.463	77	82353	58.106	ng	100
10) Phenol	7.498	94	147789	59.836	ng	100
11) bis(2-Chloroethyl)ether	7.739	93	98345	61.129	ng	100
12) 1,3-Dichlorobenzene	8.227	146	111532	38.087	ng	100
13) 1,4-Dichlorobenzene	8.373	146	113818	38.032	ng	100
14) 1,2-Dichlorobenzene	8.697	146	109658	38.341	ng	100
15) Benzyl Alcohol	8.567	79	108231	46.155	ng	100
16) 2,2'-oxybis(1-Chloropr...	8.861	45	17314	8.269	ng	100
17) 2-Methylphenol	8.767	107	109419	56.306	ng	100
18) Hexachloroethane	9.437	117	34386	37.852	ng	100
19) n-Nitroso-di-n-propyla...	9.143	70	87233	53.927	ng	100
20) 3+4-Methylphenols	9.096	107	154066	55.556	ng	100
22) Acetophenone	9.167	105	185776	45.775	ng	100
24) Nitrobenzene	9.554	77	125533	53.234	ng	100
25) Isophorone	10.071	82	268024	54.559	ng	100
26) 2-Nitrophenol	10.271	139	64692	46.342	ng	100
27) 2,4-Dimethylphenol	10.312	122	117539	50.135	ng	100
28) bis(2-Chloroethoxy)met...	10.547	93	137624	63.387	ng	100
29) 2,4-Dichlorophenol	10.806	162	134596	40.449	ng	100
30) 1,2,4-Trichlorobenzene	11.029	180	146732	33.921	ng	100
31) Naphthalene	11.223	128	339119	39.257	ng	100
32) Benzoic acid	10.424	122	91272	50.467	ng	100
33) 4-Chloroaniline	11.317	127	164336	44.376	ng	100
34) Hexachlorobutadiene	11.499	225	108000	26.557	ng	100
35) Caprolactam	12.081	113	43800	47.243	ng	100
36) 4-Chloro-3-methylphenol	12.410	107	131645	42.191	ng	100
37) 2-Methylnaphthalene	12.798	142	291579	38.205	ng	100
38) 1-Methylnaphthalene	13.015	142	267410	35.966	ng	100
40) 1,2,4,5-Tetrachloroben...	13.156	216	212505	36.241	ng	100
41) Hexachlorocyclopentadiene	13.138	237	126856	38.135	ng	100
43) 2,4,6-Trichlorophenol	13.385	196	143610	41.374	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122722\
 Data File : BG056130.D
 Acq On : 27 Dec 2022 17:40
 Operator : CG/JU
 Sample : SSTDICCC040
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SSTDICCC040

Quant Time: Dec 28 04:54:43 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 28 04:51:15 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.462	196	166077	42.445	ng	100
46) 1,1'-Biphenyl	13.785	154	405099	43.003	ng	100
47) 2-Chloronaphthalene	13.832	162	319435	41.733	ng	100
48) 2-Nitroaniline	14.026	65	68268	53.318	ng	100
49) Acenaphthylene	14.672	152	520448	42.598	ng	100
50) Dimethylphthalate	14.384	163	451531	37.579	ng	100
51) 2,6-Dinitrotoluene	14.507	165	94702	50.932	ng	100
52) Acenaphthene	15.013	154	340030	41.456	ng	100
53) 3-Nitroaniline	14.842	138	92791	49.063	ng	100
54) 2,4-Dinitrophenol	15.042	184	72460	52.420	ng	100
55) Dibenzofuran	15.342	168	562059	40.750	ng	100
56) 4-Nitrophenol	15.124	139	72602	47.904	ng	100
57) 2,4-Dinitrotoluene	15.289	165	137928	49.143	ng	100
58) Fluorene	15.988	166	445100	39.477	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.559	232	155442	34.774	ng	97
60) Diethylphthalate	15.735	149	425545	36.235	ng	100
61) 4-Chlorophenyl-phenyle...	15.964	204	281428	36.640	ng	100
62) 4-Nitroaniline	15.994	138	96012	46.616	ng	100
63) Azobenzene	16.258	77	325019	45.470	ng	100
65) 4,6-Dinitro-2-methylph...	16.053	198	103491	59.194	ng	100
66) n-Nitrosodiphenylamine	16.182	169	409612	42.709	ng	100
67) 4-Bromophenyl-phenylether	16.863	248	188548	35.158	ng	100
68) Hexachlorobenzene	16.987	284	176076	26.656	ng	100
69) Atrazine	17.110	200	174208	40.116	ng	100
70) Pentachlorophenol	17.322	266	139007	36.810	ng	100
71) Phenanthrene	17.721	178	767665	40.025	ng	100
72) Anthracene	17.815	178	791142	41.694	ng	100
73) Carbazole	18.074	167	668256	42.702	ng	100
74) Di-n-butylphthalate	18.608	149	669316	36.777	ng	100
75) Fluoranthene	19.713	202	1004927	37.418	ng	100
77) Benzidine	19.878	184	522554	83.368	ng	100
78) Pyrene	20.071	202	1001916	46.391	ng	100
80) Butylbenzylphthalate	20.929	149	292007	47.715	ng	100
81) Benzo(a)anthracene	21.952	228	1010480	40.234	ng	100
82) 3,3'-Dichlorobenzidine	21.858	252	375400	41.544	ng	100
83) Chrysene	22.022	228	951523	40.424	ng	100
84) Bis(2-ethylhexyl)phtha...	21.822	149	421207	46.326	ng	100
85) Di-n-octyl phthalate	23.115	149	714077	46.299	ng	100
87) Indeno(1,2,3-cd)pyrene	29.419	276	1172160	36.904	ng	100
88) Benzo(b)fluoranthene	24.325	252	1024766	40.088	ng	100
89) Benzo(k)fluoranthene	24.396	252	1013467	39.737	ng	100
90) Benzo(a)pyrene	25.271	252	996026	46.095	ng	100
91) Dibenzo(a,h)anthracene	29.478	278	975139	36.680	ng	100
92) Benzo(g,h,i)perylene	30.671	276	958304	37.283	ng	100

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

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

[illegible]

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122722\
 Data File : BG056131.D
 Acq On : 27 Dec 2022 18:21
 Operator : CG/JU
 Sample : SSTDICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :

BNA_G

ClientSampleId :

SSTDICC050

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 12/28/2022
 Supervised By :Jagrut Upadhyay 12/28/2022

Quant Time: Dec 28 04:55:19 2022

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Dec 28 04:51:15 2022

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.337	152	46474	20.000	ng	0.00
21) Naphthalene-d8	11.169	136	182515	20.000	ng	# 0.00
39) Acenaphthene-d10	14.947	164	153441	20.000	ng	0.00
64) Phenanthrene-d10	17.679	188	401484	20.000	ng	0.00
76) Chrysene-d12	21.980	240	375034	20.000	ng	0.00
86) Perylene-d12	25.429	264	414943	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.852	112	262085	132.254	ng	0.00
7) Phenol-d6	7.473	99	401691	157.605	ng	0.00
23) Nitrobenzene-d5	9.512	82	351834	134.712	ng	0.00
42) 2,4,6-Tribromophenol	16.422	330	199169	53.831	ng	0.00
45) 2-Fluorobiphenyl	13.578	172	1139867	104.186	ng	0.00
79) Terphenyl-d14	20.253	244	2072627	97.675	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.678	88	58297m	101.086	ng	
3) Pyridine	4.095	79	185820	97.908	ng	98
4) n-Nitrosodimethylamine	4.007	42	38486	22.558	ng	93
6) Aniline	7.650	93	258834	84.821	ng	98
8) 2-Chlorophenol	7.896	128	130031	50.860	ng	95
9) Benzaldehyde	7.462	77	115837	72.368	ng	94
10) Phenol	7.497	94	204038	73.147	ng	97
11) bis(2-Chloroethyl)ether	7.744	93	134961	74.278	ng	95
12) 1,3-Dichlorobenzene	8.226	146	157209	47.535	ng	97
13) 1,4-Dichlorobenzene	8.372	146	158222	46.813	ng	97
14) 1,2-Dichlorobenzene	8.701	146	153518	47.527	ng	98
15) Benzyl Alcohol	8.572	79	147320	55.628	ng	100
16) 2,2'-oxybis(1-Chloropr...	8.860	45	23320	9.861	ng	95
17) 2-Methylphenol	8.766	107	148134	67.496	ng	98
18) Hexachloroethane	9.436	117	48775	47.541	ng	96
19) n-Nitroso-di-n-propyla...	9.142	70	122075	66.821	ng	98
20) 3+4-Methylphenols	9.095	107	212007	67.692	ng	97
22) Acetophenone	9.166	105	257545	56.923	ng	# 99
24) Nitrobenzene	9.553	77	176491	67.136	ng	97
25) Isophorone	10.076	82	371460	67.827	ng	97
26) 2-Nitrophenol	10.270	139	91375	58.715	ng	97
27) 2,4-Dimethylphenol	10.311	122	162664	62.237	ng	97
28) bis(2-Chloroethoxy)met...	10.552	93	193351	79.882	ng	99
29) 2,4-Dichlorophenol	10.805	162	188331	50.768	ng	99
30) 1,2,4-Trichlorobenzene	11.028	180	208686	43.275	ng	99
31) Naphthalene	11.222	128	481464	49.994	ng	100
32) Benzoic acid	10.446	122	131189	65.067	ng	95
33) 4-Chloroaniline	11.316	127	228789	55.418	ng	95
34) Hexachlorobutadiene	11.498	225	147102	32.447	ng	98
35) Caprolactam	12.092	113	59131	57.210	ng	90
36) 4-Chloro-3-methylphenol	12.409	107	188549	54.204	ng	98
37) 2-Methylnaphthalene	12.803	142	405300	47.636	ng	99
38) 1-Methylnaphthalene	13.014	142	378011	45.605	ng	94
40) 1,2,4,5-Tetrachloroben...	13.161	216	297719	45.987	ng	99
41) Hexachlorocyclopentadiene	13.137	237	181117	49.314	ng	97
43) 2,4,6-Trichlorophenol	13.390	196	202160	52.752	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122722\
 Data File : BG056131.D
 Acq On : 27 Dec 2022 18:21
 Operator : CG/JU
 Sample : SSTDICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :

BNA_G

ClientSampleId :

SSTDICC050

Manual Integrations

APPROVED

Reviewed By : Christian Giraldo 12/28/2022
 Supervised By : Jagrut Upadhyay 12/28/2022

Quant Time: Dec 28 04:55:19 2022

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Dec 28 04:51:15 2022

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.461	196	236330	54.706	ng	98
46) 1,1'-Biphenyl	13.790	154	561061	53.945	ng	98
47) 2-Chloronaphthalene	13.837	162	444725	52.624	ng	99
48) 2-Nitroaniline	14.025	65	96826	68.494	ng	96
49) Acenaphthylene	14.677	152	726071	53.826	ng	98
50) Dimethylphthalate	14.389	163	624100	47.045	ng	99
51) 2,6-Dinitrotoluene	14.512	165	135707	66.106	ng	97
52) Acenaphthene	15.012	154	476869	52.659	ng	100
53) 3-Nitroaniline	14.841	138	130227	62.366	ng	98
54) 2,4-Dinitrophenol	15.041	184	100323	65.736	ng	97
55) Dibenzofuran	15.341	168	773297	50.780	ng	97
56) 4-Nitrophenol	15.129	139	96654	57.763	ng	96
57) 2,4-Dinitrotoluene	15.294	165	191093	61.668	ng	93
58) Fluorene	15.987	166	616167	49.497	ng	98
59) 2,3,4,6-Tetrachlorophenol	15.558	232	218395	44.252	ng	97
60) Diethylphthalate	15.734	149	584090	45.047	ng	99
61) 4-Chlorophenyl-phenyle...	15.969	204	390989	46.106	ng	100
62) 4-Nitroaniline	15.999	138	127676	56.146	ng	98
63) Azobenzene	16.263	77	451432	57.202	ng	98
65) 4,6-Dinitro-2-methylph...	16.052	198	141711	73.889	ng	99
66) n-Nitrosodiphenylamine	16.181	169	569834	54.161	ng	97
67) 4-Bromophenyl-phenylether	16.862	248	262333	44.592	ng	97
68) Hexachlorobenzene	16.986	284	242611	33.481	ng	99
69) Atrazine	17.115	200	230407	48.366	ng	96
70) Pentachlorophenol	17.321	266	193724	46.763	ng	96
71) Phenanthrene	17.726	178	1043172	49.581	ng	98
72) Anthracene	17.814	178	1070715	51.439	ng	99
73) Carbazole	18.079	167	889951	51.840	ng	99
74) Di-n-butylphthalate	18.607	149	901336	45.146	ng	99
75) Fluoranthene	19.712	202	1335754	45.338	ng	99
77) Benzidine	19.877	184	654402	99.359	ng	100
78) Pyrene	20.070	202	1330044	58.609	ng	99
80) Butylbenzylphthalate	20.934	149	391769	60.923	ng	98
81) Benzo(a)anthracene	21.956	228	1335265	50.597	ng	99
82) 3,3'-Dichlorobenzidine	21.857	252	480481	50.604	ng	96
83) Chrysene	22.027	228	1250278	50.550	ng	98
84) Bis(2-ethylhexyl)phtha...	21.821	149	563504	58.982	ng	98
85) Di-n-octyl phthalate	23.114	149	944637	58.289	ng	100
87) Indeno(1,2,3-cd)pyrene	29.418	276	1500813	44.979	ng	# 98
88) Benzo(b)fluoranthene	24.324	252	1325082	49.343	ng	98
89) Benzo(k)fluoranthene	24.401	252	1332321	49.726	ng	99
90) Benzo(a)pyrene	25.270	252	1305182	57.498	ng	99
91) Dibenzo(a,h)anthracene	29.483	278	1242993	44.507	ng	99
92) Benzo(g,h,i)perylene	30.676	276	1212852	44.917	ng	98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122722\
 Data File : BG056131.D
 Acq On : 27 Dec 2022 18:21
 Operator : CG/JU
 Sample : SSTDICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :

BNA_G

ClientSampleId :

SSTDICC050

Manual Integrations

APPROVED

Reviewed By : Christian Giraldo 12/28/2022
 Supervised By : Jagrut Upadhyay 12/28/2022

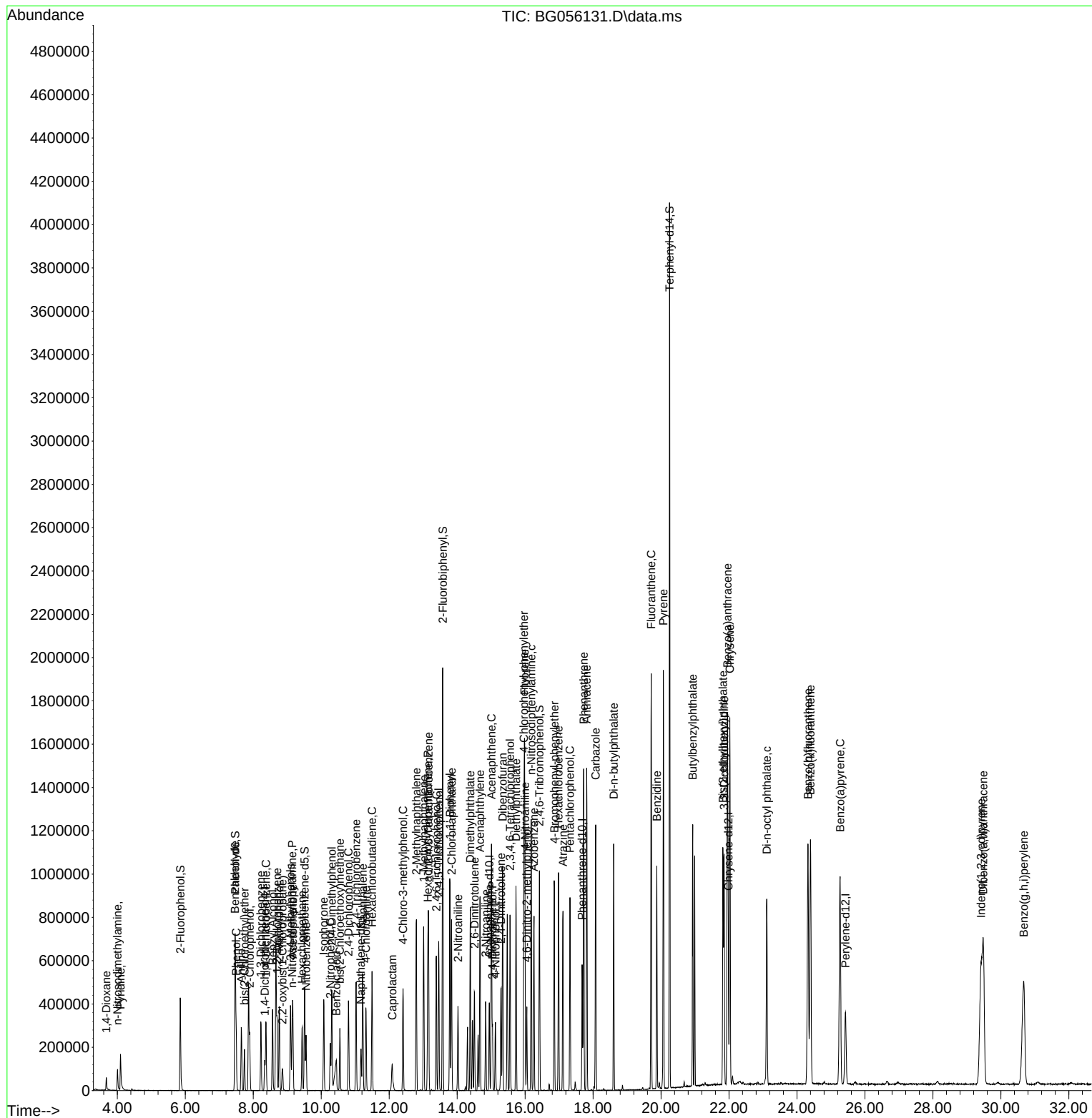
Quant Time: Dec 28 04:55:19 2022

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Dec 28 04:51:15 2022

Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122722\
 Data File : BG056132.D
 Acq On : 27 Dec 2022 19:01
 Operator : CG/JU
 Sample : SSTDICC060
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

BNA_G

ClientSampleId :

SSTDICC060

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 12/28/2022
 Supervised By :Jagrut Upadhyay 12/28/2022

Quant Time: Dec 28 04:55:55 2022

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Dec 28 04:51:15 2022

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.337	152	44616	20.000	ng	0.00
21) Naphthalene-d8	11.169	136	167505	20.000	ng	0.00
39) Acenaphthene-d10	14.947	164	145127	20.000	ng	0.00
64) Phenanthrene-d10	17.679	188	377578	20.000	ng	0.00
76) Chrysene-d12	21.980	240	362695	20.000	ng	0.00
86) Perylene-d12	25.423	264	399880	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.852	112	284046	149.305	ng	0.00
7) Phenol-d6	7.473	99	442507	180.850	ng	0.00
23) Nitrobenzene-d5	9.512	82	393395	164.122	ng	0.00
42) 2,4,6-Tribromophenol	16.422	330	220999	63.153	ng	0.00
45) 2-Fluorobiphenyl	13.578	172	1244872	120.302	ng	0.00
79) Terphenyl-d14	20.253	244	2332611	113.667	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.678	88	63859	115.342	ng	97
3) Pyridine	4.095	79	204482	112.228	ng	99
4) n-Nitrosodimethylamine	4.001	42	40248	24.573	ng	# 93
6) Aniline	7.650	93	291263	99.423	ng	98
8) 2-Chlorophenol	7.896	128	146940	59.868	ng	96
9) Benzaldehyde	7.462	77	120283	78.275	ng	97
10) Phenol	7.497	94	225162	84.081	ng	96
11) bis(2-Chloroethyl)ether	7.744	93	147657	84.650	ng	94
12) 1,3-Dichlorobenzene	8.226	146	171036	53.870	ng	93
13) 1,4-Dichlorobenzene	8.372	146	174250	53.702	ng	100
14) 1,2-Dichlorobenzene	8.701	146	167143	53.900	ng	99
15) Benzyl Alcohol	8.572	79	163326	64.240	ng	97
16) 2,2'-oxybis(1-Chloropr...	8.860	45	25024	11.023	ng	91
17) 2-Methylphenol	8.766	107	166912	79.219	ng	99
18) Hexachloroethane	9.436	117	51644	52.433	ng	93
19) n-Nitroso-di-n-propyla...	9.142	70	128957	73.528	ng	97
20) 3+4-Methylphenols	9.101	107	238431	79.299	ng	98
22) Acetophenone	9.166	105	279931	67.415	ng	# 99
24) Nitrobenzene	9.559	77	191690	79.451	ng	97
25) Isophorone	10.076	82	405630	80.703	ng	98
26) 2-Nitrophenol	10.270	139	101445	71.027	ng	97
27) 2,4-Dimethylphenol	10.311	122	179963	75.026	ng	96
28) bis(2-Chloroethoxy)met...	10.552	93	207053	93.209	ng	99
29) 2,4-Dichlorophenol	10.805	162	208132	61.133	ng	93
30) 1,2,4-Trichlorobenzene	11.028	180	224716	50.775	ng	91
31) Naphthalene	11.222	128	531176	60.099	ng	99
32) Benzoic acid	10.458	122	146282	79.054	ng	96
33) 4-Chloroaniline	11.316	127	253528	66.913	ng	98
34) Hexachlorobutadiene	11.498	225	161592	38.837	ng	95
35) Caprolactam	12.097	113	67712	71.383	ng	93
36) 4-Chloro-3-methylphenol	12.409	107	209722	65.693	ng	97
37) 2-Methylnaphthalene	12.803	142	444711	56.951	ng	98
38) 1-Methylnaphthalene	13.020	142	416644	54.771	ng	96
40) 1,2,4,5-Tetrachloroben...	13.161	216	328779	53.694	ng	98
41) Hexachlorocyclopentadiene	13.137	237	196028	56.432	ng	96
43) 2,4,6-Trichlorophenol	13.390	196	221052	60.986	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122722\
 Data File : BG056132.D
 Acq On : 27 Dec 2022 19:01
 Operator : CG/JU
 Sample : SSTDICC060
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

BNA_G

ClientSampleId :

SSTDICC060

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 12/28/2022
 Supervised By :Jagrut Upadhyay 12/28/2022

Quant Time: Dec 28 04:55:55 2022

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Dec 28 04:51:15 2022

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.461	196	256962	62.890	ng	99
46) 1,1'-Biphenyl	13.790	154	620984	63.127	ng	99
47) 2-Chloronaphthalene	13.837	162	493910	61.793	ng	97
48) 2-Nitroaniline	14.025	65	109792	82.115	ng	93
49) Acenaphthylene	14.677	152	795590	62.358	ng	99
50) Dimethylphthalate	14.389	163	688499	54.873	ng	98
51) 2,6-Dinitrotoluene	14.512	165	150393	77.456	ng	97
52) Acenaphthene	15.012	154	526026	61.415	ng	99
53) 3-Nitroaniline	14.841	138	144259	73.044	ng	# 98
54) 2,4-Dinitrophenol	15.041	184	113103	78.356	ng	97
55) Dibenzofuran	15.341	168	853114	59.231	ng	96
56) 4-Nitrophenol	15.129	139	111466	70.431	ng	95
57) 2,4-Dinitrotoluene	15.294	165	213949	72.999	ng	93
58) Fluorene	15.987	166	678831	57.655	ng	97
59) 2,3,4,6-Tetrachlorophenol	15.558	232	244409m	52.360	ng	
60) Diethylphthalate	15.734	149	638492	52.064	ng	99
61) 4-Chlorophenyl-phenyle...	15.969	204	429000	53.486	ng	100
62) 4-Nitroaniline	15.999	138	145184	67.503	ng	97
63) Azobenzene	16.263	77	491212	65.808	ng	98
65) 4,6-Dinitro-2-methylph...	16.052	198	160865	89.186	ng	96
66) n-Nitrosodiphenylamine	16.181	169	626907	63.359	ng	98
67) 4-Bromophenyl-phenylether	16.862	248	286478	51.779	ng	99
68) Hexachlorobenzene	16.986	284	268042	39.332	ng	95
69) Atrazine	17.115	200	255647	57.062	ng	98
70) Pentachlorophenol	17.327	266	220397	56.570	ng	97
71) Phenanthrene	17.726	178	1159749	58.611	ng	99
72) Anthracene	17.814	178	1186058	60.588	ng	100
73) Carbazole	18.079	167	997725	61.797	ng	99
74) Di-n-butylphthalate	18.607	149	1007109	53.638	ng	99
75) Fluoranthene	19.712	202	1493613	53.906	ng	99
77) Benzidine	19.877	184	751287	117.950	ng	99
78) Pyrene	20.070	202	1485690	67.695	ng	98
80) Butylbenzylphthalate	20.934	149	444587	71.489	ng	97
81) Benzo(a)anthracene	21.956	228	1514550	59.343	ng	99
82) 3,3'-Dichlorobenzidine	21.857	252	540932	58.909	ng	97
83) Chrysene	22.027	228	1413740	59.104	ng	99
84) Bis(2-ethylhexyl)phtha...	21.827	149	628704	68.046	ng	99
85) Di-n-octyl phthalate	23.114	149	1059106	67.576	ng	100
87) Indeno(1,2,3-cd)pyrene	29.424	276	1774359	55.180	ng	99
88) Benzo(b)fluoranthene	24.324	252	1546422	59.754	ng	99
89) Benzo(k)fluoranthene	24.401	252	1491785	57.775	ng	100
90) Benzo(a)pyrene	25.270	252	1470467	67.219	ng	99
91) Dibenzo(a,h)anthracene	29.489	278	1459609	54.232	ng	98
92) Benzo(g,h,i)perylene	30.670	276	1430336	54.966	ng	98

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

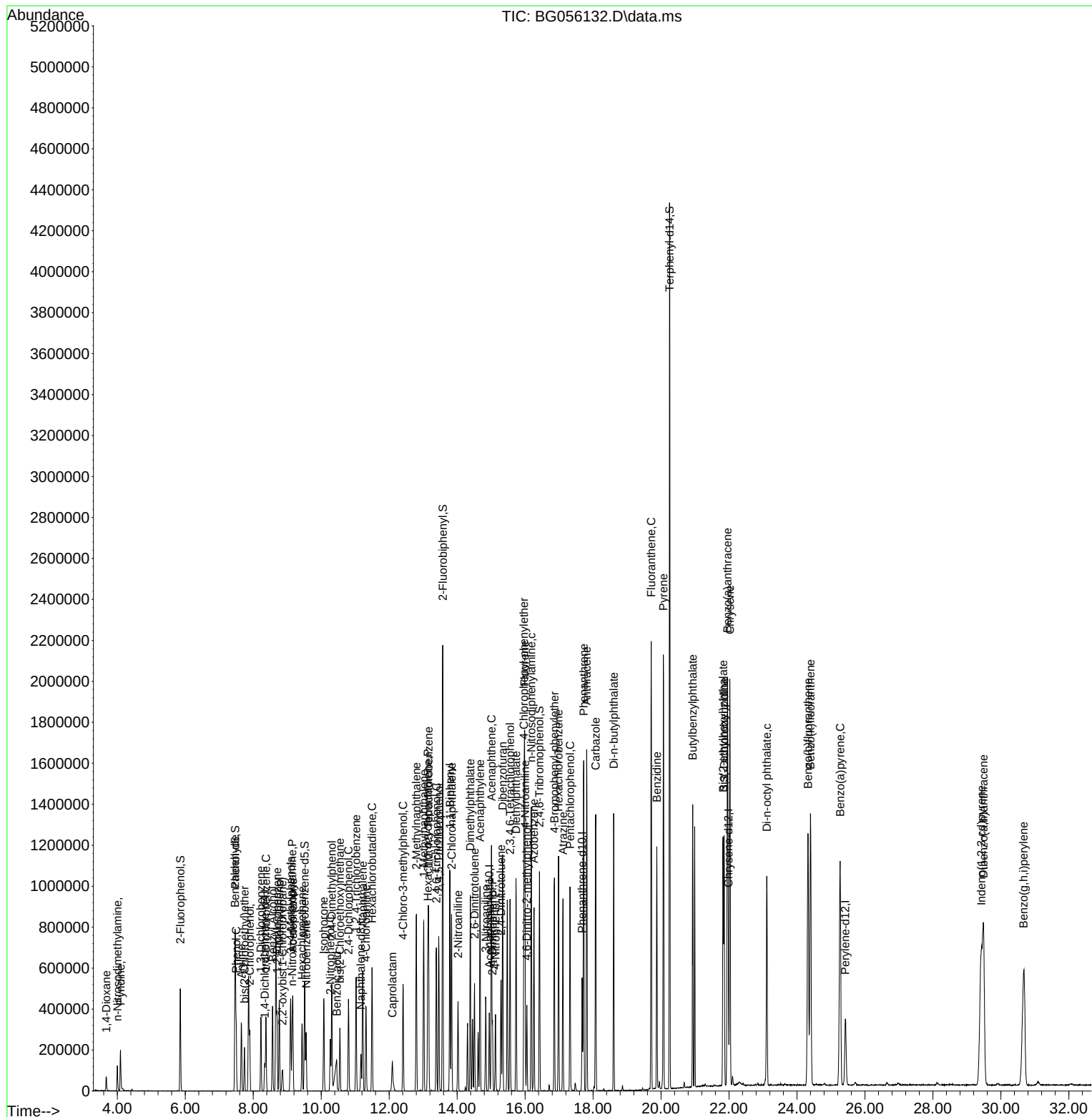
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Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122722\  
Data File : BG056132.D  
Acq On    : 27 Dec 2022  19:01  
Operator  : CG/JU  
Sample    : SSTDICC060  
Misc      :  
ALS Vial  : 8    Sample Multiplier: 1
```

Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Christian Giraldo 12/28/2022
Supervised By :Jaqrut Upadhyay 12/28/2022

Quant Time: Dec 28 04:55:55 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 28 04:51:15 2022
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122722\
 Data File : BG056133.D
 Acq On : 27 Dec 2022 19:42
 Operator : CG/JU
 Sample : SSTDICC080
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :

BNA_G

ClientSampleId :

SSTDICC080

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 12/28/2022
 Supervised By :Jagrut Upadhyay 12/28/2022

Quant Time: Dec 28 04:56:31 2022

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Dec 28 04:51:15 2022

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.341	152	43714	20.000	ng	0.00
21) Naphthalene-d8	11.173	136	163130	20.000	ng	0.00
39) Acenaphthene-d10	14.950	164	144183	20.000	ng	0.00
64) Phenanthrene-d10	17.683	188	363363	20.000	ng	0.00
76) Chrysene-d12	21.977	240	343910	20.000	ng	# 0.00
86) Perylene-d12	25.426	264	384265	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.855	112	359809	193.031	ng	0.00
7) Phenol-d6	7.477	99	561303	234.134	ng	0.00
23) Nitrobenzene-d5	9.516	82	492871	211.138	ng	0.00
42) 2,4,6-Tribromophenol	16.425	330	284005	81.688	ng	0.00
45) 2-Fluorobiphenyl	13.576	172	1574140	153.118	ng	0.00
79) Terphenyl-d14	20.256	244	2841066	146.005	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.675	88	77324	142.544	ng	97
3) Pyridine	4.093	79	255623m	143.191	ng	
4) n-Nitrosodimethylamine	3.999	42	52455	32.687	ng	# 99
6) Aniline	7.653	93	369698	128.800	ng	96
8) 2-Chlorophenol	7.900	128	183297	76.221	ng	93
9) Benzaldehyde	7.465	77	146358	97.209	ng	97
10) Phenol	7.500	94	281216	107.180	ng	98
11) bis(2-Chloroethyl)ether	7.741	93	187166	109.514	ng	97
12) 1,3-Dichlorobenzene	8.229	146	213328	68.576	ng	95
13) 1,4-Dichlorobenzene	8.376	146	219695	69.105	ng	98
14) 1,2-Dichlorobenzene	8.699	146	210143	69.165	ng	97
15) Benzyl Alcohol	8.570	79	209627	84.152	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.858	45	31585	14.200	ng	95
17) 2-Methylphenol	8.769	107	214117	103.720	ng	98
18) Hexachloroethane	9.439	117	64811	67.159	ng	97
19) n-Nitroso-di-n-propyla...	9.145	70	165636	96.390	ng	97
20) 3+4-Methylphenols	9.098	107	307026	104.219	ng	97
22) Acetophenone	9.169	105	354129	87.571	ng	# 98
24) Nitrobenzene	9.557	77	245673	104.557	ng	98
25) Isophorone	10.080	82	509664	104.121	ng	98
26) 2-Nitrophenol	10.268	139	131860	94.798	ng	98
27) 2,4-Dimethylphenol	10.315	122	230331	98.599	ng	98
28) bis(2-Chloroethoxy)met...	10.556	93	266782	123.317	ng	98
29) 2,4-Dichlorophenol	10.808	162	259504	78.267	ng	96
30) 1,2,4-Trichlorobenzene	11.031	180	290544	67.410	ng	99
31) Naphthalene	11.225	128	678634	78.842	ng	99
32) Benzoic acid	10.473	122	180072	99.925	ng	96
33) 4-Chloroaniline	11.319	127	325974	88.341	ng	99
34) Hexachlorobutadiene	11.496	225	207016	51.089	ng	98
35) Caprolactam	12.107	113	84409	91.372	ng	97
36) 4-Chloro-3-methylphenol	12.412	107	261956	84.256	ng	97
37) 2-Methylnaphthalene	12.800	142	568920	74.812	ng	99
38) 1-Methylnaphthalene	13.017	142	528393	71.324	ng	97
40) 1,2,4,5-Tetrachloroben...	13.158	216	415762	68.345	ng	99
41) Hexachlorocyclopentadiene	13.135	237	255461	74.022	ng	97
43) 2,4,6-Trichlorophenol	13.388	196	283589	78.752	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122722\
 Data File : BG056133.D
 Acq On : 27 Dec 2022 19:42
 Operator : CG/JU
 Sample : SSTDICC080
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SSTDICC080

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 12/28/2022
 Supervised By : Jagrut Upadhyay 12/28/2022

Quant Time: Dec 28 04:56:31 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 28 04:51:15 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.464	196	330735	81.475	ng	99
46) 1,1'-Biphenyl	13.787	154	795621	81.410	ng	99
47) 2-Chloronaphthalene	13.840	162	628456	79.140	ng	98
48) 2-Nitroaniline	14.028	65	136243	102.565	ng	97
49) Acenaphthylene	14.674	152	1008493	79.563	ng	99
50) Dimethylphthalate	14.392	163	868369	69.662	ng	100
51) 2,6-Dinitrotoluene	14.516	165	190941	98.984	ng	97
52) Acenaphthene	15.015	154	667321	78.421	ng	96
53) 3-Nitroaniline	14.845	138	181620	92.563	ng	99
54) 2,4-Dinitrophenol	15.044	184	144607	100.837	ng	95
55) Dibenzofuran	15.344	168	1079751	75.456	ng	97
56) 4-Nitrophenol	15.133	139	142143	90.402	ng	99
57) 2,4-Dinitrotoluene	15.297	165	268901	92.349	ng	92
58) Fluorene	15.990	166	859945	73.516	ng	98
59) 2,3,4,6-Tetrachlorophenol	15.561	232	304674	65.699	ng	96
60) Diethylphthalate	15.738	149	803371	65.937	ng	98
61) 4-Chlorophenyl-phenyle...	15.967	204	546457	68.576	ng	98
62) 4-Nitroaniline	16.008	138	183153	85.714	ng	99
63) Azobenzene	16.261	77	618042	83.342	ng	99
65) 4,6-Dinitro-2-methylph...	16.055	198	202540	116.684	ng	97
66) n-Nitrosodiphenylamine	16.184	169	789641	82.927	ng	97
67) 4-Bromophenyl-phenylether	16.860	248	365829	68.708	ng	97
68) Hexachlorobenzene	16.989	284	341307	52.042	ng	98
69) Atrazine	17.118	200	320685	74.379	ng	98
70) Pentachlorophenol	17.324	266	275605	73.508	ng	98
71) Phenanthrene	17.730	178	1440904	75.669	ng	99
72) Anthracene	17.818	178	1470034	78.032	ng	98
73) Carbazole	18.076	167	1233506	79.390	ng	98
74) Di-n-butylphthalate	18.611	149	1249494	69.151	ng	99
75) Fluoranthene	19.715	202	1837939	68.928	ng	99
77) Benzidine	19.880	184	903056	149.521	ng	97
78) Pyrene	20.074	202	1827824	87.833	ng	98
80) Butylbenzylphthalate	20.932	149	551778	93.572	ng	97
81) Benzo(a)anthracene	21.954	228	1862635	76.968	ng	99
82) 3,3'-Dichlorobenzidine	21.860	252	665890	76.478	ng	99
83) Chrysene	22.030	228	1745568	76.962	ng	98
84) Bis(2-ethylhexyl)phtha...	21.825	149	783835	89.469	ng	98
85) Di-n-octyl phthalate	23.117	149	1322760	89.008	ng	100
87) Indeno(1,2,3-cd)pyrene	29.433	276	2173806	70.349	ng	# 99
88) Benzo(b)fluoranthene	24.328	252	1846538	74.250	ng	98
89) Benzo(k)fluoranthene	24.404	252	1871833	75.440	ng	99
90) Benzo(a)pyrene	25.279	252	1830788	87.092	ng	99
91) Dibenzo(a,h)anthracene	29.504	278	1804835	69.784	ng	100
92) Benzo(g,h,i)perylene	30.685	276	1765082	70.586	ng	99

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

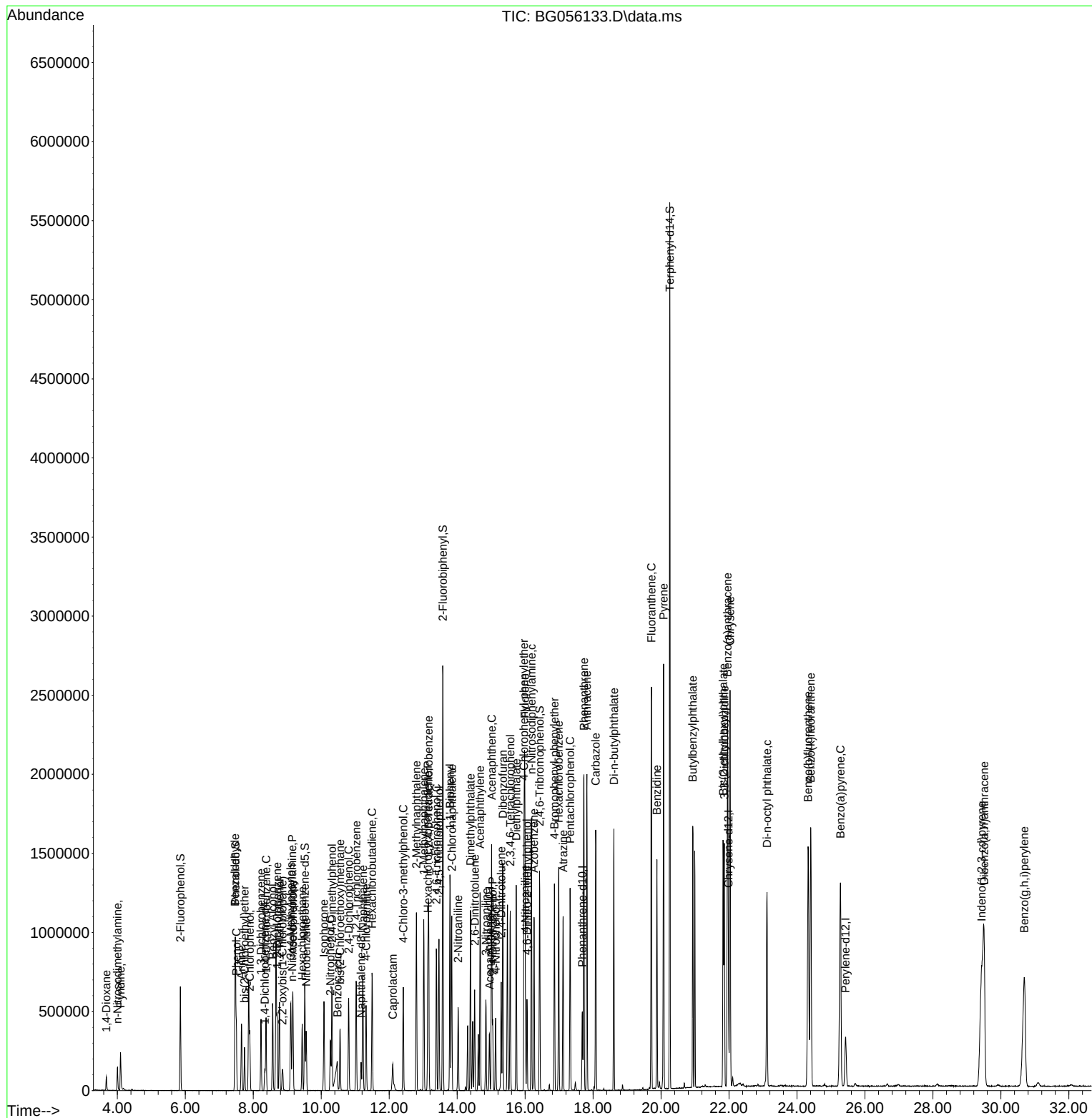

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Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122722\  
Data File : BG056133.D  
Acq On    : 27 Dec 2022  19:42  
Operator  : CG/JU  
Sample    : SSTDICC080  
Misc      :  
ALS Vial  : 9    Sample Multiplier: 1
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Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Christian Giraldo 12/28/2022
Supervised By :Jagrut Upadhyay 12/28/2022

Quant Time: Dec 28 04:56:31 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 28 04:51:15 2022
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122722\
 Data File : BG056134.D
 Acq On : 27 Dec 2022 20:24
 Operator : CG/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 ICVBG122722

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 12/28/2022
 Supervised By : Jagrut Upadhyay 12/28/2022

Quant Time: Dec 28 05:22:48 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 28 05:20:14 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.341	152	40154	20.000	ng	0.00
21) Naphthalene-d8	11.167	136	157912	20.000	ng	0.00
39) Acenaphthene-d10	14.945	164	138474	20.000	ng	0.00
64) Phenanthrene-d10	17.677	188	374822	20.000	ng	0.00
76) Chrysene-d12	21.978	240	364377	20.000	ng	0.00
86) Perylene-d12	25.427	264	400261	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.850	112	181185	80.566	ng	0.00
7) Phenol-d6	7.466	99	286561	82.973	ng	0.00
23) Nitrobenzene-d5	9.510	82	248132	80.376	ng	0.00
42) 2,4,6-Tribromophenol	16.426	330	146333	83.440	ng	0.00
45) 2-Fluorobiphenyl	13.576	172	805805	80.357	ng	0.00
79) Terphenyl-d14	20.251	244	1604339	78.859	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.676	88	40912	39.828	ng	98
3) Pyridine	4.093	79	131334	41.978	ng	98
4) n-Nitrosodimethylamine	3.999	42	26893	42.257	ng	90
6) Aniline	7.648	93	185536	40.965	ng	99
8) 2-Chlorophenol	7.895	128	93350	41.713	ng	94
9) Benzaldehyde	7.460	77	83926	40.869	ng	95
10) Phenol	7.495	94	145190	41.453	ng	97
11) bis(2-Chloroethyl)ether	7.742	93	92845	39.116	ng	93
12) 1,3-Dichlorobenzene	8.224	146	109233	40.105	ng	99
13) 1,4-Dichlorobenzene	8.376	146	112847	41.260	ng	99
14) 1,2-Dichlorobenzene	8.700	146	105950	40.147	ng	98
15) Benzyl Alcohol	8.564	79	102976	40.968	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.858	45	16195	38.611	ng	89
17) 2-Methylphenol	8.764	107	107945	42.001	ng	98
18) Hexachloroethane	9.434	117	33871	40.766	ng	96
19) n-Nitroso-di-n-propyla...	9.140	70	85481	40.703	ng	97
20) 3+4-Methylphenols	9.093	107	151509	41.931	ng	99
22) Acetophenone	9.164	105	180762	40.484	ng	97
24) Nitrobenzene	9.551	77	123466	40.357	ng	96
25) Isophorone	10.074	82	257750	39.682	ng	96
26) 2-Nitrophenol	10.268	139	65703	41.974	ng	91
27) 2,4-Dimethylphenol	10.309	122	115908	40.598	ng	98
28) bis(2-Chloroethoxy)met...	10.550	93	134940	39.971	ng	97
29) 2,4-Dichlorophenol	10.803	162	131140	41.547	ng	99
30) 1,2,4-Trichlorobenzene	11.026	180	148784	41.538	ng	99
31) Naphthalene	11.220	128	342972	41.269	ng	99
32) Benzoic acid	10.427	122	88566	41.809	ng	96
33) 4-Chloroaniline	11.314	127	161056	40.590	ng	99
34) Hexachlorobutadiene	11.496	225	104023	40.379	ng	99
35) Caprolactam	12.078	113	45690	42.755	ng	98
36) 4-Chloro-3-methylphenol	12.407	107	135046	42.164	ng	98
37) 2-Methylnaphthalene	12.801	142	284938	40.605	ng	98
38) 1-Methylnaphthalene	13.018	142	263507	40.438	ng	98
40) 1,2,4,5-Tetrachloroben...	13.159	216	212209	40.888	ng	98
41) Hexachlorocyclopentadiene	13.136	237	123428	41.714	ng	98
43) 2,4,6-Trichlorophenol	13.388	196	142145	41.419	ng	97

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122722\
 Data File : BG056134.D
 Acq On : 27 Dec 2022 20:24
 Operator : CG/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :

BNA_G

ClientSampleId :

ICVBG122722

Manual Integrations

APPROVED

Reviewed By : Christian Giraldo 12/28/2022
 Supervised By : Jagrut Upadhyay 12/28/2022

Quant Time: Dec 28 05:22:48 2022

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Dec 28 05:20:14 2022

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.459	196	168703	41.556	ng	95
46) 1,1'-Biphenyl	13.788	154	404074	40.745	ng	99
47) 2-Chloronaphthalene	13.835	162	320555	40.951	ng	99
48) 2-Nitroaniline	14.023	65	70295	42.149	ng	98
49) Acenaphthylene	14.675	152	518265	40.686	ng	98
50) Dimethylphthalate	14.387	163	458120	40.982	ng	98
51) 2,6-Dinitrotoluene	14.505	165	97931	41.114	ng	96
52) Acenaphthene	15.010	154	345097	41.654	ng	98
53) 3-Nitroaniline	14.839	138	95304	42.042	ng	99
54) 2,4-Dinitrophenol	15.039	184	73739	43.334	ng	96
55) Dibenzofuran	15.339	168	564569	41.180	ng	99
56) 4-Nitrophenol	15.121	139	73765	42.310	ng	97
57) 2,4-Dinitrotoluene	15.286	165	140620	42.213	ng	93
58) Fluorene	15.985	166	446690	40.509	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.556	232	159499m	41.844	ng	
60) Diethylphthalate	15.732	149	431024	41.116	ng	99
61) 4-Chlorophenyl-phenyle...	15.967	204	281647	40.928	ng	98
62) 4-Nitroaniline	15.997	138	96430	41.527	ng	98
63) Azobenzene	16.261	77	323933	40.042	ng	99
65) 4,6-Dinitro-2-methylph...	16.050	198	107739	42.663	ng	99
66) n-Nitrosodiphenylamine	16.179	169	417497	40.146	ng	97
67) 4-Bromophenyl-phenylether	16.861	248	190575	39.928	ng	99
68) Hexachlorobenzene	16.984	284	179851	40.388	ng	98
69) Atrazine	17.113	200	173363	40.223	ng	97
70) Pentachlorophenol	17.319	266	142651	41.702	ng	98
71) Phenanthrene	17.724	178	782900	40.305	ng	98
72) Anthracene	17.812	178	810442	40.446	ng	99
73) Carbazole	18.077	167	674206	40.029	ng	99
74) Di-n-butylphthalate	18.606	149	689697	41.078	ng	100
75) Fluoranthene	19.710	202	1017875	40.173	ng	99
77) Benzidine	19.875	184	497621	38.970	ng	100
78) Pyrene	20.069	202	1019426	39.693	ng	99
80) Butylbenzylphthalate	20.932	149	297869	40.426	ng	99
81) Benzo(a)anthracene	21.955	228	1025059	40.053	ng	99
82) 3,3'-Dichlorobenzidine	21.855	252	371096	40.280	ng	99
83) Chrysene	22.025	228	965374	40.269	ng	99
84) Bis(2-ethylhexyl)phtha...	21.825	149	418710	39.444	ng	99
85) Di-n-octyl phthalate	23.112	149	724520	40.429	ng	100
87) Indeno(1,2,3-cd)pyrene	29.405	276	1178781	40.495	ng	# 99
88) Benzo(b)fluoranthene	24.322	252	1026906	40.380	ng	99
89) Benzo(k)fluoranthene	24.399	252	1026237	40.524	ng	99
90) Benzo(a)pyrene	25.268	252	1001406	40.372	ng	99
91) Dibenzo(a,h)anthracene	29.481	278	983324	40.291	ng	97
92) Benzo(g,h,i)perylene	30.662	276	950258	40.151	ng	99

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

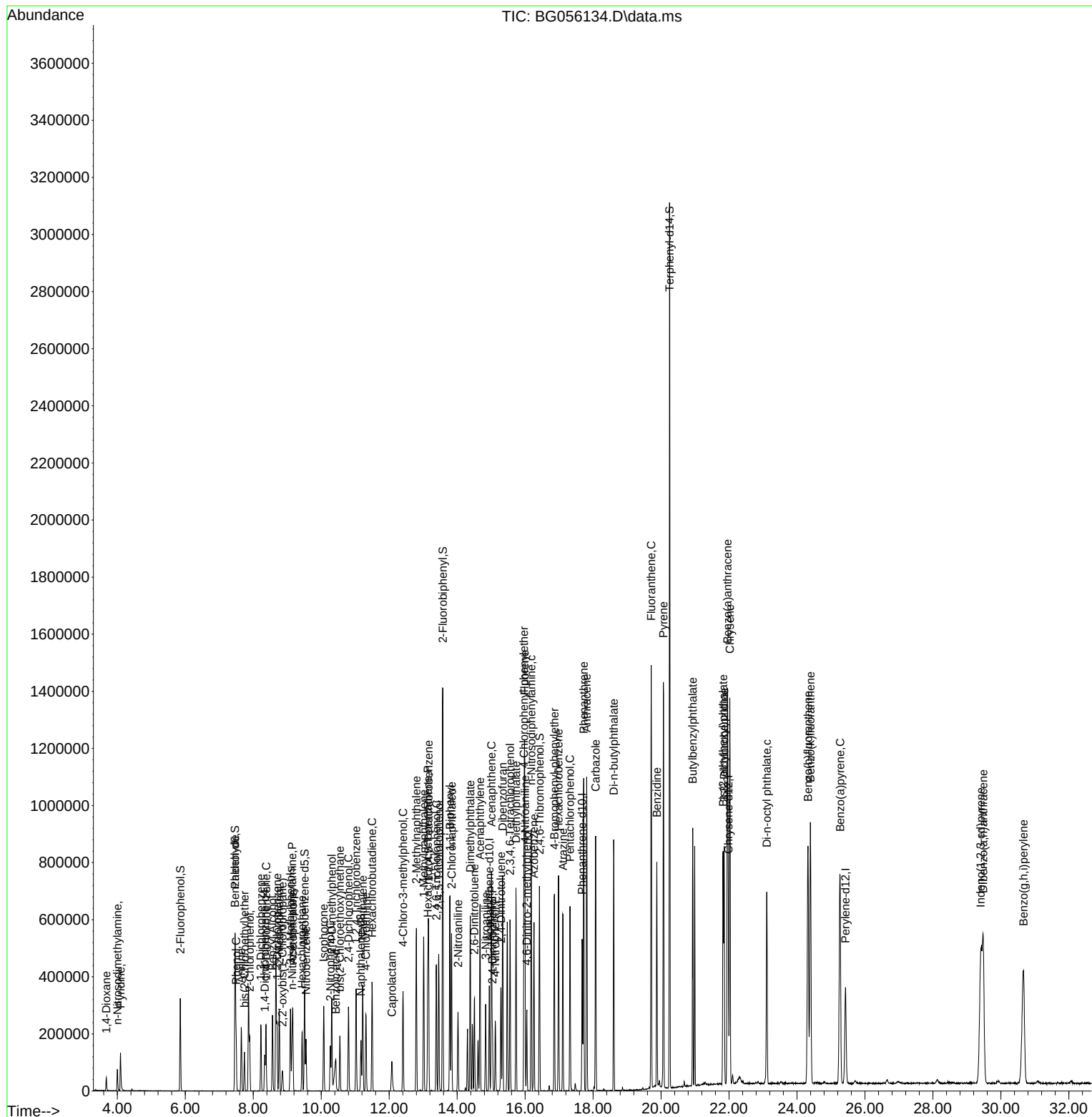
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Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122722\  
Data File : BG056134.D  
Acq On    : 27 Dec 2022   20:24  
Operator  : CG/JU  
Sample    : SSTDICV040  
Misc      :  
ALS Vial  : 10    Sample Multiplier: 1
```

Instrument :
BNA_G
ClientSampleId :
ICVBG122722

Manual Integrations APPROVED

Reviewed By :Christian Giraldo 12/28/2022
Supervised By :Jaqrut Upadhyay 12/28/2022

Quant Time: Dec 28 05:22:48 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 28 05:20:14 2022
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122722\
 Data File : BG056134.D
 Acq On : 27 Dec 2022 20:24
 Operator : CG/JU
 Sample : SSTDICV040
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 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
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Quant Time: Dec 28 05:22:48 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 28 05:20:14 2022
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
2	1,4-Dioxane	0.512	0.509	0.6	92	0.00
3	Pyridine	1.558	1.635	-4.9	99	0.00
4	n-Nitrosodimethylamine	0.317	0.335	-5.7	98	0.00
5 S	2-Fluorophenol	1.120	1.128	-0.7	98	0.00
6	Aniline	2.256	2.310	-2.4	98	0.00
7 S	Phenol-d6	1.720	1.784	-3.7	97	0.00
8	2-Chlorophenol	1.115	1.162	-4.2	100	0.00
9	Benzaldehyde	1.023	1.045	-2.2	102	0.00
10 C	Phenol	1.745	1.808	-3.6	98	0.00
11	bis(2-Chloroethyl)ether	1.182	1.156	2.2	94	0.00
12	1,3-Dichlorobenzene	1.357	1.360	-0.2	98	0.00
13 C	1,4-Dichlorobenzene	1.362	1.405	-3.2	99	0.00
14	1,2-Dichlorobenzene	1.314	1.319	-0.4	97	0.00
15	Benzyl Alcohol	1.252	1.282	-2.4	95	0.00
16	2,2'-oxybis(1-Chloropropane	0.209	0.202	3.3	94	0.00
17	2-Methylphenol	1.280	1.344	-5.0	99	0.00
18	Hexachloroethane	0.414	0.422	-1.9	99	0.00
19 P	n-Nitroso-di-n-propylamine	1.046	1.064	-1.7	98	0.00
20	3+4-Methylphenols	1.800	1.887	-4.8	98	0.00
21 I	Naphthalene-d8	1.000	1.000	0.0	96	0.00
22	Acetophenone	0.566	0.572	-1.1	97	0.00
23 S	Nitrobenzene-d5	0.391	0.393	-0.5	97	0.00
24	Nitrobenzene	0.387	0.391	-1.0	98	0.00
25	Isophorone	0.823	0.816	0.9	96	0.00
26 C	2-Nitrophenol	0.198	0.208	-5.1	102	0.00
27	2,4-Dimethylphenol	0.362	0.367	-1.4	99	0.00
28	bis(2-Chloroethoxy)methane	0.428	0.427	0.2	98	0.00
29 C	2,4-Dichlorophenol	0.400	0.415	-3.7	97	0.00
30	1,2,4-Trichlorobenzene	0.454	0.471	-3.7	101	0.00
31	Naphthalene	1.053	1.086	-3.1	101	0.00
32	Benzoic acid	0.268	0.280	-4.5	97	0.00
33	4-Chloroaniline	0.503	0.510	-1.4	98	0.00
34 C	Hexachlorobutadiene	0.326	0.329	-0.9	96	0.00
35	Caprolactam	0.135	0.145	-7.4	104	0.00
36 C	4-Chloro-3-methylphenol	0.406	0.428	-5.4	103	0.00
37	2-Methylnaphthalene	0.889	0.902	-1.5	98	0.00
38	1-Methylnaphthalene	0.825	0.834	-1.1	99	0.00
39 I	Acenaphthene-d10	1.000	1.000	0.0	100	0.00
40	1,2,4,5-Tetrachlorobenzene	0.750	0.766	-2.1	100	0.00
41 P	Hexachlorocyclopentadiene	0.427	0.446	-4.4	97	0.00
42 S	2,4,6-Tribromophenol	0.253	0.264	-4.3	102	0.00
43 C	2,4,6-Trichlorophenol	0.496	0.513	-3.4	99	0.00
44	2,4,5-Trichlorophenol	0.586	0.609	-3.9	102	0.00
45 S	2-Fluorobiphenyl	1.448	1.455	-0.5	99	0.00
46	1,1'-Biphenyl	1.432	1.459	-1.9	100	0.00
47	2-Chloronaphthalene	1.131	1.157	-2.3	100	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122722\
 Data File : BG056134.D
 Acq On : 27 Dec 2022 20:24
 Operator : CG/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 ICVBG122722

Quant Time: Dec 28 05:22:48 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 28 05:20:14 2022
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48	2-Nitroaniline	0.241	0.254	-5.4	103	0.00
49	Acenaphthylene	1.840	1.871	-1.7	100	0.00
50	Dimethylphthalate	1.615	1.654	-2.4	101	0.00
51	2,6-Dinitrotoluene	0.344	0.354	-2.9	103	0.00
52 C	Acenaphthene	1.197	1.246	-4.1	101	0.00
53	3-Nitroaniline	0.327	0.344	-5.2	103	0.00
54 P	2,4-Dinitrophenol	0.246	0.266	-8.1	102	0.00
55	Dibenzofuran	1.980	2.039	-3.0	100	0.00
56 P	4-Nitrophenol	0.252	0.266	-5.6	102	0.00
57	2,4-Dinitrotoluene	0.481	0.508	-5.6	102	0.00
58	Fluorene	1.593	1.613	-1.3	100	0.00
59	2,3,4,6-Tetrachlorophenol	0.551	0.576	-4.5	103	0.00
60	Diethylphthalate	1.514	1.556	-2.8	101	0.00
61	4-Chlorophenyl-phenylether	0.994	1.017	-2.3	100	0.00
62	4-Nitroaniline	0.335	0.348	-3.9	100	0.00
63	Azobenzene	1.168	1.170	-0.2	100	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	102	0.00
65	4,6-Dinitro-2-methylphenol	0.135	0.144	-6.7	104	0.00
66 c	n-Nitrosodiphenylamine	0.555	0.557	-0.4	102	0.00
67	4-Bromophenyl-phenylether	0.255	0.254	0.4	101	0.00
68	Hexachlorobenzene	0.238	0.240	-0.8	102	0.00
69	Atrazine	0.230	0.231	-0.4	100	0.00
70 C	Pentachlorophenol	0.183	0.190	-3.8	103	0.00
71	Phenanthrene	1.036	1.044	-0.8	102	0.00
72	Anthracene	1.069	1.081	-1.1	102	0.00
73	Carbazole	0.899	0.899	0.0	101	0.00
74	Di-n-butylphthalate	0.896	0.920	-2.7	103	0.00
75 C	Fluoranthene	1.352	1.358	-0.4	101	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	102	0.00
77	Benzidine	0.701	0.683	2.6	95	0.00
78	Pyrene	1.410	1.399	0.8	102	0.00
79 S	Terphenyl-d14	1.117	1.101	1.4	101	0.00
80	Butylbenzylphthalate	0.404	0.409	-1.2	102	0.00
81	Benzo(a)anthracene	1.405	1.407	-0.1	101	0.00
82	3,3'-Dichlorobenzidine	0.506	0.509	-0.6	99	0.00
83	Chrysene	1.316	1.325	-0.7	101	0.00
84	Bis(2-ethylhexyl)phthalate	0.583	0.575	1.4	99	0.00
85 c	Di-n-octyl phthalate	0.984	0.994	-1.0	101	0.00
86 I	Perylene-d12	1.000	1.000	0.0	101	0.00
87	Indeno(1,2,3-cd)pyrene	1.455	1.473	-1.2	101	-0.01
88	Benzo(b)fluoranthene	1.271	1.283	-0.9	100	0.00
89	Benzo(k)fluoranthene	1.265	1.282	-1.3	101	0.00
90 C	Benzo(a)pyrene	1.239	1.251	-1.0	101	0.00
91	Dibenzo(a,h)anthracene	1.219	1.228	-0.7	101	0.00
92	Benzo(g,h,i)perylene	1.183	1.187	-0.3	99	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122722\
Data File : BG056134.D
Acq On : 27 Dec 2022 20:24
Operator : CG/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ICVBG122722

Quant Time: Dec 28 05:22:48 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 28 05:20:14 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122722\
 Data File : BG056134.D
 Acq On : 27 Dec 2022 20:24
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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	98	0.00
2	1,4-Dioxane	40.000	39.828	0.4	92	0.00
3	Pyridine	40.000	41.978	-4.9	99	0.00
4	n-Nitrosodimethylamine	40.000	42.257	-5.6	98	0.00
5 S	2-Fluorophenol	80.000	80.566	-0.7	98	0.00
6	Aniline	40.000	40.965	-2.4	98	0.00
7 S	Phenol-d6	80.000	82.973	-3.7	97	0.00
8	2-Chlorophenol	40.000	41.713	-4.3	100	0.00
9	Benzaldehyde	40.000	40.869	-2.2	102	0.00
10 C	Phenol	40.000	41.453	-3.6	98	0.00
11	bis(2-Chloroethyl)ether	40.000	39.116	2.2	94	0.00
12	1,3-Dichlorobenzene	40.000	40.105	-0.3	98	0.00
13 C	1,4-Dichlorobenzene	40.000	41.260	-3.1	99	0.00
14	1,2-Dichlorobenzene	40.000	40.147	-0.4	97	0.00
15	Benzyl Alcohol	40.000	40.968	-2.4	95	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	38.611	3.5	94	0.00
17	2-Methylphenol	40.000	42.001	-5.0	99	0.00
18	Hexachloroethane	40.000	40.766	-1.9	99	0.00
19 P	n-Nitroso-di-n-propylamine	40.000	40.703	-1.8	98	0.00
20	3+4-Methylphenols	40.000	41.931	-4.8	98	0.00
21 I	Naphthalene-d8	20.000	20.000	0.0	96	0.00
22	Acetophenone	40.000	40.484	-1.2	97	0.00
23 S	Nitrobenzene-d5	80.000	80.376	-0.5	97	0.00
24	Nitrobenzene	40.000	40.357	-0.9	98	0.00
25	Isophorone	40.000	39.682	0.8	96	0.00
26 C	2-Nitrophenol	40.000	41.974	-4.9	102	0.00
27	2,4-Dimethylphenol	40.000	40.598	-1.5	99	0.00
28	bis(2-Chloroethoxy)methane	40.000	39.971	0.1	98	0.00
29 C	2,4-Dichlorophenol	40.000	41.547	-3.9	97	0.00
30	1,2,4-Trichlorobenzene	40.000	41.538	-3.8	101	0.00
31	Naphthalene	40.000	41.269	-3.2	101	0.00
32	Benzoic acid	40.000	41.809	-4.5	97	0.00
33	4-Chloroaniline	40.000	40.590	-1.5	98	0.00
34 C	Hexachlorobutadiene	40.000	40.379	-0.9	96	0.00
35	Caprolactam	40.000	42.755	-6.9	104	0.00
36 C	4-Chloro-3-methylphenol	40.000	42.164	-5.4	103	0.00
37	2-Methylnaphthalene	40.000	40.605	-1.5	98	0.00
38	1-Methylnaphthalene	40.000	40.438	-1.1	99	0.00
39 I	Acenaphthene-d10	20.000	20.000	0.0	100	0.00
40	1,2,4,5-Tetrachlorobenzene	40.000	40.888	-2.2	100	0.00
41 P	Hexachlorocyclopentadiene	40.000	41.714	-4.3	97	0.00
42 S	2,4,6-Tribromophenol	80.000	83.440	-4.3	102	0.00
43 C	2,4,6-Trichlorophenol	40.000	41.419	-3.5	99	0.00
44	2,4,5-Trichlorophenol	40.000	41.556	-3.9	102	0.00
45 S	2-Fluorobiphenyl	80.000	80.357	-0.4	99	0.00
46	1,1'-Biphenyl	40.000	40.745	-1.9	100	0.00
47	2-Chloronaphthalene	40.000	40.951	-2.4	100	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122722\
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 28 05:20:14 2022
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48	2-Nitroaniline	40.000	42.149	-5.4	103	0.00
49	Acenaphthylene	40.000	40.686	-1.7	100	0.00
50	Dimethylphthalate	40.000	40.982	-2.5	101	0.00
51	2,6-Dinitrotoluene	40.000	41.114	-2.8	103	0.00
52 C	Acenaphthene	40.000	41.654	-4.1	101	0.00
53	3-Nitroaniline	40.000	42.042	-5.1	103	0.00
54 P	2,4-Dinitrophenol	40.000	43.334	-8.3	102	0.00
55	Dibenzofuran	40.000	41.180	-2.9	100	0.00
56 P	4-Nitrophenol	40.000	42.310	-5.8	102	0.00
57	2,4-Dinitrotoluene	40.000	42.213	-5.5	102	0.00
58	Fluorene	40.000	40.509	-1.3	100	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	41.844	-4.6	103	0.00
60	Diethylphthalate	40.000	41.116	-2.8	101	0.00
61	4-Chlorophenyl-phenylether	40.000	40.928	-2.3	100	0.00
62	4-Nitroaniline	40.000	41.527	-3.8	100	0.00
63	Azobenzene	40.000	40.042	-0.1	100	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	102	0.00
65	4,6-Dinitro-2-methylphenol	40.000	42.663	-6.7	104	0.00
66 c	n-Nitrosodiphenylamine	40.000	40.146	-0.4	102	0.00
67	4-Bromophenyl-phenylether	40.000	39.928	0.2	101	0.00
68	Hexachlorobenzene	40.000	40.388	-1.0	102	0.00
69	Atrazine	40.000	40.223	-0.6	100	0.00
70 C	Pentachlorophenol	40.000	41.702	-4.3	103	0.00
71	Phenanthrene	40.000	40.305	-0.8	102	0.00
72	Anthracene	40.000	40.446	-1.1	102	0.00
73	Carbazole	40.000	40.029	-0.1	101	0.00
74	Di-n-butylphthalate	40.000	41.078	-2.7	103	0.00
75 C	Fluoranthene	40.000	40.173	-0.4	101	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	102	0.00
77	Benzidine	40.000	38.970	2.6	95	0.00
78	Pyrene	40.000	39.693	0.8	102	0.00
79 S	Terphenyl-d14	80.000	78.859	1.4	101	0.00
80	Butylbenzylphthalate	40.000	40.426	-1.1	102	0.00
81	Benzo(a)anthracene	40.000	40.053	-0.1	101	0.00
82	3,3'-Dichlorobenzidine	40.000	40.280	-0.7	99	0.00
83	Chrysene	40.000	40.269	-0.7	101	0.00
84	Bis(2-ethylhexyl)phthalate	40.000	39.444	1.4	99	0.00
85 c	Di-n-octyl phthalate	40.000	40.429	-1.1	101	0.00
86 I	Perylene-d12	20.000	20.000	0.0	101	0.00
87	Indeno(1,2,3-cd)pyrene	40.000	40.495	-1.2	101	-0.01
88	Benzo(b)fluoranthene	40.000	40.380	-1.0	100	0.00
89	Benzo(k)fluoranthene	40.000	40.524	-1.3	101	0.00
90 C	Benzo(a)pyrene	40.000	40.372	-0.9	101	0.00
91	Dibenzo(a,h)anthracene	40.000	40.291	-0.7	101	0.00
92	Benzo(g,h,i)perylene	40.000	40.151	-0.4	99	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122722\
Data File : BG056134.D
Acq On : 27 Dec 2022 20:24
Operator : CG/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ICVBG122722

Quant Time: Dec 28 05:22:48 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 28 05:20:14 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: loui01

Lab Code: CHEM Case No.: O1233 SAS No.: O1233 SDG No.: O1233

Instrument ID: BNA_P Calibration Date(s): 01/23/2023 01/23/2023

Calibration Time(s): 11:25 16:01

LAB FILE ID:		RRF2.5 = BP013545.D			RRF005 = BP013546.D		RRF010 = BP013547.D	
		RRF020 = BP013548.D			RRF040 = BP013549.D		RRF050 = BP013550.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.214	1.132	1.167	1.231	1.185	1.167	4.1
Benzaldehyde		1.173	1.061	1.015	0.916	0.809	0.995	14.0
Phenol-d6		1.602	1.516	1.588	1.626	1.590	1.571	2.7
Phenol		1.647	1.588	1.649	1.678	1.650	1.628	2.4
bis(2-Chloroethyl)ether		1.406	1.327	1.359	1.360	1.327	1.331	3.8
2-Chlorophenol		1.272	1.247	1.312	1.334	1.311	1.288	2.5
2-Methylphenol		1.194	1.152	1.210	1.208	1.194	1.182	2.2
2,2-oxybis(1-Chloropropane)		1.981	1.864	1.888	1.837	1.785	1.822	5.6
Acetophenone		0.519	0.502	0.520	0.532	0.524	0.513	3.1
3+4-Methylphenols		1.531	1.497	1.574	1.582	1.587	1.556	2.1
n-Nitroso-di-n-propylamine	0.854	1.090	1.050	1.084	1.023	1.017	1.012	7.4
Nitrobenzene-d5		0.231	0.255	0.297	0.330	0.340	0.303	14.5
Hexachloroethane		0.479	0.468	0.485	0.506	0.495	0.483	2.9
Nitrobenzene		0.267	0.285	0.324	0.351	0.356	0.326	11.1
Isophorone		0.730	0.700	0.727	0.718	0.726	0.719	1.5
2-Nitrophenol		0.057	0.064	0.085	0.106	0.122	0.094	32.2
2,4-Dimethylphenol		0.291	0.292	0.312	0.321	0.323	0.310	4.3
bis(2-Chloroethoxy)methane		0.436	0.416	0.437	0.439	0.443	0.433	2.1
2,4-Dichlorophenol		0.247	0.260	0.282	0.298	0.303	0.285	8.3
Naphthalene		1.084	1.044	1.078	1.108	1.103	1.075	2.6
4-Chloroaniline		0.475	0.456	0.476	0.482	0.486	0.476	2.0
Hexachlorobutadiene		0.189	0.183	0.189	0.198	0.194	0.189	2.8
Caprolactam		0.085	0.081	0.091	0.091	0.094	0.093	10.0
4-Chloro-3-methylphenol		0.283	0.281	0.315	0.314	0.325	0.311	6.7
2-Methylnaphthalene		0.770	0.744	0.769	0.772	0.778	0.764	1.5
Hexachlorocyclopentadiene			0.218	0.252	0.302	0.325	0.290	15.3
2,4,6-Trichlorophenol		0.289	0.310	0.351	0.381	0.401	0.360	12.5
2-Fluorobiphenyl		1.472	1.448	1.468	1.532	1.524	1.457	5.2
2,4,5-Trichlorophenol		0.337	0.369	0.415	0.453	0.474	0.426	12.7
1,1-Biphenyl		1.616	1.566	1.596	1.677	1.672	1.606	3.8
2-Chloronaphthalene		1.202	1.171	1.201	1.253	1.251	1.203	3.4
2-Nitroaniline		0.125	0.152	0.213	0.263	0.295	0.241	33.1
Dimethylphthalate		1.492	1.429	1.487	1.499	1.518	1.487	1.9
Acenaphthylene		1.931	1.901	1.972	2.038	2.042	1.968	3.0
2,6-Dinitrotoluene		0.125	0.165	0.233	0.264	0.287	0.240	29.4
3-Nitroaniline		0.154	0.194	0.260	0.301	0.323	0.275	27.9

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: loui01

Lab Code: CHEM Case No.: O1233 SAS No.: O1233 SDG No.: O1233

Instrument ID: BNA_P Calibration Date(s): 01/23/2023 01/23/2023

Calibration Time(s): 11:25 16:01

LAB FILE ID:		RRF2.5 = BP013545.D			RRF005 = BP013546.D		RRF010 = BP013547.D	
		RRF020 = BP013548.D			RRF040 = BP013549.D		RRF050 = BP013550.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Acenaphthene		1.197	1.165	1.200	1.251	1.263	1.216	2.8
2,4-Dinitrophenol		0.033	0.038	0.051	0.065	0.078	0.058	37.6
4-Nitrophenol			0.145	0.195	0.229	0.241	0.212	20.1
Dibenzofuran		1.905	1.832	1.863	1.902	1.911	1.864	2.3
2,4-Dinitrotoluene		0.133	0.175	0.263	0.313	0.351	0.266	35.5
Diethylphthalate		1.471	1.383	1.460	1.450	1.458	1.452	2.8
4-Chlorophenyl-phenylether		0.745	0.705	0.732	0.736	0.744	0.729	2.1
Fluorene		1.523	1.445	1.503	1.509	1.513	1.482	2.7
4-Nitroaniline		0.168	0.198	0.267	0.311	0.323	0.265	25.4
4,6-Dinitro-2-methylphenol			0.027	0.040	0.053	0.065	0.058	39.2
n-Nitrosodiphenylamine		0.634	0.631	0.663	0.675	0.686	0.652	4.5
2,4,6-Tribromophenol		0.167	0.172	0.199	0.213	0.226	0.201	13.2
4-Bromophenyl-phenylether		0.214	0.210	0.220	0.226	0.233	0.222	4.1
Hexachlorobenzene		0.235	0.227	0.237	0.243	0.250	0.239	3.4
Atrazine		0.174	0.171	0.189	0.199	0.194	0.187	5.4
Pentachlorophenol			0.099	0.127	0.143	0.151	0.139	16.5
Phenanthrene		1.134	1.075	1.111	1.151	1.145	1.113	3.3
Anthracene		1.115	1.085	1.132	1.181	1.167	1.129	3.6
Carbazole		1.018	0.962	1.001	1.066	1.042	1.015	3.3
Di-n-butylphthalate		1.055	0.996	1.116	1.186	1.186	1.130	6.9
Fluoranthene		1.200	1.090	1.134	1.255	1.206	1.183	4.7
Pyrene		1.598	1.534	1.636	1.482	1.539	1.529	4.8
Terphenyl-d14		1.183	1.124	1.204	1.112	1.126	1.112	7.7
Butylbenzylphthalate		0.404	0.407	0.487	0.527	0.545	0.487	13.7
3,3-Dichlorobenzidine		0.392	0.390	0.439	0.482	0.487	0.449	9.5
Benzo (a) anthracene		1.403	1.336	1.388	1.431	1.430	1.393	2.6
Chrysene		1.337	1.294	1.343	1.376	1.366	1.333	2.7
Bis (2-ethylhexyl) phthalate		0.691	0.677	0.751	0.814	0.821	0.779	9.7
Di-n-octyl phthalate		1.022	1.041	1.144	1.362	1.374	1.256	14.6
Benzo (b) fluoranthene		1.203	1.148	1.199	1.268	1.267	1.230	4.0
Benzo (k) fluoranthene		1.250	1.198	1.250	1.263	1.266	1.255	2.8
Benzo (a) pyrene		1.154	1.118	1.177	1.240	1.242	1.194	3.9
Indeno (1,2,3-cd) pyrene		1.332	1.396	1.481	1.589	1.607	1.473	8.4
Dibenzo (a,h) anthracene		1.101	1.171	1.240	1.331	1.355	1.236	8.7
Benzo (g,h,i) perylene		1.097	1.162	1.219	1.297	1.319	1.206	8.6
1,2,4,5-Tetrachlorobenzene		0.594	0.591	0.604	0.652	0.653	0.616	4.6

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: loui01

Lab Code: CHEM Case No.: O1233 SAS No.: O1233 SDG No.: O1233

Instrument ID: BNA_P Calibration Date(s): 01/23/2023 01/23/2023

Calibration Time(s): 11:25 16:01

LAB FILE ID:		RRF2.5 = BP013545.D			RRF005 = BP013546.D		RRF010 = BP013547.D	
		RRF020 = BP013548.D			RRF040 = BP013549.D		RRF050 = BP013550.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
1,4-Dioxane		0.496	0.484	0.477	0.495	0.475	0.471	6.0
2,3,4,6-Tetrachlorophenol		0.273	0.284	0.318	0.337	0.348	0.327	11.5

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
 Method File : 8270E-BP012323.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Tue Jan 24 04:44:15 2023
 Response Via : Initial Calibration

Calibration Files

2.5 =BP013545.D 5 =BP013546.D 10 =BP013547.D 20 =BP013548.D 40 =BP013549.D 50 =BP013550.D 60 =BP013551.D 80 =BP013552.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.496	0.484	0.477	0.495	0.475	0.451	0.417	0.471	5.98	
3)	Pyridine	1.435	1.372	1.356	1.479	1.425	1.385	1.327	1.397	3.73	
4)	n-Nitrosodimet...	0.665	0.639	0.646	0.662	0.634	0.607	0.569	0.632	5.34	
5) S	2-Fluorophenol	1.214	1.132	1.167	1.231	1.185	1.153	1.090	1.167	4.12	
6)	Aniline	2.143	2.087	2.149	2.168	2.121	2.080	2.027	2.110	2.32	
7) S	Phenol-d6	1.602	1.516	1.588	1.626	1.590	1.559	1.517	1.571	2.69	
8)	2-Chlorophenol	1.272	1.247	1.312	1.334	1.311	1.285	1.254	1.288	2.52	
9)	Benzaldehyde	1.173	1.061	1.015	0.916	0.809			0.995	13.95	
10) C	Phenol	1.647	1.588	1.649	1.678	1.650	1.615	1.567	1.628	2.42	
11)	bis(2-Chloroet...	1.406	1.327	1.359	1.360	1.327	1.285	1.253	1.331	3.81	
12)	1,3-Dichlorobe...	1.507	1.421	1.454	1.479	1.419	1.374	1.318	1.424	4.49	
13) C	1,4-Dichlorobe...	1.534	1.462	1.461	1.496	1.434	1.390	1.333	1.444	4.62	
14)	1,2-Dichlorobe...	1.496	1.415	1.424	1.440	1.386	1.345	1.283	1.399	4.94	
15)	Benzyl Alcohol	1.139	1.068	1.135	1.139	1.137	1.127	1.114	1.122	2.29	
16)	2,2'-oxybis(1-...	1.981	1.864	1.888	1.837	1.785	1.729	1.674	1.822	5.64	
17)	2-Methylphenol	1.194	1.152	1.210	1.208	1.194	1.171	1.146	1.182	2.19	
18)	Hexachloroethane	0.479	0.468	0.485	0.506	0.495	0.480	0.467	0.483	2.93	
19) P	n-Nitroso-di-n...	0.854	1.090	1.050	1.084	1.023	1.017	0.998	0.978	1.012	7.40
20)	3+4-Methylphenols	1.531	1.497	1.574	1.582	1.587	1.561	1.559	1.556	2.05	
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.519	0.502	0.520	0.532	0.524	0.510	0.485	0.513	3.08	
23) S	Nitrobenzene-d5	0.231	0.255	0.297	0.330	0.340	0.337	0.331	0.303	14.54	
24)	Nitrobenzene	0.267	0.285	0.324	0.351	0.356	0.353	0.345	0.326	11.09	
25)	Isophorone	0.730	0.700	0.727	0.718	0.726	0.716	0.712	0.719	1.46	
26) C	2-Nitrophenol	0.057	0.064	0.085	0.106	0.122	0.130		0.094	32.19#	
27)	2,4-Dimethylph...	0.291	0.292	0.312	0.321	0.323	0.319	0.312	0.310	4.29	
28)	bis(2-Chloroet...	0.436	0.416	0.437	0.439	0.443	0.434	0.426	0.433	2.11	
29) C	2,4-Dichloroph...	0.247	0.260	0.282	0.298	0.303	0.303	0.305	0.285	8.26	
30)	1,2,4-Trichlor...	0.325	0.311	0.324	0.336	0.335	0.329	0.320	0.326	2.64	
31)	Naphthalene	1.084	1.044	1.078	1.108	1.103	1.075	1.035	1.075	2.56	
32)	Benzoic acid		0.077	0.106	0.131	0.155	0.166	0.196	0.138	31.08	
33)	4-Chloroaniline	0.475	0.456	0.476	0.482	0.486	0.478	0.477	0.476	1.98	
34) C	Hexachlorobuta...	0.189	0.183	0.189	0.198	0.194	0.189	0.184	0.189	2.76	
35)	Caprolactam	0.085	0.081	0.091	0.091	0.094	0.097	0.110	0.093	9.99	
36) C	4-Chloro-3-met...	0.283	0.281	0.315	0.314	0.325	0.323	0.334	0.311	6.68	
37)	2-Methylnaphth...	0.770	0.744	0.769	0.772	0.778	0.762	0.755	0.764	1.48	
38)	1-Methylnaphth...	0.731	0.701	0.727	0.717	0.728	0.715	0.707	0.718	1.57	

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
 Method File : 8270E-BP012323.M

39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.594	0.591	0.604	0.652	0.653	0.627	0.590	0.616	4.55	
41) P	Hexachlorocycl...	0.218	0.252	0.302	0.325	0.325	0.317	0.290		15.30	
42) S	2,4,6-Tribromo...	0.167	0.172	0.199	0.213	0.226	0.227		0.201	13.18	
43) C	2,4,6-Trichlor...	0.289	0.310	0.351	0.381	0.401	0.396	0.395	0.360	12.51	
44)	2,4,5-Trichlor...	0.337	0.369	0.415	0.453	0.474	0.467	0.465	0.426	12.70	
45) S	2-Fluorobiphenyl	1.472	1.448	1.468	1.532	1.524	1.454	1.302	1.457	5.22	
46)	1,1'-Biphenyl	1.616	1.566	1.596	1.677	1.672	1.614	1.503	1.606	3.76	
47)	2-Chloronaphth...	1.202	1.171	1.201	1.253	1.251	1.209	1.137	1.203	3.45	
48)	2-Nitroaniline	0.125	0.152	0.213	0.263	0.295	0.305	0.332	0.241	33.07	
49)	Acenaphthylene	1.931	1.901	1.972	2.038	2.042	1.989	1.903	1.968	3.00	
50)	Dimethylphthalate	1.492	1.429	1.487	1.499	1.518	1.477	1.506	1.487	1.93	
51)	2,6-Dinitrotol...	0.125	0.165	0.233	0.264	0.287	0.291	0.315	0.240	29.36	
52) C	Acenaphthene	1.197	1.165	1.200	1.251	1.263	1.229	1.205	1.216	2.80	
53)	3-Nitroaniline	0.154	0.194	0.260	0.301	0.323	0.328	0.366	0.275	27.92	
54) P	2,4-Dinitrophenol	0.033	0.038	0.051	0.065	0.078	0.087		0.058	37.60	
55)	Dibenzofuran	1.905	1.832	1.863	1.902	1.911	1.840	1.797	1.864	2.34	
56) P	4-Nitrophenol	0.145	0.195	0.229	0.241	0.249			0.212	20.07	
57)	2,4-Dinitrotol...	0.133	0.175	0.263	0.313	0.351	0.362		0.266	35.50	
58)	Fluorene	1.523	1.445	1.503	1.509	1.513	1.456	1.420	1.482	2.71	
59)	2,3,4,6-Tetrac...	0.273	0.284	0.318	0.337	0.348	0.352	0.377	0.327	11.49	
60)	Diethylphthalate	1.471	1.383	1.460	1.450	1.458	1.427	1.516	1.452	2.79	
61)	4-Chlorophenyl...	0.745	0.705	0.732	0.736	0.744	0.723	0.714	0.729	2.06	
62)	4-Nitroaniline	0.168	0.198	0.267	0.311	0.323	0.323		0.265	25.44	
63)	Azobenzene	1.474	1.388	1.432	1.420	1.417	1.372	1.373	1.411	2.58	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...	0.027	0.040	0.053	0.065	0.072	0.090	0.058		39.19	
66) c	n-Nitrosodiphe...	0.634	0.631	0.663	0.675	0.686	0.672	0.604	0.652	4.54	
67)	4-Bromophenyl-...	0.214	0.210	0.220	0.226	0.233	0.233	0.216	0.222	4.15	
68)	Hexachlorobenzene	0.235	0.227	0.237	0.243	0.250	0.248	0.235	0.239	3.44	
69)	Atrazine	0.174	0.171	0.189	0.199	0.194	0.191	0.189	0.187	5.42	
70) C	Pentachlorophenol	0.099	0.127	0.143	0.151	0.153	0.163	0.139		16.51	
71)	Phenanthrene	1.134	1.075	1.111	1.151	1.145	1.121	1.053	1.113	3.29	
72)	Anthracene	1.115	1.085	1.132	1.181	1.167	1.151	1.075	1.129	3.56	
73)	Carbazole	1.018	0.962	1.001	1.066	1.042	1.014	1.002	1.015	3.25	
74)	Di-n-butylphth...	1.055	0.996	1.116	1.186	1.186	1.165	1.204	1.130	6.94	
75) C	Fluoranthene	1.200	1.090	1.134	1.255	1.206	1.174	1.224	1.183	4.75	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.546	0.523	0.502	0.528	0.458	0.476	0.488	0.503	6.22	
78)	Pyrene	1.598	1.534	1.636	1.482	1.539	1.498	1.418	1.529	4.75	
79) S	Terphenyl-d14	1.183	1.124	1.204	1.112	1.126	1.093	0.940	1.112	7.67	
80)	Butylbenzylpht...	0.404	0.407	0.487	0.527	0.545	0.552		0.487	13.72	
81)	Benzo(a)anthra...	1.403	1.336	1.388	1.431	1.430	1.410	1.355	1.393	2.62	
82)	3,3'-Dichlorob...	0.392	0.390	0.439	0.482	0.487	0.486	0.466	0.449	9.51	
83)	Chrysene	1.337	1.294	1.343	1.376	1.366	1.338	1.275	1.333	2.74	
84)	Bis(2-ethylhex...	0.691	0.677	0.751	0.814	0.821	0.820	0.881	0.779	9.65	
85) c	Di-n-octyl pht...	1.022	1.041	1.144	1.362	1.374	1.380	1.472	1.256	14.56	

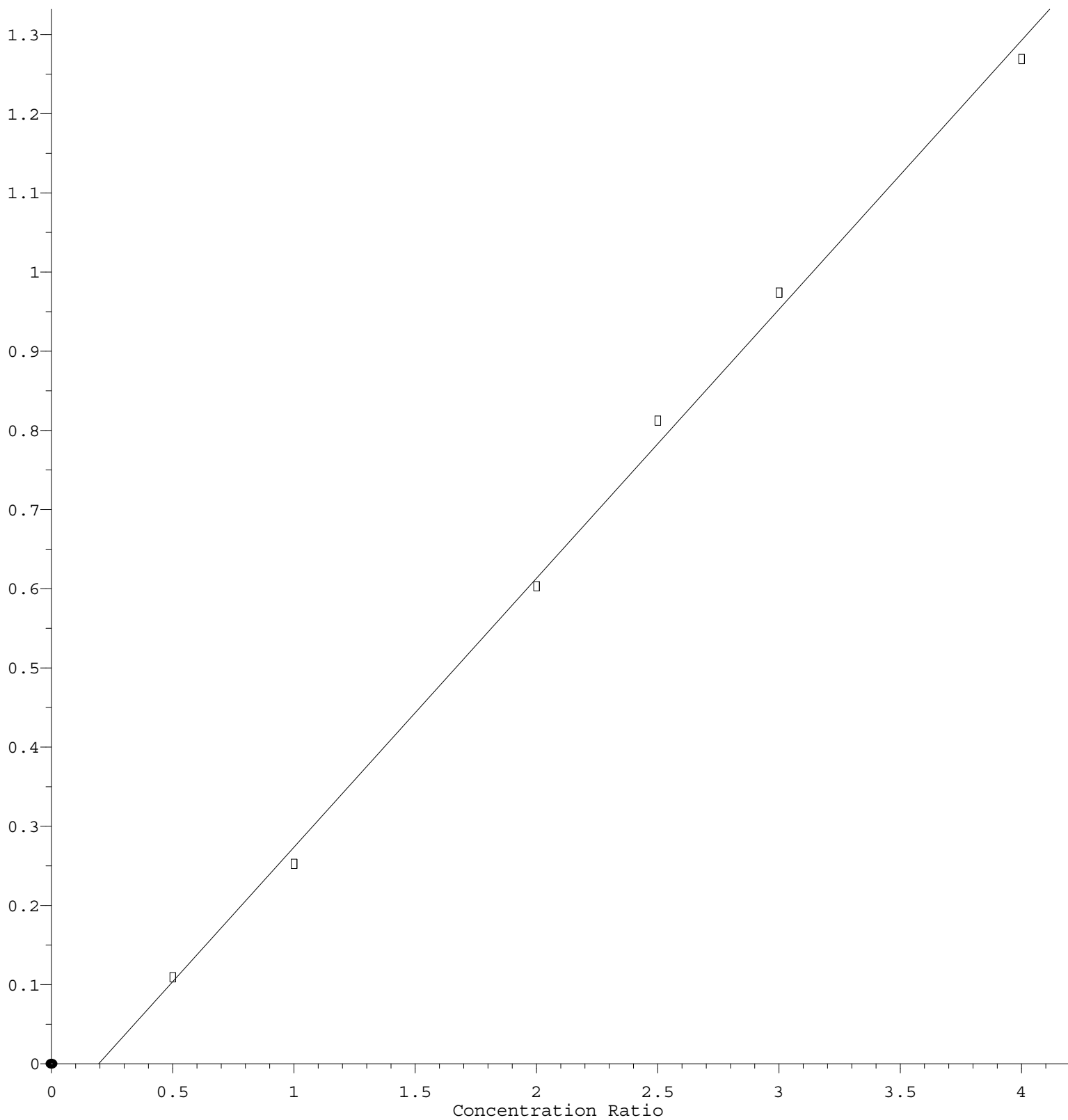
Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP012323.M

86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.332	1.396	1.481	1.589	1.607	1.584	1.324	1.473	8.39
88)	Benzo(b)fluora...	1.203	1.148	1.199	1.268	1.267	1.244	1.283	1.230	3.96
89)	Benzo(k)fluora...	1.250	1.198	1.250	1.263	1.266	1.243	1.314	1.255	2.75
90) C	Benzo(a)pyrene	1.154	1.118	1.177	1.240	1.242	1.219	1.204	1.194	3.86
91)	Dibenzo(a,h)an...	1.101	1.171	1.240	1.331	1.355	1.335	1.118	1.236	8.70
92)	Benzo(g,h,i)pe...	1.097	1.162	1.219	1.297	1.319	1.293	1.056	1.206	8.63

(#) = Out of Range

Hexachlorocyclopentadiene

Response Ratio



$$\text{Response} = 3.398\text{e-}001 * \text{Amt} - 6.632\text{e-}002$$

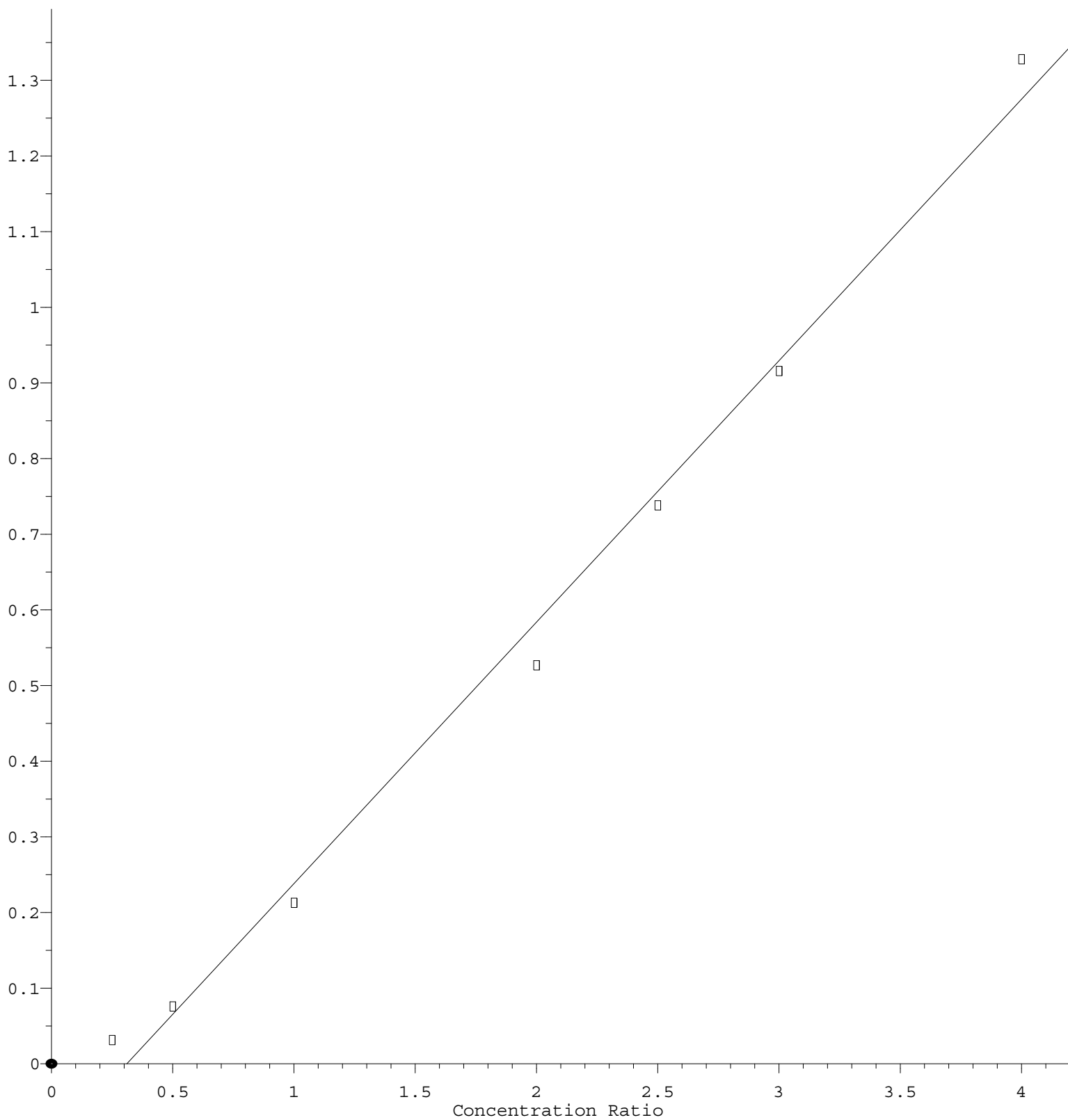
Coef of Det (r^2) = 0.997487 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP012323.M

Calibration Table Last Updated: Tue Jan 24 04:44:15 2023

2-Nitroaniline

Response Ratio



$$\text{Response} = 3.457\text{e-}001 * \text{Amt} - 1.075\text{e-}001$$

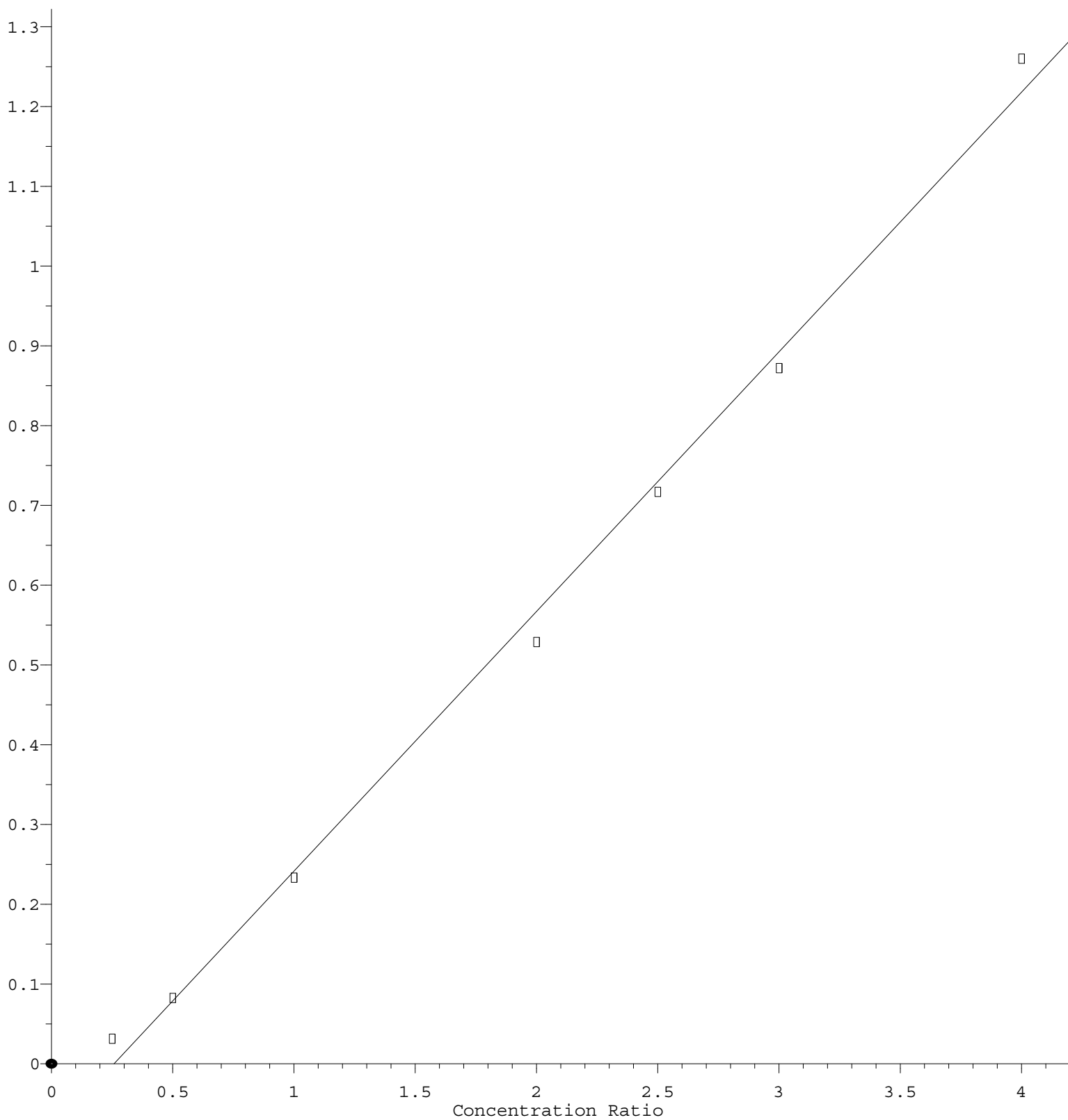
Coef of Det (r^2) = 0.992721 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP012323.M

Calibration Table Last Updated: Tue Jan 24 04:44:15 2023

2,6-Dinitrotoluene

Response Ratio



$$\text{Response} = 3.255\text{e-}001 * \text{Amt} - 8.404\text{e-}002$$

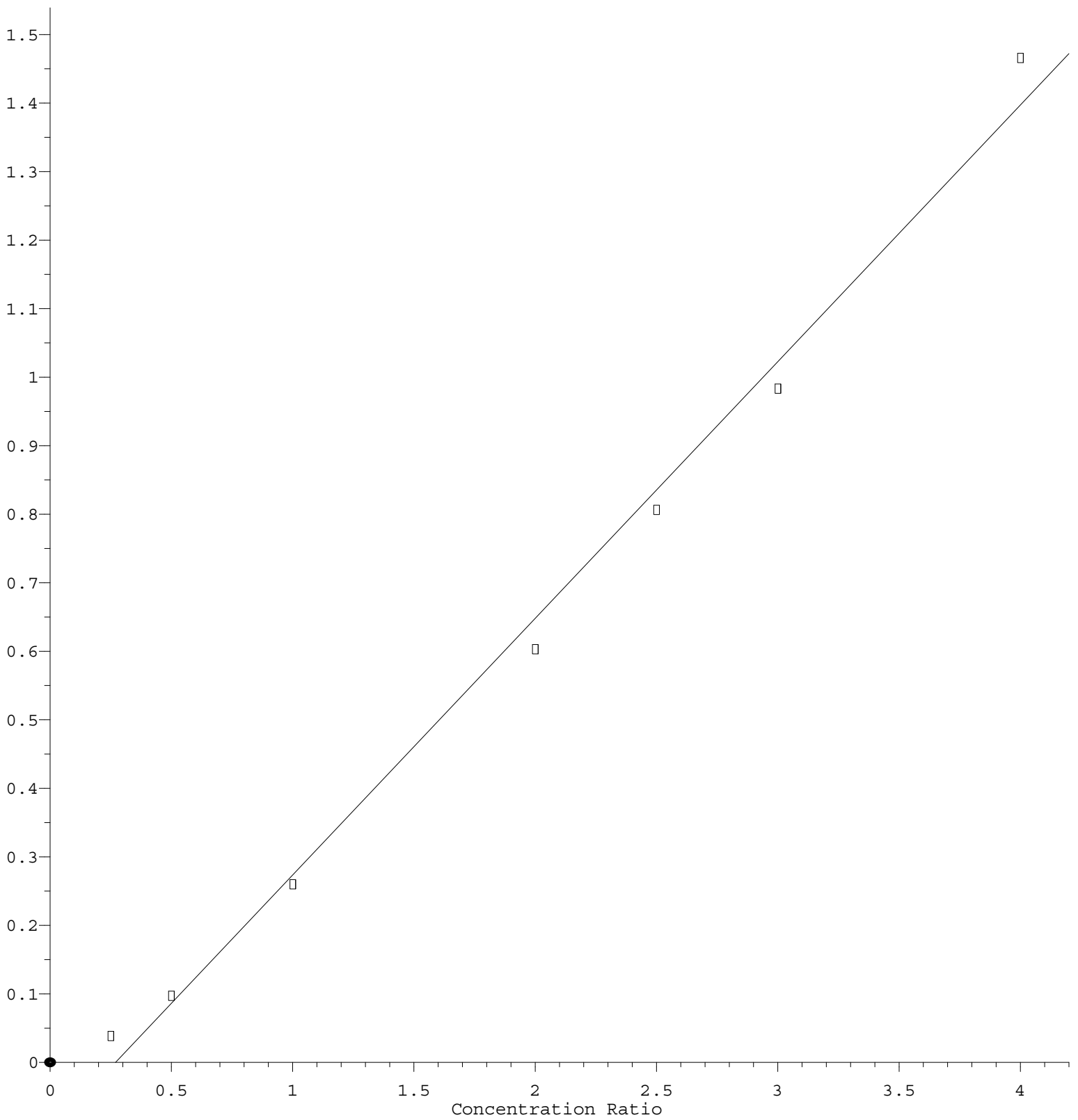
Coef of Det (r^2) = 0.995874 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP012323.M

Calibration Table Last Updated: Tue Jan 24 04:44:15 2023

3-Nitroaniline

Response Ratio



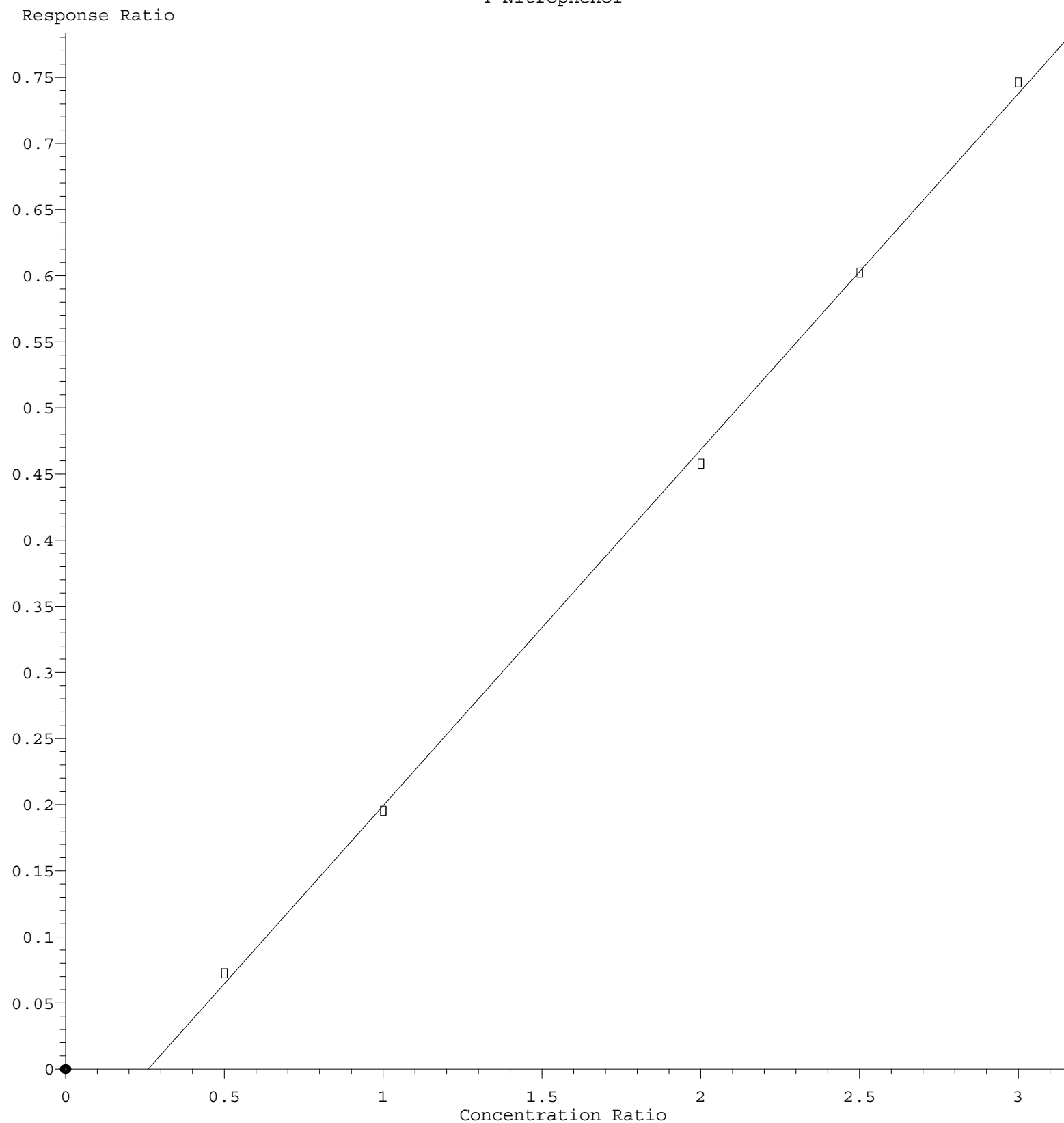
$$\text{Response} = 3.745\text{e-}001 * \text{Amt} - 1.013\text{e-}001$$

Coef of Det (r^2) = 0.992875 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP012323.M

Calibration Table Last Updated: Tue Jan 24 04:44:15 2023

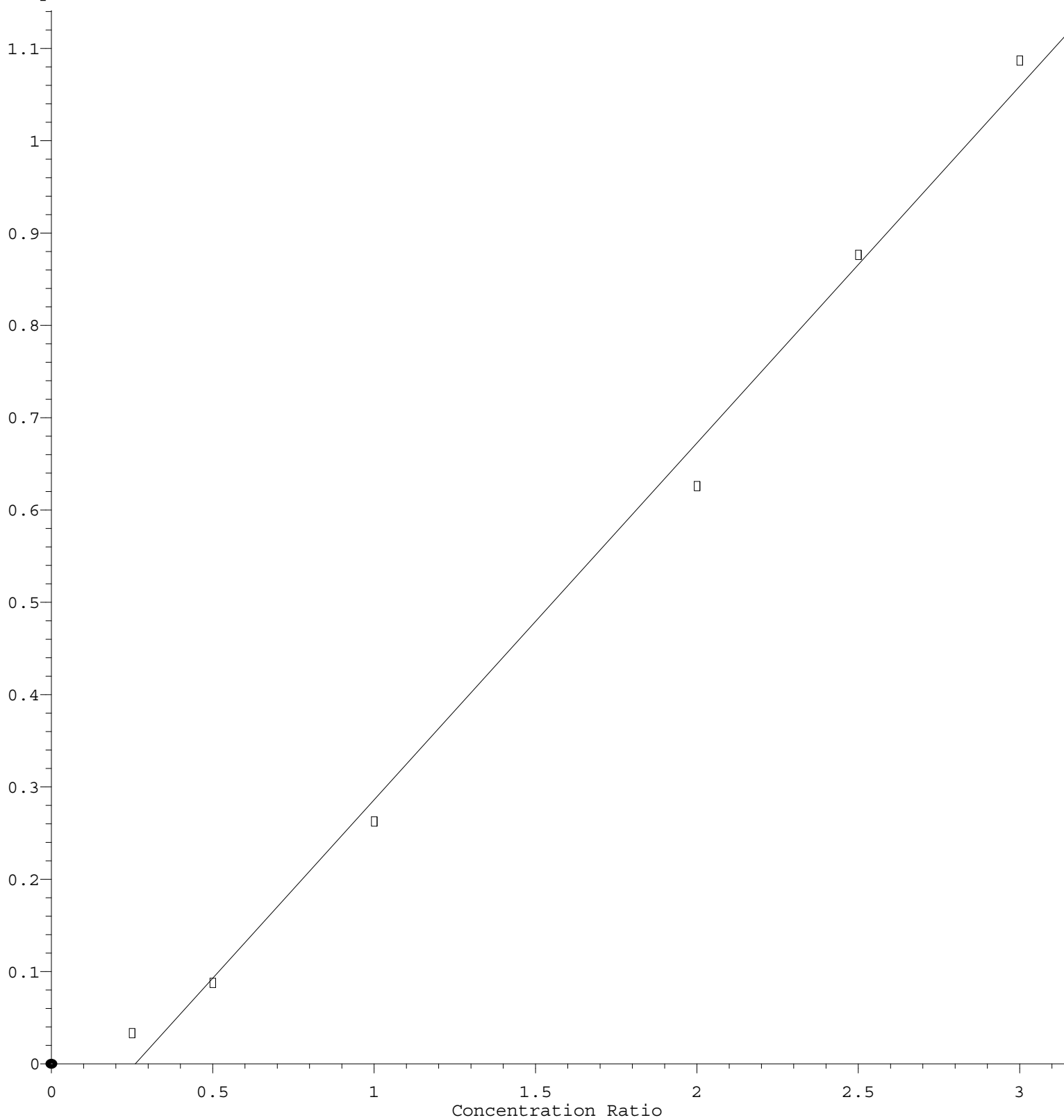
4-Nitrophenol



Response = 2.693e-001 * Amt - 6.991e-002
 Coef of Det (r^2) = 0.999157 Curve Fit: Linear
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP012323.M
 Calibration Table Last Updated: Tue Jan 24 04:44:15 2023

2,4-Dinitrotoluene

Response Ratio



$$\text{Response} = 3.864\text{e-}001 * \text{Amt} - 1.003\text{e-}001$$

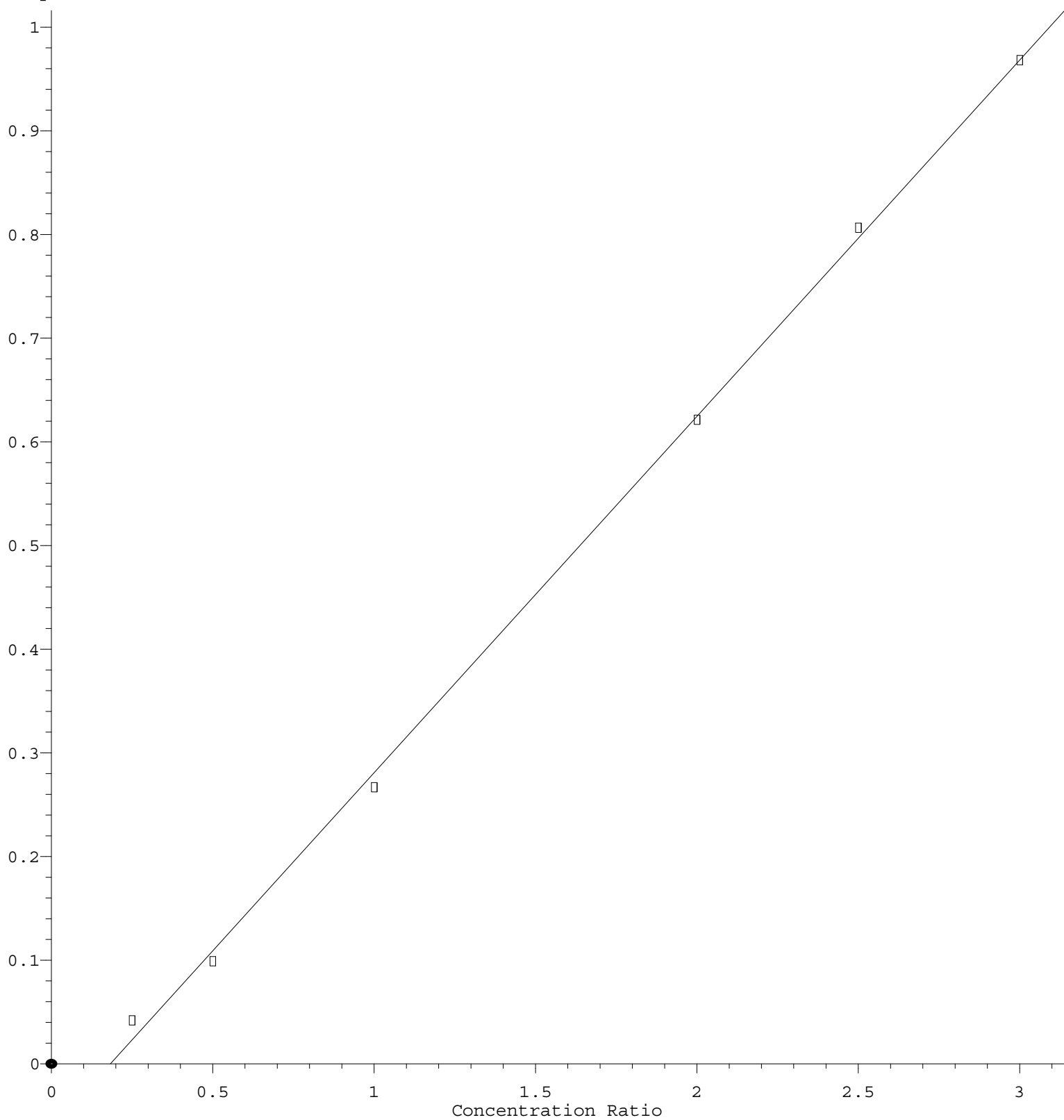
Coef of Det (r^2) = 0.994698 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP012323.M

Calibration Table Last Updated: Tue Jan 24 04:44:15 2023

4-Nitroaniline

Response Ratio



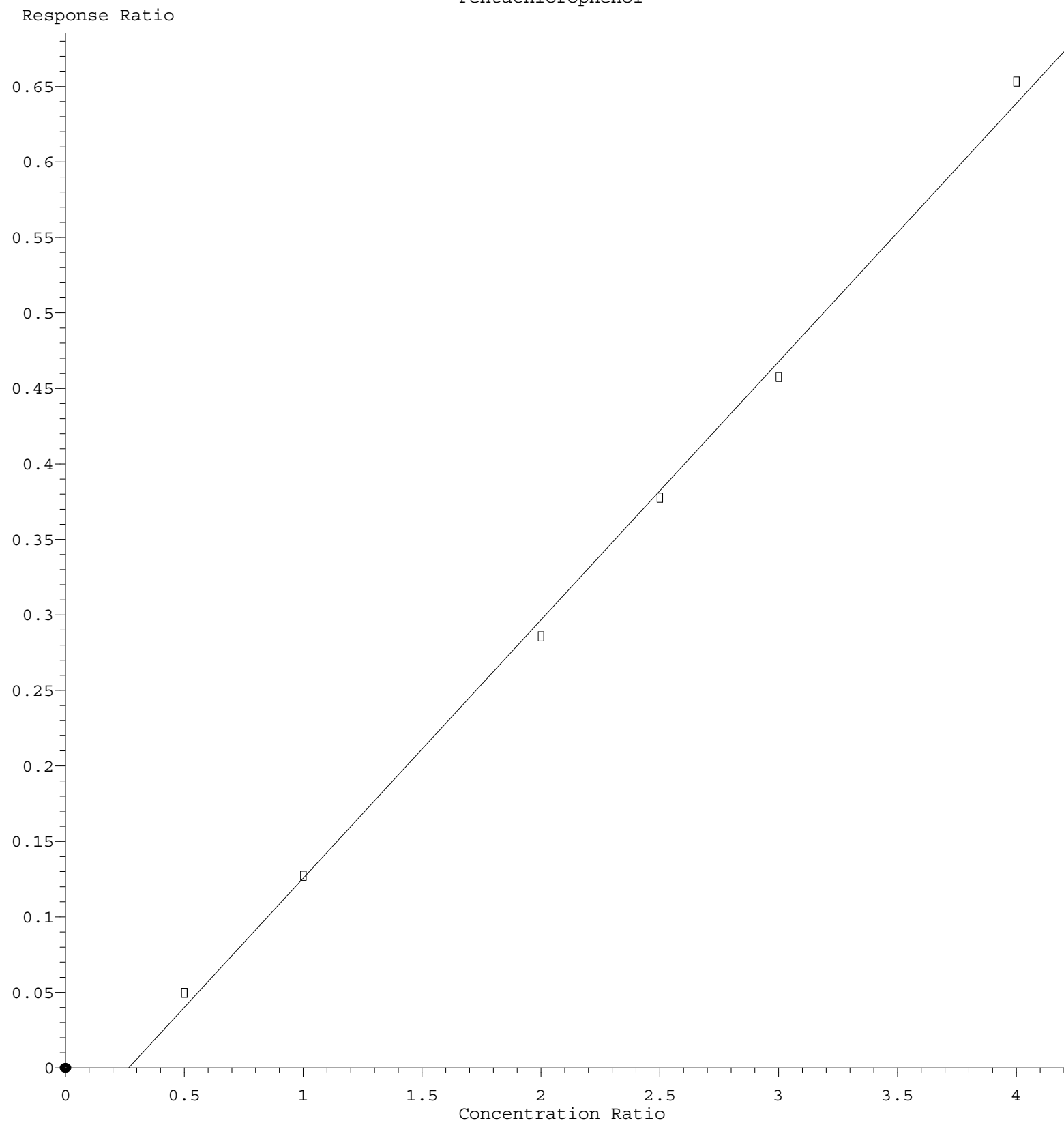
$$\text{Response} = 3.440\text{e-}001 * \text{Amt} - 6.300\text{e-}002$$

Coef of Det (r^2) = 0.998978 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP012323.M

Calibration Table Last Updated: Tue Jan 24 04:44:15 2023

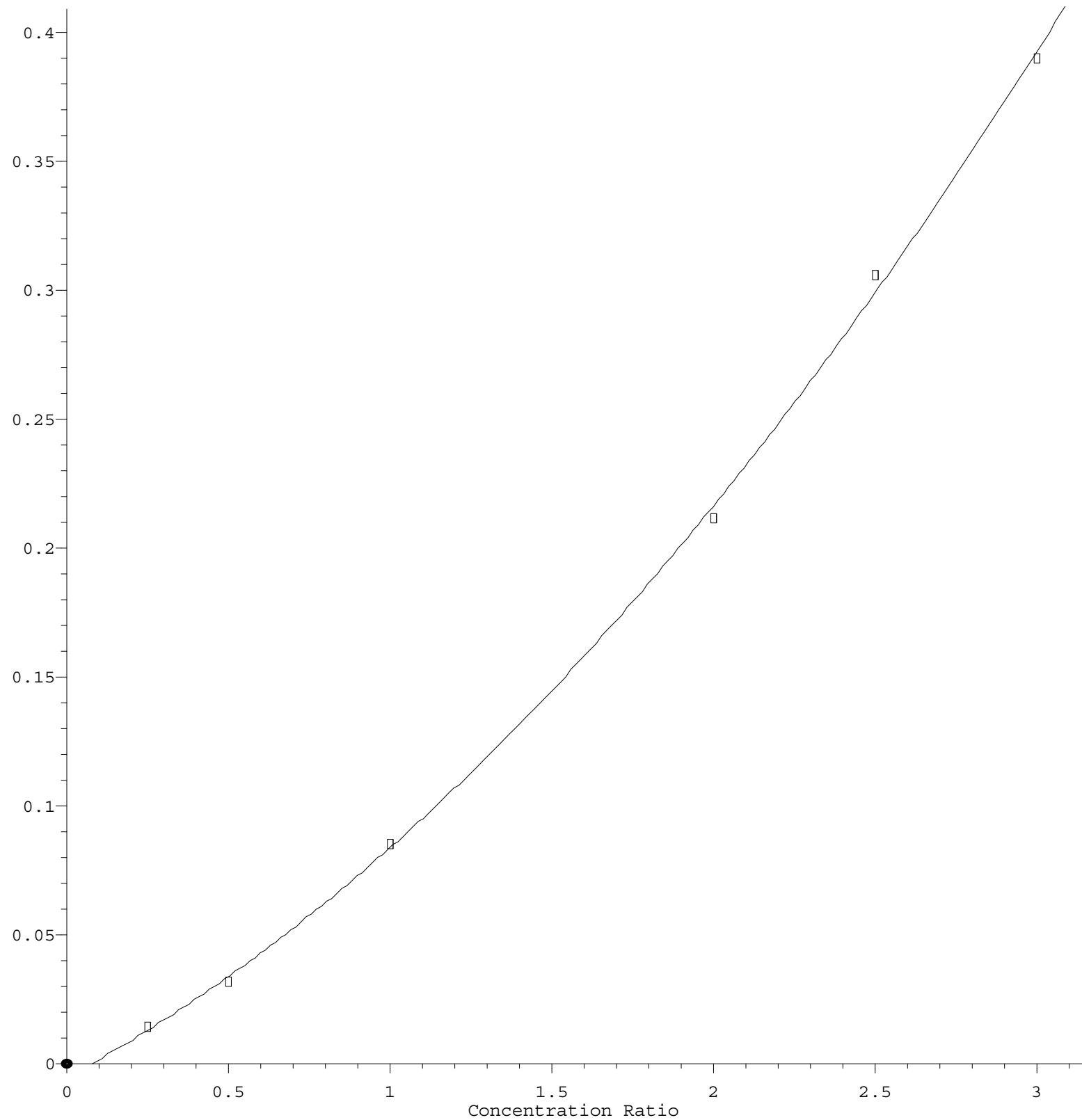
Pentachlorophenol



Response = 1.711e-001 * Amt - 4.559e-002
 Coef of Det (r^2) = 0.997767 Curve Fit: Linear
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP012323.M
 Calibration Table Last Updated: Tue Jan 24 04:44:15 2023

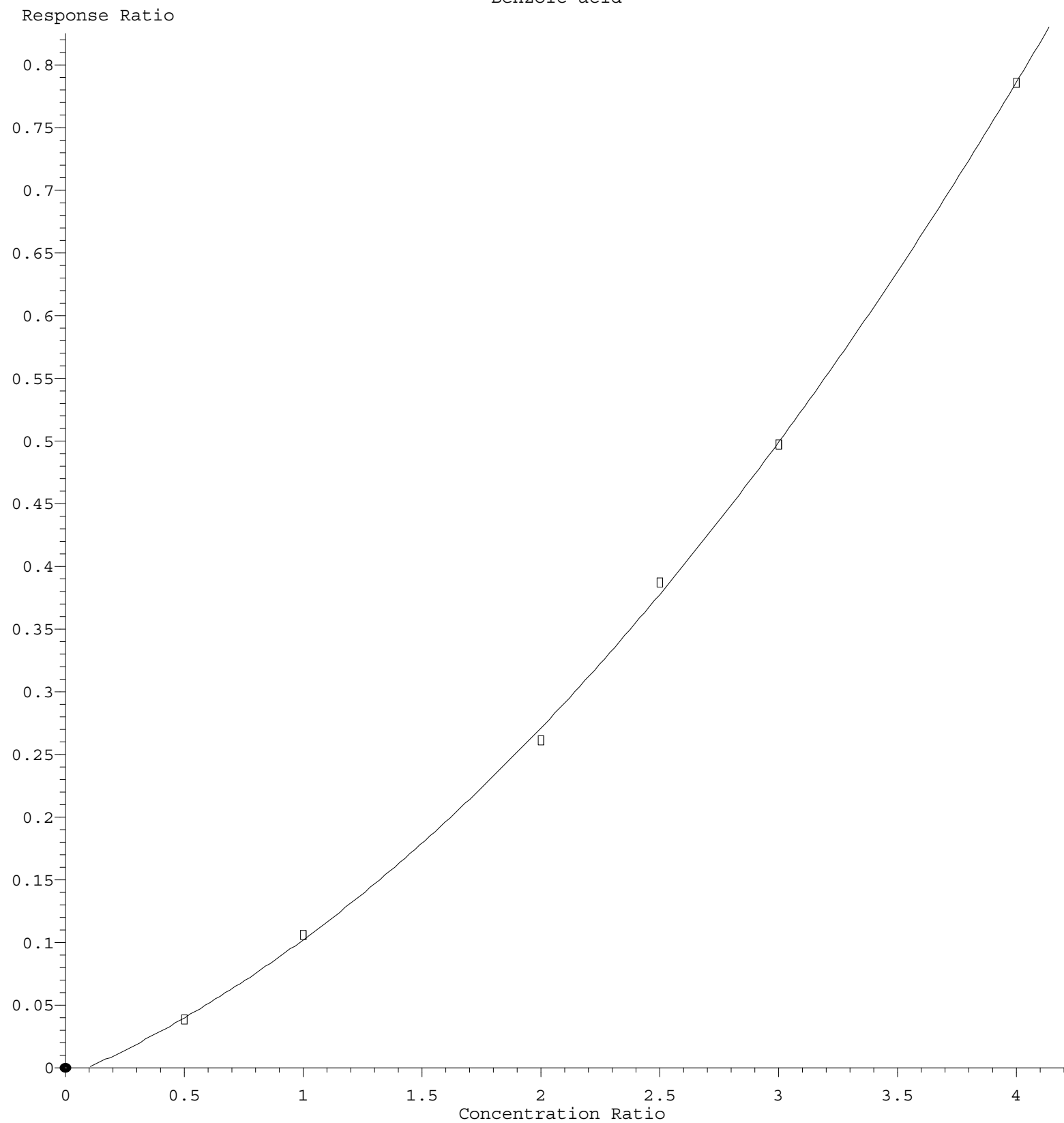
2-Nitrophenol

Response Ratio



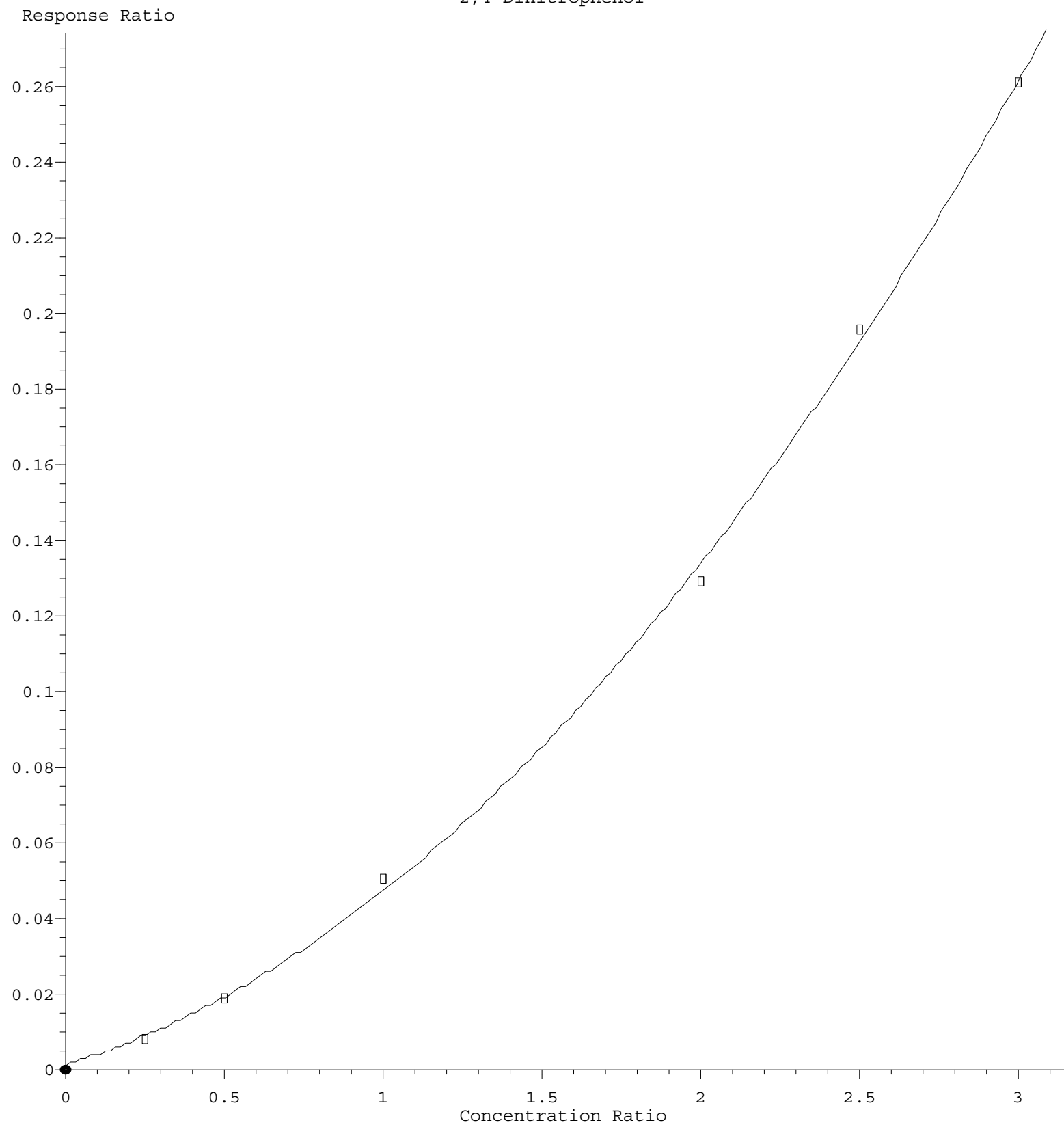
$R = 2.177e-002 A^2 + 6.727e-002 A - 5.218e-003$
 Coef of Det (r^2) = 0.999284 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP012323.M
 Calibration Table Last Updated: Tue Jan 24 04:44:15 2023

Benzoic acid



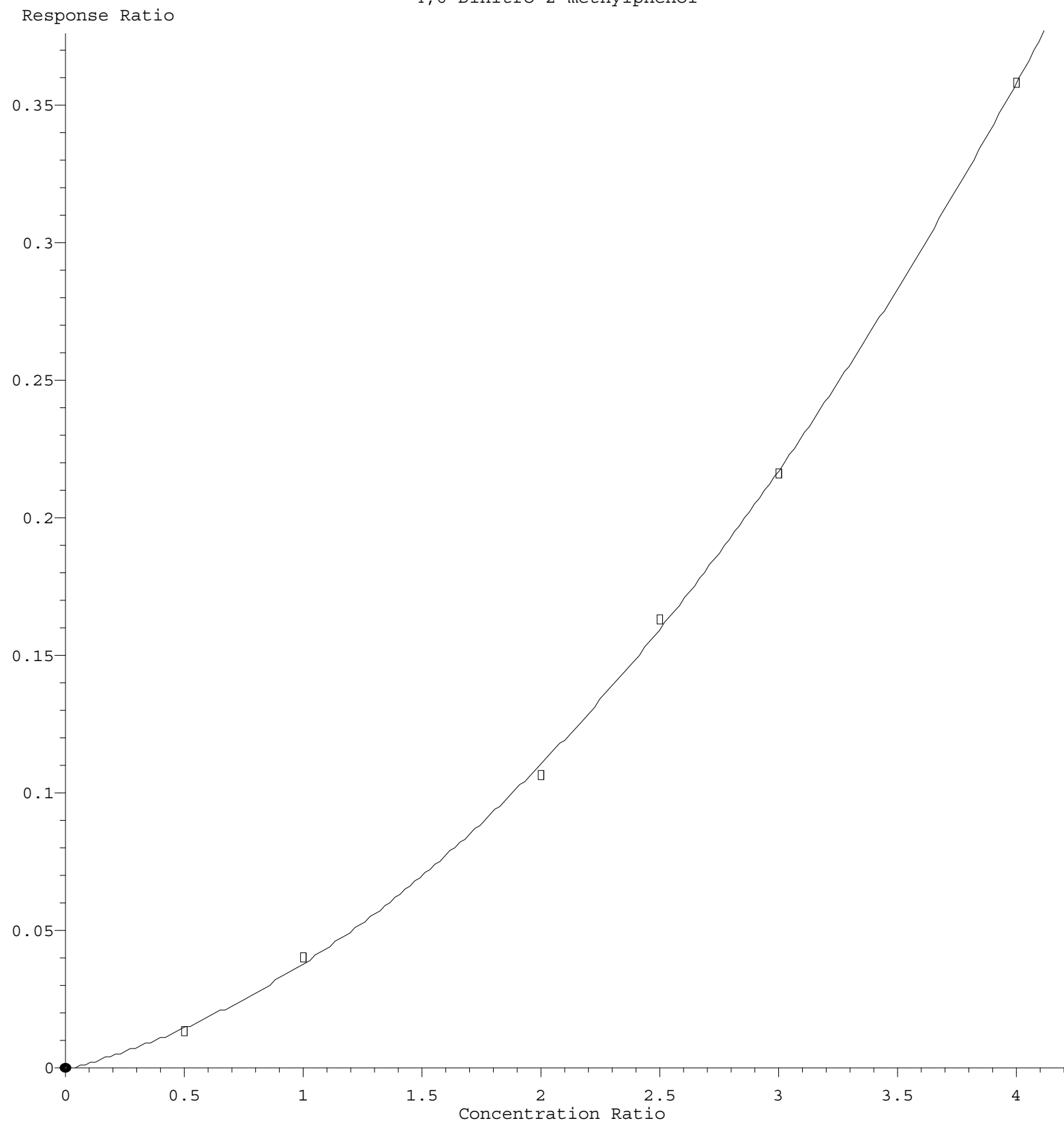
$R = 2.953e-002 A^2 + 8.035e-002 A - 7.788e-003$
 Coef of Det (r^2) = 0.999454 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP012323.M
 Calibration Table Last Updated: Tue Jan 24 04:44:15 2023

2,4-Dinitrophenol



$R = 2.048e-002 A^2 + 2.526e-002 A + 1.465e-003$
 Coef of Det (r^2) = 0.999160 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP012323.M
 Calibration Table Last Updated: Tue Jan 24 04:44:15 2023

4,6-Dinitro-2-methylphenol



$R = 1.711e-002 A^2 + 2.122e-002 A - 5.198e-004$
 Coef of Det (r^2) = 0.999553 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP012323.M
 Calibration Table Last Updated: Tue Jan 24 04:44:15 2023

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012323\
 Data File : BP013545.D
 Acq On : 23 Jan 2023 11:25
 Operator : CG/JU
 Sample : SSTDICC2.5
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICC2.5

Quant Time: Jan 24 03:01:58 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 24 03:01:10 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

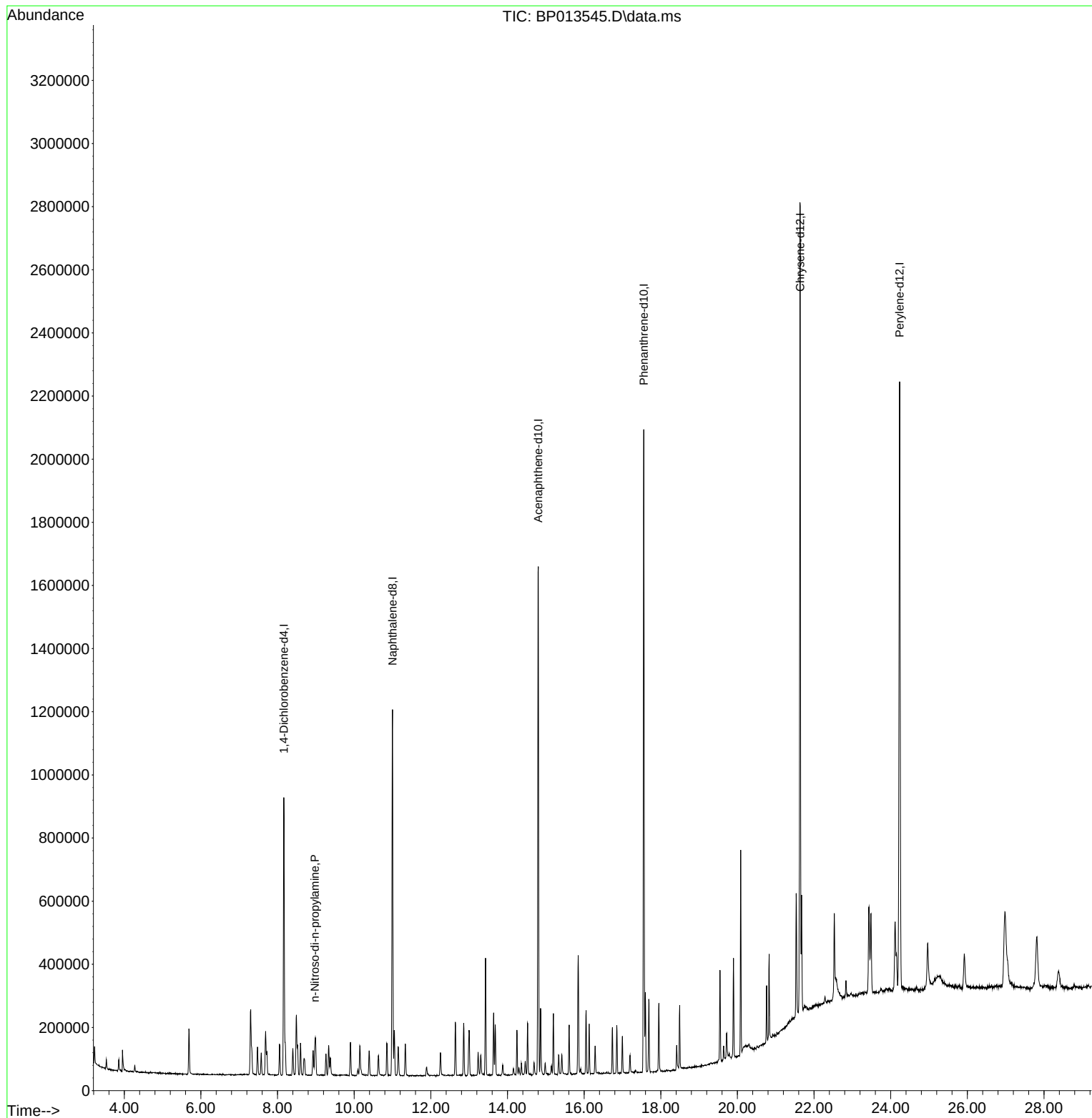
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.163	152	238700	20.000	ng	0.00
21) Naphthalene-d8	10.999	136	960608	20.000	ng	0.00
39) Acenaphthene-d10	14.804	164	557880	20.000	ng	0.00
64) Phenanthrene-d10	17.557	188	1177024	20.000	ng	0.00
76) Chrysene-d12	21.639	240	1248856	20.000	ng	0.00
86) Perylene-d12	24.233	264	1515760	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.000	ng	
7) Phenol-d6	0.000	99	0d	0.000	ng	
23) Nitrobenzene-d5	0.000	82	0d	0.000	ng	
42) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng	
45) 2-Fluorobiphenyl	0.000	172	0d	0.000	ng	
79) Terphenyl-d14	0.000	244	0d	0.000	ng	
Target Compounds						
19) n-Nitroso-di-n-propyla...	8.969	70	25480	2.110	ng	Qvalue 94

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012323\
Data File : BP013545.D
Acq On : 23 Jan 2023 11:25
Operator : CG/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Quant Time: Jan 24 03:01:58 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jan 24 03:01:10 2023
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012323\
 Data File : BP013546.D
 Acq On : 23 Jan 2023 12:00
 Operator : CG/JU
 Sample : SSTDICC005
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

BNA_P

ClientSampleId :

SSTDICC005

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 01/24/2023
 Supervised By :Jagrut Upadhyay 01/24/2023

Quant Time: Jan 24 03:02:43 2023

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Jan 24 03:01:10 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.163	152	290672	20.000	ng	0.00
21) Naphthalene-d8	10.998	136	1244553	20.000	ng	0.00
39) Acenaphthene-d10	14.804	164	762595	20.000	ng	0.00
64) Phenanthrene-d10	17.557	188	1581100	20.000	ng	0.00
76) Chrysene-d12	21.633	240	1245994	20.000	ng	0.00
86) Perylene-d12	24.233	264	1189200	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.687	112	176436	10.400	ng	0.00
7) Phenol-d6	7.299	99	232776	10.195	ng	0.00
23) Nitrobenzene-d5	9.334	82	143489	7.611	ng	0.00
42) 2,4,6-Tribromophenol	16.286	330	63576	7.996	ng	0.00
45) 2-Fluorobiphenyl	13.428	172	561332	10.104	ng	0.00
79) Terphenyl-d14	20.086	244	736879	10.639	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.534	88	36033	5.269	ng	97
3) Pyridine	3.946	79	104254	5.150	ng	100
4) n-Nitrosodimethylamine	3.852	42	48351	5.267	ng	# 92
6) Aniline	7.475	93	155726	5.077	ng	98
8) 2-Chlorophenol	7.722	128	92463	4.939	ng	99
9) Benzaldehyde	7.287	77	85241	6.887	ng	96
10) Phenol	7.328	94	119652	5.058	ng	98
11) bis(2-Chloroethyl)ether	7.575	93	102165	5.282	ng	99
12) 1,3-Dichlorobenzene	8.052	146	109484	5.289	ng	97
13) 1,4-Dichlorobenzene	8.199	146	111445	5.309	ng	99
14) 1,2-Dichlorobenzene	8.522	146	108740	5.350	ng	98
15) Benzyl Alcohol	8.399	79	82745	5.072	ng	96
16) 2,2'-oxybis(1-Chloropr...	8.699	45	143922	5.427	ng	99
17) 2-Methylphenol	8.599	107	86740	5.049	ng	96
18) Hexachloroethane	9.263	117	34806	4.961	ng	99
19) n-Nitroso-di-n-propyla...	8.969	70	79203	5.386	ng	95
20) 3+4-Methylphenols	8.928	107	111228	4.919	ng	95
22) Acetophenone	8.993	105	161584	5.061	ng	# 96
24) Nitrobenzene	9.375	77	82968	4.093	ng	91
25) Isophorone	9.904	82	227247	5.082	ng	100
26) 2-Nitrophenol	10.093	139	17824	2.820	ng	97
27) 2,4-Dimethylphenol	10.146	122	90559	4.594	ng	99
28) bis(2-Chloroethoxy)met...	10.387	93	135638	5.034	ng	99
29) 2,4-Dichlorophenol	10.634	162	76809	4.326	ng	98
30) 1,2,4-Trichlorobenzene	10.857	180	101135	4.991	ng	98
31) Naphthalene	11.046	128	337355	5.042	ng	100
33) 4-Chloroaniline	11.151	127	147826	4.993	ng	98
34) Hexachlorobutadiene	11.334	225	58827	4.989	ng	97
35) Caprolactam	11.887	113	26416m	4.606	ng	
36) 4-Chloro-3-methylphenol	12.251	107	88110	4.557	ng	100
37) 2-Methylnaphthalene	12.640	142	239508	5.036	ng	98
38) 1-Methylnaphthalene	12.857	142	227581	5.093	ng	98
40) 1,2,4,5-Tetrachloroben...	13.004	216	113229	4.823	ng	99
43) 2,4,6-Trichlorophenol	13.234	196	55178	4.016	ng	99
44) 2,4,5-Trichlorophenol	13.304	196	64198	3.954	ng	99
46) 1,1'-Biphenyl	13.639	154	308083	5.030	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012323\
 Data File : BP013546.D
 Acq On : 23 Jan 2023 12:00
 Operator : CG/JU
 Sample : SSTDICC005
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICC005

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 01/24/2023
 Supervised By : Jagrut Upadhyay 01/24/2023

Quant Time: Jan 24 03:02:43 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 24 03:01:10 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) 2-Chloronaphthalene	13.681	162	229138	4.994	ng	99
48) 2-Nitroaniline	13.875	65	23889	2.602	ng	93
49) Acenaphthylene	14.522	152	368173	4.907	ng	99
50) Dimethylphthalate	14.245	163	284473	5.018	ng	100
51) 2,6-Dinitrotoluene	14.363	165	23891	2.610	ng	# 79
52) Acenaphthene	14.863	154	228238	4.924	ng	99
53) 3-Nitroaniline	14.692	138	29393	2.801	ng	# 80
54) 2,4-Dinitrophenol	14.892	184	6206	2.225	ng	# 57
55) Dibenzofuran	15.198	168	363125	5.109	ng	100
57) 2,4-Dinitrotoluene	15.151	165	25320	2.301	ng	92
58) Fluorene	15.845	166	290340	5.140	ng	98
59) 2,3,4,6-Tetrachlorophenol	15.416	232	52023	4.173	ng	# 98
60) Diethylphthalate	15.610	149	280416	5.065	ng	99
61) 4-Chlorophenyl-phenyle...	15.839	204	142114	5.116	ng	98
62) 4-Nitroaniline	15.851	138	31975	2.986	ng	# 72
63) Azobenzene	16.133	77	280967	5.222	ng	98
66) n-Nitrosodiphenylamine	16.051	169	250427	4.857	ng	99
67) 4-Bromophenyl-phenylether	16.739	248	84413	4.820	ng	97
68) Hexachlorobenzene	16.851	284	93008	4.916	ng	98
69) Atrazine	16.998	200	68946	4.673	ng	99
71) Phenanthrene	17.598	178	448418	5.097	ng	100
72) Anthracene	17.686	178	440566	4.934	ng	99
73) Carbazole	17.951	167	402418	5.015	ng	99
74) Di-n-butylphthalate	18.492	149	416887	4.668	ng	99
75) Fluoranthene	19.545	202	474307	5.070	ng	99
77) Benzidine	19.722	184	170058	5.427	ng	99
78) Pyrene	19.898	202	497710	5.224	ng	99
80) Butylbenzylphthalate	20.763	149	125935	4.006	ng	95
81) Benzo(a)anthracene	21.616	228	437085	5.035	ng	99
82) 3,3'-Dichlorobenzidine	21.539	252	122212	4.370	ng	100
83) Chrysene	21.674	228	416374	5.015	ng	99
84) Bis(2-ethylhexyl)phtha...	21.533	149	215278	4.434	ng	99
85) Di-n-octyl phthalate	22.527	149	318212	4.066	ng	# 94
87) Indeno(1,2,3-cd)pyrene	26.968	276	396104	4.522	ng	100
88) Benzo(b)fluoranthene	23.433	252	357560	4.888	ng	100
89) Benzo(k)fluoranthene	23.486	252	371518	4.979	ng	99
90) Benzo(a)pyrene	24.115	252	343013	4.833	ng	99
91) Dibenzo(a,h)anthracene	26.998	278	327215	4.454	ng	98
92) Benzo(g,h,i)perylene	27.809	276	326222	3.724	ng	99

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

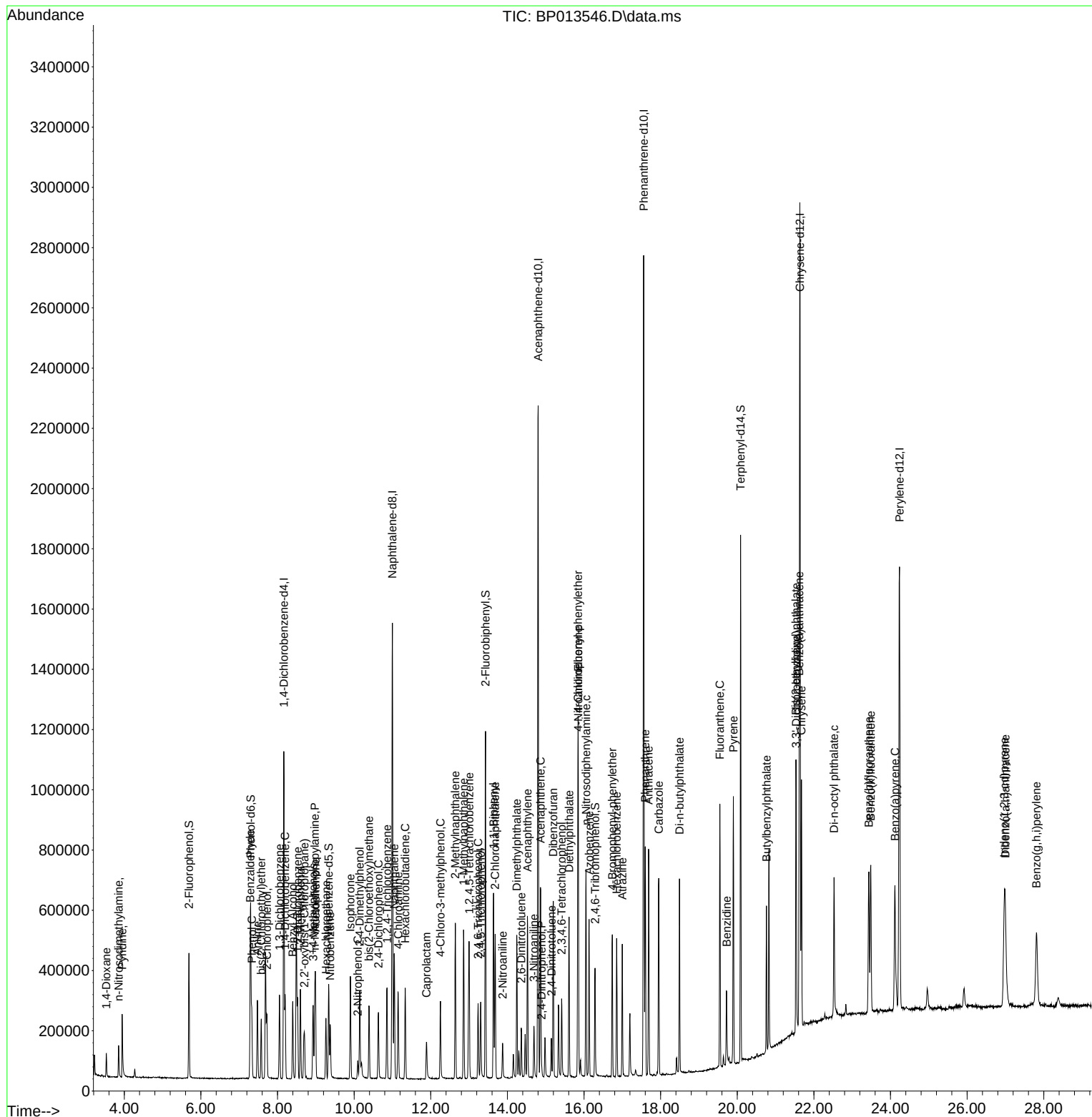
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012323\
Data File : BP013546.D
Acq On : 23 Jan 2023 12:00
Operator : CG/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Christian Giraldo 01/24/2023
Supervised By :Jaqrut Upadhyay 01/24/2023

Quant Time: Jan 24 03:02:43 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jan 24 03:01:10 2023
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012323\
 Data File : BP013547.D
 Acq On : 23 Jan 2023 12:34
 Operator : CG/JU
 Sample : SSTDICC010
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_P

ClientSampleId :

SSTDICC010

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 01/24/2023
 Supervised By :Jagrut Upadhyay 01/24/2023

Quant Time: Jan 24 03:03:27 2023

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Jan 24 03:01:10 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.163	152	298822	20.000	ng	0.00
21) Naphthalene-d8	10.999	136	1247030	20.000	ng	0.00
39) Acenaphthene-d10	14.804	164	733503	20.000	ng	0.00
64) Phenanthrene-d10	17.557	188	1433151	20.000	ng	0.00
76) Chrysene-d12	21.633	240	1056785	20.000	ng	0.00
86) Perylene-d12	24.233	264	1104363	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.687	112	338366	19.401	ng	0.00
7) Phenol-d6	7.299	99	452892	19.294	ng	0.00
23) Nitrobenzene-d5	9.334	82	317907	16.830	ng	0.00
42) 2,4,6-Tribromophenol	16.286	330	125860	16.458	ng	0.00
45) 2-Fluorobiphenyl	13.428	172	1062261	19.879	ng	0.00
79) Terphenyl-d14	20.086	244	1188105	20.225	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.534	88	72336	10.288	ng	99
3) Pyridine	3.940	79	204973	9.850	ng	98
4) n-Nitrosodimethylamine	3.852	42	95476	10.117	ng	# 93
6) Aniline	7.475	93	311786	9.888	ng	100
8) 2-Chlorophenol	7.722	128	186351	9.683	ng	100
9) Benzaldehyde	7.287	77	158529	12.460	ng	96
10) Phenol	7.328	94	237242	9.755	ng	97
11) bis(2-Chloroethyl)ether	7.575	93	198264	9.970	ng	99
12) 1,3-Dichlorobenzene	8.052	146	212352	9.978	ng	98
13) 1,4-Dichlorobenzene	8.199	146	218466	10.124	ng	98
14) 1,2-Dichlorobenzene	8.522	146	211459	10.120	ng	99
15) Benzyl Alcohol	8.399	79	159546	9.513	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.693	45	278442	10.212	ng	99
17) 2-Methylphenol	8.599	107	172111	9.745	ng	99
18) Hexachloroethane	9.263	117	69931	9.695	ng	97
19) n-Nitroso-di-n-propyla...	8.969	70	156954	10.381	ng	96
20) 3+4-Methylphenols	8.928	107	223676	9.622	ng	96
22) Acetophenone	8.993	105	312818	9.778	ng	# 98
24) Nitrobenzene	9.375	77	177682	8.748	ng	97
25) Isophorone	9.904	82	436475	9.742	ng	100
26) 2-Nitrophenol	10.093	139	39693	6.268	ng	99
27) 2,4-Dimethylphenol	10.146	122	182345	9.232	ng	99
28) bis(2-Chloroethoxy)met...	10.393	93	259280	9.603	ng	98
29) 2,4-Dichlorophenol	10.628	162	161812	9.095	ng	100
30) 1,2,4-Trichlorobenzene	10.851	180	194140	9.562	ng	99
31) Naphthalene	11.046	128	650711	9.706	ng	100
32) Benzoic acid	10.204	122	48058	5.567	ng	95
33) 4-Chloroaniline	11.146	127	284553	9.592	ng	98
34) Hexachlorobutadiene	11.334	225	113982	9.647	ng	99
35) Caprolactam	11.893	113	50372	8.765	ng	97
36) 4-Chloro-3-methylphenol	12.251	107	175182	9.042	ng	99
37) 2-Methylnaphthalene	12.640	142	464090	9.739	ng	99
38) 1-Methylnaphthalene	12.857	142	437204	9.764	ng	100
40) 1,2,4,5-Tetrachloroben...	13.004	216	216644	9.593	ng	99
41) Hexachlorocyclopentadiene	12.987	237	80077	7.533	ng	95
43) 2,4,6-Trichlorophenol	13.234	196	113601	8.595	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012323\
 Data File : BP013547.D
 Acq On : 23 Jan 2023 12:34
 Operator : CG/JU
 Sample : SSTDICC010
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_P

ClientSampleId :

SSTDICC010

Manual Integrations

APPROVED

Reviewed By : Christian Giraldo 01/24/2023
 Supervised By : Jagrut Upadhyay 01/24/2023

Quant Time: Jan 24 03:03:27 2023

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Jan 24 03:01:10 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.304	196	135447	8.673	ng	99
46) 1,1'-Biphenyl	13.640	154	574308	9.749	ng	99
47) 2-Chloronaphthalene	13.681	162	429374	9.729	ng	99
48) 2-Nitroaniline	13.875	65	55566	6.293	ng	99
49) Acenaphthylene	14.528	152	697120	9.659	ng	100
50) Dimethylphthalate	14.245	163	524089	9.612	ng	99
51) 2,6-Dinitrotoluene	14.363	165	60503	6.872	ng	# 84
52) Acenaphthene	14.863	154	427245	9.583	ng	98
53) 3-Nitroaniline	14.692	138	71299	7.064	ng	# 86
54) 2,4-Dinitrophenol	14.892	184	13822	5.152	ng	# 63
55) Dibenzofuran	15.198	168	671763	9.826	ng	99
56) 4-Nitrophenol	14.981	139	53210	6.462	ng	87
57) 2,4-Dinitrotoluene	15.151	165	64262	6.071	ng	96
58) Fluorene	15.851	166	529954	9.753	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.416	232	104236m	8.692	ng	
60) Diethylphthalate	15.610	149	507345	9.527	ng	100
61) 4-Chlorophenyl-phenyle...	15.839	204	258614	9.679	ng	99
62) 4-Nitroaniline	15.851	138	72632	7.053	ng	# 84
63) Azobenzene	16.134	77	509151	9.839	ng	99
65) 4,6-Dinitro-2-methylph...	15.910	198	19099	4.611	ng	92
66) n-Nitrosodiphenylamine	16.051	169	452272	9.677	ng	99
67) 4-Bromophenyl-phenylether	16.739	248	150227	9.463	ng	99
68) Hexachlorobenzene	16.851	284	162523	9.478	ng	96
69) Atrazine	16.998	200	122657	9.172	ng	98
70) Pentachlorophenol	17.198	266	71173	7.127	ng	97
71) Phenanthrene	17.598	178	770165	9.659	ng	99
72) Anthracene	17.686	178	777509	9.607	ng	99
73) Carbazole	17.951	167	689355	9.478	ng	100
74) Di-n-butylphthalate	18.492	149	713660	8.816	ng	99
75) Fluoranthene	19.545	202	780916	9.209	ng	100
77) Benzidine	19.716	184	276295	10.395	ng	100
78) Pyrene	19.898	202	810530	10.031	ng	99
80) Butylbenzylphthalate	20.763	149	215067	8.066	ng	98
81) Benzo(a)anthracene	21.622	228	705747	9.586	ng	100
82) 3,3'-Dichlorobenzidine	21.539	252	206292	8.697	ng	98
83) Chrysene	21.674	228	683609	9.708	ng	100
84) Bis(2-ethylhexyl)phtha...	21.533	149	357723	8.688	ng	100
85) Di-n-octyl phthalate	22.527	149	550012	8.285	ng	97
87) Indeno(1,2,3-cd)pyrene	26.974	276	770586	9.473	ng	100
88) Benzo(b)fluoranthene	23.433	252	634029	9.333	ng	99
89) Benzo(k)fluoranthene	23.486	252	661387	9.545	ng	100
90) Benzo(a)pyrene	24.115	252	617546	9.370	ng	99
91) Dibenzo(a,h)anthracene	26.992	278	646475	9.475	ng	99
92) Benzo(g,h,i)perylene	27.815	276	641478	7.886	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012323\
 Data File : BP013547.D
 Acq On : 23 Jan 2023 12:34
 Operator : CG/JU
 Sample : SSTDICC010
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_P

ClientSampleId :

SSTDICC010

Manual Integrations

APPROVED

Reviewed By : Christian Giraldo 01/24/2023
 Supervised By : Jagrut Upadhyay 01/24/2023

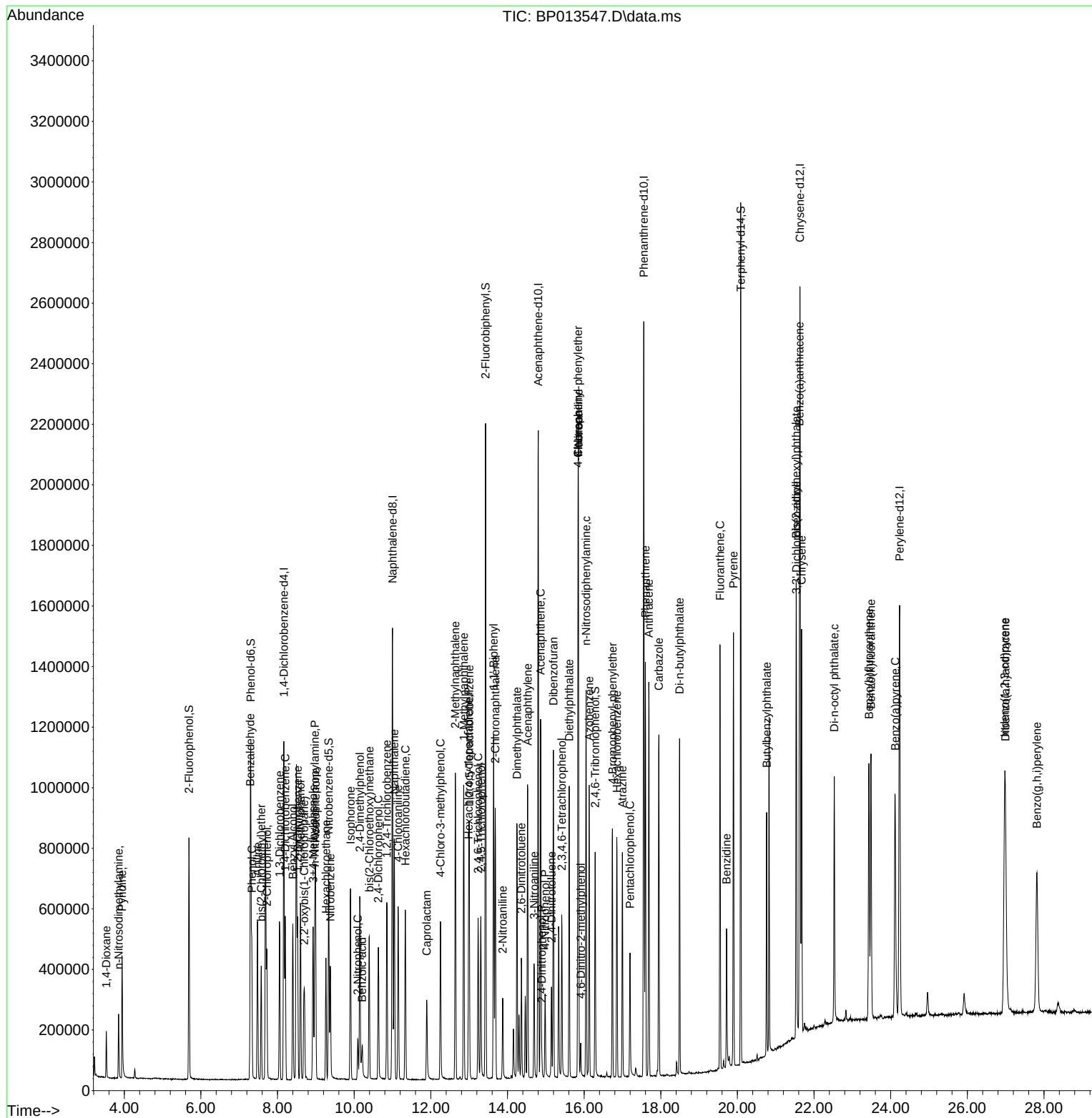
Quant Time: Jan 24 03:03:27 2023

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Jan 24 03:01:10 2023

Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012323\
 Data File : BP013548.D
 Acq On : 23 Jan 2023 13:08
 Operator : CG/JU
 Sample : SSTDICC020
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICC020

Quant Time: Jan 24 03:04:11 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 24 03:01:10 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.163	152	310495	20.000	ng	0.00
21) Naphthalene-d8	10.999	136	1289531	20.000	ng	0.00
39) Acenaphthene-d10	14.804	164	765762	20.000	ng	0.00
64) Phenanthrene-d10	17.557	188	1482437	20.000	ng	0.00
76) Chrysene-d12	21.633	240	1062938	20.000	ng	0.00
86) Perylene-d12	24.233	264	1109780	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.687	112	724581	39.983	ng	0.00
7) Phenol-d6	7.305	99	985886	40.422	ng	0.00
23) Nitrobenzene-d5	9.334	82	765516	39.190	ng	0.00
42) 2,4,6-Tribromophenol	16.287	330	304633	38.157	ng	0.00
45) 2-Fluorobiphenyl	13.428	172	2247954	40.295	ng	0.00
79) Terphenyl-d14	20.086	244	2559411	43.317	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.534	88	148191	20.285	ng	98
3) Pyridine	3.940	79	420982	19.470	ng	99
4) n-Nitrosodimethylamine	3.852	42	200479	20.445	ng	# 97
6) Aniline	7.475	93	667222	20.364	ng	100
8) 2-Chlorophenol	7.722	128	407224	20.364	ng	100
9) Benzaldehyde	7.293	77	315072	23.832	ng	99
10) Phenol	7.328	94	512008	20.262	ng	99
11) bis(2-Chloroethyl)ether	7.575	93	421835	20.416	ng	99
12) 1,3-Dichlorobenzene	8.052	146	451468	20.415	ng	100
13) 1,4-Dichlorobenzene	8.199	146	453715	20.234	ng	99
14) 1,2-Dichlorobenzene	8.522	146	442139	20.364	ng	100
15) Benzyl Alcohol	8.399	79	352412	20.224	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.699	45	586266	20.694	ng	99
17) 2-Methylphenol	8.599	107	375801	20.478	ng	99
18) Hexachloroethane	9.263	117	150520	20.083	ng	99
19) n-Nitroso-di-n-propyla...	8.975	70	336670	21.431	ng	99
20) 3+4-Methylphenols	8.928	107	488803	20.236	ng	98
22) Acetophenone	8.993	105	670438	20.266	ng	# 98
24) Nitrobenzene	9.381	77	417316	19.870	ng	97
25) Isophorone	9.905	82	937764	20.240	ng	99
26) 2-Nitrophenol	10.099	139	109894	16.780	ng	99
27) 2,4-Dimethylphenol	10.146	122	402570	19.711	ng	98
28) bis(2-Chloroethoxy)met...	10.393	93	563840	20.194	ng	99
29) 2,4-Dichlorophenol	10.634	162	363440	19.755	ng	99
30) 1,2,4-Trichlorobenzene	10.857	180	417340	19.878	ng	98
31) Naphthalene	11.046	128	1389473	20.042	ng	99
32) Benzoic acid	10.240	122	136659	15.309	ng	99
33) 4-Chloroaniline	11.152	127	613471	19.999	ng	99
34) Hexachlorobutadiene	11.334	225	243095	19.897	ng	99
35) Caprolactam	11.910	113	117254	19.731	ng	96
36) 4-Chloro-3-methylphenol	12.252	107	405762	20.252	ng	98
37) 2-Methylnaphthalene	12.640	142	991061	20.112	ng	100
38) 1-Methylnaphthalene	12.857	142	936860	20.233	ng	98
40) 1,2,4,5-Tetrachloroben...	13.004	216	462647	19.624	ng	100
41) Hexachlorocyclopentadiene	12.987	237	193321	17.419	ng	97
43) 2,4,6-Trichlorophenol	13.234	196	268823	19.483	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012323\
 Data File : BP013548.D
 Acq On : 23 Jan 2023 13:08
 Operator : CG/JU
 Sample : SSTDICC020
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICC020

Quant Time: Jan 24 03:04:11 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 24 03:01:10 2023
 Response via : Initial Calibration

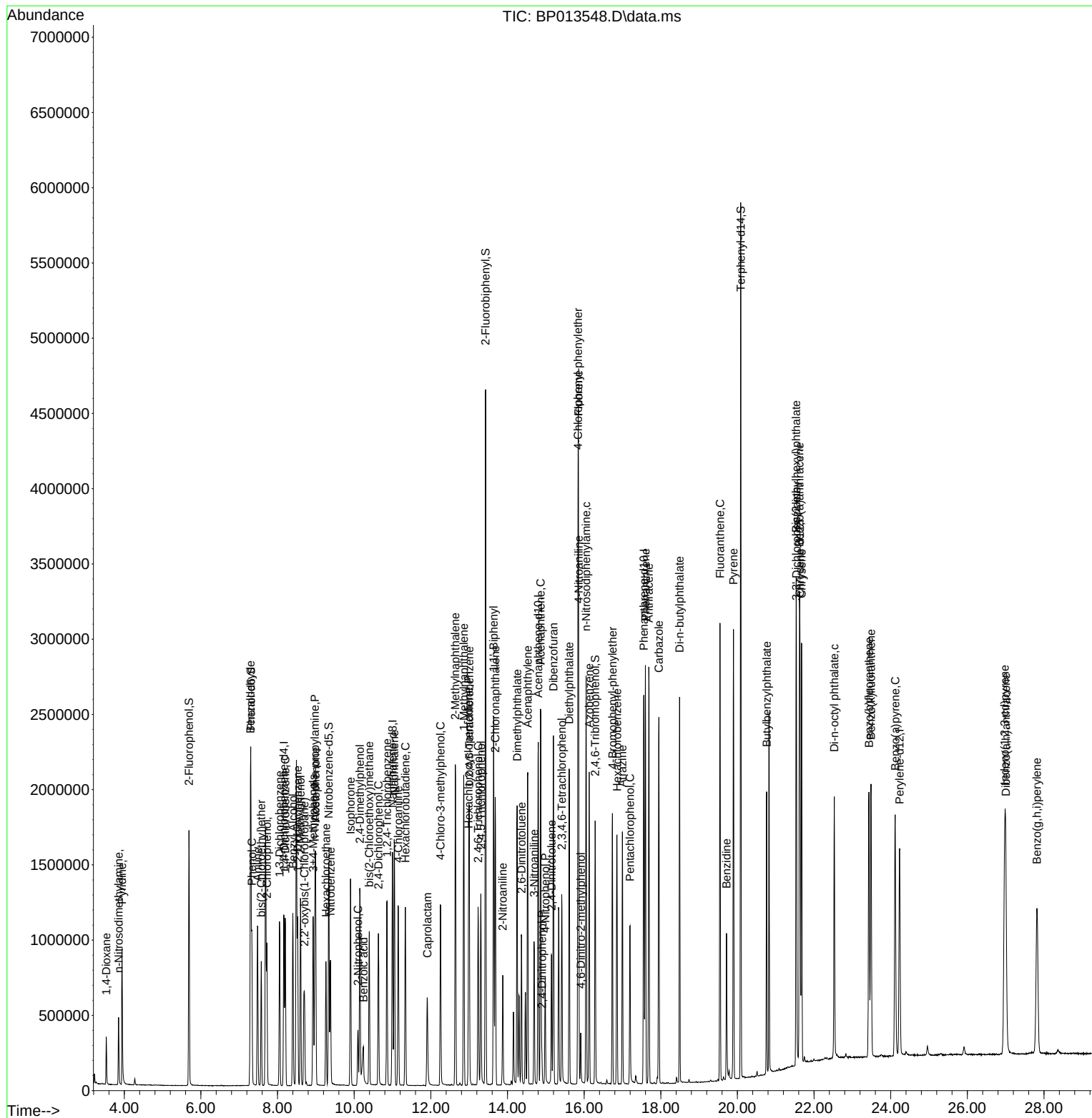
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.304	196	318128	19.511	ng	100
46) 1,1'-Biphenyl	13.640	154	1222446	19.877	ng	100
47) 2-Chloronaphthalene	13.681	162	919670	19.961	ng	100
48) 2-Nitroaniline	13.875	65	162900	17.671	ng	99
49) Acenaphthylene	14.528	152	1510172	20.043	ng	99
50) Dimethylphthalate	14.251	163	1138352	19.998	ng	100
51) 2,6-Dinitrotoluene	14.369	165	178646	19.437	ng	99
52) Acenaphthene	14.863	154	919035	19.746	ng	99
53) 3-Nitroaniline	14.693	138	198963	18.881	ng	# 95
54) 2,4-Dinitrophenol	14.898	184	38672	13.807	ng	97
55) Dibenzofuran	15.198	168	1426506	19.987	ng	100
56) 4-Nitrophenol	14.987	139	149577	17.401	ng	98
57) 2,4-Dinitrotoluene	15.151	165	201021	18.192	ng	99
58) Fluorene	15.851	166	1151233	20.294	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.416	232	243570	19.455	ng	100
60) Diethylphthalate	15.610	149	1117789	20.105	ng	99
61) 4-Chlorophenyl-phenyle...	15.840	204	560550	20.096	ng	99
62) 4-Nitroaniline	15.857	138	204332	19.005	ng	94
63) Azobenzene	16.134	77	1096745	20.301	ng	99
65) 4,6-Dinitro-2-methylph...	15.910	198	59559	13.902	ng	95
66) n-Nitrosodiphenylamine	16.051	169	983168	20.337	ng	98
67) 4-Bromophenyl-phenylether	16.740	248	325519	19.823	ng	99
68) Hexachlorobenzene	16.857	284	351590	19.822	ng	99
69) Atrazine	16.998	200	279574	20.212	ng	99
70) Pentachlorophenol	17.198	266	188500	18.247	ng	99
71) Phenanthrene	17.598	178	1646406	19.961	ng	100
72) Anthracene	17.687	178	1677461	20.038	ng	99
73) Carbazole	17.951	167	1483276	19.716	ng	99
74) Di-n-butylphthalate	18.492	149	1653769	19.751	ng	100
75) Fluoranthene	19.545	202	1680928	19.164	ng	100
77) Benzidine	19.716	184	534092	19.978	ng	99
78) Pyrene	19.898	202	1738516	21.390	ng	99
80) Butylbenzylphthalate	20.763	149	517872	19.310	ng	99
81) Benzo(a)anthracene	21.622	228	1475726	19.929	ng	99
82) 3,3'-Dichlorobenzidine	21.539	252	466122	19.536	ng	99
83) Chrysene	21.675	228	1427169	20.150	ng	100
84) Bis(2-ethylhexyl)phtha...	21.533	149	798437	19.279	ng	100
85) Di-n-octyl phthalate	22.527	149	1216262	18.216	ng	98
87) Indeno(1,2,3-cd)pyrene	26.974	276	1643812	20.109	ng	100
88) Benzo(b)fluoranthene	23.433	252	1330945	19.495	ng	100
89) Benzo(k)fluoranthene	23.486	252	1387146	19.921	ng	99
90) Benzo(a)pyrene	24.116	252	1306496	19.728	ng	99
91) Dibenzo(a,h)anthracene	27.004	278	1375881	20.067	ng	100
92) Benzo(g,h,i)perylene	27.815	276	1352598	16.547	ng	100

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012323\
Data File : BP013548.D
Acq On : 23 Jan 2023 13:08
Operator : CG/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Quant Time: Jan 24 03:04:11 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jan 24 03:01:10 2023
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012323\
 Data File : BP013549.D
 Acq On : 23 Jan 2023 13:42
 Operator : CG/JU
 Sample : SSTDICCC040
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICCC040

Quant Time: Jan 24 03:04:56 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 24 03:01:10 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.163	152	266953	20.000	ng	0.00
21) Naphthalene-d8	10.999	136	1040534	20.000	ng	0.00
39) Acenaphthene-d10	14.804	164	576242	20.000	ng	0.00
64) Phenanthrene-d10	17.557	188	1099756	20.000	ng	0.00
76) Chrysene-d12	21.639	240	969658	20.000	ng	0.00
86) Perylene-d12	24.227	264	1100448	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.687	112	1314005	84.335	ng	0.00
7) Phenol-d6	7.305	99	1736100	82.791	ng	0.00
23) Nitrobenzene-d5	9.340	82	1374858	87.228	ng	0.00
42) 2,4,6-Tribromophenol	16.292	330	491867	81.871	ng	0.00
45) 2-Fluorobiphenyl	13.428	172	3530648	84.103	ng	0.00
79) Terphenyl-d14	20.086	244	4311910	79.999	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.534	88	264139	42.053	ng	100
3) Pyridine	3.940	79	789787	42.484	ng	100
4) n-Nitrosodimethylamine	3.852	42	353275	41.904	ng	100
6) Aniline	7.481	93	1157358	41.085	ng	100
8) 2-Chlorophenol	7.722	128	712455	41.439	ng	100
9) Benzaldehyde	7.293	77	489132	43.033	ng	100
10) Phenol	7.334	94	896033	41.243	ng	100
11) bis(2-Chloroethyl)ether	7.575	93	725875	40.861	ng	100
12) 1,3-Dichlorobenzene	8.052	146	789544	41.527	ng	100
13) 1,4-Dichlorobenzene	8.199	146	798737	41.431	ng	100
14) 1,2-Dichlorobenzene	8.522	146	769058	41.198	ng	100
15) Benzyl Alcohol	8.399	79	608092	40.588	ng	100
16) 2,2'-oxybis(1-Chloropr...	8.693	45	980585	40.258	ng	100
17) 2-Methylphenol	8.599	107	644739	40.862	ng	100
18) Hexachloroethane	9.263	117	270270	41.942	ng	100
19) n-Nitroso-di-n-propyla...	8.975	70	546198	40.440	ng	100
20) 3+4-Methylphenols	8.928	107	844588	40.668	ng	100
22) Acetophenone	8.993	105	1106543	41.453	ng	100
24) Nitrobenzene	9.381	77	730602	43.111	ng	100
25) Isophorone	9.910	82	1494081	39.964	ng	100
26) 2-Nitrophenol	10.099	139	220148	41.660	ng	100
27) 2,4-Dimethylphenol	10.151	122	668830	40.584	ng	100
28) bis(2-Chloroethoxy)met...	10.393	93	914245	40.580	ng	100
29) 2,4-Dichlorophenol	10.634	162	620231	41.781	ng	100
30) 1,2,4-Trichlorobenzene	10.857	180	698648	41.240	ng	100
31) Naphthalene	11.051	128	2306056	41.224	ng	100
32) Benzoic acid	10.257	122	271843	37.740	ng	100
33) 4-Chloroaniline	11.151	127	1003416	40.538	ng	100
34) Hexachlorobutadiene	11.334	225	411619	41.752	ng	100
35) Caprolactam	11.916	113	188887	39.392	ng	100
36) 4-Chloro-3-methylphenol	12.251	107	653008	40.392	ng	100
37) 2-Methylnaphthalene	12.640	142	1606734	40.408	ng	100
38) 1-Methylnaphthalene	12.857	142	1492546	39.947	ng	100
40) 1,2,4,5-Tetrachloroben...	13.004	216	751266	42.347	ng	100
41) Hexachlorocyclopentadiene	12.987	237	347517	41.612	ng	100
43) 2,4,6-Trichlorophenol	13.234	196	438753	42.256	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012323\
 Data File : BP013549.D
 Acq On : 23 Jan 2023 13:42
 Operator : CG/JU
 Sample : SSTDICCC040
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICCC040

Quant Time: Jan 24 03:04:56 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 24 03:01:10 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.304	196	522474	42.583	ng	100
46) 1,1'-Biphenyl	13.640	154	1932828	41.765	ng	100
47) 2-Chloronaphthalene	13.687	162	1444139	41.653	ng	100
48) 2-Nitroaniline	13.875	65	303548	43.758	ng	100
49) Acenaphthylene	14.528	152	2349294	41.434	ng	100
50) Dimethylphthalate	14.251	163	1727890	40.338	ng	100
51) 2,6-Dinitrotoluene	14.369	165	304657	44.049	ng	100
52) Acenaphthene	14.869	154	1441675	41.162	ng	100
53) 3-Nitroaniline	14.698	138	347445	43.815	ng	100
54) 2,4-Dinitrophenol	14.898	184	74434	35.316	ng	100
55) Dibenzofuran	15.198	168	2191547	40.806	ng	100
56) 4-Nitrophenol	14.987	139	263829	40.786	ng	100
57) 2,4-Dinitrotoluene	15.151	165	360630	43.369	ng	100
58) Fluorene	15.851	166	1739565	40.752	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.416	232	388377	41.224	ng	100
60) Diethylphthalate	15.616	149	1670982	39.941	ng	100
61) 4-Chlorophenyl-phenyle...	15.839	204	848108	40.406	ng	100
62) 4-Nitroaniline	15.857	138	358025	44.253	ng	100
63) Azobenzene	16.134	77	1636697	40.260	ng	100
65) 4,6-Dinitro-2-methylph...	15.916	198	117049	36.827	ng	100
66) n-Nitrosodiphenylamine	16.051	169	1485470	41.419	ng	100
67) 4-Bromophenyl-phenylether	16.739	248	497757	40.860	ng	100
68) Hexachlorobenzene	16.857	284	534487	40.619	ng	100
69) Atrazine	16.998	200	437218	42.607	ng	100
70) Pentachlorophenol	17.198	266	314263	41.008	ng	100
71) Phenanthrene	17.598	178	2530902	41.362	ng	100
72) Anthracene	17.692	178	2598557	41.843	ng	100
73) Carbazole	17.951	167	2345474	42.026	ng	100
74) Di-n-butylphthalate	18.492	149	2608944	42.002	ng	100
75) Fluoranthene	19.545	202	2760809	42.428	ng	100
77) Benzidine	19.716	184	1024493	42.009	ng	100
78) Pyrene	19.898	202	2873475	38.756	ng	100
80) Butylbenzylphthalate	20.763	149	1021435	41.751	ng	100
81) Benzo(a)anthracene	21.621	228	2775984	41.094	ng	100
82) 3,3'-Dichlorobenzidine	21.545	252	934127	42.918	ng	100
83) Chrysene	21.674	228	2669312	41.314	ng	100
84) Bis(2-ethylhexyl)phtha...	21.533	149	1578132	41.772	ng	100
85) Di-n-octyl phthalate	22.527	149	2640501	43.351	ng	100
87) Indeno(1,2,3-cd)pyrene	26.986	276	3496727	43.139	ng	100
88) Benzo(b)fluoranthene	23.433	252	2791072	41.229	ng	100
89) Benzo(k)fluoranthene	23.492	252	2780108	40.264	ng	100
90) Benzo(a)pyrene	24.115	252	2728136	41.543	ng	100
91) Dibenzo(a,h)anthracene	27.004	278	2929191	43.083	ng	100
92) Benzo(g,h,i)perylene	27.827	276	2854720	35.219	ng	100

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

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

TIC: BP013549.D\data.ms

Abundance

Time-->

1.4-Dioxane
Nitrosodimethylamine

2-Fluorophenol, S

Benzaldehyde, S

Bis(2-chlorophenyl) ether

2,4-Dichlorobenzene, C

2,4,6-Trichlorobenzene

2,2'-oxybis(1-chlorobenzene), P

Nitrobenzene

Nitrobenzene-d5, S

Isophorone

2-Chlorophenol, C

bis(2-chloroethoxy)methane

2,4-Dichlorophenol, C

Naphthalene

4-Trichlorobenzene

Hexachlorobutadiene, C

Caprolactam

4-Chloro-3-methylphenol, C

2-Methylnaphthalene

2-Chloronaphthalene

1'-Biphenyl

2-Nitroaniline

2,6-Dinitrotoluene

Acenaphthylene

Acenaphthene, C

Dibenzo(furan)

2,3,4,6-Tetrachlorophenol

Diethylphthalate

4,6-Dinitro-2-methylphenol

2,4,6-Tribromophenol, S

4,4'-Bis(2-chlorophenyl)phenylether

Azobenzene

Pentachlorophenol, C

Phenanthrene, d10,1

Carbazole

Di-n-butylphthalate

Fluoranthene, C

Pyrene

Terphenyl, d14, S

Butylbenzylphthalate

Chrysene, d12,1

3,3'-Dichlorobenzidine

Bis(2-ethylhexyl)phthalate

Di-n-octyl phthalate, C

Benzo(a)pyrene

Benzo(a)pyrene, C

Perylene, d12,1

Benzo(a)pyrene, C

Benzo(g,h,i)perylene

Dibenz(a,h)anthracene, d12,12a,3,6,9,12a-tetraol

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012323\
 Data File : BP013550.D
 Acq On : 23 Jan 2023 14:17
 Operator : CG/JU
 Sample : SSTDICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICC050

Quant Time: Jan 24 03:05:41 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 24 03:01:10 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.163	152	307149	20.000	ng	0.00
21) Naphthalene-d8	10.999	136	1192343	20.000	ng	0.00
39) Acenaphthene-d10	14.804	164	666536	20.000	ng	0.00
64) Phenanthrene-d10	17.557	188	1253307	20.000	ng	0.00
76) Chrysene-d12	21.639	240	1022072	20.000	ng	0.00
86) Perylene-d12	24.233	264	1160027	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.687	112	1819154	101.477	ng	0.00
7) Phenol-d6	7.305	99	2442157	101.221	ng	0.00
23) Nitrobenzene-d5	9.340	82	2026427	112.198	ng	0.00
42) 2,4,6-Tribromophenol	16.292	330	754706	108.603	ng	0.00
45) 2-Fluorobiphenyl	13.434	172	5079236	104.601	ng	0.00
79) Terphenyl-d14	20.092	244	5754544	101.289	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.528	88	364378	50.420	ng	97
3) Pyridine	3.940	79	1094029	51.148	ng	99
4) n-Nitrosodimethylamine	3.852	42	486558	50.161	ng	100
6) Aniline	7.481	93	1628298	50.239	ng	99
8) 2-Chlorophenol	7.722	128	1007028	50.908	ng	99
9) Benzaldehyde	7.293	77	621585	47.529	ng	99
10) Phenol	7.334	94	1266910	50.682	ng	100
11) bis(2-Chloroethyl)ether	7.575	93	1019121	49.860	ng	98
12) 1,3-Dichlorobenzene	8.052	146	1089359	49.797	ng	99
13) 1,4-Dichlorobenzene	8.199	146	1101087	49.640	ng	99
14) 1,2-Dichlorobenzene	8.522	146	1063978	49.538	ng	99
15) Benzyl Alcohol	8.399	79	872703	50.627	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.699	45	1370980	48.920	ng	99
17) 2-Methylphenol	8.599	107	916548	50.487	ng	99
18) Hexachloroethane	9.263	117	380071	51.263	ng	100
19) n-Nitroso-di-n-propyla...	8.981	70	781018	50.258	ng	98
20) 3+4-Methylphenols	8.934	107	1218652	51.000	ng	98
22) Acetophenone	8.993	105	1561560	51.051	ng	# 99
24) Nitrobenzene	9.381	77	1062295	54.702	ng	99
25) Isophorone	9.910	82	2164290	50.520	ng	99
26) 2-Nitrophenol	10.099	139	364704	60.228	ng	98
27) 2,4-Dimethylphenol	10.152	122	964292	51.062	ng	100
28) bis(2-Chloroethoxy)met...	10.393	93	1319988	51.129	ng	100
29) 2,4-Dichlorophenol	10.634	162	904413	53.168	ng	99
30) 1,2,4-Trichlorobenzene	10.857	180	997891	51.405	ng	99
31) Naphthalene	11.052	128	3288111	51.295	ng	99
32) Benzoic acid	10.281	122	461601	55.925	ng	98
33) 4-Chloroaniline	11.152	127	1448908	51.084	ng	99
34) Hexachlorobutadiene	11.334	225	579624	51.308	ng	99
35) Caprolactam	11.928	113	280183	50.992	ng	98
36) 4-Chloro-3-methylphenol	12.257	107	969564	52.337	ng	98
37) 2-Methylnaphthalene	12.646	142	2317868	50.871	ng	99
38) 1-Methylnaphthalene	12.863	142	2170752	50.702	ng	98
40) 1,2,4,5-Tetrachloroben...	13.004	216	1087777	53.009	ng	100
41) Hexachlorocyclopentadiene	12.987	237	541403	56.046	ng	97
43) 2,4,6-Trichlorophenol	13.234	196	668351	55.649	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012323\
 Data File : BP013550.D
 Acq On : 23 Jan 2023 14:17
 Operator : CG/JU
 Sample : SSTDICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICC050

Quant Time: Jan 24 03:05:41 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 24 03:01:10 2023
 Response via : Initial Calibration

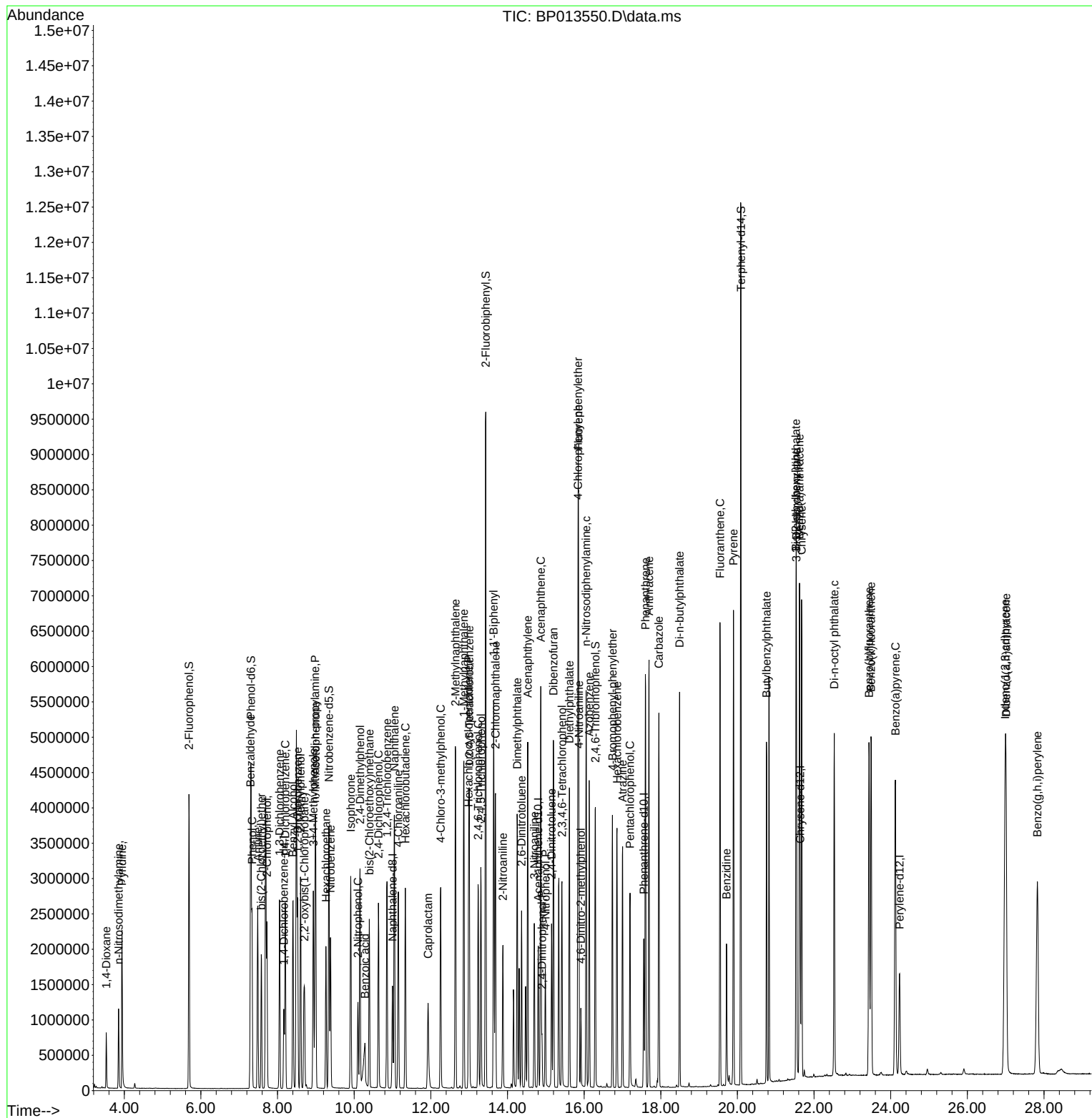
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.304	196	789102	55.602	ng	99
46) 1,1'-Biphenyl	13.640	154	2785653	52.039	ng	100
47) 2-Chloronaphthalene	13.687	162	2084939	51.989	ng	99
48) 2-Nitroaniline	13.881	65	491967	61.312	ng	96
49) Acenaphthylene	14.528	152	3401907	51.871	ng	99
50) Dimethylphthalate	14.251	163	2529035	51.043	ng	100
51) 2,6-Dinitrotoluene	14.369	165	477861	59.732	ng	98
52) Acenaphthene	14.869	154	2104645	51.951	ng	99
53) 3-Nitroaniline	14.698	138	537431	58.593	ng	97
54) 2,4-Dinitrophenol	14.898	184	130481	53.521	ng	96
55) Dibenzofuran	15.198	168	3183762	51.250	ng	100
56) 4-Nitrophenol	14.992	139	401431	53.652	ng	95
57) 2,4-Dinitrotoluene	15.151	165	584091	60.727	ng	95
58) Fluorene	15.851	166	2521774	51.073	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.422	232	580482	53.268	ng	99
60) Diethylphthalate	15.616	149	2430120	50.217	ng	100
61) 4-Chlorophenyl-phenyle...	15.839	204	1239146	51.039	ng	100
62) 4-Nitroaniline	15.863	138	537563	57.443	ng	99
63) Azobenzene	16.134	77	2361237	50.214	ng	98
65) 4,6-Dinitro-2-methylph...	15.916	198	204333	56.412	ng	96
66) n-Nitrosodiphenylamine	16.051	169	2148206	52.560	ng	99
67) 4-Bromophenyl-phenylether	16.739	248	728800	52.496	ng	99
68) Hexachlorobenzene	16.857	284	784574	52.320	ng	99
69) Atrazine	17.004	200	606877	51.895	ng	99
70) Pentachlorophenol	17.198	266	473242	54.187	ng	99
71) Phenanthrene	17.598	178	3587319	51.444	ng	100
72) Anthracene	17.692	178	3657338	51.676	ng	99
73) Carbazole	17.951	167	3263507	51.311	ng	100
74) Di-n-butylphthalate	18.492	149	3716073	52.496	ng	100
75) Fluoranthene	19.545	202	3780250	50.978	ng	100
77) Benzidine	19.716	184	1170897	45.550	ng	100
78) Pyrene	19.898	202	3933194	50.328	ng	100
80) Butylbenzylphthalate	20.757	149	1391457	53.959	ng	95
81) Benzo(a)anthracene	21.622	228	3654756	51.328	ng	99
82) 3,3'-Dichlorobenzidine	21.539	252	1243571	54.205	ng	99
83) Chrysene	21.674	228	3490763	51.257	ng	100
84) Bis(2-ethylhexyl)phtha...	21.527	149	2097331	52.668	ng	99
85) Di-n-octyl phthalate	22.527	149	3511834	54.700	ng	99
87) Indeno(1,2,3-cd)pyrene	26.986	276	4659916	54.537	ng	100
88) Benzo(b)fluoranthene	23.433	252	3674525	51.492	ng	99
89) Benzo(k)fluoranthene	23.486	252	3671979	50.449	ng	99
90) Benzo(a)pyrene	24.121	252	3601967	52.033	ng	99
91) Dibenzo(a,h)anthracene	27.009	278	3928886	54.819	ng	99
92) Benzo(g,h,i)perylene	27.827	276	3824151	44.756	ng	100

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012323\
 Data File : BP013550.D
 Acq On : 23 Jan 2023 14:17
 Operator : CG/JU
 Sample : SSTDICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICC050

Quant Time: Jan 24 03:05:41 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 24 03:01:10 2023
 Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012323\
 Data File : BP013551.D
 Acq On : 23 Jan 2023 14:51
 Operator : CG/JU
 Sample : SSTDICC060
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

BNA_P

ClientSampleId :

SSTDICC060

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 01/24/2023
 Supervised By :Jagrut Upadhyay 01/24/2023

Quant Time: Jan 24 03:06:28 2023

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Jan 24 03:01:10 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.163	152	318156	20.000	ng	0.00
21) Naphthalene-d8	10.998	136	1240381	20.000	ng	0.00
39) Acenaphthene-d10	14.804	164	709374	20.000	ng	0.00
64) Phenanthrene-d10	17.557	188	1320949	20.000	ng	0.00
76) Chrysene-d12	21.639	240	1063261	20.000	ng	0.00
86) Perylene-d12	24.233	264	1211615	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.687	112	2200298	118.492	ng	0.00
7) Phenol-d6	7.310	99	2975868	119.074	ng	0.00
23) Nitrobenzene-d5	9.340	82	2507562	133.460	ng	0.00
42) 2,4,6-Tribromophenol	16.292	330	964341	130.389	ng	0.00
45) 2-Fluorobiphenyl	13.434	172	6186997	119.720	ng	0.00
79) Terphenyl-d14	20.086	244	6972653	117.975	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.528	88	430243	57.474	ng	99
3) Pyridine	3.940	79	1322245	59.679	ng	98
4) n-Nitrosodimethylamine	3.852	42	579386	57.664	ng	100
6) Aniline	7.481	93	1984823	59.120	ng	99
8) 2-Chlorophenol	7.722	128	1226729	59.869	ng	100
10) Phenol	7.334	94	1541832	59.547	ng	99
11) bis(2-Chloroethyl)ether	7.581	93	1226647	57.937	ng	98
12) 1,3-Dichlorobenzene	8.052	146	1311095	57.860	ng	99
13) 1,4-Dichlorobenzene	8.204	146	1327000	57.755	ng	100
14) 1,2-Dichlorobenzene	8.522	146	1283786	57.704	ng	100
15) Benzyl Alcohol	8.404	79	1075212	60.216	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.699	45	1650440m	56.854	ng	
17) 2-Methylphenol	8.604	107	1118016	59.454	ng	99
18) Hexachloroethane	9.263	117	458002	59.637	ng	99
19) n-Nitroso-di-n-propyla...	8.981	70	952666	59.183	ng	98
20) 3+4-Methylphenols	8.934	107	1490176	60.205	ng	98
22) Acetophenone	8.999	105	1899511	59.695	ng	99
24) Nitrobenzene	9.381	77	1313431	65.015	ng	100
25) Isophorone	9.910	82	2665886	59.819	ng	99
26) 2-Nitrophenol	10.098	139	483593	76.769	ng	98
27) 2,4-Dimethylphenol	10.151	122	1185634	60.351	ng	98
28) bis(2-Chloroethoxy)met...	10.393	93	1613726	60.087	ng	99
29) 2,4-Dichlorophenol	10.634	162	1127899	63.738	ng	99
30) 1,2,4-Trichlorobenzene	10.857	180	1224930	60.656	ng	98
31) Naphthalene	11.051	128	3999959	59.984	ng	99
32) Benzoic acid	10.298	122	616636	71.815	ng	99
33) 4-Chloroaniline	11.151	127	1780014	60.327	ng	100
34) Hexachlorobutadiene	11.334	225	704528	59.950	ng	99
35) Caprolactam	11.940	113	359111	62.825	ng	98
36) 4-Chloro-3-methylphenol	12.257	107	1202874	62.417	ng	98
37) 2-Methylnaphthalene	12.645	142	2836128	59.835	ng	99
38) 1-Methylnaphthalene	12.857	142	2660484	59.734	ng	99
40) 1,2,4,5-Tetrachloroben...	13.004	216	1334117	61.087	ng	100
41) Hexachlorocyclopentadiene	12.987	237	690870	67.200	ng	97
43) 2,4,6-Trichlorophenol	13.234	196	842879	65.942	ng	98
44) 2,4,5-Trichlorophenol	13.310	196	994437	65.839	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012323\
 Data File : BP013551.D
 Acq On : 23 Jan 2023 14:51
 Operator : CG/JU
 Sample : SSTDICC060
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICC060

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 01/24/2023
 Supervised By : Jagrut Upadhyay 01/24/2023

Quant Time: Jan 24 03:06:28 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 24 03:01:10 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) 1,1'-Biphenyl	13.639	154	3434344	60.283	ng	100
47) 2-Chloronaphthalene	13.687	162	2572697	60.278	ng	99
48) 2-Nitroaniline	13.881	65	649601	76.069	ng	93
49) Acenaphthylene	14.528	152	4232084	60.633	ng	99
50) Dimethylphthalate	14.257	163	3142626	59.597	ng	100
51) 2,6-Dinitrotoluene	14.369	165	618585	72.653	ng	98
52) Acenaphthene	14.869	154	2614425	60.637	ng	99
53) 3-Nitroaniline	14.698	138	697428	71.445	ng	99
54) 2,4-Dinitrophenol	14.898	184	185227	71.389	ng	96
55) Dibenzofuran	15.198	168	3915779	59.227	ng	100
56) 4-Nitrophenol	14.992	139	529315	66.471	ng	94
57) 2,4-Dinitrotoluene	15.157	165	770950	75.314	ng	91
58) Fluorene	15.851	166	3099489	58.982	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.422	232	748406	64.530	ng	98
60) Diethylphthalate	15.616	149	3036068	58.950	ng	100
61) 4-Chlorophenyl-phenyle...	15.839	204	1538719	59.550	ng	98
62) 4-Nitroaniline	15.863	138	686801	68.959	ng	97
63) Azobenzene	16.133	77	2920790	58.363	ng	98
65) 4,6-Dinitro-2-methylph...	15.916	198	285415	74.763	ng	97
66) n-Nitrosodiphenylamine	16.051	169	2664154	61.846	ng	99
67) 4-Bromophenyl-phenylether	16.739	248	922261	63.030	ng	98
68) Hexachlorobenzene	16.857	284	981766	62.117	ng	98
69) Atrazine	17.004	200	757269	61.440	ng	99
70) Pentachlorophenol	17.198	266	604383	65.659	ng	99
71) Phenanthrene	17.598	178	4442913	60.451	ng	99
72) Anthracene	17.692	178	4559784	61.128	ng	99
73) Carbazole	17.951	167	4017899	59.937	ng	99
74) Di-n-butylphthalate	18.492	149	4617933	61.895	ng	100
75) Fluoranthene	19.545	202	4652184	59.523	ng	99
77) Benzidine	19.716	184	1517335	56.740	ng	99
78) Pyrene	19.898	202	4779286	58.786	ng	99
80) Butylbenzylphthalate	20.757	149	1759604	65.592	ng	97
81) Benzo(a)anthracene	21.621	228	4496360	60.701	ng	100
82) 3,3'-Dichlorobenzidine	21.539	252	1551613	65.012	ng	100
83) Chrysene	21.674	228	4267546	60.235	ng	100
84) Bis(2-ethylhexyl)phtha...	21.527	149	2615021	63.124	ng	99
85) Di-n-octyl phthalate	22.527	149	4401384	65.899	ng	98
87) Indeno(1,2,3-cd)pyrene	26.986	276	5756541	64.502	ng	100
88) Benzo(b)fluoranthene	23.433	252	4520462	60.649	ng	99
89) Benzo(k)fluoranthene	23.492	252	4519914	59.455	ng	100
90) Benzo(a)pyrene	24.121	252	4431131	61.285	ng	99
91) Dibenzo(a,h)anthracene	27.009	278	4850837	64.801	ng	99
92) Benzo(g,h,i)perylene	27.833	276	4701233	52.678	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012323\
 Data File : BP013551.D
 Acq On : 23 Jan 2023 14:51
 Operator : CG/JU
 Sample : SSTDICC060
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

BNA_P

ClientSampleId :

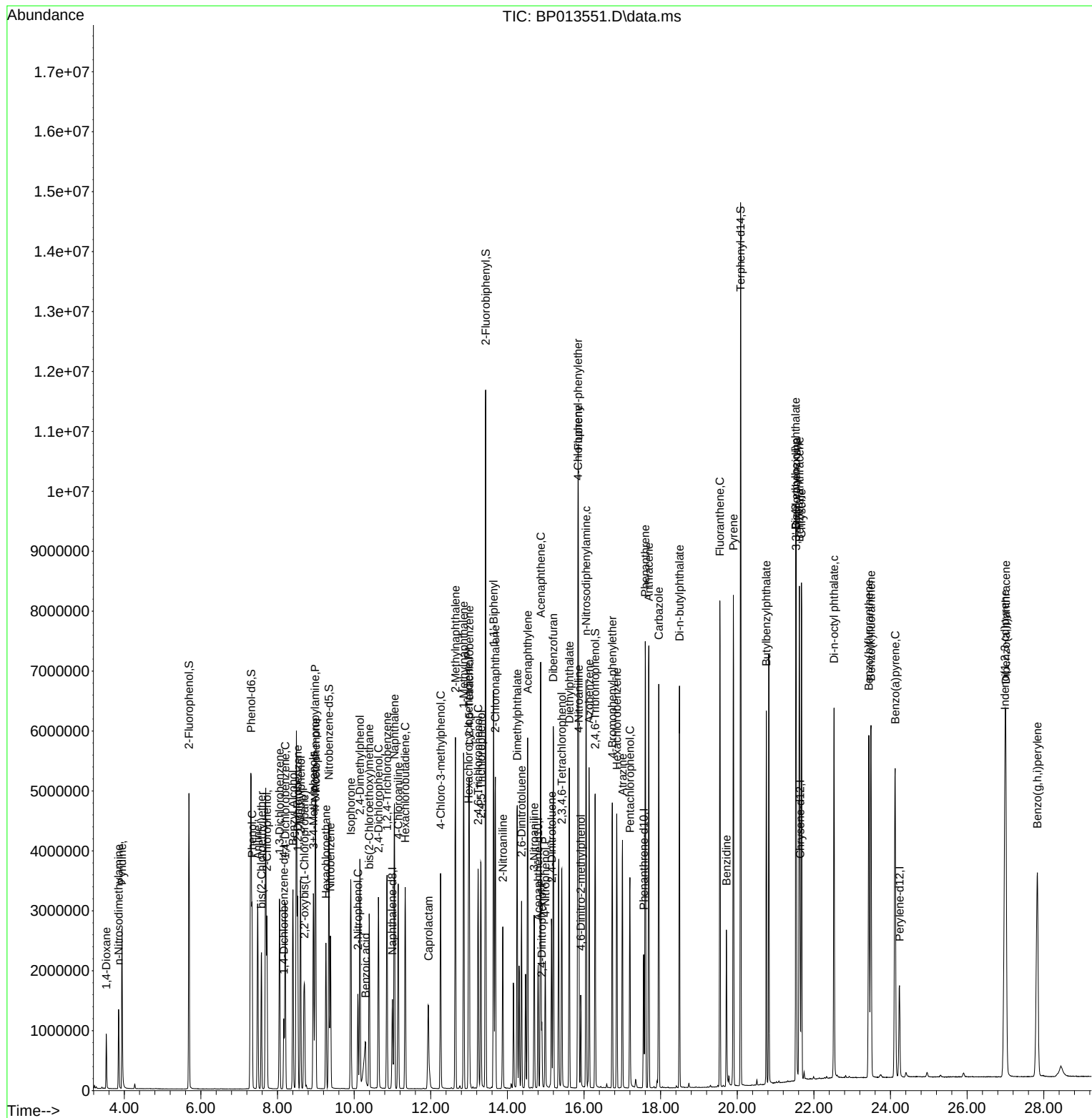
SSTDICC060

Manual Integrations

APPROVED

Reviewed By : Christian Giraldo 01/24/2023
 Supervised By : Jagrut Upadhyay 01/24/2023

Quant Time: Jan 24 03:06:28 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 24 03:01:10 2023
 Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012323\
 Data File : BP013552.D
 Acq On : 23 Jan 2023 16:01
 Operator : CG/JU
 Sample : SSTDICC080
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :

BNA_P

ClientSampleId :

SSTDICC080

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 01/24/2023
 Supervised By :Jagrut Upadhyay 01/24/2023

Quant Time: Jan 24 03:07:14 2023

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Jan 24 03:01:10 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.163	152	378884	20.000	ng	0.00
21) Naphthalene-d8	10.999	136	1507887	20.000	ng	0.00
39) Acenaphthene-d10	14.804	164	922906	20.000	ng	0.00
64) Phenanthrene-d10	17.557	188	1967034	20.000	ng	0.00
76) Chrysene-d12	21.639	240	1733912	20.000	ng	0.00
86) Perylene-d12	24.233	264	1592515	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.693	112	3304546	149.435	ng	0.00
7) Phenol-d6	7.310	99	4599459	154.541	ng	0.00
23) Nitrobenzene-d5	9.346	82	3994953	174.903	ng	0.00
42) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng	0.00
45) 2-Fluorobiphenyl	13.434	172	9610226	142.934	ng	0.00
79) Terphenyl-d14	20.086	244	13044289	135.339	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.528	88	631575	70.847	ng	98
3) Pyridine	3.940	79	2011144m	76.223	ng	
4) n-Nitrosodimethylamine	3.852	42	862196	72.057	ng	97
6) Aniline	7.487	93	3071625	76.827	ng	99
8) 2-Chlorophenol	7.728	128	1900793	77.897	ng	98
10) Phenol	7.340	94	2374543	77.008	ng	99
11) bis(2-Chloroethyl)ether	7.581	93	1898988	75.317	ng	98
12) 1,3-Dichlorobenzene	8.052	146	1997549	74.025	ng	99
13) 1,4-Dichlorobenzene	8.199	146	2020288	73.836	ng	99
14) 1,2-Dichlorobenzene	8.528	146	1944529	73.394	ng	99
15) Benzyl Alcohol	8.405	79	1687874	79.377	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.699	45	2536717	73.379	ng	99
17) 2-Methylphenol	8.604	107	1737172	77.573	ng	99
18) Hexachloroethane	9.263	117	707119	77.317	ng	100
19) n-Nitroso-di-n-propyla...	8.987	70	1482470	77.335	ng	96
20) 3+4-Methylphenols	8.940	107	2363326	80.178	ng	99
22) Acetophenone	8.999	105	2922551	75.551	ng	# 98
24) Nitrobenzene	9.387	77	2077916	84.610	ng	97
25) Isophorone	9.922	82	4294878	79.275	ng	99
27) 2,4-Dimethylphenol	10.151	122	1882941	78.842	ng	100
28) bis(2-Chloroethoxy)met...	10.399	93	2572170	78.783	ng	99
29) 2,4-Dichlorophenol	10.640	162	1836764	85.383	ng	99
30) 1,2,4-Trichlorobenzene	10.857	180	1927786	78.526	ng	99
31) Naphthalene	11.051	128	6242906	77.011	ng	99
32) Benzoic acid	10.334	122	1184849	113.511	ng	98
33) 4-Chloroaniline	11.151	127	2874116	80.127	ng	99
34) Hexachlorobutadiene	11.334	225	1112644	77.881	ng	99
35) Caprolactam	11.963	113	661353m	95.175	ng	
36) 4-Chloro-3-methylphenol	12.263	107	2014885	86.004	ng	97
37) 2-Methylnaphthalene	12.645	142	4556380	79.074	ng	98
38) 1-Methylnaphthalene	12.863	142	4267198	78.812	ng	99
40) 1,2,4,5-Tetrachloroben...	13.004	216	2177491	76.635	ng	100
41) Hexachlorocyclopentadiene	12.987	237	1171233	87.565	ng	97
43) 2,4,6-Trichlorophenol	13.240	196	1456511	87.585	ng	99
44) 2,4,5-Trichlorophenol	13.310	196	1717485	87.401	ng	98
46) 1,1'-Biphenyl	13.645	154	5547165	74.841	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012323\
 Data File : BP013552.D
 Acq On : 23 Jan 2023 16:01
 Operator : CG/JU
 Sample : SSTDICC080
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICC080

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 01/24/2023
 Supervised By : Jagrut Upadhyay 01/24/2023

Quant Time: Jan 24 03:07:14 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 24 03:01:10 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) 2-Chloronaphthalene	13.687	162	4195583	75.558	ng	99
48) 2-Nitroaniline	13.887	65	1225426	110.297	ng	89
49) Acenaphthylene	14.528	152	7023561	77.344	ng	98
50) Dimethylphthalate	14.263	163	5557745	81.012	ng	100
51) 2,6-Dinitrotoluene	14.375	165	1162764	104.970	ng	92
52) Acenaphthene	14.869	154	4446596	79.270	ng	100
53) 3-Nitroaniline	14.710	138	1352760	106.514	ng	# 92
55) Dibenzofuran	15.204	168	6633211	77.116	ng	99
58) Fluorene	15.851	166	5243932	76.702	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.422	232	1390673	92.166	ng	97
60) Diethylphthalate	15.622	149	5594855	83.499	ng	99
61) 4-Chlorophenyl-phenyle...	15.839	204	2637118	78.446	ng	97
63) Azobenzene	16.139	77	5068227	77.842	ng	95
65) 4,6-Dinitro-2-methylph...	15.928	198	704391	123.907	ng	89
66) n-Nitrosodiphenylamine	16.057	169	4755224	74.130	ng	99
67) 4-Bromophenyl-phenylether	16.739	248	1702428	78.133	ng	98
68) Hexachlorobenzene	16.857	284	1846450	78.454	ng	98
69) Atrazine	17.010	200	1483580	80.832	ng	98
70) Pentachlorophenol	17.198	266	1284864	93.737	ng	98
71) Phenanthrene	17.604	178	8283768	75.690	ng	99
72) Anthracene	17.692	178	8460641	76.168	ng	98
73) Carbazole	17.957	167	7886049	79.000	ng	99
74) Di-n-butylphthalate	18.492	149	9471020	85.247	ng	99
75) Fluoranthene	19.551	202	9632193	82.762	ng	100
77) Benzidine	19.716	184	3381682	77.546	ng	99
78) Pyrene	19.904	202	9836233	74.191	ng	99
81) Benzo(a)anthracene	21.621	228	9396042	77.785	ng	98
82) 3,3'-Dichlorobenzidine	21.545	252	3235052	83.120	ng	99
83) Chrysene	21.680	228	8843193	76.541	ng	98
84) Bis(2-ethylhexyl)phtha...	21.527	149	6110528	90.450	ng	99
85) Di-n-octyl phthalate	22.527	149	10207016	93.714	ng	96
87) Indeno(1,2,3-cd)pyrene	26.992	276	8432334	71.886	ng	100
88) Benzo(b)fluoranthene	23.439	252	8175152	83.448	ng	99
89) Benzo(k)fluoranthene	23.492	252	8371090	83.776	ng	98
90) Benzo(a)pyrene	24.121	252	7672732	80.737	ng	99
91) Dibenzo(a,h)anthracene	27.009	278	7123652	72.402	ng	99
92) Benzo(g,h,i)perylene	27.839	276	6728252	57.359	ng	99

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

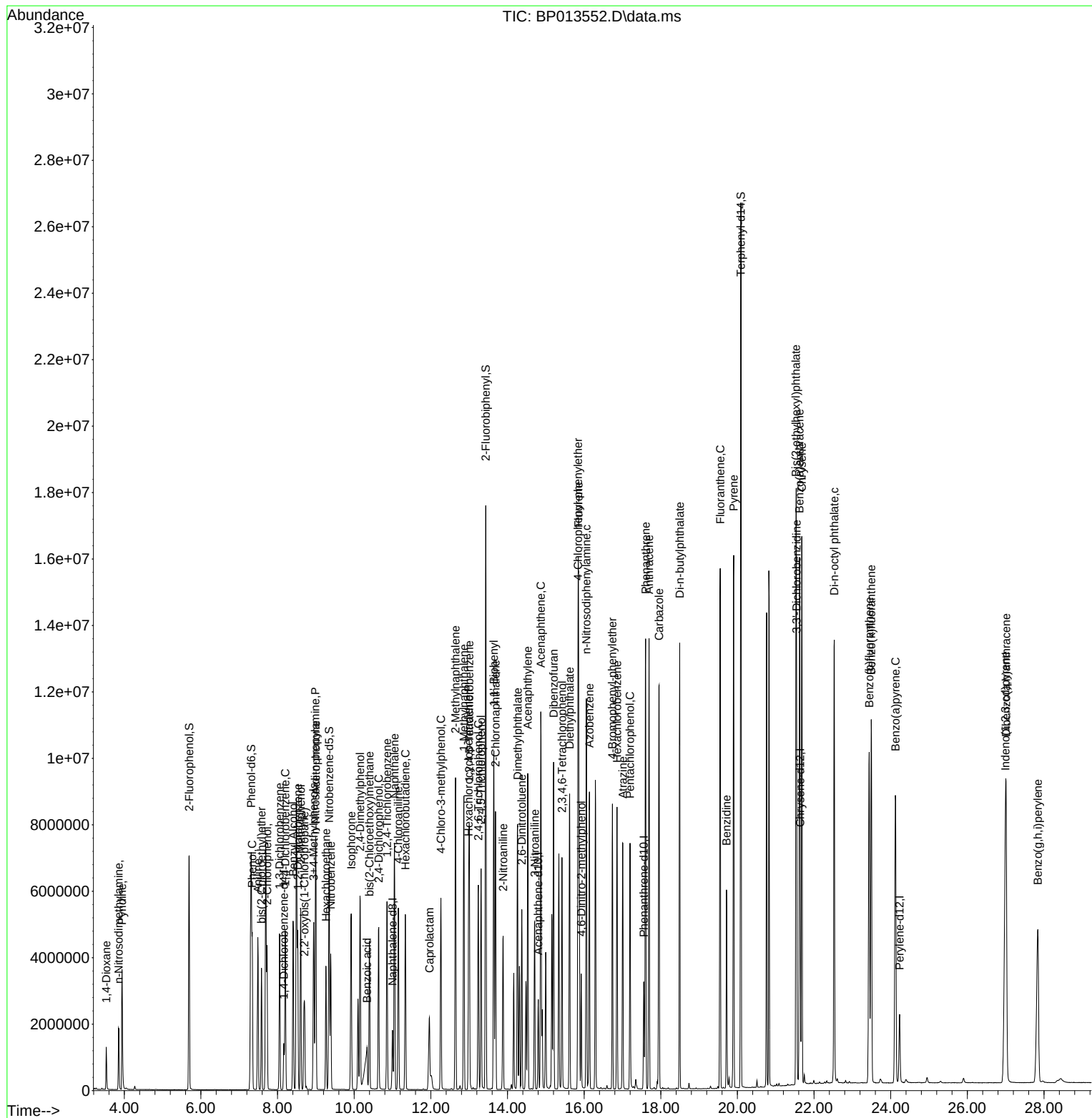
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012323\
Data File : BP013552.D
Acq On : 23 Jan 2023 16:01
Operator : CG/JU
Sample : SSTDICC080
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Christian Giraldo 01/24/2023
Supervised By :Jaqrut Upadhyay 01/24/2023

Quant Time: Jan 24 03:07:14 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jan 24 03:01:10 2023
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012323\
 Data File : BP013553.D
 Acq On : 23 Jan 2023 18:39
 Operator : CG/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 ICVP012323

Quant Time: Jan 24 04:46:06 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 24 04:44:15 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.169	152	307884	20.000	ng	0.00
21) Naphthalene-d8	10.998	136	1268184	20.000	ng	0.00
39) Acenaphthene-d10	14.804	164	742399	20.000	ng	0.00
64) Phenanthrene-d10	17.557	188	1433898	20.000	ng	0.00
76) Chrysene-d12	21.633	240	1015368	20.000	ng	0.00
86) Perylene-d12	24.227	264	1066225	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.693	112	1367397	76.095	ng	0.00
7) Phenol-d6	7.304	99	1863102	77.036	ng	0.00
23) Nitrobenzene-d5	9.340	82	1587028	82.614	ng	0.00
42) 2,4,6-Tribromophenol	16.292	330	606126	81.396	ng	0.00
45) 2-Fluorobiphenyl	13.433	172	3997051	73.903	ng	0.00
79) Terphenyl-d14	20.086	244	4371237	77.448	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.534	88	272995	37.685	ng	97
3) Pyridine	3.940	79	804534	37.411	ng	99
4) n-Nitrosodimethylamine	3.852	42	360645	37.091	ng	98
6) Aniline	7.481	93	1243239	38.267	ng	99
8) 2-Chlorophenol	7.722	128	778318	39.252	ng	100
9) Benzaldehyde	7.293	77	528971	34.538	ng	99
10) Phenol	7.334	94	961786	38.384	ng	99
11) bis(2-Chloroethyl)ether	7.581	93	775792	37.865	ng	100
12) 1,3-Dichlorobenzene	8.057	146	826890	37.709	ng	98
13) 1,4-Dichlorobenzene	8.204	146	839331	37.749	ng	99
14) 1,2-Dichlorobenzene	8.528	146	815583	37.882	ng	99
15) Benzyl Alcohol	8.404	79	670831	38.823	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.704	45	1071046	38.176	ng	98
17) 2-Methylphenol	8.604	107	697658	38.338	ng	99
18) Hexachloroethane	9.263	117	291834	39.268	ng	98
19) n-Nitroso-di-n-propyla...	8.981	70	603321	38.731	ng	99
20) 3+4-Methylphenols	8.934	107	938013	39.161	ng	98
22) Acetophenone	8.998	105	1204423	37.021	ng	# 100
24) Nitrobenzene	9.381	77	834008	40.379	ng	98
25) Isophorone	9.910	82	1671680	36.688	ng	99
26) 2-Nitrophenol	10.098	139	295785	42.146	ng	99
27) 2,4-Dimethylphenol	10.151	122	749604	38.110	ng	99
28) bis(2-Chloroethoxy)met...	10.392	93	1028419	37.453	ng	100
29) 2,4-Dichlorophenol	10.634	162	707699	39.116	ng	100
30) 1,2,4-Trichlorobenzene	10.857	180	765047	37.053	ng	99
31) Naphthalene	11.051	128	2546353	37.348	ng	99
32) Benzoic acid	10.269	122	344121	40.030	ng	96
33) 4-Chloroaniline	11.151	127	1121210	37.166	ng	99
34) Hexachlorobutadiene	11.334	225	449944	37.447	ng	99
35) Caprolactam	11.922	113	221138	37.701	ng	97
36) 4-Chloro-3-methylphenol	12.257	107	754003	38.267	ng	97
37) 2-Methylnaphthalene	12.645	142	1809077	37.330	ng	99
38) 1-Methylnaphthalene	12.863	142	1691617	37.148	ng	100
40) 1,2,4,5-Tetrachloroben...	13.004	216	854510	37.386	ng	100
41) Hexachlorocyclopentadiene	12.986	237	428491	37.871	ng	97
43) 2,4,6-Trichlorophenol	13.239	196	537312	40.167	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012323\
 Data File : BP013553.D
 Acq On : 23 Jan 2023 18:39
 Operator : CG/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 ICVBP012323

Quant Time: Jan 24 04:46:06 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 24 04:44:15 2023
 Response via : Initial Calibration

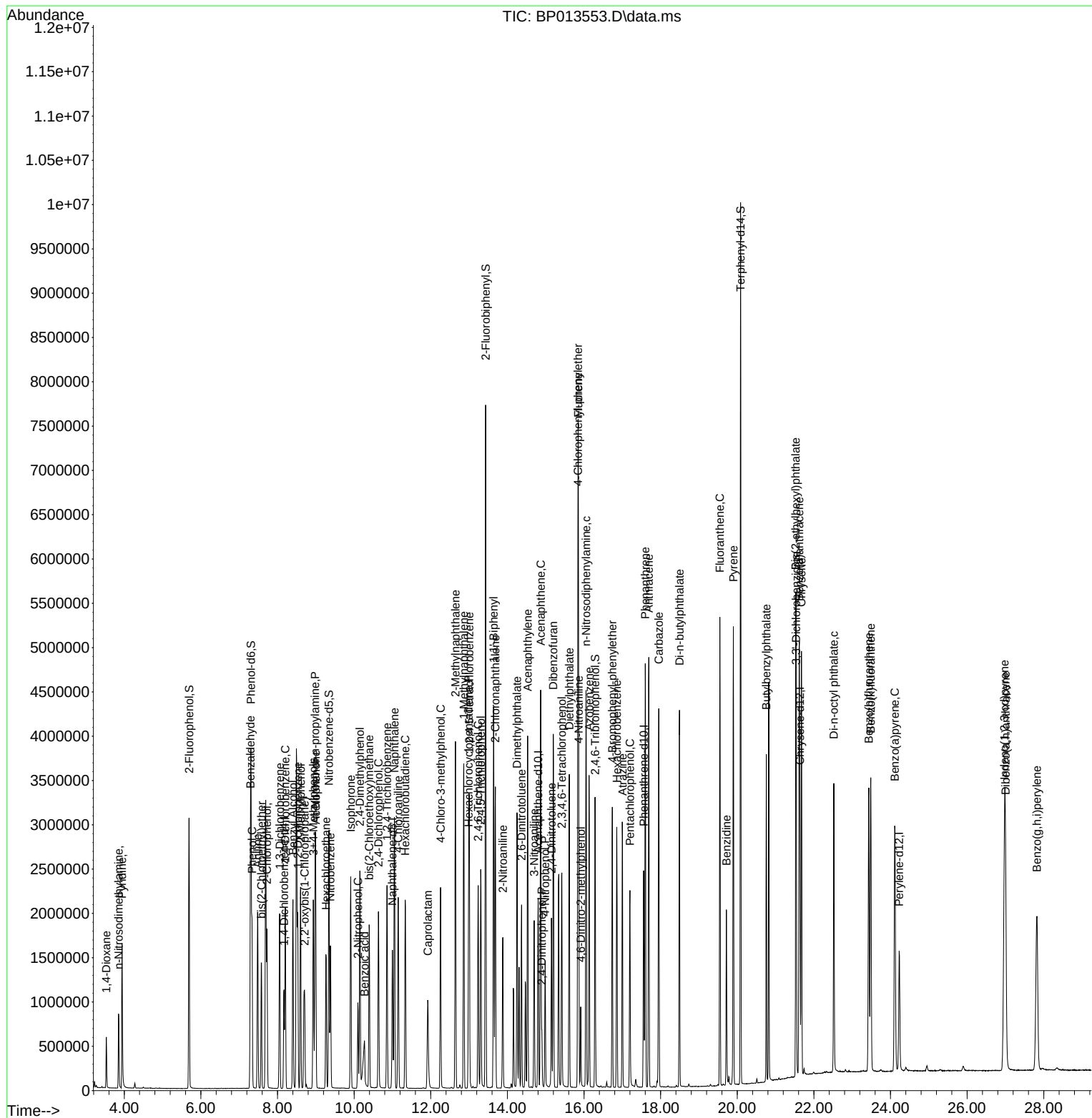
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.304	196	629795	39.842	ng	99
46) 1,1'-Biphenyl	13.639	154	2201142	36.918	ng	99
47) 2-Chloronaphthalene	13.686	162	1644062	36.807	ng	100
48) 2-Nitroaniline	13.880	65	413324	38.427	ng	95
49) Acenaphthylene	14.527	152	2712057	37.127	ng	99
50) Dimethylphthalate	14.251	163	2047265	37.097	ng	100
51) 2,6-Dinitrotoluene	14.369	165	403482	38.557	ng	96
52) Acenaphthene	14.869	154	1670309	37.017	ng	99
53) 3-Nitroaniline	14.698	138	445177	37.428	ng	96
54) 2,4-Dinitrophenol	14.898	184	111953	43.064	ng	95
55) Dibenzofuran	15.198	168	2546417	36.802	ng	100
56) 4-Nitrophenol	14.986	139	333310	38.535	ng	97
57) 2,4-Dinitrotoluene	15.151	165	492524	39.531	ng	96
58) Fluorene	15.851	166	1999752	36.362	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.422	232	477233	39.318	ng	99
60) Diethylphthalate	15.616	149	1976649	36.672	ng	100
61) 4-Chlorophenyl-phenyle...	15.839	204	987451	36.516	ng	100
62) 4-Nitroaniline	15.863	138	442006	38.280	ng	96
63) Azobenzene	16.133	77	1883157	35.955	ng	99
65) 4,6-Dinitro-2-methylph...	15.916	198	175879	42.678	ng	95
66) n-Nitrosodiphenylamine	16.051	169	1723086	36.849	ng	99
67) 4-Bromophenyl-phenylether	16.739	248	577260	36.344	ng	99
68) Hexachlorobenzene	16.857	284	624311	36.389	ng	99
69) Atrazine	17.004	200	508797	38.029	ng	98
70) Pentachlorophenol	17.198	266	381726	36.445	ng	98
71) Phenanthrene	17.598	178	2873356	36.016	ng	100
72) Anthracene	17.692	178	2909016	35.926	ng	100
73) Carbazole	17.951	167	2567345	35.281	ng	100
74) Di-n-butylphthalate	18.492	149	2910043	35.932	ng	100
75) Fluoranthene	19.545	202	2901574	34.200	ng	100
77) Benzidine	19.715	184	1022006	40.020	ng	99
78) Pyrene	19.898	202	2965108	38.191	ng	99
80) Butylbenzylphthalate	20.757	149	979852	39.639	ng	97
81) Benzo(a)anthracene	21.615	228	2572877	36.372	ng	100
82) 3,3'-Dichlorobenzidine	21.539	252	827540	36.309	ng	98
83) Chrysene	21.674	228	2467330	36.468	ng	100
84) Bis(2-ethylhexyl)phtha...	21.527	149	1415865	35.790	ng	100
85) Di-n-octyl phthalate	22.521	149	2216483	34.751	ng	99
87) Indeno(1,2,3-cd)pyrene	26.974	276	3030533	38.588	ng	100
88) Benzo(b)fluoranthene	23.433	252	2413730	36.800	ng	99
89) Benzo(k)fluoranthene	23.486	252	2511264	37.537	ng	99
90) Benzo(a)pyrene	24.109	252	2365278	37.174	ng	99
91) Dibenzo(a,h)anthracene	27.003	278	2559504	38.854	ng	100
92) Benzo(g,h,i)perylene	27.821	276	2491107	38.741	ng	100

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012323\
 Data File : BP013553.D
 Acq On : 23 Jan 2023 18:39
 Operator : CG/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 ICVBP012323

Quant Time: Jan 24 04:46:06 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 24 04:44:15 2023
 Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012323\
 Data File : BP013553.D
 Acq On : 23 Jan 2023 18:39
 Operator : CG/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 ICVBP012323

Quant Time: Jan 24 04:46:06 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 24 04:44:15 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	115	0.00
2	1,4-Dioxane	0.471	0.443	5.9	103	0.00
3	Pyridine	1.397	1.307	6.4	102	0.00
4	n-Nitrosodimethylamine	0.632	0.586	7.3	102	0.00
5 S	2-Fluorophenol	1.167	1.110	4.9	104	0.00
6	Aniline	2.110	2.019	4.3	107	0.00
7 S	Phenol-d6	1.571	1.513	3.7	107	0.00
8	2-Chlorophenol	1.288	1.264	1.9	109	0.00
9	Benzaldehyde	0.995	0.859	13.7	108	0.00
10 C	Phenol	1.628	1.562	4.1	107	0.00
11	bis(2-Chloroethyl)ether	1.331	1.260	5.3	107	0.00
12	1,3-Dichlorobenzene	1.424	1.343	5.7	105	0.00
13 C	1,4-Dichlorobenzene	1.444	1.363	5.6	105	0.00
14	1,2-Dichlorobenzene	1.399	1.324	5.4	106	0.00
15	Benzyl Alcohol	1.122	1.089	2.9	110	0.00
16	2,2'-oxybis(1-Chloropropane	1.822	1.739	4.6	109	0.01
17	2-Methylphenol	1.182	1.133	4.1	108	0.00
18	Hexachloroethane	0.483	0.474	1.9	108	0.00
19 P	n-Nitroso-di-n-propylamine	1.012	0.980	3.2	110	0.00
20	3+4-Methylphenols	1.556	1.523	2.1	111	0.00
21 I	Naphthalene-d8	1.000	1.000	0.0	122	0.00
22	Acetophenone	0.513	0.475	7.4	109	0.00
23 S	Nitrobenzene-d5	0.303	0.313	-3.3	115	0.00
24	Nitrobenzene	0.326	0.329	-0.9	114	0.00
25	Isophorone	0.719	0.659	8.3	112	0.00
26 C	2-Nitrophenol	0.094	0.117	-24.5#	134	0.00
27	2,4-Dimethylphenol	0.310	0.296	4.5	112	0.00
28	bis(2-Chloroethoxy)methane	0.433	0.405	6.5	112	0.00
29 C	2,4-Dichlorophenol	0.285	0.279	2.1	114	0.00
30	1,2,4-Trichlorobenzene	0.326	0.302	7.4	110	0.00
31	Naphthalene	1.075	1.004	6.6	110	0.00
32	Benzoic acid	0.138	0.136	1.4	127	0.01
33	4-Chloroaniline	0.476	0.442	7.1	112	0.00
34 C	Hexachlorobutadiene	0.189	0.177	6.3	109	0.00
35	Caprolactam	0.093	0.087	6.5	117	0.00
36 C	4-Chloro-3-methylphenol	0.311	0.297	4.5	115	0.00
37	2-Methylnaphthalene	0.764	0.713	6.7	113	0.00
38	1-Methylnaphthalene	0.718	0.667	7.1	113	0.00
39 I	Acenaphthene-d10	1.000	1.000	0.0	129	0.00
40	1,2,4,5-Tetrachlorobenzene	0.616	0.576	6.5	114	0.00
41 P	Hexachlorocyclopentadiene	0.290	0.289	0.3	123	0.00
42 S	2,4,6-Tribromophenol	0.201	0.204	-1.5	123	0.00
43 C	2,4,6-Trichlorophenol	0.360	0.362	-0.6	122	0.00
44	2,4,5-Trichlorophenol	0.426	0.424	0.5	121	0.00
45 S	2-Fluorobiphenyl	1.457	1.346	7.6	113	0.00
46	1,1'-Biphenyl	1.606	1.482	7.7	114	0.00
47	2-Chloronaphthalene	1.203	1.107	8.0	114	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012323\
 Data File : BP013553.D
 Acq On : 23 Jan 2023 18:39
 Operator : CG/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 ICVBP012323

Quant Time: Jan 24 04:46:06 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 24 04:44:15 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48	2-Nitroaniline	0.241	0.278	-15.4	136	0.00
49	Acenaphthylene	1.968	1.827	7.2	115	0.00
50	Dimethylphthalate	1.487	1.379	7.3	118	0.00
51	2,6-Dinitrotoluene	0.240	0.272	-13.3	132	0.00
52 C	Acenaphthene	1.216	1.125	7.5	116	0.00
53	3-Nitroaniline	0.275	0.300	-9.1	128	0.00
54 P	2,4-Dinitrophenol	0.058	0.075	-29.3#	150#	0.00
55	Dibenzofuran	1.864	1.715	8.0	116	0.00
56 P	4-Nitrophenol	0.212	0.224	-5.7	126	0.00
57	2,4-Dinitrotoluene	0.266	0.332	-24.8	137	0.00
58	Fluorene	1.482	1.347	9.1	115	0.00
59	2,3,4,6-Tetrachlorophenol	0.327	0.321	1.8	123	0.00
60	Diethylphthalate	1.452	1.331	8.3	118	0.00
61	4-Chlorophenyl-phenylether	0.729	0.665	8.8	116	0.00
62	4-Nitroaniline	0.265	0.298	-12.5	123	0.00
63	Azobenzene	1.411	1.268	10.1	115	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	130	0.00
65	4,6-Dinitro-2-methylphenol	0.058	0.061	-5.2	150#	0.00
66 c	n-Nitrosodiphenylamine	0.652	0.601	7.8	116	0.00
67	4-Bromophenyl-phenylether	0.222	0.201	9.5	116	0.00
68	Hexachlorobenzene	0.239	0.218	8.8	117	0.00
69	Atrazine	0.187	0.177	5.3	116	0.00
70 C	Pentachlorophenol	0.139	0.133	4.3	121	0.00
71	Phenanthrene	1.113	1.002	10.0	114	0.00
72	Anthracene	1.129	1.014	10.2	112	0.00
73	Carbazole	1.015	0.895	11.8	109	0.00
74	Di-n-butylphthalate	1.130	1.015	10.2	112	0.00
75 C	Fluoranthene	1.183	1.012	14.5	105	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	105	0.00
77	Benzidine	0.503	0.503	0.0	100	0.00
78	Pyrene	1.529	1.460	4.5	103	0.00
79 S	Terphenyl-d14	1.112	1.076	3.2	101	0.00
80	Butylbenzylphthalate	0.487	0.483	0.8	96	0.00
81	Benzo(a)anthracene	1.393	1.267	9.0	93	0.00
82	3,3'-Dichlorobenzidine	0.449	0.408	9.1	89	0.00
83	Chrysene	1.333	1.215	8.9	92	0.00
84	Bis(2-ethylhexyl)phthalate	0.779	0.697	10.5	90	0.00
85 c	Di-n-octyl phthalate	1.256	1.091	13.1	84	0.00
86 I	Perylene-d12	1.000	1.000	0.0	97	0.00
87	Indeno(1,2,3-cd)pyrene	1.473	1.421	3.5	87	-0.01
88	Benzo(b)fluoranthene	1.230	1.132	8.0	86	0.00
89	Benzo(k)fluoranthene	1.255	1.178	6.1	90	0.00
90 C	Benzo(a)pyrene	1.194	1.109	7.1	87	0.00
91	Dibenzo(a,h)anthracene	1.236	1.200	2.9	87	0.00
92	Benzo(g,h,i)perylene	1.206	1.168	3.2	87	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012323\
Data File : BP013553.D
Acq On : 23 Jan 2023 18:39
Operator : CG/JU
Sample : SSTDICV040
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP012323

Quant Time: Jan 24 04:46:06 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jan 24 04:44:15 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range

SPCC's out = 0 CCC's out = 1

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012323\
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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	115	0.00
2	1,4-Dioxane	40.000	37.685	5.8	103	0.00
3	Pyridine	40.000	37.411	6.5	102	0.00
4	n-Nitrosodimethylamine	40.000	37.091	7.3	102	0.00
5 S	2-Fluorophenol	80.000	76.095	4.9	104	0.00
6	Aniline	40.000	38.267	4.3	107	0.00
7 S	Phenol-d6	80.000	77.036	3.7	107	0.00
8	2-Chlorophenol	40.000	39.252	1.9	109	0.00
9	Benzaldehyde	40.000	34.538	13.7	108	0.00
10 C	Phenol	40.000	38.384	4.0	107	0.00
11	bis(2-Chloroethyl)ether	40.000	37.865	5.3	107	0.00
12	1,3-Dichlorobenzene	40.000	37.709	5.7	105	0.00
13 C	1,4-Dichlorobenzene	40.000	37.749	5.6	105	0.00
14	1,2-Dichlorobenzene	40.000	37.882	5.3	106	0.00
15	Benzyl Alcohol	40.000	38.823	2.9	110	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	38.176	4.6	109	0.01
17	2-Methylphenol	40.000	38.338	4.2	108	0.00
18	Hexachloroethane	40.000	39.268	1.8	108	0.00
19 P	n-Nitroso-di-n-propylamine	40.000	38.731	3.2	110	0.00
20	3+4-Methylphenols	40.000	39.161	2.1	111	0.00
21 I	Naphthalene-d8	20.000	20.000	0.0	122	0.00
22	Acetophenone	40.000	37.021	7.4	109	0.00
23 S	Nitrobenzene-d5	80.000	82.614	-3.3	115	0.00
24	Nitrobenzene	40.000	40.379	-0.9	114	0.00
25	Isophorone	40.000	36.688	8.3	112	0.00
26 C	2-Nitrophenol	40.000	42.146	-5.4	134	0.00
27	2,4-Dimethylphenol	40.000	38.110	4.7	112	0.00
28	bis(2-Chloroethoxy)methane	40.000	37.453	6.4	112	0.00
29 C	2,4-Dichlorophenol	40.000	39.116	2.2	114	0.00
30	1,2,4-Trichlorobenzene	40.000	37.053	7.4	110	0.00
31	Naphthalene	40.000	37.348	6.6	110	0.00
32	Benzoic acid	40.000	40.030	-0.1	127	0.01
33	4-Chloroaniline	40.000	37.166	7.1	112	0.00
34 C	Hexachlorobutadiene	40.000	37.447	6.4	109	0.00
35	Caprolactam	40.000	37.701	5.7	117	0.00
36 C	4-Chloro-3-methylphenol	40.000	38.267	4.3	115	0.00
37	2-Methylnaphthalene	40.000	37.330	6.7	113	0.00
38	1-Methylnaphthalene	40.000	37.148	7.1	113	0.00
39 I	Acenaphthene-d10	20.000	20.000	0.0	129	0.00
40	1,2,4,5-Tetrachlorobenzene	40.000	37.386	6.5	114	0.00
41 P	Hexachlorocyclopentadiene	40.000	37.871	5.3	123	0.00
42 S	2,4,6-Tribromophenol	80.000	81.396	-1.7	123	0.00
43 C	2,4,6-Trichlorophenol	40.000	40.167	-0.4	122	0.00
44	2,4,5-Trichlorophenol	40.000	39.842	0.4	121	0.00
45 S	2-Fluorobiphenyl	80.000	73.903	7.6	113	0.00
46	1,1'-Biphenyl	40.000	36.918	7.7	114	0.00
47	2-Chloronaphthalene	40.000	36.807	8.0	114	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012323\
 Data File : BP013553.D
 Acq On : 23 Jan 2023 18:39
 Operator : CG/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 ICVBP012323

Quant Time: Jan 24 04:46:06 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 24 04:44:15 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48	2-Nitroaniline	40.000	38.427	3.9	136	0.00
49	Acenaphthylene	40.000	37.127	7.2	115	0.00
50	Dimethylphthalate	40.000	37.097	7.3	118	0.00
51	2,6-Dinitrotoluene	40.000	38.557	3.6	132	0.00
52 C	Acenaphthene	40.000	37.017	7.5	116	0.00
53	3-Nitroaniline	40.000	37.428	6.4	128	0.00
54 P	2,4-Dinitrophenol	40.000	43.064	-7.7	150	0.00
55	Dibenzofuran	40.000	36.802	8.0	116	0.00
56 P	4-Nitrophenol	40.000	38.535	3.7	126	0.00
57	2,4-Dinitrotoluene	40.000	39.531	1.2	137	0.00
58	Fluorene	40.000	36.362	9.1	115	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	39.318	1.7	123	0.00
60	Diethylphthalate	40.000	36.672	8.3	118	0.00
61	4-Chlorophenyl-phenylether	40.000	36.516	8.7	116	0.00
62	4-Nitroaniline	40.000	38.280	4.3	123	0.00
63	Azobenzene	40.000	35.955	10.1	115	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	130	0.00
65	4,6-Dinitro-2-methylphenol	40.000	42.678	-6.7	150	0.00
66 c	n-Nitrosodiphenylamine	40.000	36.849	7.9	116	0.00
67	4-Bromophenyl-phenylether	40.000	36.344	9.1	116	0.00
68	Hexachlorobenzene	40.000	36.389	9.0	117	0.00
69	Atrazine	40.000	38.029	4.9	116	0.00
70 C	Pentachlorophenol	40.000	36.445	8.9	121	0.00
71	Phenanthrene	40.000	36.016	10.0	114	0.00
72	Anthracene	40.000	35.926	10.2	112	0.00
73	Carbazole	40.000	35.281	11.8	109	0.00
74	Di-n-butylphthalate	40.000	35.932	10.2	112	0.00
75 C	Fluoranthene	40.000	34.200	14.5	105	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	105	0.00
77	Benzidine	40.000	40.020	-0.1	100	0.00
78	Pyrene	40.000	38.191	4.5	103	0.00
79 S	Terphenyl-d14	80.000	77.448	3.2	101	0.00
80	Butylbenzylphthalate	40.000	39.639	0.9	96	0.00
81	Benzo(a)anthracene	40.000	36.372	9.1	93	0.00
82	3,3'-Dichlorobenzidine	40.000	36.309	9.2	89	0.00
83	Chrysene	40.000	36.468	8.8	92	0.00
84	Bis(2-ethylhexyl)phthalate	40.000	35.790	10.5	90	0.00
85 c	Di-n-octyl phthalate	40.000	34.751	13.1	84	0.00
86 I	Perylene-d12	20.000	20.000	0.0	97	0.00
87	Indeno(1,2,3-cd)pyrene	40.000	38.588	3.5	87	-0.01
88	Benzo(b)fluoranthene	40.000	36.800	8.0	86	0.00
89	Benzo(k)fluoranthene	40.000	37.537	6.2	90	0.00
90 C	Benzo(a)pyrene	40.000	37.174	7.1	87	0.00
91	Dibenzo(a,h)anthracene	40.000	38.854	2.9	87	0.00
92	Benzo(g,h,i)perylene	40.000	38.741	3.1	87	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012323\
Data File : BP013553.D
Acq On : 23 Jan 2023 18:39
Operator : CG/JU
Sample : SSTDICV040
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_P
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ICVBP012323

Quant Time: Jan 24 04:46:06 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jan 24 04:44:15 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: loui01

Lab Code: CHEM Case No.: O1233 SAS No.: O1233 SDG No.: O1233

Instrument ID: BNA_P Calibration Date(s): 01/31/2023 01/31/2023

Calibration Time(s): 11:21 15:56

LAB FILE ID:		RRF2.5 = BP013669.D		RRF005 = BP013670.D		RRF010 = BP013671.D		
		RRF020 = BP013672.D		RRF040 = BP013673.D		RRF050 = BP013674.D		
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.265	1.187	1.186	1.213	1.160	1.170	5.7
Benzaldehyde		1.148	1.020	0.949	0.840	0.747	0.895	19.9
Phenol-d6		1.648	1.553	1.571	1.610	1.589	1.559	4.4
Phenol		1.684	1.624	1.644	1.685	1.679	1.628	3.9
bis(2-Chloroethyl)ether		1.389	1.317	1.310	1.328	1.316	1.301	4.6
2-Chlorophenol		1.283	1.244	1.252	1.271	1.250	1.232	4.2
2-Methylphenol		1.152	1.112	1.159	1.188	1.203	1.141	4.2
2,2-oxybis(1-Chloropropane)		1.631	1.535	1.545	1.557	1.547	1.519	5.4
Acetophenone		0.530	0.508	0.529	0.531	0.540	0.522	3.1
3+4-Methylphenols		1.528	1.513	1.576	1.621	1.660	1.557	4.1
n-Nitroso-di-n-propylamine	0.859	0.984	0.973	1.003	1.033	1.073	0.978	6.5
Nitrobenzene-d5		0.290	0.302	0.339	0.360	0.383	0.344	10.4
Hexachloroethane		0.485	0.461	0.460	0.467	0.471	0.463	3.0
Nitrobenzene		0.331	0.337	0.372	0.387	0.409	0.373	7.9
Isophorone		0.746	0.730	0.764	0.778	0.814	0.762	3.8
2-Nitrophenol		0.121	0.129	0.147	0.163	0.180	0.156	15.3
2,4-Dimethylphenol		0.296	0.296	0.308	0.317	0.324	0.308	3.5
bis(2-Chloroethoxy)methane		0.465	0.450	0.461	0.456	0.477	0.457	3.1
2,4-Dichlorophenol		0.318	0.319	0.334	0.341	0.356	0.335	4.3
Naphthalene		1.097	1.040	1.066	1.060	1.077	1.052	3.3
4-Chloroaniline		0.450	0.445	0.464	0.472	0.492	0.462	3.6
Hexachlorobutadiene		0.242	0.232	0.234	0.233	0.240	0.236	2.2
Caprolactam		0.103	0.099	0.107	0.112	0.123	0.110	7.1
4-Chloro-3-methylphenol		0.328	0.324	0.352	0.358	0.387	0.352	6.0
2-Methylnaphthalene		0.808	0.762	0.801	0.792	0.824	0.791	3.0
Hexachlorocyclopentadiene			0.240	0.274	0.311	0.335	0.312	14.9
2,4,6-Trichlorophenol		0.409	0.410	0.450	0.466	0.478	0.450	6.4
2-Fluorobiphenyl		1.473	1.429	1.477	1.458	1.438	1.429	3.9
2,4,5-Trichlorophenol		0.480	0.476	0.527	0.543	0.562	0.526	6.6
1,1-Biphenyl		1.545	1.486	1.551	1.539	1.535	1.513	2.9
2-Chloronaphthalene		1.181	1.143	1.198	1.191	1.188	1.170	2.6
2-Nitroaniline		0.164	0.179	0.227	0.267	0.303	0.250	24.2
Dimethylphthalate		1.558	1.482	1.571	1.570	1.609	1.547	2.9
Acenaphthylene		1.892	1.815	1.924	1.922	1.938	1.887	2.7
2,6-Dinitrotoluene		0.167	0.208	0.274	0.306	0.332	0.276	23.5
3-Nitroaniline		0.204	0.247	0.297	0.327	0.352	0.302	18.6

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: loui01

Lab Code: CHEM Case No.: O1233 SAS No.: O1233 SDG No.: O1233

Instrument ID: BNA_P Calibration Date(s): 01/31/2023 01/31/2023

Calibration Time(s): 11:21 15:56

LAB FILE ID:		RRF2.5 = BP013669.D		RRF005 = BP013670.D		RRF010 = BP013671.D		
		RRF020 = BP013672.D		RRF040 = BP013673.D		RRF050 = BP013674.D		
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Acenaphthene		1.225	1.184	1.210	1.225	1.246	1.215	2.0
2,4-Dinitrophenol			0.102	0.131	0.169	0.201	0.168	25.9
4-Nitrophenol			0.211	0.249	0.276	0.300	0.268	12.2
Dibenzofuran		1.959	1.911	1.935	1.903	1.926	1.901	2.9
2,4-Dinitrotoluene		0.214	0.262	0.342	0.400	0.446	0.363	25.8
Diethylphthalate		1.499	1.450	1.496	1.494	1.544	1.483	2.6
4-Chlorophenyl-phenylether		0.844	0.807	0.812	0.813	0.831	0.813	2.7
Fluorene		1.549	1.492	1.547	1.505	1.506	1.492	3.8
4-Nitroaniline		0.195	0.236	0.298	0.329	0.352	0.299	20.5
4,6-Dinitro-2-methylphenol			0.069	0.088	0.107	0.120	0.104	20.9
n-Nitrosodiphenylamine		0.597	0.602	0.591	0.584	0.581	0.582	3.4
2,4,6-Tribromophenol		0.273	0.279	0.295	0.306	0.323	0.300	6.2
4-Bromophenyl-phenylether		0.224	0.221	0.230	0.230	0.238	0.229	2.5
Hexachlorobenzene		0.259	0.247	0.252	0.251	0.259	0.254	1.9
Atrazine		0.184	0.188	0.195	0.201	0.194	0.189	4.1
Pentachlorophenol		0.162	0.168	0.185	0.195	0.203	0.187	8.9
Phenanthrene		1.125	1.080	1.097	1.075	1.071	1.072	3.6
Anthracene		1.102	1.080	1.101	1.101	1.095	1.082	2.8
Carbazole		0.990	1.002	1.006	0.999	0.994	0.983	3.2
Di-n-butylphthalate		1.044	1.055	1.085	1.097	1.117	1.075	2.7
Fluoranthene		1.358	1.328	1.355	1.346	1.356	1.335	2.5
Pyrene		1.361	1.313	1.355	1.378	1.373	1.346	2.5
Terphenyl-d14		1.050	1.020	1.043	1.034	1.021	1.007	5.5
Butylbenzylphthalate		0.321	0.321	0.347	0.378	0.403	0.367	10.1
3,3-Dichlorobenzidine		0.398	0.405	0.447	0.463	0.465	0.439	6.1
Benzo (a) anthracene		1.414	1.353	1.399	1.417	1.421	1.389	2.6
Chrysene		1.370	1.311	1.336	1.342	1.334	1.324	2.9
Bis (2-ethylhexyl) phthalate		0.584	0.576	0.608	0.643	0.666	0.625	5.7
Di-n-octyl phthalate		1.069	1.047	1.108	1.173	1.220	1.142	5.9
Benzo (b) fluoranthene		1.187	1.140	1.231	1.201	1.262	1.202	3.5
Benzo (k) fluoranthene		1.243	1.138	1.216	1.248	1.208	1.204	3.2
Benzo (a) pyrene		1.194	1.153	1.199	1.207	1.223	1.193	2.1
Indeno (1,2,3-cd) pyrene		1.562	1.482	1.517	1.530	1.549	1.521	2.1
Dibenzo (a,h) anthracene		1.290	1.236	1.263	1.274	1.288	1.263	2.2
Benzo (g,h,i) perylene		1.297	1.221	1.249	1.258	1.274	1.254	2.2
1,2,4,5-Tetrachlorobenzene		0.659	0.652	0.685	0.695	0.702	0.683	3.0

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: loui01

Lab Code: CHEM Case No.: O1233 SAS No.: O1233 SDG No.: O1233

Instrument ID: BNA_P Calibration Date(s): 01/31/2023 01/31/2023

Calibration Time(s): 11:21 15:56

LAB FILE ID:		RRF2.5 = BP013669.D			RRF005 = BP013670.D		RRF010 = BP013671.D	
		RRF020 = BP013672.D			RRF040 = BP013673.D		RRF050 = BP013674.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
1,4-Dioxane		0.540	0.526	0.508	0.501	0.486	0.495	7.3
2,3,4,6-Tetrachlorophenol		0.430	0.428	0.453	0.466	0.489	0.458	4.9

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
 Method File : 8270E-BP013123.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Feb 01 03:43:48 2023
 Response Via : Initial Calibration

Calibration Files

2.5 =BP013669.D 5 =BP013670.D 10 =BP013671.D 20 =BP013672.D 40 =BP013673.D 50 =BP013674.D 60 =BP013675.D 80 =BP013676.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.540	0.526	0.508	0.501	0.486	0.470	0.433	0.495	7.29	
3)	Pyridine	1.486	1.425	1.438	1.500	1.456	1.353	1.317	1.425	4.73	
4)	n-Nitrosodimet...	0.524	0.509	0.519	0.526	0.518	0.497	0.485	0.511	3.02	
5) S	2-Fluorophenol	1.265	1.187	1.186	1.213	1.160	1.117	1.060	1.170	5.68	
6)	Aniline	2.056	2.015	2.068	2.094	2.105	1.949	1.937	2.032	3.32	
7) S	Phenol-d6	1.648	1.553	1.571	1.610	1.589	1.488	1.452	1.559	4.39	
8)	2-Chlorophenol	1.283	1.244	1.252	1.271	1.250	1.181	1.141	1.232	4.17	
9)	Benzaldehyde	1.148	1.020	0.949	0.840	0.747	0.668		0.895	19.92	
10) C	Phenol	1.684	1.624	1.644	1.685	1.679	1.554	1.528	1.628	3.94	
11)	bis(2-Chloroet...	1.389	1.317	1.310	1.328	1.316	1.236	1.210	1.301	4.60	
12)	1,3-Dichlorobe...	1.501	1.431	1.411	1.420	1.373	1.314	1.263	1.387	5.70	
13) C	1,4-Dichlorobe...	1.503	1.432	1.439	1.437	1.399	1.338	1.279	1.404	5.28	
14)	1,2-Dichlorobe...	1.461	1.362	1.370	1.383	1.353	1.270	1.205	1.343	6.16	
15)	Benzyl Alcohol	1.054	1.042	1.087	1.151	1.194	1.101	1.097	1.104	4.82	
16)	2,2'-oxybis(1-...	1.631	1.535	1.545	1.557	1.547	1.428	1.390	1.519	5.41	
17)	2-Methylphenol	1.152	1.112	1.159	1.188	1.203	1.098	1.075	1.141	4.18	
18)	Hexachloroethane	0.485	0.461	0.460	0.467	0.471	0.458	0.439	0.463	3.02	
19) P	n-Nitroso-di-n...	0.859	0.984	0.973	1.003	1.033	1.073	0.957	0.942	0.978	6.54
20)	3+4-Methylphenols		1.528	1.513	1.576	1.621	1.660	1.502	1.496	1.557	4.11
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.530	0.508	0.529	0.531	0.540	0.522	0.492	0.522	3.13	
23) S	Nitrobenzene-d5	0.290	0.302	0.339	0.360	0.383	0.377	0.357	0.344	10.38	
24)	Nitrobenzene	0.331	0.337	0.372	0.387	0.409	0.400	0.374	0.373	7.94	
25)	Isophorone	0.746	0.730	0.764	0.778	0.814	0.767	0.736	0.762	3.78	
26) C	2-Nitrophenol	0.121	0.129	0.147	0.163	0.180	0.176	0.176	0.156	15.31	
27)	2,4-Dimethylph...	0.296	0.296	0.308	0.317	0.324	0.311	0.300	0.308	3.47	
28)	bis(2-Chloroet...	0.465	0.450	0.461	0.456	0.477	0.457	0.431	0.457	3.11	
29) C	2,4-Dichloroph...	0.318	0.319	0.334	0.341	0.356	0.347	0.328	0.335	4.28	
30)	1,2,4-Trichlor...	0.382	0.367	0.373	0.372	0.380	0.374	0.353	0.371	2.56	
31)	Naphthalene	1.097	1.040	1.066	1.060	1.077	1.033	0.989	1.052	3.33	
32)	Benzoic acid		0.170	0.207	0.232	0.260	0.250	0.253	0.229	15.14	
33)	4-Chloroaniline	0.450	0.445	0.464	0.472	0.492	0.464	0.447	0.462	3.59	
34) C	Hexachlorobuta...	0.242	0.232	0.234	0.233	0.240	0.241	0.228	0.236	2.17	
35)	Caprolactam	0.103	0.099	0.107	0.112	0.123	0.113	0.113	0.110	7.07	
36) C	4-Chloro-3-met...	0.328	0.324	0.352	0.358	0.387	0.361	0.355	0.352	5.97	
37)	2-Methylnaphth...	0.808	0.762	0.801	0.792	0.824	0.788	0.759	0.791	2.98	
38)	1-Methylnaphth...	0.757	0.723	0.753	0.743	0.775	0.738	0.710	0.743	2.94	

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
 Method File : 8270E-BP013123.M

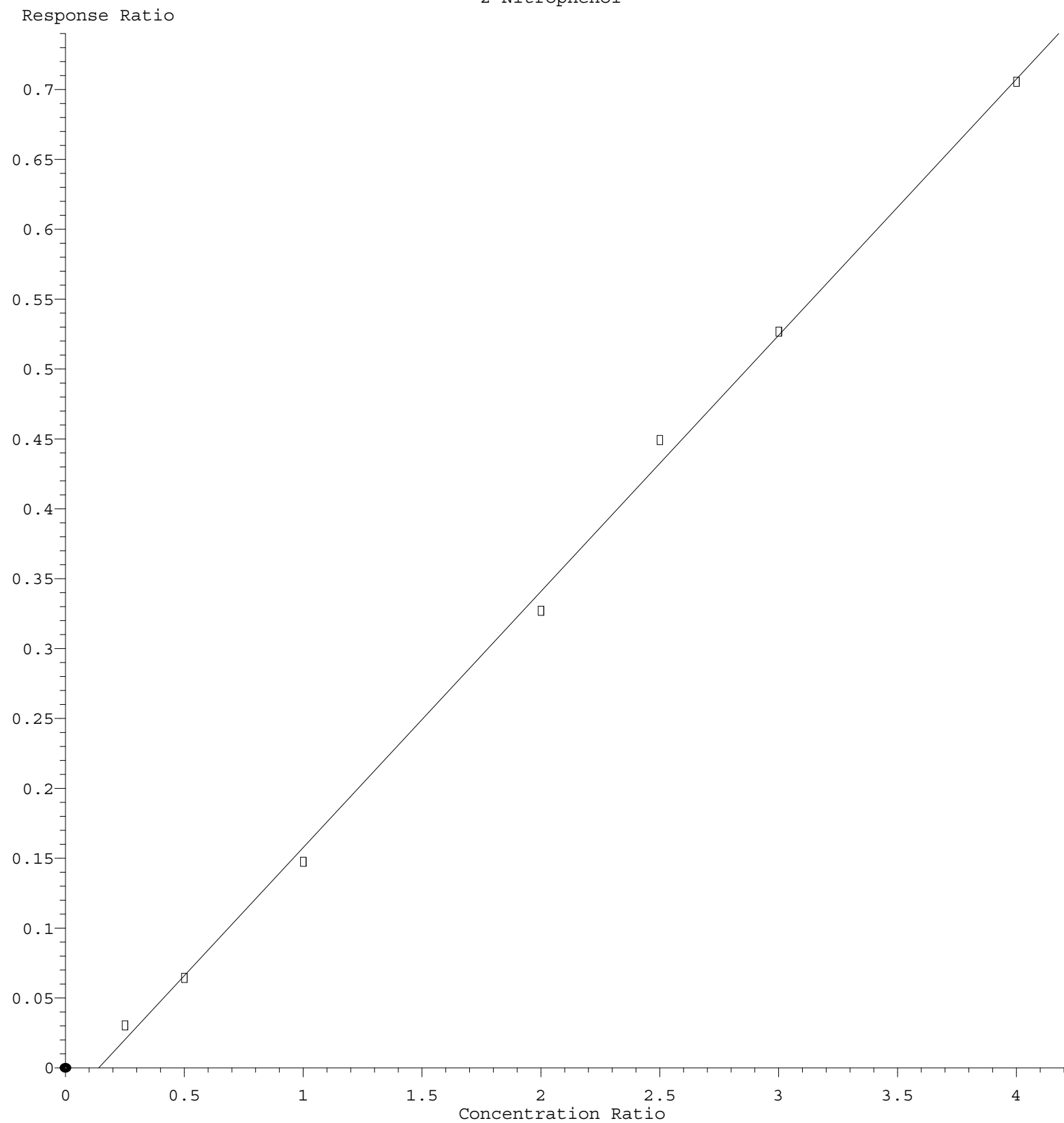
39) I	Acenaphthene-d10	-----ISTD-----								
40)	1,2,4,5-Tetrac...	0.659	0.652	0.685	0.695	0.702	0.705	0.681	0.683	3.03
41) P	Hexachlorocycl...		0.240	0.274	0.311	0.335	0.353	0.357	0.312	14.91
42) S	2,4,6-Tribromo...	0.273	0.279	0.295	0.306	0.323	0.313	0.311	0.300	6.16
43) C	2,4,6-Trichlor...	0.409	0.410	0.450	0.466	0.478	0.473	0.462	0.450	6.43
44)	2,4,5-Trichlor...	0.480	0.476	0.527	0.543	0.562	0.553	0.543	0.526	6.60
45) S	2-Fluorobiphenyl	1.473	1.429	1.477	1.458	1.438	1.414	1.316	1.429	3.85
46)	1,1'-Biphenyl	1.545	1.486	1.551	1.539	1.535	1.509	1.430	1.513	2.88
47)	2-Chloronaphth...	1.181	1.143	1.198	1.191	1.188	1.173	1.115	1.170	2.56
48)	2-Nitroaniline	0.164	0.179	0.227	0.267	0.303	0.300	0.309	0.250	24.21
49)	Acenaphthylene	1.892	1.815	1.924	1.922	1.938	1.901	1.815	1.887	2.71
50)	Dimethylphthalate	1.558	1.482	1.571	1.570	1.609	1.542	1.496	1.547	2.87
51)	2,6-Dinitrotol...	0.167	0.208	0.274	0.306	0.332	0.324	0.325	0.276	23.48
52) C	Acenaphthene	1.225	1.184	1.210	1.225	1.246	1.231	1.181	1.215	2.01
53)	3-Nitroaniline	0.204	0.247	0.297	0.327	0.352	0.343	0.340	0.302	18.60
54) P	2,4-Dinitrophenol		0.102	0.131	0.169	0.201	0.197	0.210	0.168	25.88
55)	Dibenzofuran	1.959	1.911	1.935	1.903	1.926	1.884	1.789	1.901	2.88
56) P	4-Nitrophenol		0.211	0.249	0.276	0.300	0.287	0.286	0.268	12.20
57)	2,4-Dinitrotol...	0.214	0.262	0.342	0.400	0.446	0.436	0.441	0.363	25.76
58)	Fluorene	1.549	1.492	1.547	1.505	1.506	1.463	1.384	1.492	3.78
59)	2,3,4,6-Tetrac...	0.430	0.428	0.453	0.466	0.489	0.472	0.465	0.458	4.85
60)	Diethylphthalate	1.499	1.450	1.496	1.494	1.544	1.473	1.425	1.483	2.59
61)	4-Chlorophenyl...	0.844	0.807	0.812	0.813	0.831	0.807	0.776	0.813	2.65
62)	4-Nitroaniline	0.195	0.236	0.298	0.329	0.352	0.343	0.344	0.299	20.47
63)	Azobenzene	1.344	1.335	1.411	1.395	1.421	1.372	1.311	1.370	3.03
64) I	Phenanthrene-d10	-----ISTD-----								
65)	4,6-Dinitro-2-...		0.069	0.088	0.107	0.120	0.119	0.124	0.104	20.90
66) c	n-Nitrosodiphe...	0.597	0.602	0.591	0.584	0.581	0.575	0.543	0.582	3.37
67)	4-Bromophenyl-...	0.224	0.221	0.230	0.230	0.238	0.234	0.228	0.229	2.52
68)	Hexachlorobenzene	0.259	0.247	0.252	0.251	0.259	0.257	0.250	0.254	1.90
69)	Atrazine	0.184	0.188	0.195	0.201	0.194	0.187	0.178	0.189	4.12
70) C	Pentachlorophenol	0.162	0.168	0.185	0.195	0.203	0.200	0.198	0.187	8.87
71)	Phenanthrene	1.125	1.080	1.097	1.075	1.071	1.058	0.998	1.072	3.64
72)	Anthracene	1.102	1.080	1.101	1.101	1.095	1.080	1.017	1.082	2.80
73)	Carbazole	0.990	1.002	1.006	0.999	0.994	0.972	0.917	0.983	3.17
74)	Di-n-butylphth...	1.044	1.055	1.085	1.097	1.117	1.091	1.039	1.075	2.74
75) C	Fluoranthene	1.358	1.328	1.355	1.346	1.356	1.337	1.262	1.335	2.53
76) I	Chrysene-d12	-----ISTD-----								
77)	Benzidine	0.446	0.468	0.411	0.471	0.421	0.392	0.415	0.432	6.98
78)	Pyrene	1.361	1.313	1.355	1.378	1.373	1.355	1.284	1.346	2.55
79) S	Terphenyl-d14	1.050	1.020	1.043	1.034	1.021	0.995	0.887	1.007	5.55
80)	Butylbenzylpht...	0.321	0.321	0.347	0.378	0.403	0.398	0.403	0.367	10.08
81)	Benzo(a)anthra...	1.414	1.353	1.399	1.417	1.421	1.394	1.326	1.389	2.60
82)	3,3'-Dichlorob...	0.398	0.405	0.447	0.463	0.465	0.452	0.443	0.439	6.10
83)	Chrysene	1.370	1.311	1.336	1.342	1.334	1.324	1.247	1.324	2.90
84)	Bis(2-ethylhex...	0.584	0.576	0.608	0.643	0.666	0.653	0.647	0.625	5.71
85) c	Di-n-octyl pht...	1.069	1.047	1.108	1.173	1.220	1.198	1.180	1.142	5.88

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP013123.M

86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.562	1.482	1.517	1.530	1.549	1.531	1.476	1.521	2.11
88)	Benzo(b)fluora...	1.187	1.140	1.231	1.201	1.262	1.228	1.165	1.202	3.47
89)	Benzo(k)fluora...	1.243	1.138	1.216	1.248	1.208	1.200	1.174	1.204	3.19
90) C	Benzo(a)pyrene	1.194	1.153	1.199	1.207	1.223	1.208	1.168	1.193	2.06
91)	Dibenzo(a,h)an...	1.290	1.236	1.263	1.274	1.288	1.271	1.215	1.263	2.18
92)	Benzo(g,h,i)pe...	1.297	1.221	1.249	1.258	1.274	1.258	1.221	1.254	2.19

(#) = Out of Range

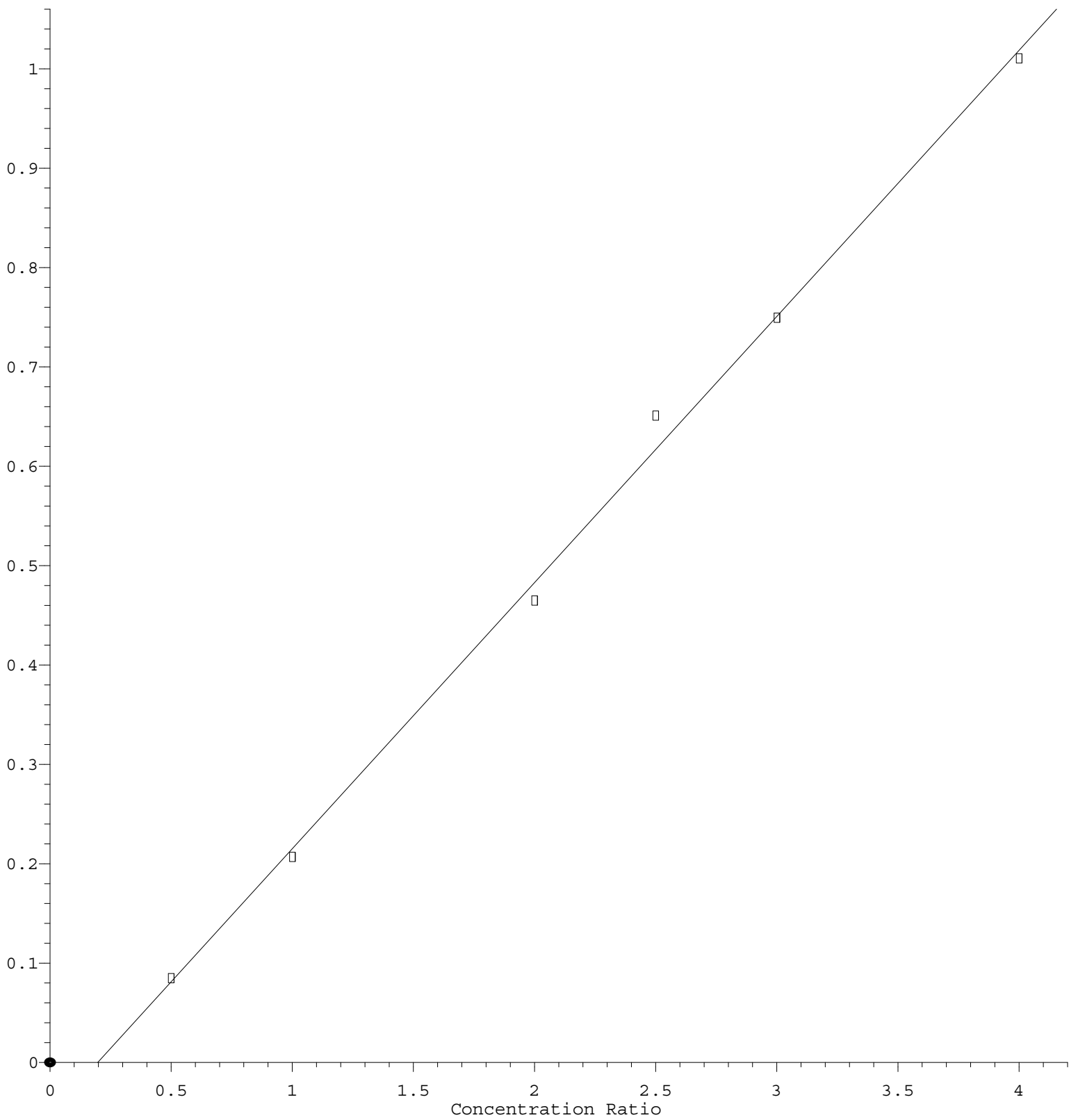
2-Nitrophenol



Response = $1.834 \times 10^{-1} \times \text{Amt} - 2.573 \times 10^{-2}$
 Coef of Det (r^2) = 0.998220 Curve Fit: Linear
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP013123.M
 Calibration Table Last Updated: Wed Feb 01 03:43:48 2023

Benzoic acid

Response Ratio



$$\text{Response} = 2.681\text{e-}001 * \text{Amt} - 5.289\text{e-}002$$

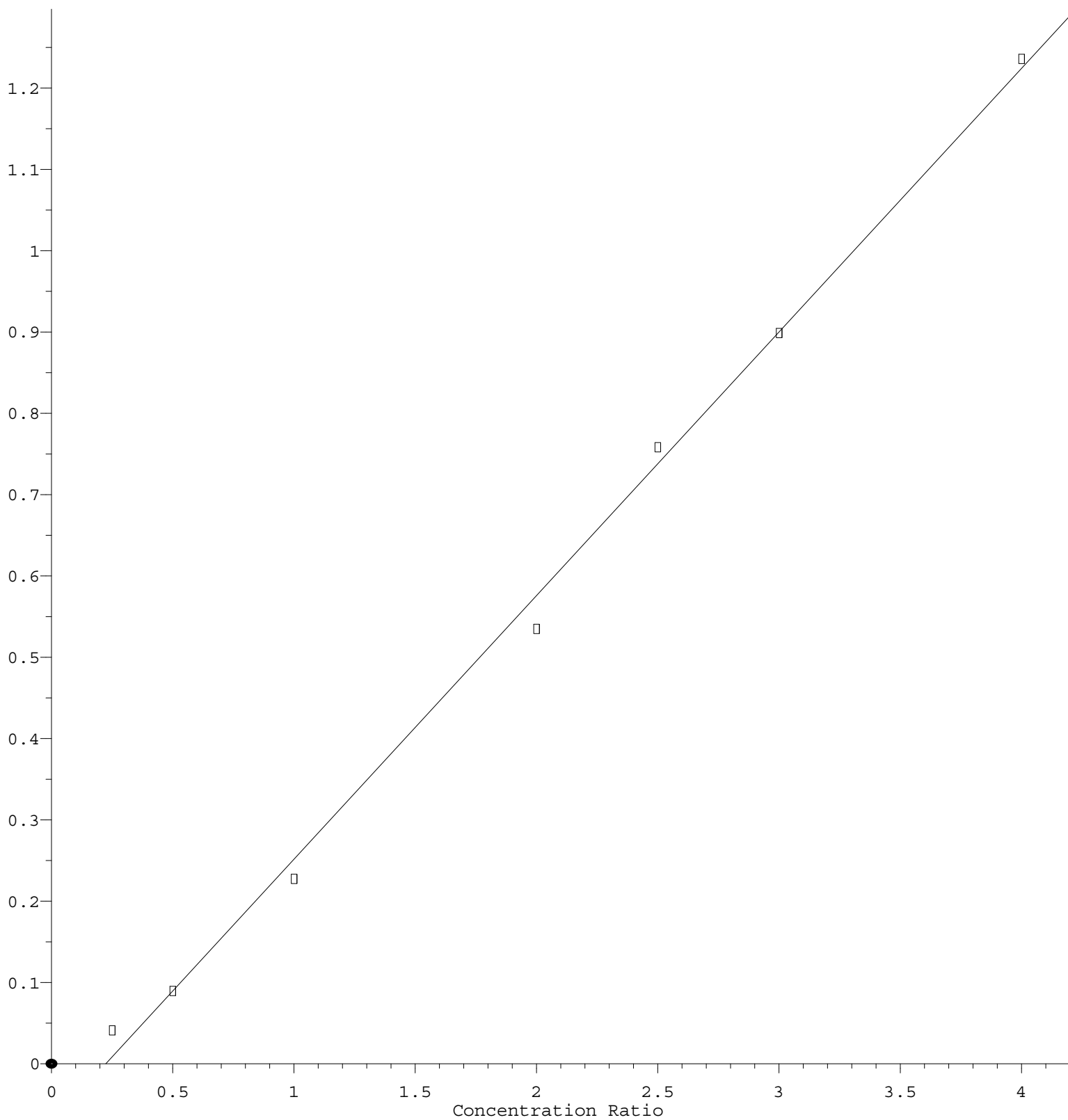
Coef of Det (r^2) = 0.997269 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP013123.M

Calibration Table Last Updated: Wed Feb 01 03:43:48 2023

2-Nitroaniline

Response Ratio



$$\text{Response} = 3.241\text{e-}001 * \text{Amt} - 7.271\text{e-}002$$

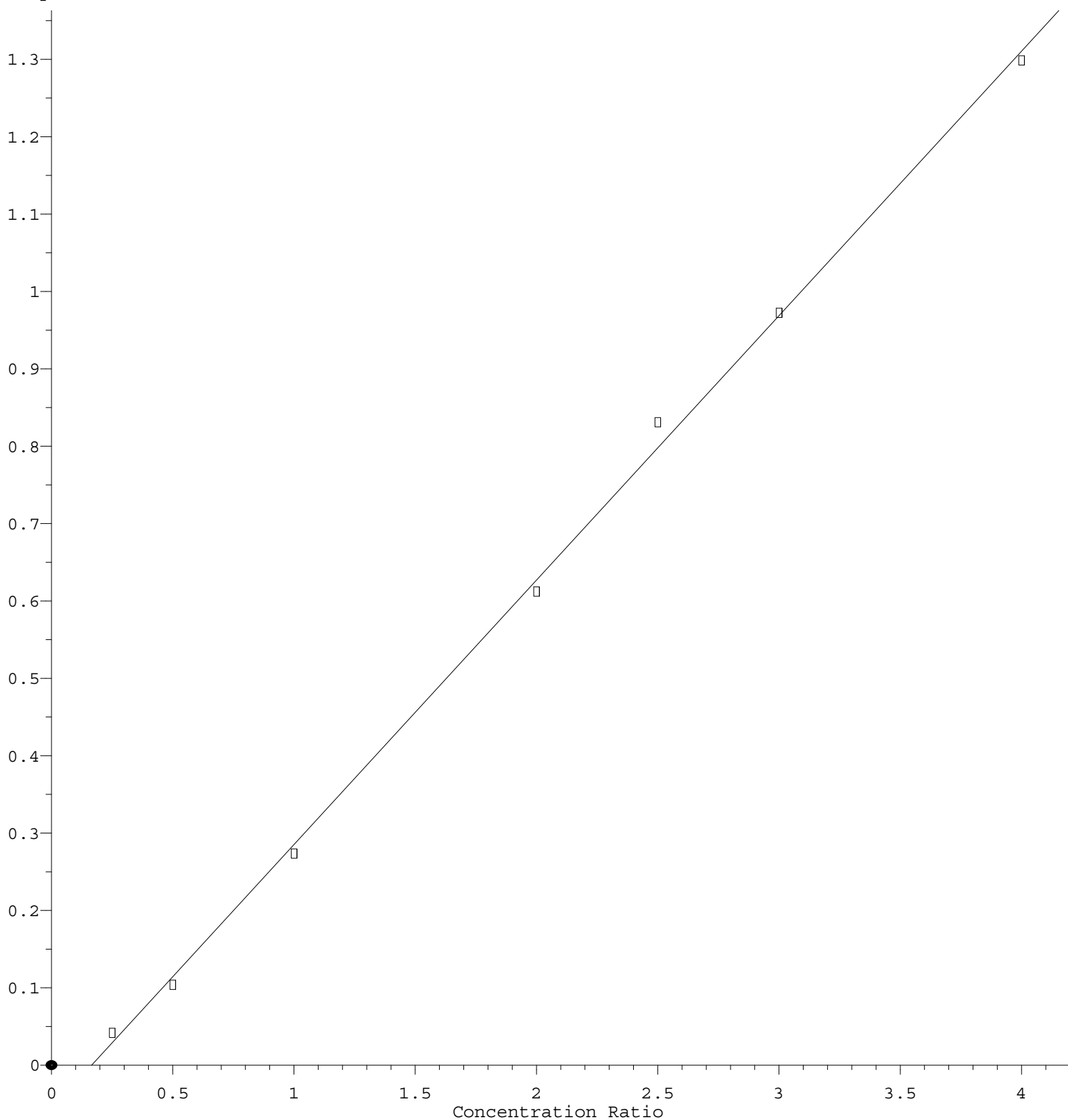
Coef of Det (r^2) = 0.996794 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP013123.M

Calibration Table Last Updated: Wed Feb 01 03:43:48 2023

2,6-Dinitrotoluene

Response Ratio



$$\text{Response} = 3.419\text{e-}001 * \text{Amt} - 5.667\text{e-}002$$

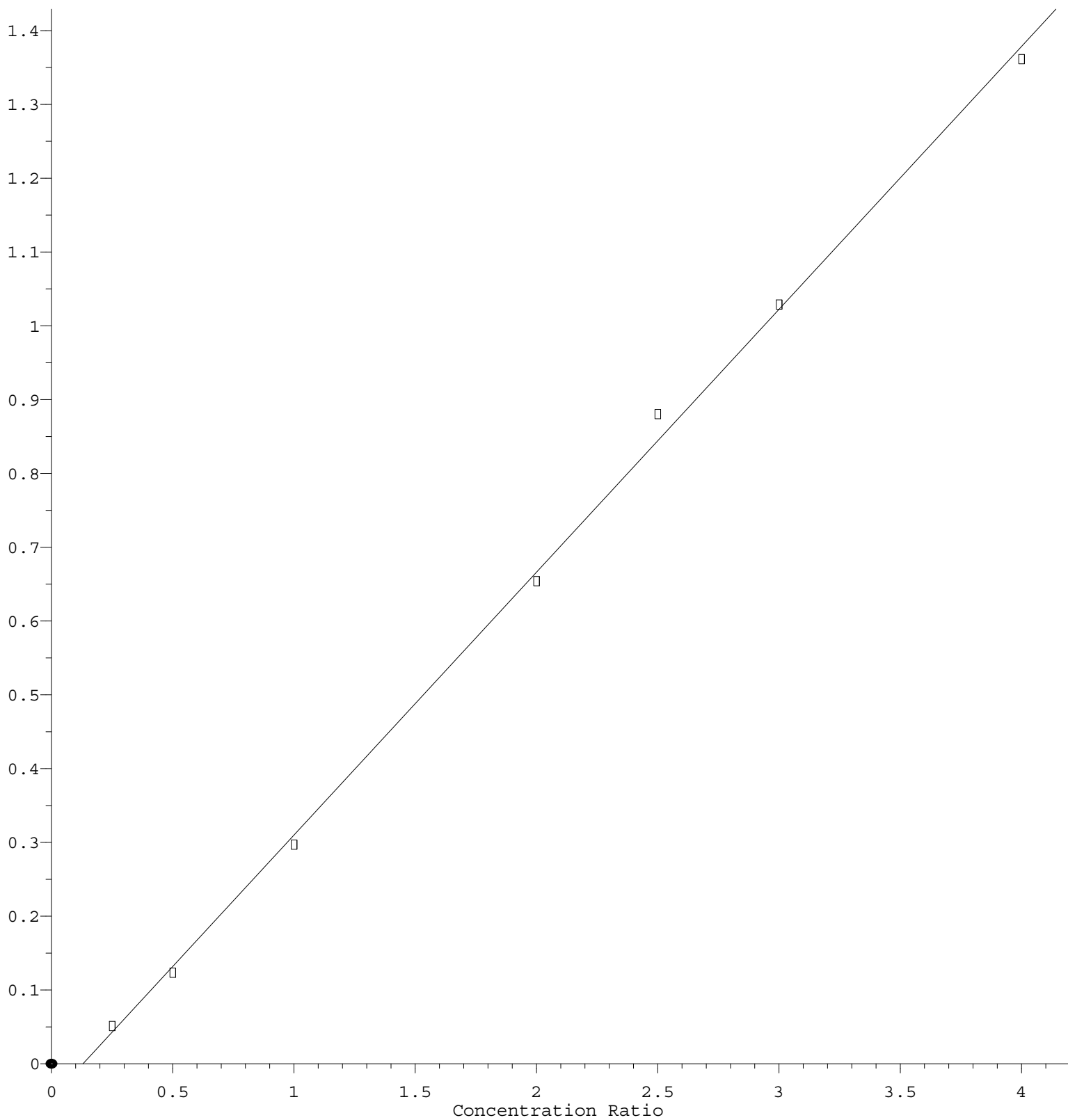
Coef of Det (r^2) = 0.998601 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP013123.M

Calibration Table Last Updated: Wed Feb 01 03:43:48 2023

3-Nitroaniline

Response Ratio



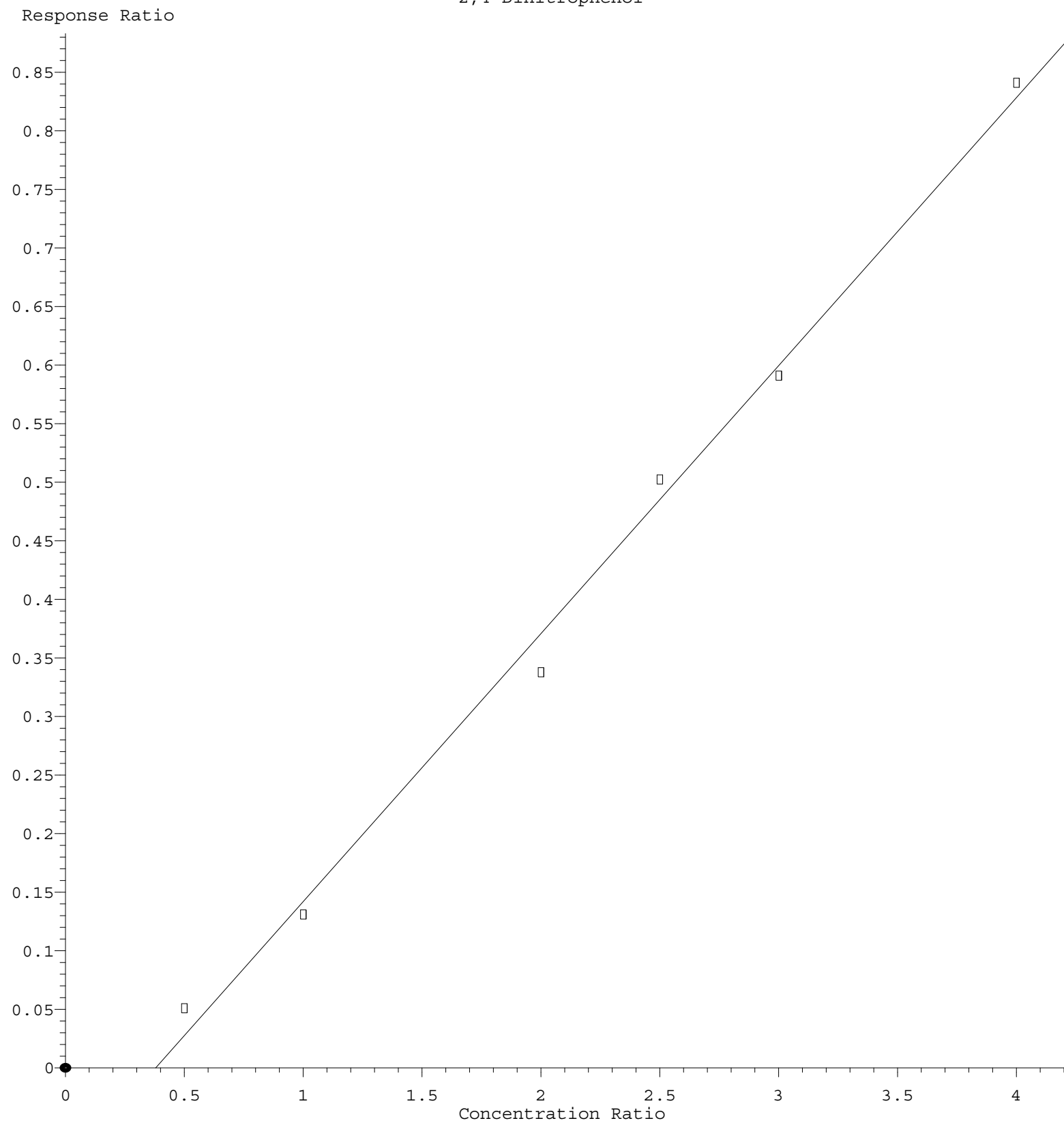
$$\text{Response} = 3.563\text{e-}001 * \text{Amt} - 4.642\text{e-}002$$

Coef of Det (r^2) = 0.998561 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP013123.M

Calibration Table Last Updated: Wed Feb 01 03:43:48 2023

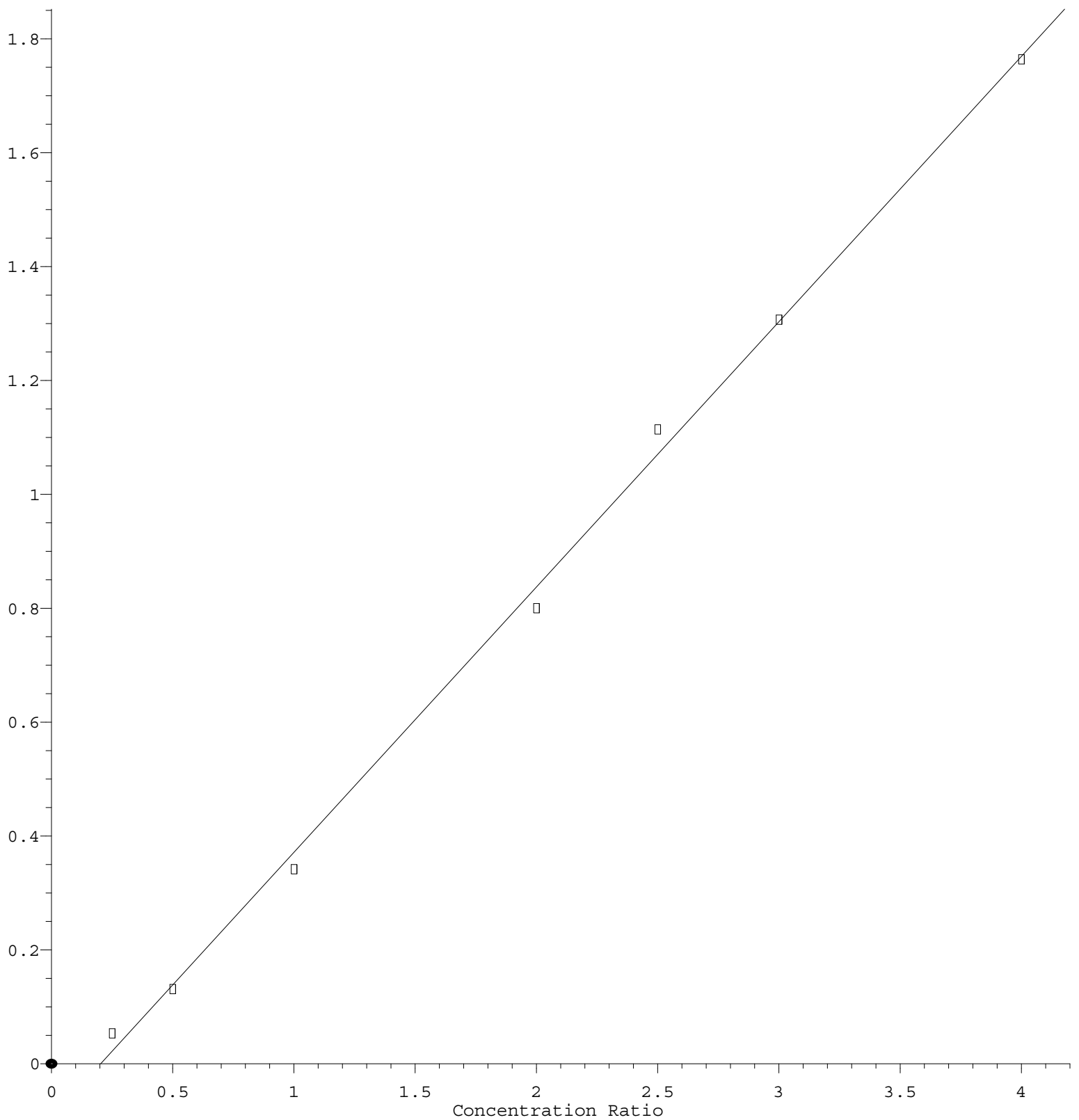
2,4-Dinitrophenol



Response = 2.289e-001 * Amt - 8.710e-002
 Coef of Det (r^2) = 0.994799 Curve Fit: Linear
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP013123.M
 Calibration Table Last Updated: Wed Feb 01 03:43:48 2023

2,4-Dinitrotoluene

Response Ratio



$$\text{Response} = 4.659\text{e-}001 * \text{Amt} - 9.472\text{e-}002$$

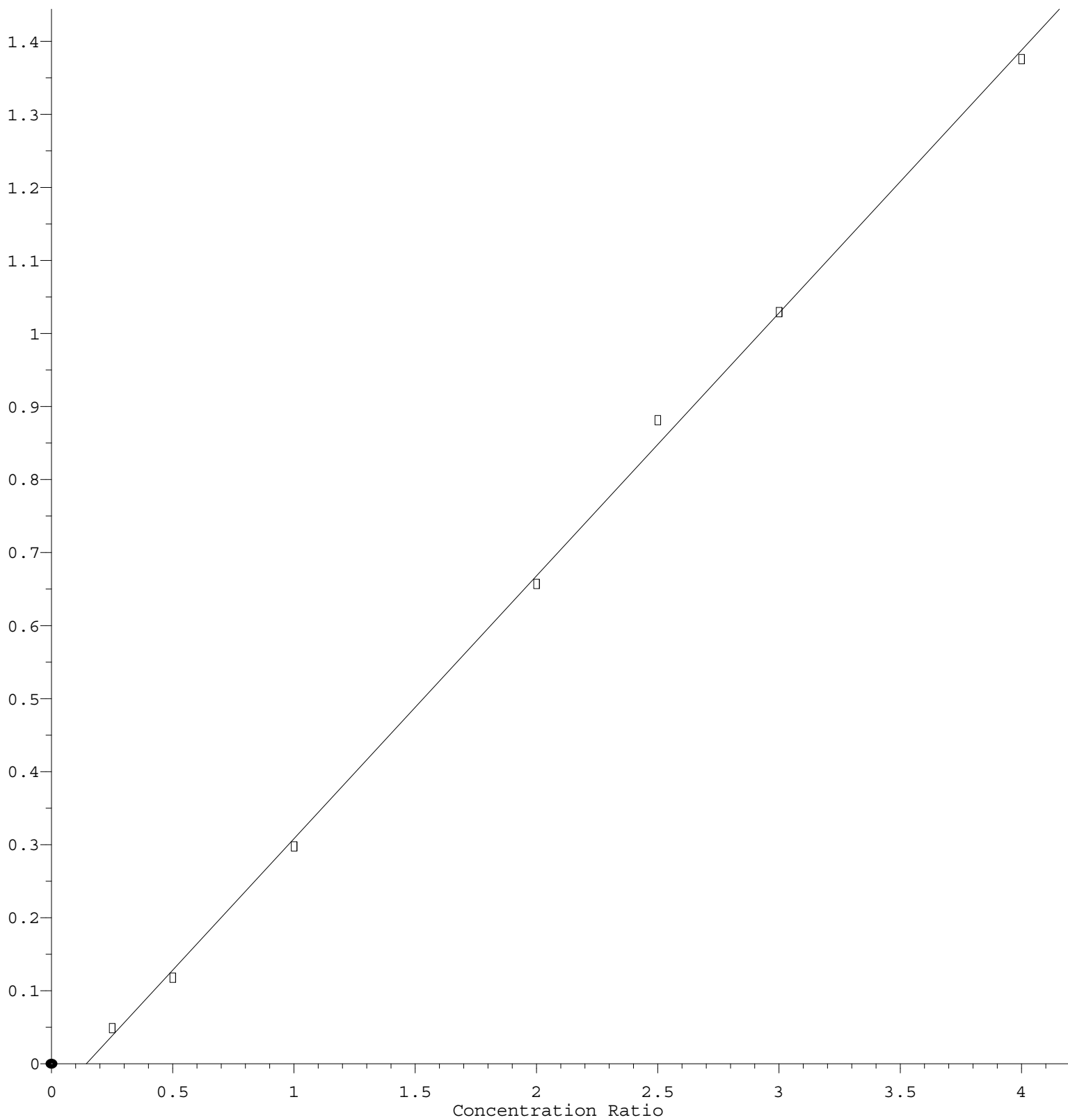
Coef of Det (r^2) = 0.997894 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP013123.M

Calibration Table Last Updated: Wed Feb 01 03:43:48 2023

4-Nitroaniline

Response Ratio



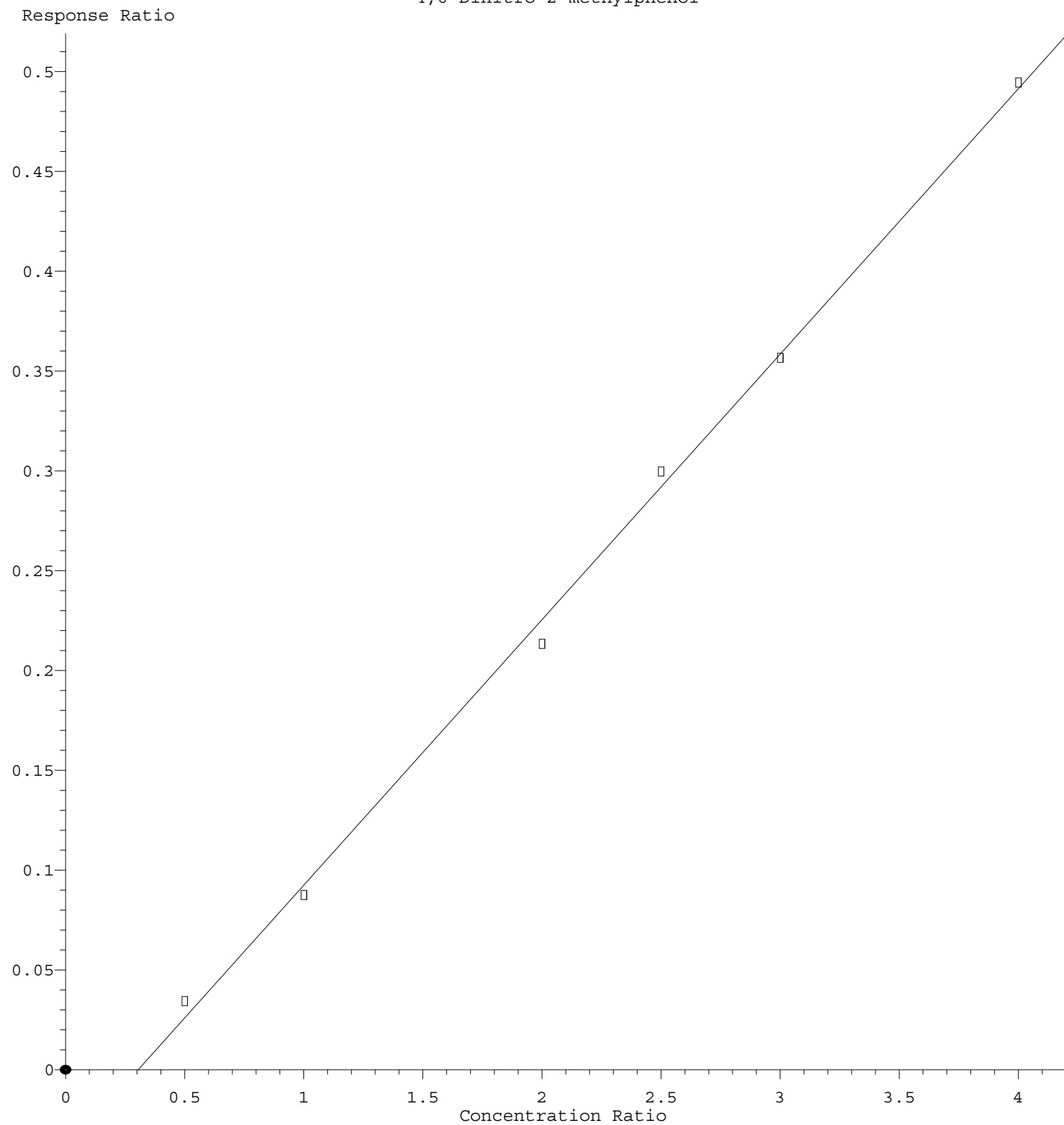
$$\text{Response} = 3.600\text{e-}001 * \text{Amt} - 5.183\text{e-}002$$

Coef of Det (r^2) = 0.998856 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP013123.M

Calibration Table Last Updated: Wed Feb 01 03:43:48 2023

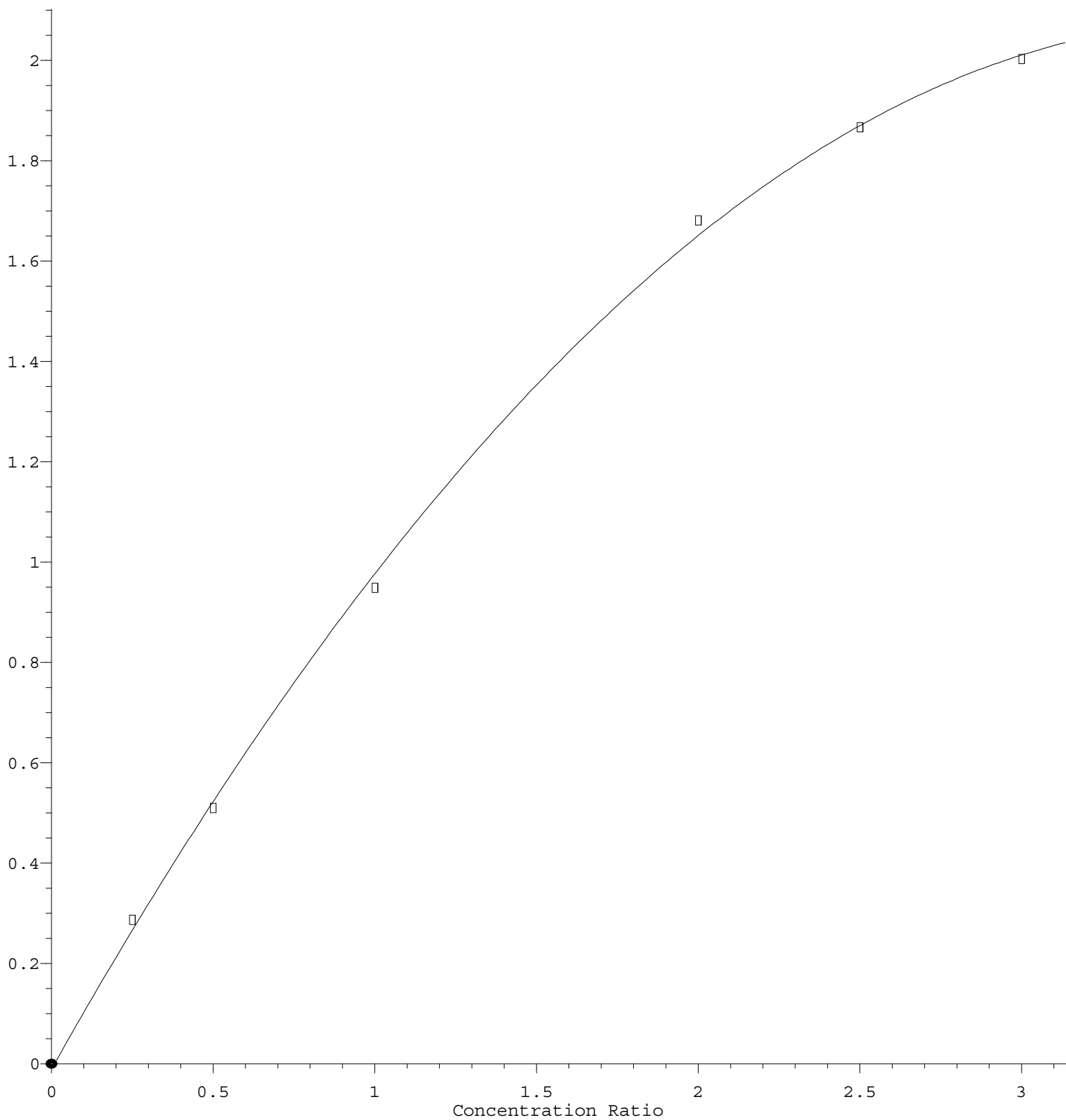
4,6-Dinitro-2-methylphenol



Response = 1.330e-001 * Amt - 4.056e-002
Coef of Det (r^2) = 0.997867 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP013123.M
Calibration Table Last Updated: Wed Feb 01 03:43:48 2023

Benzaldehyde

Response Ratio



$R = -1.567e-001 A^2 + 1.144e+000 A - 1.050e-002$
Coef of Det (r^2) = 0.999111 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP013123.M
Calibration Table Last Updated: Wed Feb 01 03:43:48 2023

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
 Data File : BP013669.D
 Acq On : 31 Jan 2023 11:21
 Operator : CG/JU
 Sample : SSTDICC2.5
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICC2.5

Quant Time: Feb 01 02:58:16 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 01 02:57:10 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

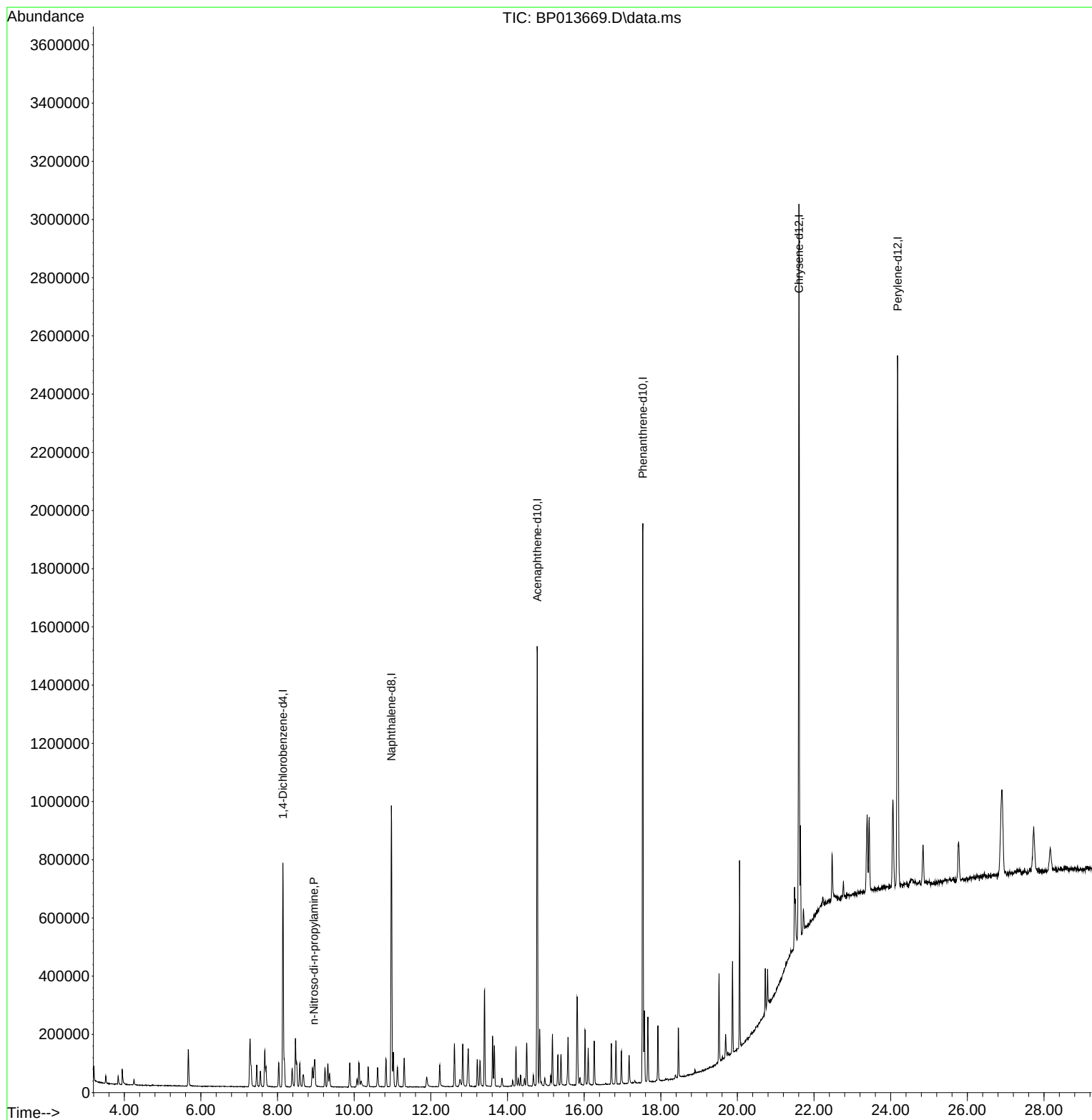
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.140	152	215622	20.000	ng	0.00
21) Naphthalene-d8	10.969	136	815641	20.000	ng	0.00
39) Acenaphthene-d10	14.775	164	543344	20.000	ng	0.00
64) Phenanthrene-d10	17.534	188	1222603	20.000	ng	0.00
76) Chrysene-d12	21.604	240	1282659	20.000	ng	0.00
86) Perylene-d12	24.180	264	1531046	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.000	ng	
7) Phenol-d6	0.000	99	0d	0.000	ng	
23) Nitrobenzene-d5	0.000	82	0d	0.000	ng	
42) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng	
45) 2-Fluorobiphenyl	0.000	172	0d	0.000	ng	
79) Terphenyl-d14	0.000	244	0d	0.000	ng	
Target Compounds						
19) n-Nitroso-di-n-propyla...	8.946	70	23147	2.195	ng	Qvalue 98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
Data File : BP013669.D
Acq On : 31 Jan 2023 11:21
Operator : CG/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Quant Time: Feb 01 02:58:16 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 01 02:57:10 2023
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
 Data File : BP013670.D
 Acq On : 31 Jan 2023 11:55
 Operator : CG/JU
 Sample : SSTDICC005
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICC005

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 02/01/2023
 Supervised By : Jagrut Upadhyay 02/01/2023

Quant Time: Feb 01 03:00:21 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 01 02:57:10 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.140	152	207987	20.000	ng	0.00
21) Naphthalene-d8	10.969	136	798252	20.000	ng	0.00
39) Acenaphthene-d10	14.775	164	542433	20.000	ng	0.00
64) Phenanthrene-d10	17.528	188	1205705	20.000	ng	0.00
76) Chrysene-d12	21.604	240	1277234	20.000	ng	0.00
86) Perylene-d12	24.180	264	1456786	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.669	112	131596	10.816	ng	0.00
7) Phenol-d6	7.281	99	171411	10.575	ng	0.00
23) Nitrobenzene-d5	9.310	82	115739	8.434	ng	0.00
42) 2,4,6-Tribromophenol	16.263	330	73920	9.086	ng	0.00
45) 2-Fluorobiphenyl	13.398	172	399511	10.306	ng	0.00
79) Terphenyl-d14	20.057	244	670677	10.427	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.517	88	28079	5.455	ng	96
3) Pyridine	3.940	79	77265	5.302	ng	98
4) n-Nitrosodimethylamine	3.840	42	27257	5.129	ng	# 96
6) Aniline	7.457	93	106910	5.059	ng	98
8) 2-Chlorophenol	7.699	128	66717	5.209	ng	97
9) Benzaldehyde	7.269	77	59669	7.286	ng	95
10) Phenol	7.310	94	87572	5.172	ng	98
11) bis(2-Chloroethyl)ether	7.552	93	72208	5.338	ng	97
12) 1,3-Dichlorobenzene	8.028	146	78024	5.408	ng	99
13) 1,4-Dichlorobenzene	8.175	146	78176	5.355	ng	99
14) 1,2-Dichlorobenzene	8.499	146	75973	5.438	ng	99
15) Benzyl Alcohol	8.381	79	54828	4.777	ng	97
16) 2,2'-oxybis(1-Chloropr...	8.675	45	84815m	5.348	ng	
17) 2-Methylphenol	8.581	107	59913	5.049	ng	99
18) Hexachloroethane	9.240	117	25208	5.236	ng	95
19) n-Nitroso-di-n-propyla...	8.946	70	51145	5.029	ng	96
20) 3+4-Methylphenols	8.904	107	79463	4.909	ng	98
22) Acetophenone	8.969	105	105769	5.081	ng	# 99
24) Nitrobenzene	9.357	77	66145	4.444	ng	93
25) Isophorone	9.881	82	148792	4.892	ng	99
26) 2-Nitrophenol	10.075	139	24227	3.889	ng	98
27) 2,4-Dimethylphenol	10.128	122	59159	4.638	ng	97
28) bis(2-Chloroethoxy)met...	10.363	93	92765	5.089	ng	99
29) 2,4-Dichlorophenol	10.610	162	63496	4.753	ng	95
30) 1,2,4-Trichlorobenzene	10.828	180	76166	5.138	ng	99
31) Naphthalene	11.022	128	218830	5.214	ng	99
33) 4-Chloroaniline	11.128	127	89719	4.865	ng	98
34) Hexachlorobutadiene	11.304	225	48262	5.129	ng	96
35) Caprolactam	11.887	113	20488	4.688	ng	98
36) 4-Chloro-3-methylphenol	12.228	107	65529	4.663	ng	99
37) 2-Methylnaphthalene	12.616	142	161261	5.110	ng	100
38) 1-Methylnaphthalene	12.834	142	151118	5.098	ng	100
40) 1,2,4,5-Tetrachloroben...	12.975	216	89371	4.826	ng	97
43) 2,4,6-Trichlorophenol	13.210	196	55406	4.544	ng	98
44) 2,4,5-Trichlorophenol	13.281	196	65138	4.562	ng	99
46) 1,1'-Biphenyl	13.610	154	209452	5.103	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
 Data File : BP013670.D
 Acq On : 31 Jan 2023 11:55
 Operator : CG/JU
 Sample : SSTDICC005
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICC005

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 02/01/2023
 Supervised By : Jagrut Upadhyay 02/01/2023

Quant Time: Feb 01 03:00:21 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 01 02:57:10 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) 2-Chloronaphthalene	13.657	162	160131	5.047	ng	100
48) 2-Nitroaniline	13.857	65	22261	3.283	ng	88
49) Acenaphthylene	14.498	152	256574	5.014	ng	100
50) Dimethylphthalate	14.222	163	211344	5.037	ng	99
51) 2,6-Dinitrotoluene	14.345	165	22657	3.021	ng	95
52) Acenaphthene	14.839	154	166087	5.204	ng	98
53) 3-Nitroaniline	14.675	138	27731	3.391	ng	# 91
55) Dibenzofuran	15.175	168	265605	5.152	ng	99
57) 2,4-Dinitrotoluene	15.128	165	28996	2.947	ng	93
58) Fluorene	15.822	166	210106	5.191	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.398	232	58314	4.697	ng	98
60) Diethylphthalate	15.581	149	203304	5.055	ng	100
61) 4-Chlorophenyl-phenyle...	15.810	204	114498	5.195	ng	97
62) 4-Nitroaniline	15.834	138	26433	3.255	ng	92
63) Azobenzene	16.104	77	182224	4.904	ng	98
66) n-Nitrosodiphenylamine	16.022	169	180099	5.134	ng	100
67) 4-Bromophenyl-phenylether	16.710	248	67487	4.883	ng	96
68) Hexachlorobenzene	16.828	284	78217	5.111	ng	96
69) Atrazine	16.969	200	55318	4.846	ng	97
70) Pentachlorophenol	17.175	266	48770	4.320	ng	99
71) Phenanthrene	17.575	178	339181	5.248	ng	100
72) Anthracene	17.663	178	332123	5.090	ng	99
73) Carbazole	17.928	167	298527	5.039	ng	100
74) Di-n-butylphthalate	18.463	149	314543	4.852	ng	99
75) Fluoranthene	19.522	202	409271	5.087	ng	98
77) Benzidine	19.692	184	142498	5.165	ng	99
78) Pyrene	19.874	202	434700	5.059	ng	99
80) Butylbenzylphthalate	20.727	149	102627	4.375	ng	96
81) Benzo(a)anthracene	21.586	228	451451	5.089	ng	99
82) 3,3'-Dichlorobenzidine	21.510	252	127234	4.536	ng	100
83) Chrysene	21.645	228	437426	5.175	ng	99
84) Bis(2-ethylhexyl)phtha...	21.492	149	186542	4.670	ng	99
85) Di-n-octyl phthalate	22.474	149	341267	4.679	ng	99
87) Indeno(1,2,3-cd)pyrene	26.898	276	569018	5.136	ng	99
88) Benzo(b)fluoranthene	23.386	252	432355	4.938	ng	100
89) Benzo(k)fluoranthene	23.439	252	452753	5.163	ng	98
90) Benzo(a)pyrene	24.063	252	434872	5.004	ng	98
91) Dibenzo(a,h)anthracene	26.915	278	469988	5.111	ng	99
92) Benzo(g,h,i)perylene	27.733	276	472434	5.172	ng	100

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

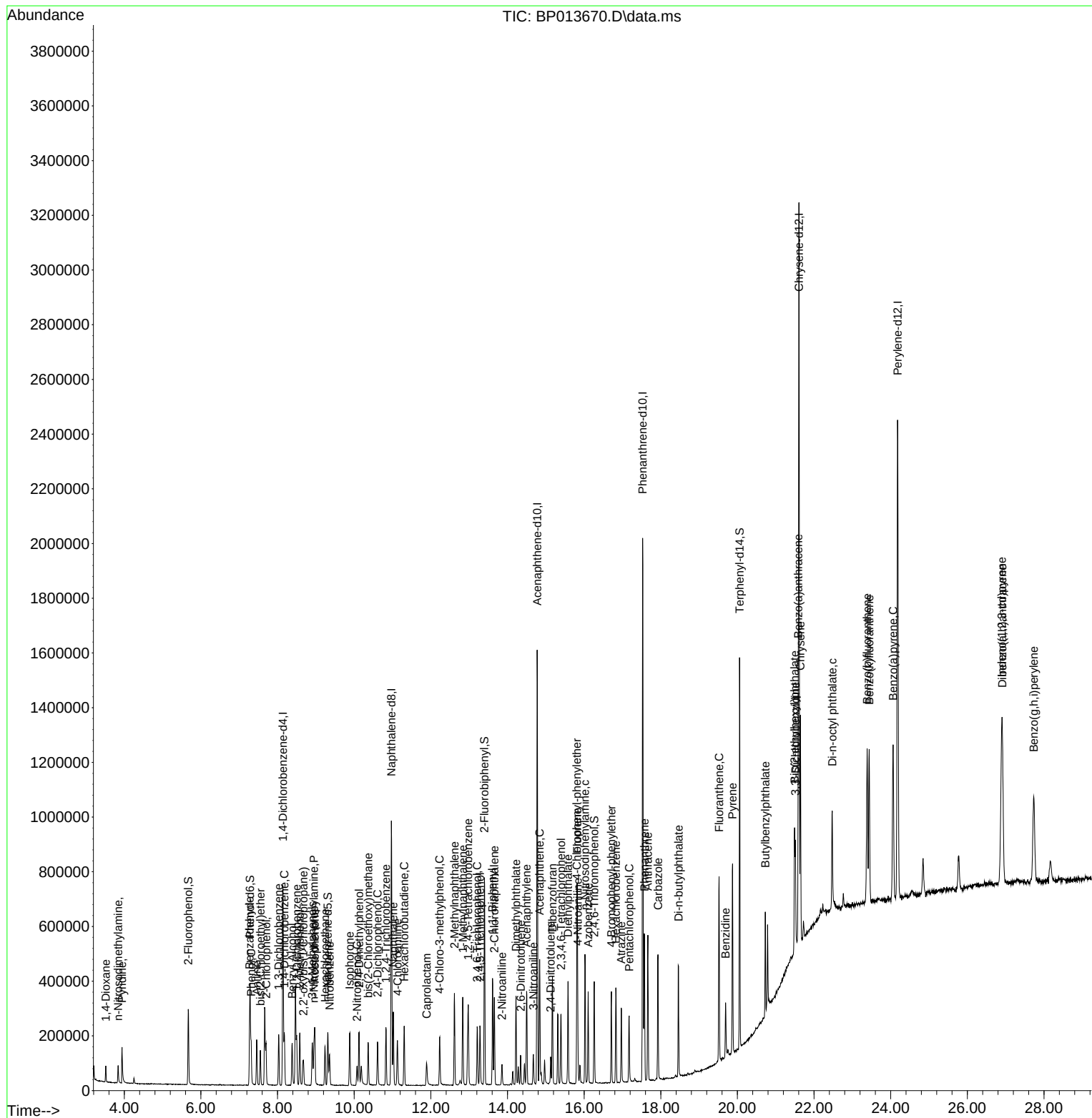
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
Data File : BP013670.D
Acq On : 31 Jan 2023 11:55
Operator : CG/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Christian Giraldo 02/01/2023
Supervised By :Jaqrut Upadhyay 02/01/2023

Quant Time: Feb 01 03:00:21 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 01 02:57:10 2023
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
 Data File : BP013671.D
 Acq On : 31 Jan 2023 12:30
 Operator : CG/JU
 Sample : SSTDICC010
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICC010

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 02/01/2023
 Supervised By : Jagrut Upadhyay 02/01/2023

Quant Time: Feb 01 03:01:10 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 01 02:57:10 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.140	152	224889	20.000	ng	0.00
21) Naphthalene-d8	10.969	136	852691	20.000	ng	0.00
39) Acenaphthene-d10	14.781	164	571169	20.000	ng	0.00
64) Phenanthrene-d10	17.534	188	1246996	20.000	ng	0.00
76) Chrysene-d12	21.604	240	1322136	20.000	ng	0.00
86) Perylene-d12	24.180	264	1578749	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.670	112	267013	20.297	ng	0.00
7) Phenol-d6	7.281	99	349321	19.931	ng	0.00
23) Nitrobenzene-d5	9.316	82	257904	17.594	ng	0.00
42) 2,4,6-Tribromophenol	16.263	330	159516	18.620	ng	0.00
45) 2-Fluorobiphenyl	13.399	172	815926	19.989	ng	0.00
79) Terphenyl-d14	20.057	244	1348034	20.246	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.517	88	59168	10.631	ng	99
3) Pyridine	3.934	79	160231	10.169	ng	98
4) n-Nitrosodimethylamine	3.840	42	57187	9.953	ng	# 98
6) Aniline	7.458	93	226529	9.914	ng	99
8) 2-Chlorophenol	7.699	128	139882	10.100	ng	98
9) Benzaldehyde	7.269	77	114655	12.948	ng	97
10) Phenol	7.311	94	182636	9.975	ng	97
11) bis(2-Chloroethyl)ether	7.552	93	148089	10.125	ng	98
12) 1,3-Dichlorobenzene	8.028	146	160884	10.312	ng	98
13) 1,4-Dichlorobenzene	8.175	146	160981	10.198	ng	99
14) 1,2-Dichlorobenzene	8.499	146	153109	10.136	ng	99
15) Benzyl Alcohol	8.381	79	117187	9.442	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.663	45	172644m	10.069	ng	
17) 2-Methylphenol	8.581	107	125012	9.743	ng	99
18) Hexachloroethane	9.234	117	51821	9.956	ng	93
19) n-Nitroso-di-n-propyla...	8.952	70	109393	9.948	ng	99
20) 3+4-Methylphenols	8.905	107	170146	9.721	ng	100
22) Acetophenone	8.969	105	216625	9.742	ng	# 99
24) Nitrobenzene	9.358	77	143589	9.031	ng	99
25) Isophorone	9.887	82	311188	9.578	ng	100
26) 2-Nitrophenol	10.075	139	54886	8.247	ng	98
27) 2,4-Dimethylphenol	10.122	122	126348	9.273	ng	99
28) bis(2-Chloroethoxy)met...	10.363	93	192032	9.861	ng	99
29) 2,4-Dichlorophenol	10.610	162	135959	9.527	ng	98
30) 1,2,4-Trichlorobenzene	10.828	180	156477	9.881	ng	97
31) Naphthalene	11.022	128	443242	9.886	ng	99
32) Benzoic acid	10.199	122	72345	7.422	ng	96
33) 4-Chloroaniline	11.128	127	189921	9.641	ng	99
34) Hexachlorobutadiene	11.305	225	98972	9.846	ng	99
35) Caprolactam	11.893	113	42335m	9.068	ng	
36) 4-Chloro-3-methylphenol	12.234	107	138247	9.209	ng	97
37) 2-Methylnaphthalene	12.616	142	324906	9.638	ng	99
38) 1-Methylnaphthalene	12.834	142	308134	9.730	ng	99
40) 1,2,4,5-Tetrachloroben...	12.975	216	186132	9.545	ng	99
41) Hexachlorocyclopentadiene	12.957	237	68575	7.705	ng	95
43) 2,4,6-Trichlorophenol	13.216	196	117066	9.117	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
 Data File : BP013671.D
 Acq On : 31 Jan 2023 12:30
 Operator : CG/JU
 Sample : SSTDICC010
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICC010

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 02/01/2023
 Supervised By : Jagrut Upadhyay 02/01/2023

Quant Time: Feb 01 03:01:10 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 01 02:57:10 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.281	196	135865	9.037	ng	99
46) 1,1'-Biphenyl	13.610	154	424307	9.817	ng	100
47) 2-Chloronaphthalene	13.657	162	326378	9.769	ng	100
48) 2-Nitroaniline	13.857	65	51168	7.167	ng	99
49) Acenaphthylene	14.498	152	518399	9.622	ng	100
50) Dimethylphthalate	14.222	163	423297	9.582	ng	99
51) 2,6-Dinitrotoluene	14.340	165	59303	7.511	ng	95
52) Acenaphthene	14.840	154	338118	10.061	ng	98
53) 3-Nitroaniline	14.675	138	70471	8.184	ng	95
54) 2,4-Dinitrophenol	14.875	184	29040	6.043	ng	97
55) Dibenzofuran	15.175	168	545650	10.052	ng	98
56) 4-Nitrophenol	14.969	139	60370	7.881	ng	97
57) 2,4-Dinitrotoluene	15.128	165	74877	7.226	ng	94
58) Fluorene	15.822	166	425966	9.994	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.393	232	122339	9.358	ng	99
60) Diethylphthalate	15.581	149	414103	9.778	ng	98
61) 4-Chlorophenyl-phenylether	15.810	204	230347	9.925	ng	97
62) 4-Nitroaniline	15.834	138	67274	7.867	ng	95
63) Azobenzene	16.104	77	381192	9.743	ng	99
65) 4,6-Dinitro-2-methylphthalate	15.893	198	42920	6.604	ng	99
66) n-Nitrosodiphenylamine	16.022	169	375322	10.344	ng	98
67) 4-Bromophenyl-phenylether	16.710	248	137735	9.635	ng	98
68) Hexachlorobenzene	16.828	284	154076	9.734	ng	96
69) Atrazine	16.975	200	117238	9.930	ng	97
70) Pentachlorophenol	17.175	266	104471	8.947	ng	96
71) Phenanthrene	17.575	178	673259	10.073	ng	100
72) Anthracene	17.663	178	673127	9.975	ng	99
73) Carbazole	17.928	167	624672	10.195	ng	99
74) Di-n-butylphthalate	18.457	149	657913	9.812	ng	99
75) Fluoranthene	19.522	202	828045	9.951	ng	99
77) Benzidine	19.692	184	309230	10.828	ng	100
78) Pyrene	19.875	202	867705	9.755	ng	99
80) Butylbenzylphthalate	20.728	149	212206	8.739	ng	96
81) Benzo(a)anthracene	21.586	228	894160	9.737	ng	99
82) 3,3'-Dichlorobenzidine	21.516	252	267817	9.224	ng	98
83) Chrysene	21.645	228	866770	9.907	ng	99
84) Bis(2-ethylhexyl)phthalate	21.492	149	380628	9.206	ng	99
85) Di-n-octyl phthalate	22.475	149	692171	9.168	ng	99
87) Indeno(1,2,3-cd)pyrene	26.898	276	1169627	9.742	ng	99
88) Benzo(b)fluoranthene	23.386	252	900076	9.486	ng	99
89) Benzo(k)fluoranthene	23.439	252	898633	9.455	ng	99
90) Benzo(a)pyrene	24.069	252	910055	9.662	ng	99
91) Dibenzo(a,h)anthracene	26.915	278	975507	9.788	ng	99
92) Benzo(g,h,i)perylene	27.739	276	963855	9.738	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
 Data File : BP013671.D
 Acq On : 31 Jan 2023 12:30
 Operator : CG/JU
 Sample : SSTDICC010
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_P

ClientSampleId :

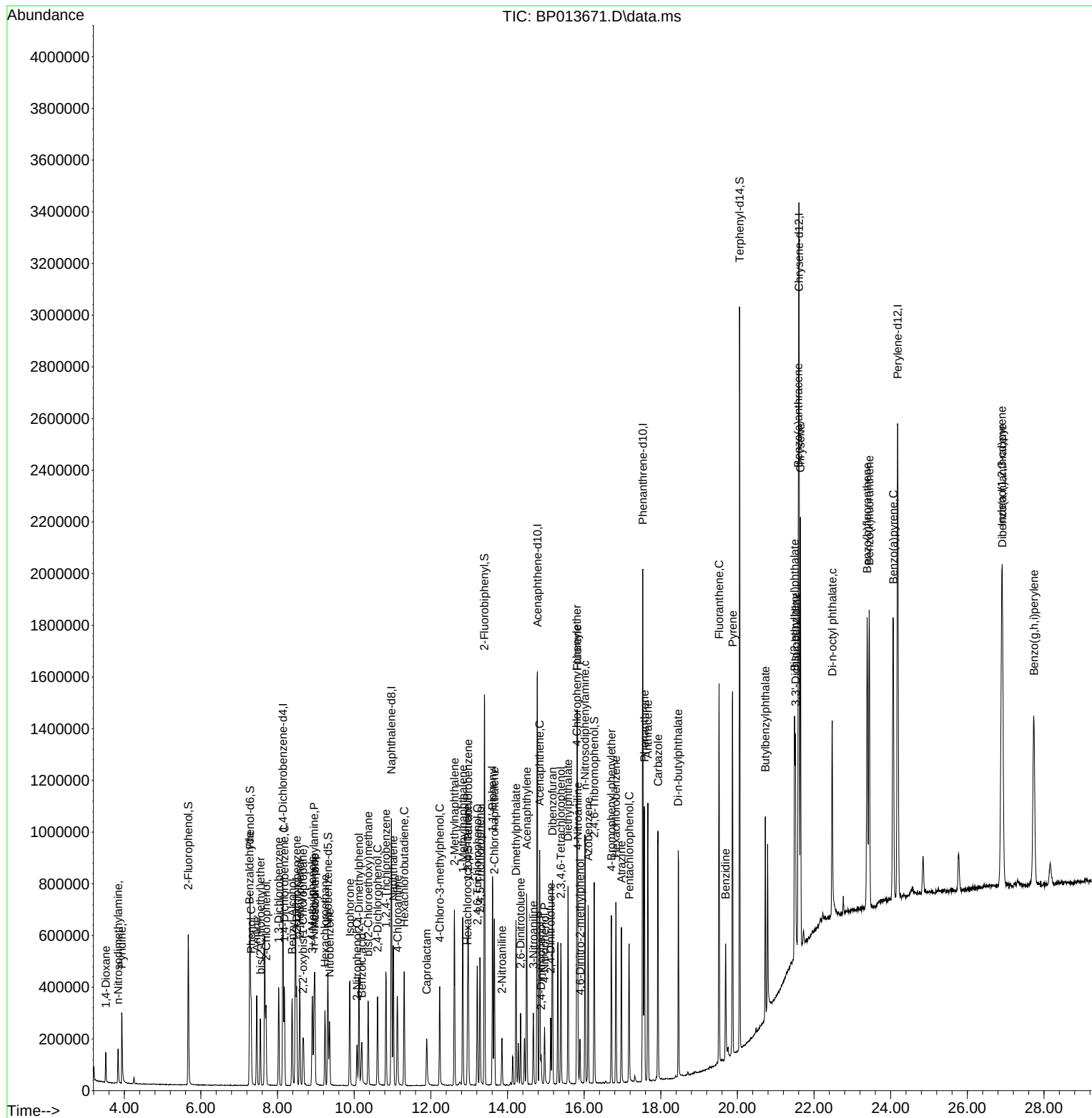
SSTDICC010

Manual Integrations

APPROVED

Reviewed By : Christian Giraldo 02/01/2023
 Supervised By : Jagrut Upadhyay 02/01/2023

Quant Time: Feb 01 03:01:10 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 01 02:57:10 2023
 Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
 Data File : BP013672.D
 Acq On : 31 Jan 2023 13:04
 Operator : CG/JU
 Sample : SSTDICC020
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICC020

Quant Time: Feb 01 03:01:58 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 01 02:57:10 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.140	152	232095	20.000	ng	0.00
21) Naphthalene-d8	10.969	136	864783	20.000	ng	0.00
39) Acenaphthene-d10	14.775	164	574867	20.000	ng	0.00
64) Phenanthrene-d10	17.528	188	1318675	20.000	ng	0.00
76) Chrysene-d12	21.610	240	1383138	20.000	ng	0.00
86) Perylene-d12	24.180	264	1596192	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.669	112	550601	40.554	ng	0.00
7) Phenol-d6	7.287	99	729453	40.328	ng	0.00
23) Nitrobenzene-d5	9.316	82	585728	39.399	ng	0.00
42) 2,4,6-Tribromophenol	16.263	330	339579	39.383	ng	0.00
45) 2-Fluorobiphenyl	13.404	172	1698701	41.348	ng	0.00
79) Terphenyl-d14	20.057	244	2885228	41.423	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.517	88	117959	20.536	ng	97
3) Pyridine	3.934	79	333808	20.526	ng	99
4) n-Nitrosodimethylamine	3.840	42	120355	20.296	ng	# 96
6) Aniline	7.458	93	479986	20.355	ng	98
8) 2-Chlorophenol	7.699	128	290657	20.334	ng	98
9) Benzaldehyde	7.269	77	220181	24.093	ng	99
10) Phenol	7.311	94	381485	20.189	ng	98
11) bis(2-Chloroethyl)ether	7.552	93	304056	20.143	ng	100
12) 1,3-Dichlorobenzene	8.028	146	327581	20.345	ng	98
13) 1,4-Dichlorobenzene	8.175	146	334010	20.502	ng	97
14) 1,2-Dichlorobenzene	8.499	146	317914	20.393	ng	99
15) Benzyl Alcohol	8.381	79	252183	19.689	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.675	45	358679	20.269	ng	99
17) 2-Methylphenol	8.581	107	269114	20.324	ng	98
18) Hexachloroethane	9.234	117	106787	19.878	ng	92
19) n-Nitroso-di-n-propyla...	8.952	70	232814	20.515	ng	99
20) 3+4-Methylphenols	8.910	107	365815	20.251	ng	97
22) Acetophenone	8.969	105	457268	20.277	ng	# 99
24) Nitrobenzene	9.357	77	321768	19.954	ng	99
25) Isophorone	9.887	82	660366	20.041	ng	99
26) 2-Nitrophenol	10.075	139	127494	18.889	ng	97
27) 2,4-Dimethylphenol	10.122	122	266047	19.253	ng	100
28) bis(2-Chloroethoxy)met...	10.363	93	398892	20.198	ng	99
29) 2,4-Dichlorophenol	10.610	162	288544	19.935	ng	99
30) 1,2,4-Trichlorobenzene	10.828	180	322936	20.108	ng	99
31) Naphthalene	11.022	128	921913	20.275	ng	99
32) Benzoic acid	10.222	122	178890	18.096	ng	97
33) 4-Chloroaniline	11.128	127	401570	20.099	ng	99
34) Hexachlorobutadiene	11.304	225	202285	19.843	ng	97
35) Caprolactam	11.899	113	92339	19.502	ng	97
36) 4-Chloro-3-methylphenol	12.234	107	304116	19.975	ng	98
37) 2-Methylnaphthalene	12.616	142	692719	20.261	ng	98
38) 1-Methylnaphthalene	12.834	142	651141	20.275	ng	99
40) 1,2,4,5-Tetrachloroben...	12.975	216	393637	20.057	ng	99
41) Hexachlorocyclopentadiene	12.957	237	157754	17.611	ng	95
43) 2,4,6-Trichlorophenol	13.210	196	258934	20.036	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
 Data File : BP013672.D
 Acq On : 31 Jan 2023 13:04
 Operator : CG/JU
 Sample : SSTDICC020
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICC020

Quant Time: Feb 01 03:01:58 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 01 02:57:10 2023
 Response via : Initial Calibration

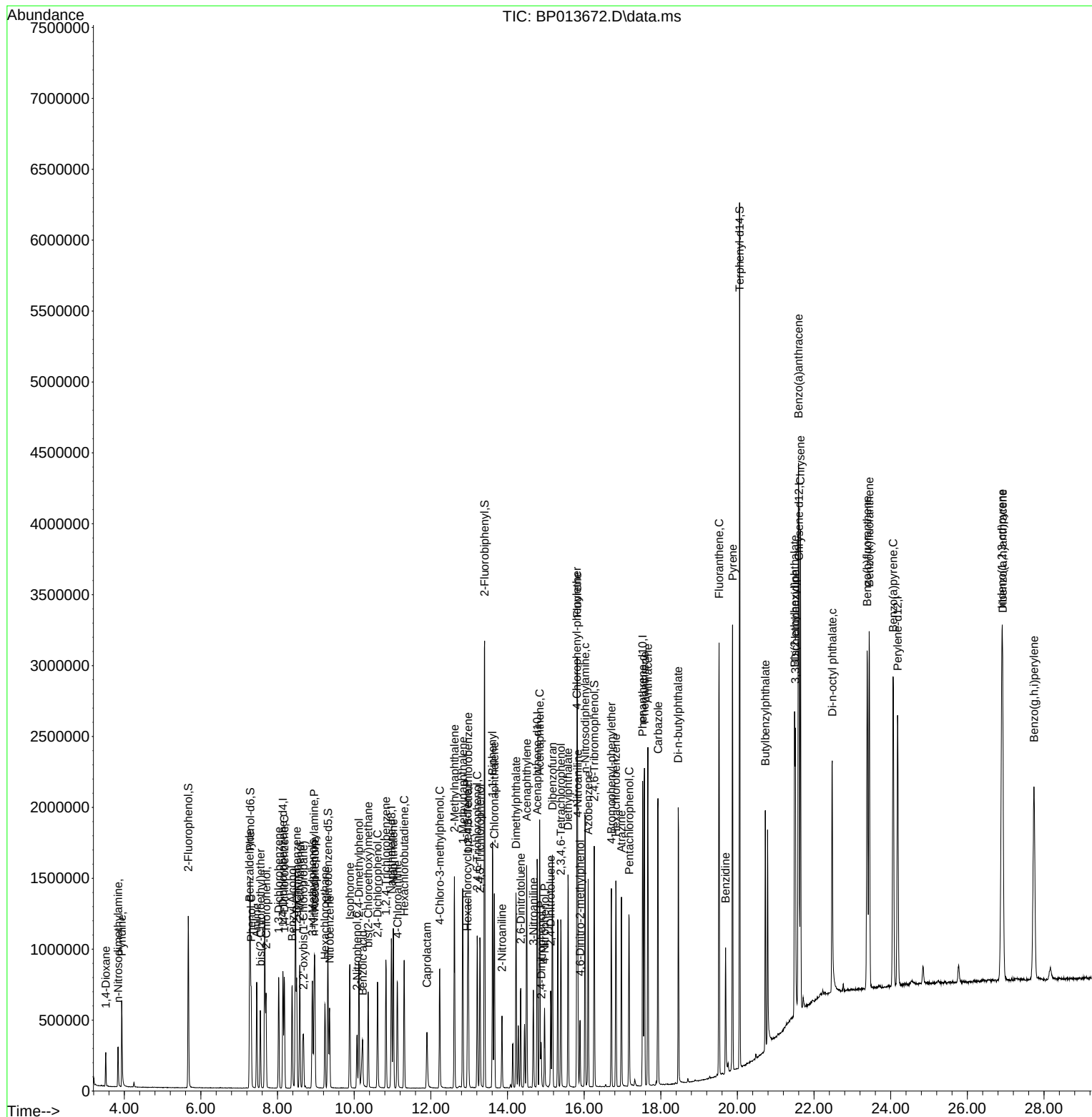
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.281	196	303065	20.029	ng	98
46) 1,1'-Biphenyl	13.610	154	891842	20.501	ng	100
47) 2-Chloronaphthalene	13.657	162	688869	20.486	ng	98
48) 2-Nitroaniline	13.857	65	130687	18.188	ng	97
49) Acenaphthylene	14.498	152	1105805	20.392	ng	99
50) Dimethylphthalate	14.222	163	903323	20.316	ng	100
51) 2,6-Dinitrotoluene	14.345	165	157246	19.787	ng	96
52) Acenaphthene	14.840	154	695528	20.563	ng	100
53) 3-Nitroaniline	14.675	138	170753	19.702	ng	99
54) 2,4-Dinitrophenol	14.881	184	75274	15.563	ng	98
55) Dibenzofuran	15.175	168	1112099	20.354	ng	99
56) 4-Nitrophenol	14.969	139	143063	18.557	ng	97
57) 2,4-Dinitrotoluene	15.128	165	196398	18.832	ng	96
58) Fluorene	15.822	166	889418	20.734	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.392	232	260416	19.792	ng	100
60) Diethylphthalate	15.581	149	860161	20.179	ng	99
61) 4-Chlorophenyl-phenyle...	15.810	204	466566	19.973	ng	97
62) 4-Nitroaniline	15.834	138	171093	19.879	ng	96
63) Azobenzene	16.104	77	811105	20.599	ng	98
65) 4,6-Dinitro-2-methylph...	15.892	198	115420	16.794	ng	99
66) n-Nitrosodiphenylamine	16.028	169	779122	20.306	ng	99
67) 4-Bromophenyl-phenylether	16.710	248	302741	20.028	ng	97
68) Hexachlorobenzene	16.828	284	332458	19.862	ng	96
69) Atrazine	16.975	200	256804	20.569	ng	99
70) Pentachlorophenol	17.175	266	243337	19.708	ng	99
71) Phenanthrene	17.575	178	1446056	20.459	ng	99
72) Anthracene	17.663	178	1451249	20.338	ng	99
73) Carbazole	17.928	167	1326191	20.468	ng	99
74) Di-n-butylphthalate	18.457	149	1430613	20.176	ng	100
75) Fluoranthene	19.522	202	1787091	20.309	ng	100
77) Benzidine	19.692	184	568778	19.038	ng	98
78) Pyrene	19.875	202	1873915	20.138	ng	99
80) Butylbenzylphthalate	20.727	149	480313	18.907	ng	97
81) Benzo(a)anthracene	21.592	228	1934856	20.140	ng	99
82) 3,3'-Dichlorobenzidine	21.510	252	618557	20.365	ng	99
83) Chrysene	21.645	228	1848560	20.196	ng	100
84) Bis(2-ethylhexyl)phtha...	21.492	149	841635	19.458	ng	100
85) Di-n-octyl phthalate	22.474	149	1533037	19.409	ng	100
87) Indeno(1,2,3-cd)pyrene	26.898	276	2421888	19.951	ng	99
88) Benzo(b)fluoranthene	23.386	252	1964422	20.477	ng	99
89) Benzo(k)fluoranthene	23.439	252	1941694	20.207	ng	99
90) Benzo(a)pyrene	24.063	252	1914185	20.101	ng	99
91) Dibenzo(a,h)anthracene	26.921	278	2016395	20.011	ng	98
92) Benzo(g,h,i)perylene	27.739	276	1993206	19.917	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
Data File : BP013672.D
Acq On : 31 Jan 2023 13:04
Operator : CG/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Quant Time: Feb 01 03:01:58 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 01 02:57:10 2023
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
 Data File : BP013673.D
 Acq On : 31 Jan 2023 13:38
 Operator : CG/JU
 Sample : SSTDICCC040
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICCC040

Quant Time: Feb 01 03:02:45 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 01 02:57:10 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.140	152	222064	20.000	ng	0.00
21) Naphthalene-d8	10.969	136	832306	20.000	ng	0.00
39) Acenaphthene-d10	14.781	164	549003	20.000	ng	0.00
64) Phenanthrene-d10	17.533	188	1258361	20.000	ng	0.00
76) Chrysene-d12	21.610	240	1280889	20.000	ng	0.00
86) Perylene-d12	24.186	264	1494510	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.669	112	1077734	82.964	ng	0.00
7) Phenol-d6	7.287	99	1429683	82.610	ng	0.00
23) Nitrobenzene-d5	9.316	82	1197854	83.718	ng	0.00
42) 2,4,6-Tribromophenol	16.269	330	671410	81.537	ng	0.00
45) 2-Fluorobiphenyl	13.404	172	3202615	81.627	ng	0.00
79) Terphenyl-d14	20.063	244	5297061	82.120	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.517	88	222710	40.524	ng	100
3) Pyridine	3.934	79	666382	42.828	ng	100
4) n-Nitrosodimethylamine	3.834	42	233740	41.197	ng	100
6) Aniline	7.457	93	929847	41.214	ng	100
8) 2-Chlorophenol	7.699	128	564404	41.270	ng	100
9) Benzaldehyde	7.269	77	373258	42.688	ng	100
10) Phenol	7.316	94	748446	41.398	ng	100
11) bis(2-Chloroethyl)ether	7.552	93	589722	40.833	ng	100
12) 1,3-Dichlorobenzene	8.028	146	630619	40.935	ng	100
13) 1,4-Dichlorobenzene	8.175	146	638142	40.940	ng	100
14) 1,2-Dichlorobenzene	8.499	146	614332	41.187	ng	100
15) Benzyl Alcohol	8.381	79	511116	41.708	ng	100
16) 2,2'-oxybis(1-Chloropr...	8.675	45	691293	40.829	ng	100
17) 2-Methylphenol	8.581	107	527558	41.641	ng	100
18) Hexachloroethane	9.240	117	207339	40.339	ng	100
19) n-Nitroso-di-n-propyla...	8.952	70	458666	42.241	ng	100
20) 3+4-Methylphenols	8.910	107	719832	41.649	ng	100
22) Acetophenone	8.969	105	883213	40.693	ng	100
24) Nitrobenzene	9.357	77	644174	41.507	ng	100
25) Isophorone	9.887	82	1295693	40.857	ng	100
26) 2-Nitrophenol	10.075	139	272155	41.896	ng	100
27) 2,4-Dimethylphenol	10.128	122	527076	39.631	ng	100
28) bis(2-Chloroethoxy)met...	10.363	93	758692	39.915	ng	100
29) 2,4-Dichlorophenol	10.610	162	567631	40.748	ng	100
30) 1,2,4-Trichlorobenzene	10.828	180	618921	40.042	ng	100
31) Naphthalene	11.022	128	1763772	40.303	ng	100
32) Benzoic acid	10.246	122	386879	40.662	ng	100
33) 4-Chloroaniline	11.128	127	786258	40.889	ng	100
34) Hexachlorobutadiene	11.304	225	388480	39.594	ng	100
35) Caprolactam	11.910	113	185916	40.797	ng	100
36) 4-Chloro-3-methylphenol	12.234	107	595647	40.649	ng	100
37) 2-Methylnaphthalene	12.616	142	1319106	40.088	ng	100
38) 1-Methylnaphthalene	12.834	142	1236119	39.991	ng	100
40) 1,2,4,5-Tetrachloroben...	12.981	216	763524	40.736	ng	100
41) Hexachlorocyclopentadiene	12.957	237	340961	39.856	ng	100
43) 2,4,6-Trichlorophenol	13.216	196	511316	41.429	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
 Data File : BP013673.D
 Acq On : 31 Jan 2023 13:38
 Operator : CG/JU
 Sample : SSTDICCC040
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICCC040

Quant Time: Feb 01 03:02:45 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 01 02:57:10 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.287	196	596651	41.290	ng	100
46) 1,1'-Biphenyl	13.616	154	1689729	40.672	ng	100
47) 2-Chloronaphthalene	13.657	162	1307801	40.725	ng	100
48) 2-Nitroaniline	13.857	65	293611	42.788	ng	100
49) Acenaphthylene	14.504	152	2110366	40.750	ng	100
50) Dimethylphthalate	14.228	163	1723395	40.585	ng	100
51) 2,6-Dinitrotoluene	14.345	165	336022	44.275	ng	100
52) Acenaphthene	14.845	154	1345553	41.655	ng	100
53) 3-Nitroaniline	14.681	138	359021	43.376	ng	100
54) 2,4-Dinitrophenol	14.881	184	185402	40.138	ng	100
55) Dibenzofuran	15.175	168	2089455	40.044	ng	100
56) 4-Nitrophenol	14.975	139	302516	41.089	ng	100
57) 2,4-Dinitrotoluene	15.134	165	439259	44.103	ng	100
58) Fluorene	15.828	166	1652833	40.346	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.398	232	512200	40.762	ng	100
60) Diethylphthalate	15.586	149	1640284	40.293	ng	100
61) 4-Chlorophenyl-phenyle...	15.816	204	892211	39.994	ng	100
62) 4-Nitroaniline	15.839	138	360732	43.886	ng	100
63) Azobenzene	16.110	77	1531962	40.739	ng	100
65) 4,6-Dinitro-2-methylph...	15.892	198	268458	40.935	ng	100
66) n-Nitrosodiphenylamine	16.028	169	1470425	40.160	ng	100
67) 4-Bromophenyl-phenylether	16.710	248	579044	40.142	ng	100
68) Hexachlorobenzene	16.833	284	632460	39.595	ng	100
69) Atrazine	16.975	200	505947	42.466	ng	100
70) Pentachlorophenol	17.175	266	491204	41.689	ng	100
71) Phenanthrene	17.575	178	2704677	40.100	ng	100
72) Anthracene	17.663	178	2772105	40.710	ng	100
73) Carbazole	17.928	167	2514663	40.670	ng	100
74) Di-n-butylphthalate	18.463	149	2760119	40.793	ng	100
75) Fluoranthene	19.522	202	3387517	40.342	ng	100
77) Benzidine	19.692	184	1207090	43.630	ng	100
78) Pyrene	19.874	202	3529561	40.958	ng	100
80) Butylbenzylphthalate	20.733	149	968804	41.181	ng	100
81) Benzo(a)anthracene	21.592	228	3630899	40.811	ng	100
82) 3,3'-Dichlorobenzidine	21.516	252	1186038	42.166	ng	100
83) Chrysene	21.651	228	3438900	40.570	ng	100
84) Bis(2-ethylhexyl)phtha...	21.492	149	1648094	41.145	ng	100
85) Di-n-octyl phthalate	22.474	149	3004302	41.073	ng	100
87) Indeno(1,2,3-cd)pyrene	26.904	276	4572359	40.229	ng	100
88) Benzo(b)fluoranthene	23.392	252	3591203	39.981	ng	100
89) Benzo(k)fluoranthene	23.445	252	3729657	41.455	ng	100
90) Benzo(a)pyrene	24.074	252	3607697	40.462	ng	100
91) Dibenzo(a,h)anthracene	26.927	278	3806958	40.352	ng	100
92) Benzo(g,h,i)perylene	27.751	276	3759929	40.127	ng	100

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

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
 Data File : BP013674.D
 Acq On : 31 Jan 2023 14:12
 Operator : CG/JU
 Sample : SSTDICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :

BNA_P

ClientSampleId :

SSTDICC050

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 02/01/2023
 Supervised By :Jagrut Upadhyay 02/01/2023

Quant Time: Feb 01 03:03:34 2023

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Feb 01 02:57:10 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.140	152	261624	20.000	ng	0.00
21) Naphthalene-d8	10.969	136	981510	20.000	ng	0.00
39) Acenaphthene-d10	14.781	164	680781	20.000	ng	0.00
64) Phenanthrene-d10	17.528	188	1595373	20.000	ng	0.00
76) Chrysene-d12	21.610	240	1629059	20.000	ng	0.00
86) Perylene-d12	24.186	264	1903765	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.675	112	1517715	99.168	ng	0.00
7) Phenol-d6	7.293	99	2078037	101.917	ng	0.00
23) Nitrobenzene-d5	9.316	82	1878027	111.302	ng	0.00
42) 2,4,6-Tribromophenol	16.269	330	1098171	107.548	ng	0.00
45) 2-Fluorobiphenyl	13.404	172	4893896	100.589	ng	0.00
79) Terphenyl-d14	20.063	244	8315910	101.367	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.517	88	318151	49.136	ng	100
3) Pyridine	3.934	79	952156m	51.941	ng	
4) n-Nitrosodimethylamine	3.840	42	338916	50.701	ng	100
6) Aniline	7.464	93	1377107	51.809	ng	99
8) 2-Chlorophenol	7.705	128	817385	50.730	ng	97
9) Benzaldehyde	7.269	77	488356	47.406	ng	97
10) Phenol	7.317	94	1097966	51.548	ng	97
11) bis(2-Chloroethyl)ether	7.558	93	860417	50.568	ng	99
12) 1,3-Dichlorobenzene	8.028	146	898311	49.494	ng	99
13) 1,4-Dichlorobenzene	8.181	146	915048	49.828	ng	99
14) 1,2-Dichlorobenzene	8.505	146	884826	50.352	ng	99
15) Benzyl Alcohol	8.381	79	781191	54.107	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.669	45	1011906	50.728	ng	99
17) 2-Methylphenol	8.581	107	787068	52.731	ng	99
18) Hexachloroethane	9.240	117	308068	50.874	ng	97
19) n-Nitroso-di-n-propyla...	8.958	70	701867	54.865	ng	99
20) 3+4-Methylphenols	8.916	107	1085878	53.328	ng	97
22) Acetophenone	8.975	105	1323994	51.728	ng	99
24) Nitrobenzene	9.363	77	1004352	54.877	ng	99
25) Isophorone	9.893	82	1997215	53.404	ng	99
26) 2-Nitrophenol	10.075	139	440838	57.547	ng	98
27) 2,4-Dimethylphenol	10.128	122	796139	50.763	ng	99
28) bis(2-Chloroethoxy)met...	10.369	93	1171084	52.245	ng	99
29) 2,4-Dichlorophenol	10.610	162	873976	53.202	ng	99
30) 1,2,4-Trichlorobenzene	10.834	180	931303	51.092	ng	99
31) Naphthalene	11.022	128	2643433	51.221	ng	100
32) Benzoic acid	10.275	122	638926	56.945	ng	98
33) 4-Chloroaniline	11.128	127	1206262	53.195	ng	100
34) Hexachlorobutadiene	11.305	225	587740	50.796	ng	99
35) Caprolactam	11.928	113	300893	55.990	ng	98
36) 4-Chloro-3-methylphenol	12.234	107	948633	54.897	ng	99
37) 2-Methylnaphthalene	12.616	142	2021923	52.106	ng	98
38) 1-Methylnaphthalene	12.834	142	1902398	52.190	ng	99
40) 1,2,4,5-Tetrachloroben...	12.981	216	1195218	51.425	ng	100
41) Hexachlorocyclopentadiene	12.957	237	570184	53.749	ng	98
43) 2,4,6-Trichlorophenol	13.216	196	813719	53.169	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
 Data File : BP013674.D
 Acq On : 31 Jan 2023 14:12
 Operator : CG/JU
 Sample : SSTDICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :

BNA_P

ClientSampleId :

SSTDICC050

Manual Integrations

APPROVED

Reviewed By : Christian Giraldo 02/01/2023
 Supervised By : Jagrut Upadhyay 02/01/2023

Quant Time: Feb 01 03:03:34 2023

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Feb 01 02:57:10 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.287	196	956875	53.400	ng	99
46) 1,1'-Biphenyl	13.616	154	2613104	50.723	ng	99
47) 2-Chloronaphthalene	13.663	162	2021259	50.758	ng	98
48) 2-Nitroaniline	13.857	65	516160	60.660	ng	98
49) Acenaphthylene	14.504	152	3297830	51.354	ng	100
50) Dimethylphthalate	14.228	163	2737836	51.994	ng	100
51) 2,6-Dinitrotoluene	14.346	165	565632	60.102	ng	98
52) Acenaphthene	14.846	154	2120453m	52.938	ng	
53) 3-Nitroaniline	14.681	138	599344	58.395	ng	99
54) 2,4-Dinitrophenol	14.881	184	341966	59.703	ng	98
55) Dibenzofuran	15.175	168	3278450	50.669	ng	100
56) 4-Nitrophenol	14.975	139	510298	55.894	ng	99
57) 2,4-Dinitrotoluene	15.134	165	758342	61.402	ng	98
58) Fluorene	15.828	166	2562458	50.442	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.398	232	831714	53.378	ng	99
60) Diethylphthalate	15.587	149	2627662	52.054	ng	100
61) 4-Chlorophenyl-phenyle...	15.810	204	1414765	51.142	ng	98
62) 4-Nitroaniline	15.845	138	599897	58.856	ng	98
63) Azobenzene	16.110	77	2418862	51.872	ng	100
65) 4,6-Dinitro-2-methylph...	15.898	198	478118	57.504	ng	97
66) n-Nitrosodiphenylamine	16.028	169	2319177	49.961	ng	100
67) 4-Bromophenyl-phenylether	16.710	248	949098	51.897	ng	97
68) Hexachlorobenzene	16.834	284	1033964	51.057	ng	99
69) Atrazine	16.981	200	773369	51.200	ng	98
70) Pentachlorophenol	17.175	266	810907	54.284	ng	99
71) Phenanthrene	17.575	178	4271089	49.947	ng	99
72) Anthracene	17.663	178	4368916	50.607	ng	99
73) Carbazole	17.928	167	3962583	50.549	ng	100
74) Di-n-butylphthalate	18.463	149	4453352	51.914	ng	100
75) Fluoranthene	19.522	202	5407941	50.798	ng	99
77) Benzidine	19.692	184	1713013	48.683	ng	99
78) Pyrene	19.875	202	5590546	51.009	ng	99
80) Butylbenzylphthalate	20.728	149	1640706	54.836	ng	98
81) Benzo(a)anthracene	21.592	228	5788333	51.155	ng	99
82) 3,3'-Dichlorobenzidine	21.516	252	1894035	52.945	ng	99
83) Chrysene	21.651	228	5434199	50.407	ng	99
84) Bis(2-ethylhexyl)phtha...	21.492	149	2713414	53.262	ng	99
85) Di-n-octyl phthalate	22.475	149	4967366	53.397	ng	100
87) Indeno(1,2,3-cd)pyrene	26.915	276	7371359	50.913	ng	99
88) Benzo(b)fluoranthene	23.392	252	6004351	52.476	ng	99
89) Benzo(k)fluoranthene	23.445	252	5749175	50.165	ng	100
90) Benzo(a)pyrene	24.069	252	5821927	51.259	ng	99
91) Dibenzo(a,h)anthracene	26.933	278	6131103	51.016	ng	99
92) Benzo(g,h,i)perylene	27.757	276	6064549	50.808	ng	100

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

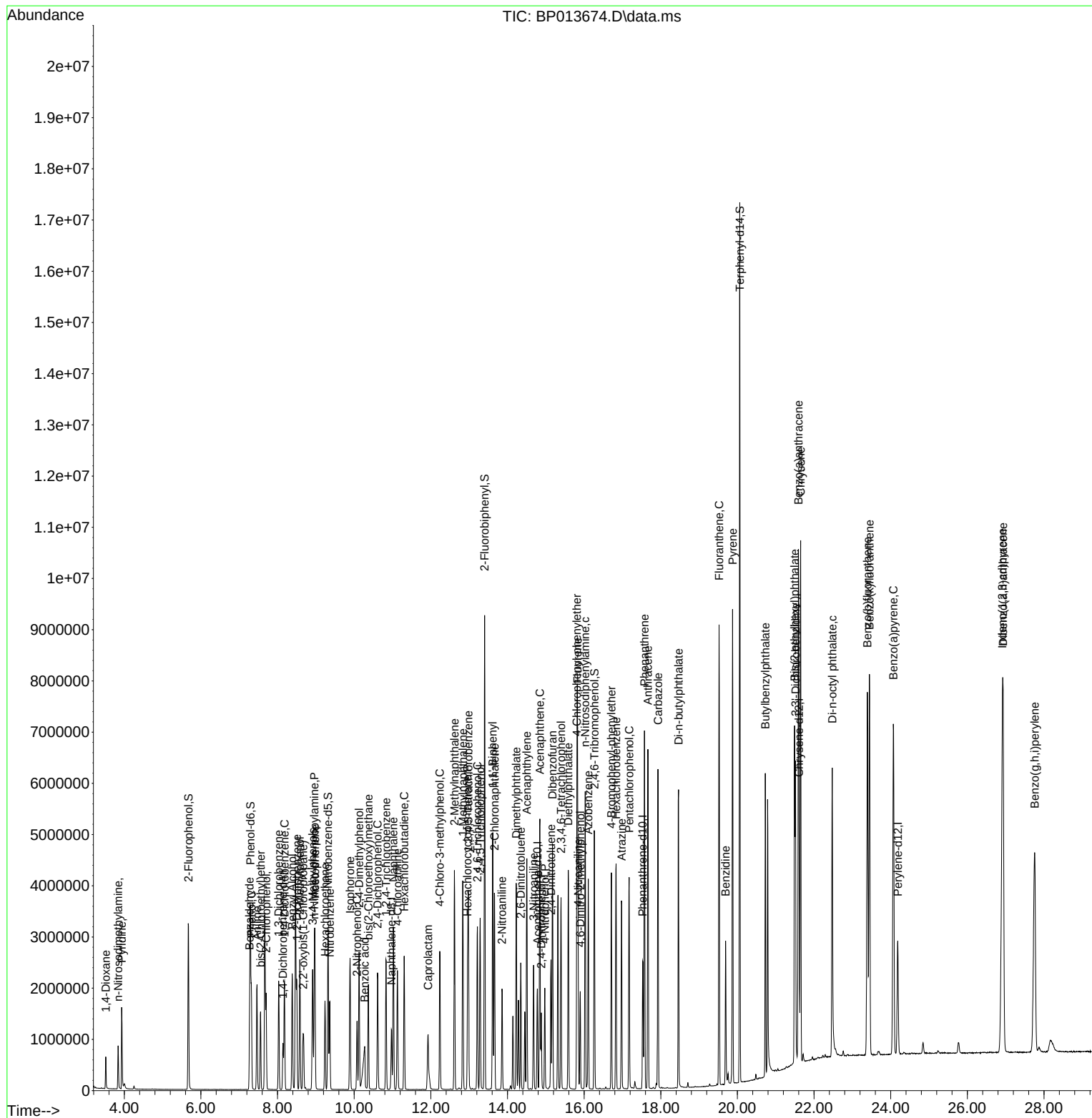
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
Data File : BP013674.D
Acq On : 31 Jan 2023 14:12
Operator : CG/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Christian Giraldo 02/01/2023
Supervised By :Jaqrut Upadhyay 02/01/2023

Quant Time: Feb 01 03:03:34 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 01 02:57:10 2023
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
 Data File : BP013675.D
 Acq On : 31 Jan 2023 14:47
 Operator : CG/JU
 Sample : SSTDICC060
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICC060

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 02/01/2023
 Supervised By : Jagrut Upadhyay 02/01/2023

Quant Time: Feb 01 03:04:23 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 01 02:57:10 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.140	152	260570	20.000	ng	0.00
21) Naphthalene-d8	10.975	136	916167	20.000	ng	0.00
39) Acenaphthene-d10	14.781	164	607852	20.000	ng	0.00
64) Phenanthrene-d10	17.533	188	1394011	20.000	ng	0.00
76) Chrysene-d12	21.610	240	1419624	20.000	ng	0.00
86) Perylene-d12	24.186	264	1662488	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.675	112	1746239	114.561	ng	0.00
7) Phenol-d6	7.293	99	2326105	114.545	ng	0.00
23) Nitrobenzene-d5	9.322	82	2070036	131.432	ng	0.00
42) 2,4,6-Tribromophenol	16.269	330	1142437	125.307	ng	0.00
45) 2-Fluorobiphenyl	13.404	172	5156538	118.703	ng	0.00
79) Terphenyl-d14	20.063	244	8478623	118.598	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.517	88	367280	56.953	ng	99
3) Pyridine	3.934	79	1057784m	57.937	ng	
4) n-Nitrosodimethylamine	3.840	42	388227	58.313	ng	96
6) Aniline	7.463	93	1523800	57.559	ng	100
8) 2-Chlorophenol	7.705	128	923072	57.521	ng	97
9) Benzaldehyde	7.269	77	521800m	50.857	ng	
10) Phenol	7.316	94	1214677	57.258	ng	97
11) bis(2-Chloroethyl)ether	7.557	93	965945	57.000	ng	98
12) 1,3-Dichlorobenzene	8.028	146	1026782	56.801	ng	99
13) 1,4-Dichlorobenzene	8.181	146	1046096	57.194	ng	99
14) 1,2-Dichlorobenzene	8.499	146	992600	56.714	ng	99
15) Benzyl Alcohol	8.381	79	860378	59.833	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.675	45	1116091	56.177	ng	99
17) 2-Methylphenol	8.581	107	858224	57.731	ng	99
18) Hexachloroethane	9.240	117	357928	59.347	ng	98
19) n-Nitroso-di-n-propyla...	8.957	70	748010	58.709	ng	98
20) 3+4-Methylphenols	8.916	107	1173755	57.877	ng	98
22) Acetophenone	8.975	105	1434753	60.054	ng	99
24) Nitrobenzene	9.363	77	1098251	64.288	ng	99
25) Isophorone	9.893	82	2108864	60.411	ng	100
26) 2-Nitrophenol	10.075	139	482585	67.490	ng	96
27) 2,4-Dimethylphenol	10.128	122	854793	58.390	ng	98
28) bis(2-Chloroethoxy)met...	10.369	93	1255035	59.984	ng	100
29) 2,4-Dichlorophenol	10.610	162	954587	62.253	ng	99
30) 1,2,4-Trichlorobenzene	10.834	180	1026986	60.360	ng	99
31) Naphthalene	11.022	128	2839540	58.946	ng	100
32) Benzoic acid	10.281	122	686594	65.558	ng	99
33) 4-Chloroaniline	11.128	127	1276248	60.296	ng	99
34) Hexachlorobutadiene	11.304	225	662943	61.382	ng	99
35) Caprolactam	11.928	113	310527	61.904	ng	98
36) 4-Chloro-3-methylphenol	12.234	107	992433	61.528	ng	100
37) 2-Methylnaphthalene	12.616	142	2165970	59.799	ng	99
38) 1-Methylnaphthalene	12.834	142	2029388	59.645	ng	100
40) 1,2,4,5-Tetrachloroben...	12.981	216	1285768	61.958	ng	100
41) Hexachlorocyclopentadiene	12.957	237	643896	67.980	ng	98
43) 2,4,6-Trichlorophenol	13.216	196	862228	63.098	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
 Data File : BP013675.D
 Acq On : 31 Jan 2023 14:47
 Operator : CG/JU
 Sample : SSTDICC060
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICC060

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 02/01/2023
 Supervised By : Jagrut Upadhyay 02/01/2023

Quant Time: Feb 01 03:04:23 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 01 02:57:10 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.287	196	1008486	63.033	ng	99
46) 1,1'-Biphenyl	13.616	154	2751462	59.816	ng	99
47) 2-Chloronaphthalene	13.663	162	2139035	60.160	ng	99
48) 2-Nitroaniline	13.857	65	546260	71.900	ng	98
49) Acenaphthylene	14.504	152	3466104	60.450	ng	99
50) Dimethylphthalate	14.228	163	2811702	59.804	ng	100
51) 2,6-Dinitrotoluene	14.351	165	591016	70.334	ng	96
52) Acenaphthene	14.845	154	2245118m	62.775	ng	
53) 3-Nitroaniline	14.681	138	625350	68.239	ng	98
54) 2,4-Dinitrophenol	14.881	184	359196	70.235	ng	99
55) Dibenzofuran	15.175	168	3435352	59.464	ng	99
56) 4-Nitrophenol	14.975	139	524119	64.296	ng	97
57) 2,4-Dinitrotoluene	15.134	165	794265	72.027	ng	99
58) Fluorene	15.828	166	2668499	58.832	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.398	232	861487	61.922	ng	99
60) Diethylphthalate	15.586	149	2685481	59.582	ng	100
61) 4-Chlorophenyl-phenyle...	15.816	204	1471252	59.565	ng	99
62) 4-Nitroaniline	15.845	138	625615	68.743	ng	96
63) Azobenzene	16.110	77	2502707	60.110	ng	99
65) 4,6-Dinitro-2-methylph...	15.898	198	497088	68.421	ng	98
66) n-Nitrosodiphenylamine	16.028	169	2402971	59.244	ng	99
67) 4-Bromophenyl-phenylether	16.710	248	979513	61.297	ng	99
68) Hexachlorobenzene	16.833	284	1076533	60.838	ng	99
69) Atrazine	16.981	200	780107	59.106	ng	99
70) Pentachlorophenol	17.175	266	838398	64.232	ng	99
71) Phenanthrene	17.575	178	4426219	59.238	ng	99
72) Anthracene	17.663	178	4516302	59.871	ng	99
73) Carbazole	17.928	167	4063121	59.319	ng	100
74) Di-n-butylphthalate	18.463	149	4564684	60.898	ng	100
75) Fluoranthene	19.522	202	5591911	60.114	ng	99
77) Benzidine	19.692	184	1670620	54.483	ng	100
78) Pyrene	19.874	202	5772082	60.435	ng	99
80) Butylbenzylphthalate	20.727	149	1694000	64.970	ng	96
81) Benzo(a)anthracene	21.592	228	5936908	60.209	ng	99
82) 3,3'-Dichlorobenzidine	21.516	252	1927065	61.815	ng	98
83) Chrysene	21.651	228	5637197	60.005	ng	100
84) Bis(2-ethylhexyl)phtha...	21.492	149	2779043	62.599	ng	100
85) Di-n-octyl phthalate	22.474	149	5103628	62.955	ng	99
87) Indeno(1,2,3-cd)pyrene	26.921	276	7635088	60.388	ng	99
88) Benzo(b)fluoranthene	23.392	252	6124811	61.298	ng	99
89) Benzo(k)fluoranthene	23.451	252	5984571	59.797	ng	100
90) Benzo(a)pyrene	24.074	252	6026342	60.760	ng	99
91) Dibenzo(a,h)anthracene	26.933	278	6338598	60.398	ng	99
92) Benzo(g,h,i)perylene	27.756	276	6272495	60.177	ng	100

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

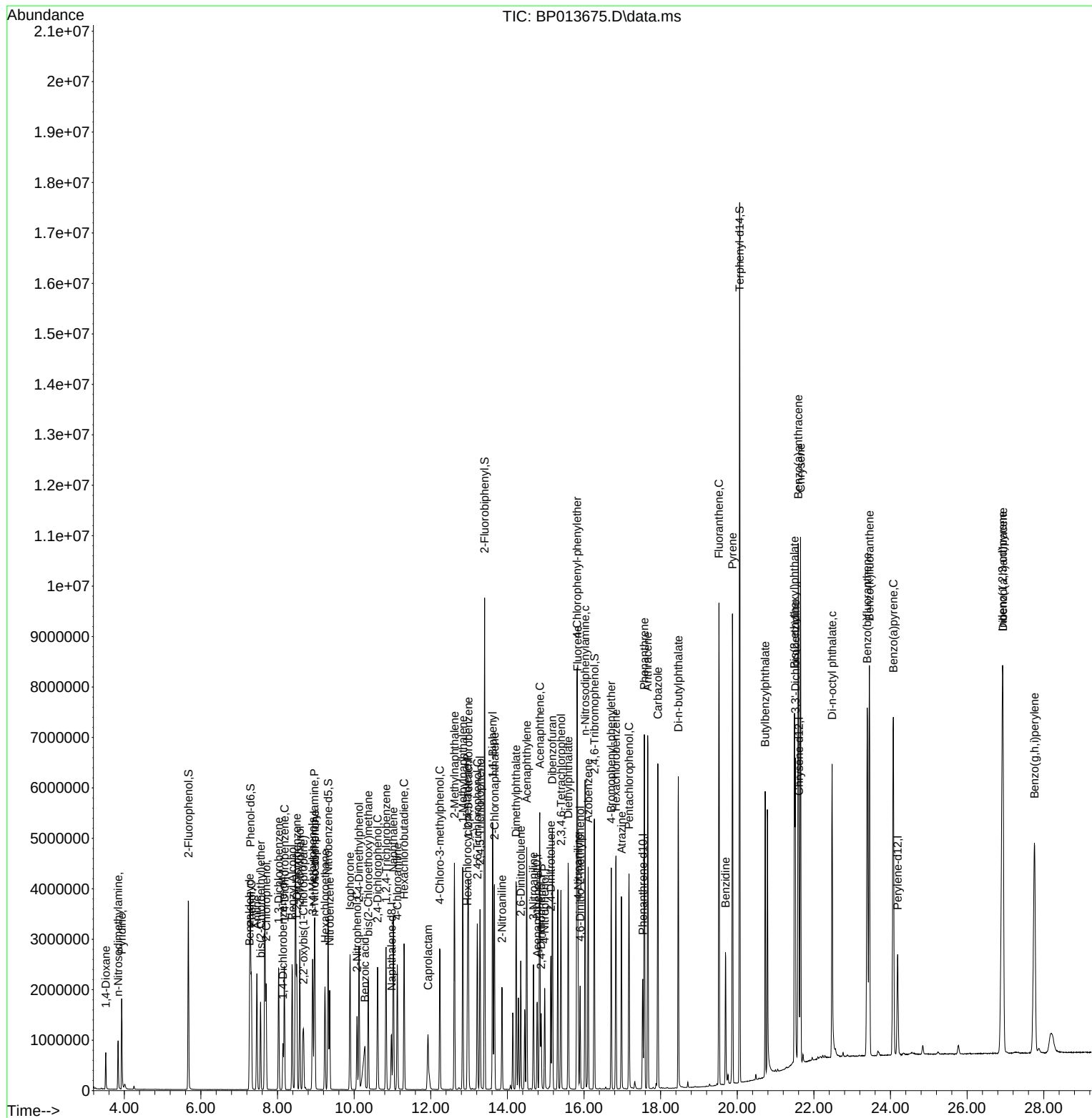
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
Data File : BP013675.D
Acq On : 31 Jan 2023 14:47
Operator : CG/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Christian Giraldo 02/01/2023
Supervised By :Jaqrut Upadhyay 02/01/2023

Quant Time: Feb 01 03:04:23 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 01 02:57:10 2023
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
 Data File : BP013676.D
 Acq On : 31 Jan 2023 15:56
 Operator : CG/JU
 Sample : SSTDICC080
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICC080

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 02/01/2023
 Supervised By : Jagrut Upadhyay 02/01/2023

Quant Time: Feb 01 03:05:13 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 01 02:57:10 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.146	152	298528	20.000	ng	0.00
21) Naphthalene-d8	10.975	136	1082866	20.000	ng	0.00
39) Acenaphthene-d10	14.781	164	726943	20.000	ng	0.00
64) Phenanthrene-d10	17.533	188	1683272	20.000	ng	0.00
76) Chrysene-d12	21.616	240	1694902	20.000	ng	0.00
86) Perylene-d12	24.186	264	1996328	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.675	112	2532413	145.013	ng	0.00
7) Phenol-d6	7.299	99	3467185	149.027	ng	0.01
23) Nitrobenzene-d5	9.322	82	3089195	165.946	ng	0.00
42) 2,4,6-Tribromophenol	16.269	330	1808965	165.909	ng	0.00
45) 2-Fluorobiphenyl	13.410	172	7654440	147.338	ng	0.00
79) Terphenyl-d14	20.063	244	12030071	140.945	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.516	88	516640	69.928	ng	100
3) Pyridine	3.934	79	1573226m	75.212	ng	
4) n-Nitrosodimethylamine	3.840	42	578641	75.863	ng	99
6) Aniline	7.463	93	2312593	76.247	ng	99
8) 2-Chlorophenol	7.704	128	1362776	74.124	ng	99
10) Phenol	7.322	94	1824845	75.082	ng	97
11) bis(2-Chloroethyl)ether	7.557	93	1445268	74.440	ng	98
12) 1,3-Dichlorobenzene	8.028	146	1507834	72.807	ng	98
13) 1,4-Dichlorobenzene	8.181	146	1526926	72.868	ng	99
14) 1,2-Dichlorobenzene	8.504	146	1439059	71.768	ng	100
15) Benzyl Alcohol	8.387	79	1309917	79.512	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.675	45	1660395	72.947	ng	99
17) 2-Methylphenol	8.587	107	1283256	75.346	ng	100
18) Hexachloroethane	9.240	117	524123	75.854	ng	98
19) n-Nitroso-di-n-propyla...	8.963	70	1125296	77.091	ng	98
20) 3+4-Methylphenols	8.922	107	1786595	76.894	ng	97
22) Acetophenone	8.975	105	2130147	75.435	ng	# 99
24) Nitrobenzene	9.363	77	1621379	80.299	ng	100
25) Isophorone	9.898	82	3186675	77.233	ng	99
26) 2-Nitrophenol	10.075	139	763965	90.393	ng	97
27) 2,4-Dimethylphenol	10.134	122	1300585	75.165	ng	99
28) bis(2-Chloroethoxy)met...	10.369	93	1867152	75.502	ng	100
29) 2,4-Dichlorophenol	10.616	162	1420568	78.381	ng	99
30) 1,2,4-Trichlorobenzene	10.834	180	1528345	75.999	ng	99
31) Naphthalene	11.028	128	4283821	75.238	ng	99
32) Benzoic acid	10.310	122	1094188	88.393	ng	98
33) 4-Chloroaniline	11.134	127	1935287	77.356	ng	99
34) Hexachlorobutadiene	11.304	225	989291	77.498	ng	99
35) Caprolactam	11.945	113	491554	82.907	ng	98
36) 4-Chloro-3-methylphenol	12.240	107	1537612	80.653	ng	99
37) 2-Methylnaphthalene	12.616	142	3288778	76.820	ng	99
38) 1-Methylnaphthalene	12.834	142	3075842	76.484	ng	99
40) 1,2,4,5-Tetrachloroben...	12.981	216	1981227	79.830	ng	100
41) Hexachlorocyclopentadiene	12.963	237	1037220	91.566	ng	99
43) 2,4,6-Trichlorophenol	13.216	196	1342762	82.165	ng	100
44) 2,4,5-Trichlorophenol	13.287	196	1579009	82.524	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
 Data File : BP013676.D
 Acq On : 31 Jan 2023 15:56
 Operator : CG/JU
 Sample : SSTDICC080
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICC080

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 02/01/2023
 Supervised By : Jagrut Upadhyay 02/01/2023

Quant Time: Feb 01 03:05:13 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 01 02:57:10 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) 1,1'-Biphenyl	13.616	154	4156782	75.563	ng	98
47) 2-Chloronaphthalene	13.663	162	3243548	76.280	ng	99
48) 2-Nitroaniline	13.863	65	898371	98.874	ng	98
49) Acenaphthylene	14.504	152	5277528	76.963	ng	99
50) Dimethylphthalate	14.234	163	4351297	77.388	ng	100
51) 2,6-Dinitrotoluene	14.351	165	943951	93.932	ng	99
52) Acenaphthene	14.845	154	3433737m	80.281	ng	
53) 3-Nitroaniline	14.686	138	989602	90.296	ng	98
54) 2,4-Dinitrophenol	14.886	184	611345	99.955	ng	100
55) Dibenzofuran	15.181	168	5202038	75.293	ng	99
56) 4-Nitrophenol	14.981	139	832374	85.383	ng	96
57) 2,4-Dinitrotoluene	15.139	165	1282272	97.231	ng	99
58) Fluorene	15.828	166	4025550	74.212	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.398	232	1353061	81.322	ng	98
60) Diethylphthalate	15.592	149	4143690	76.873	ng	99
61) 4-Chlorophenyl-phenyle...	15.816	204	2255594	76.359	ng	100
62) 4-Nitroaniline	15.851	138	999962	91.876	ng	95
63) Azobenzene	16.110	77	3812417	76.566	ng	99
65) 4,6-Dinitro-2-methylph...	15.904	198	832391	94.885	ng	95
66) n-Nitrosodiphenylamine	16.033	169	3655262	74.632	ng	100
67) 4-Bromophenyl-phenylether	16.716	248	1536530	79.631	ng	97
68) Hexachlorobenzene	16.833	284	1686140	78.914	ng	99
69) Atrazine	16.980	200	1196714	75.090	ng	99
70) Pentachlorophenol	17.175	266	1333345	84.597	ng	99
71) Phenanthrene	17.580	178	6722307	74.507	ng	99
72) Anthracene	17.669	178	6847662	75.178	ng	99
73) Carbazole	17.933	167	6173023	74.635	ng	100
74) Di-n-butylphthalate	18.463	149	6998638	77.325	ng	99
75) Fluoranthene	19.527	202	8497632	75.653	ng	99
77) Benzidine	19.698	184	2810789	76.778	ng	99
78) Pyrene	19.880	202	8707429	76.361	ng	98
80) Butylbenzylphthalate	20.733	149	2731280	87.739	ng	99
81) Benzo(a)anthracene	21.598	228	8991728	76.379	ng	99
82) 3,3'-Dichlorobenzidine	21.521	252	3003674	80.701	ng	98
83) Chrysene	21.657	228	8452800	75.362	ng	98
84) Bis(2-ethylhexyl)phtha...	21.492	149	4389795	82.821	ng	99
85) Di-n-octyl phthalate	22.474	149	7998084	82.636	ng	99
87) Indeno(1,2,3-cd)pyrene	26.933	276	11789503	77.653	ng	98
88) Benzo(b)fluoranthene	23.398	252	9303797	77.542	ng	99
89) Benzo(k)fluoranthene	23.451	252	9376557	78.022	ng	99
90) Benzo(a)pyrene	24.080	252	9323981	78.287	ng	99
91) Dibenzo(a,h)anthracene	26.945	278	9706093	77.019	ng	98
92) Benzo(g,h,i)perylene	27.774	276	9749115	77.890	ng	99

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


```

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
Data File : BP013676.D
Acq On    : 31 Jan 2023   15:56
Operator  : CG/JU
Sample    : SSTDICC080
Misc      :
ALS Vial  : 10    Sample Multiplier: 1

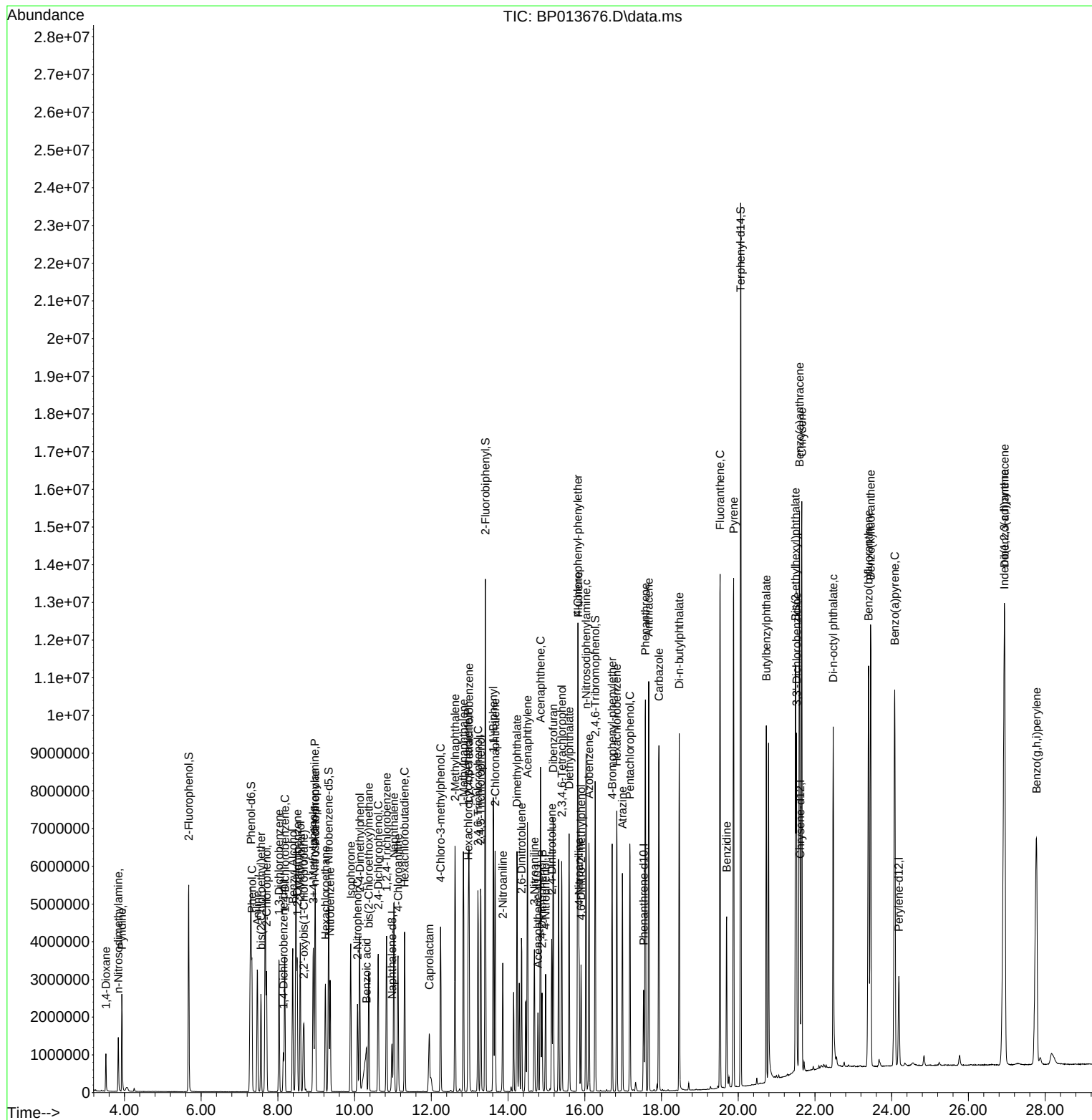
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Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Christian Giraldo 02/01/2023
Supervised By :Jaqrut Upadhyay 02/01/2023

Quant Time: Feb 01 03:05:13 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 01 02:57:10 2023
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
 Data File : BP013677.D
 Acq On : 31 Jan 2023 17:04
 Operator : CG/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :

BNA_P

ClientSampleId :

ICVBP013123

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 02/01/2023
 Supervised By :Jagrut Upadhyay 02/01/2023

Quant Time: Feb 01 04:11:36 2023

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Feb 01 03:43:48 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.140	152	208996	20.000	ng	0.00
21) Naphthalene-d8	10.969	136	778424	20.000	ng	0.00
39) Acenaphthene-d10	14.775	164	521017	20.000	ng	0.00
64) Phenanthrene-d10	17.528	188	1221175	20.000	ng	0.00
76) Chrysene-d12	21.610	240	1287651	20.000	ng	0.00
86) Perylene-d12	24.180	264	1499661	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.669	112	1010653	82.665	ng	0.00
7) Phenol-d6	7.287	99	1324179	81.298	ng	0.00
23) Nitrobenzene-d5	9.316	82	1155711	86.363	ng	0.00
42) 2,4,6-Tribromophenol	16.263	330	660087	84.468	ng	0.00
45) 2-Fluorobiphenyl	13.404	172	3011263	80.872	ng	0.00
79) Terphenyl-d14	20.057	244	5325714	82.130	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.517	88	206769	39.976	ng	99
3) Pyridine	3.934	79	591967	39.749	ng	98
4) n-Nitrosodimethylamine	3.834	42	213995	40.075	ng	97
6) Aniline	7.458	93	872925	41.110	ng	99
8) 2-Chlorophenol	7.699	128	524365	40.739	ng	99
9) Benzaldehyde	7.269	77	357593	42.434	ng	99
10) Phenol	7.316	94	691006	40.611	ng	99
11) bis(2-Chloroethyl)ether	7.552	93	541580	39.845	ng	99
12) 1,3-Dichlorobenzene	8.028	146	587363	40.511	ng	99
13) 1,4-Dichlorobenzene	8.175	146	596648	40.671	ng	100
14) 1,2-Dichlorobenzene	8.499	146	575668	41.009	ng	100
15) Benzyl Alcohol	8.381	79	483342	41.907	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.675	45	645151	40.641	ng	99
17) 2-Methylphenol	8.581	107	494013	41.432	ng	98
18) Hexachloroethane	9.234	117	197668	40.863	ng	96
19) n-Nitroso-di-n-propyla...	8.952	70	430421	42.119	ng	98
20) 3+4-Methylphenols	8.911	107	677606	41.657	ng	98
22) Acetophenone	8.969	105	831010	40.938	ng	# 99
24) Nitrobenzene	9.358	77	618536	42.614	ng	99
25) Isophorone	9.887	82	1203148	40.564	ng	99
26) 2-Nitrophenol	10.075	139	260166	39.244	ng	99
27) 2,4-Dimethylphenol	10.122	122	487328	40.713	ng	98
28) bis(2-Chloroethoxy)met...	10.363	93	707500	39.798	ng	99
29) 2,4-Dichlorophenol	10.610	162	536721	41.196	ng	99
30) 1,2,4-Trichlorobenzene	10.828	180	594262	41.108	ng	99
31) Naphthalene	11.022	128	1631599	39.863	ng	100
32) Benzoic acid	10.246	122	371544	39.559	ng	98
33) 4-Chloroaniline	11.122	127	733184	40.768	ng	99
34) Hexachlorobutadiene	11.304	225	368081	40.111	ng	98
35) Caprolactam	11.910	113	172075	40.217	ng	98
36) 4-Chloro-3-methylphenol	12.234	107	550213	40.148	ng	98
37) 2-Methylnaphthalene	12.616	142	1230602	39.987	ng	99
38) 1-Methylnaphthalene	12.834	142	1148180	39.717	ng	100
40) 1,2,4,5-Tetrachloroben...	12.975	216	724310	40.720	ng	100
41) Hexachlorocyclopentadiene	12.957	237	337986	41.631	ng	97
43) 2,4,6-Trichlorophenol	13.210	196	478690	40.869	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
 Data File : BP013677.D
 Acq On : 31 Jan 2023 17:04
 Operator : CG/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 ICVBP013123

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 02/01/2023
 Supervised By : Jagrut Upadhyay 02/01/2023

Quant Time: Feb 01 04:11:36 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 01 03:43:48 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.281	196	567879	41.409	ng	98
46) 1,1'-Biphenyl	13.610	154	1595269	40.461	ng	99
47) 2-Chloronaphthalene	13.657	162	1243081	40.788	ng	99
48) 2-Nitroaniline	13.857	65	292897	39.177	ng	99
49) Acenaphthylene	14.498	152	1999269	40.679	ng	99
50) Dimethylphthalate	14.228	163	1634098	40.549	ng	99
51) 2,6-Dinitrotoluene	14.345	165	327798	40.124	ng	98
52) Acenaphthene	14.840	154	1285541m	40.629	ng	
53) 3-Nitroaniline	14.675	138	349724	40.284	ng	98
54) 2,4-Dinitrophenol	14.881	184	186304	38.845	ng	99
55) Dibenzofuran	15.175	168	2004576	40.481	ng	99
56) 4-Nitrophenol	14.969	139	300789	43.049	ng	98
57) 2,4-Dinitrotoluene	15.128	165	431307	39.598	ng	96
58) Fluorene	15.822	166	1571613	40.424	ng	98
59) 2,3,4,6-Tetrachlorophenol	15.398	232	497757	41.741	ng	99
60) Diethylphthalate	15.587	149	1565452	40.521	ng	100
61) 4-Chlorophenyl-phenyle...	15.810	204	859697	40.607	ng	99
62) 4-Nitroaniline	15.840	138	356714	40.916	ng	96
63) Azobenzene	16.104	77	1456316	40.807	ng	99
65) 4,6-Dinitro-2-methylph...	15.892	198	265540	38.788	ng	98
66) n-Nitrosodiphenylamine	16.028	169	1416115	39.855	ng	99
67) 4-Bromophenyl-phenylether	16.710	248	567471	40.538	ng	97
68) Hexachlorobenzene	16.828	284	625521	40.353	ng	98
69) Atrazine	16.975	200	500670	43.303	ng	99
70) Pentachlorophenol	17.175	266	490533	42.900	ng	99
71) Phenanthrene	17.575	178	2636321	40.277	ng	100
72) Anthracene	17.663	178	2691430	40.729	ng	99
73) Carbazole	17.928	167	2434005	40.564	ng	99
74) Di-n-butylphthalate	18.457	149	2689433	40.958	ng	100
75) Fluoranthene	19.522	202	3340151	40.989	ng	99
77) Benzidine	19.692	184	1149993	41.348	ng	99
78) Pyrene	19.875	202	3471767	40.075	ng	100
80) Butylbenzylphthalate	20.728	149	990780	41.894	ng	98
81) Benzo(a)anthracene	21.592	228	3619980	40.474	ng	100
82) 3,3'-Dichlorobenzidine	21.510	252	1179403	41.710	ng	99
83) Chrysene	21.645	228	3434120	40.301	ng	100
84) Bis(2-ethylhexyl)phtha...	21.492	149	1633985	40.578	ng	99
85) Di-n-octyl phthalate	22.474	149	2979654	40.522	ng	100
87) Indeno(1,2,3-cd)pyrene	26.904	276	4609234	40.414	ng	100
88) Benzo(b)fluoranthene	23.392	252	3697076	41.018	ng	99
89) Benzo(k)fluoranthene	23.439	252	3669271	40.644	ng	100
90) Benzo(a)pyrene	24.069	252	3605440	40.298	ng	99
91) Dibenzo(a,h)anthracene	26.921	278	3846340	40.629	ng	99
92) Benzo(g,h,i)perylene	27.745	276	3797406	40.387	ng	99

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

```

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
Data File : BP013677.D
Acq On    : 31 Jan 2023   17:04
Operator  : CG/JU
Sample    : SSTDICV040
Misc      :
ALS Vial  : 12    Sample Multiplier: 1

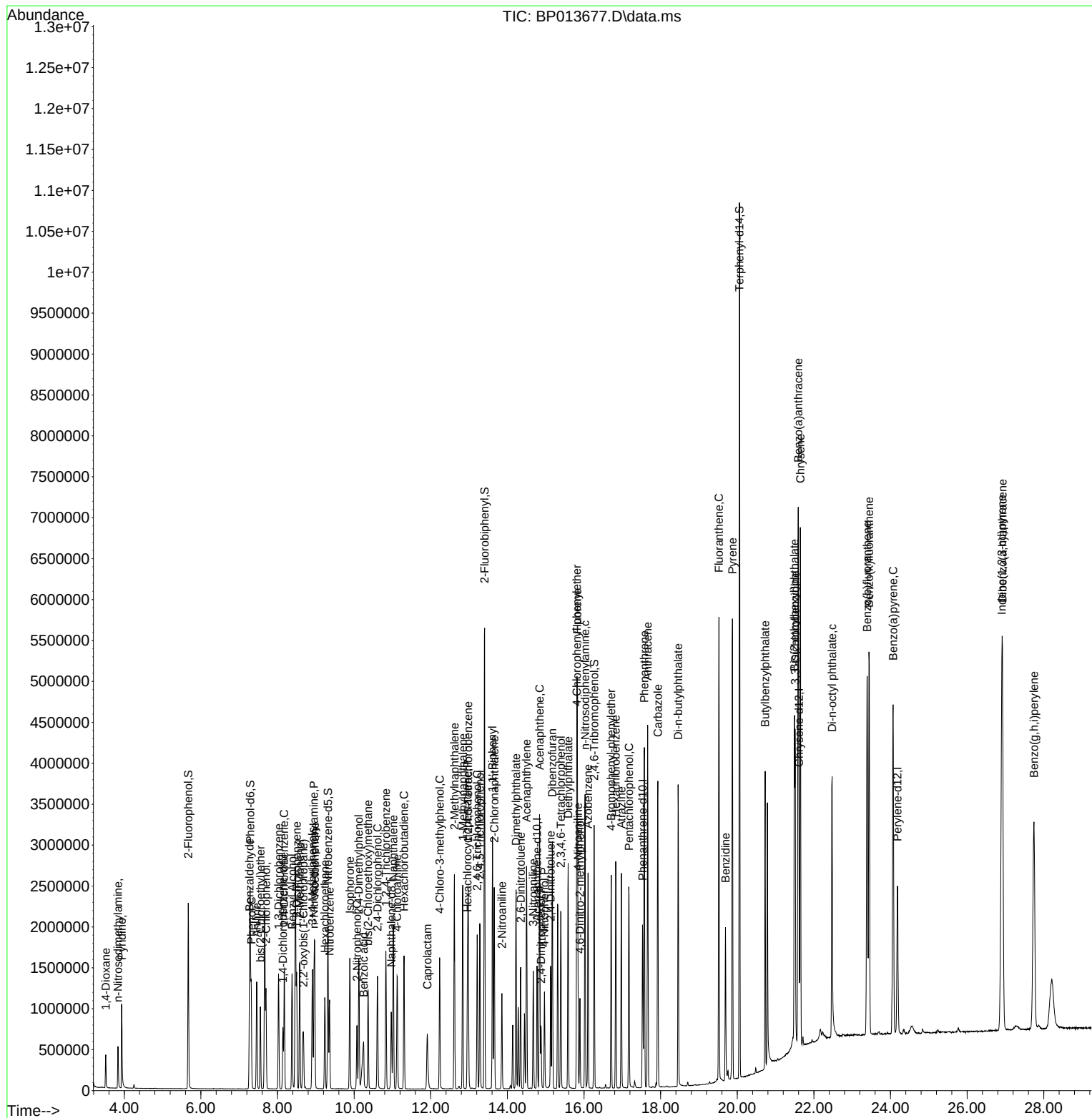
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Instrument :
BNA_P
ClientSampleId :
ICVBP013123

Manual Integrations APPROVED

Reviewed By :Christian Giraldo 02/01/2023
Supervised By :Jaqrut Upadhyay 02/01/2023

Quant Time: Feb 01 04:11:36 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 01 03:43:48 2023
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
 Data File : BP013677.D
 Acq On : 31 Jan 2023 17:04
 Operator : CG/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 ICVBP013123

Quant Time: Feb 01 04:11:36 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 01 03:43:48 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94	0.00
2	1,4-Dioxane	0.495	0.495	0.0	93	0.00
3	Pyridine	1.425	1.416	0.6	89	0.00
4	n-Nitrosodimethylamine	0.511	0.512	-0.2	92	0.00
5 S	2-Fluorophenol	1.170	1.209	-3.3	94	0.00
6	Aniline	2.032	2.088	-2.8	94	0.00
7 S	Phenol-d6	1.559	1.584	-1.6	93	0.00
8	2-Chlorophenol	1.232	1.254	-1.8	93	0.00
9	Benzaldehyde	0.895	0.856	4.4	96	0.00
10 C	Phenol	1.628	1.653	-1.5	92	0.00
11	bis(2-Chloroethyl)ether	1.301	1.296	0.4	92	0.00
12	1,3-Dichlorobenzene	1.387	1.405	-1.3	93	0.00
13 C	1,4-Dichlorobenzene	1.404	1.427	-1.6	93	0.00
14	1,2-Dichlorobenzene	1.343	1.377	-2.5	94	0.00
15	Benzyl Alcohol	1.104	1.156	-4.7	95	0.00
16	2,2'-oxybis(1-Chloropropane	1.519	1.543	-1.6	93	0.00
17	2-Methylphenol	1.141	1.182	-3.6	94	0.00
18	Hexachloroethane	0.463	0.473	-2.2	95	0.00
19 P	n-Nitroso-di-n-propylamine	0.978	1.030	-5.3	94	0.00
20	3+4-Methylphenols	1.557	1.621	-4.1	94	0.00
21 I	Naphthalene-d8	1.000	1.000	0.0	94	0.00
22	Acetophenone	0.522	0.534	-2.3	94	0.00
23 S	Nitrobenzene-d5	0.344	0.371	-7.8	96	0.00
24	Nitrobenzene	0.373	0.397	-6.4	96	0.00
25	Isophorone	0.762	0.773	-1.4	93	0.00
26 C	2-Nitrophenol	0.156	0.167	-7.1	96	0.00
27	2,4-Dimethylphenol	0.308	0.313	-1.6	92	0.00
28	bis(2-Chloroethoxy)methane	0.457	0.454	0.7	93	0.00
29 C	2,4-Dichlorophenol	0.335	0.345	-3.0	95	0.00
30	1,2,4-Trichlorobenzene	0.371	0.382	-3.0	96	0.00
31	Naphthalene	1.052	1.048	0.4	93	0.00
32	Benzoic acid	0.229	0.239	-4.4	96	0.00
33	4-Chloroaniline	0.462	0.471	-1.9	93	0.00
34 C	Hexachlorobutadiene	0.236	0.236	0.0	95	0.00
35	Caprolactam	0.110	0.111	-0.9	93	0.00
36 C	4-Chloro-3-methylphenol	0.352	0.353	-0.3	92	0.00
37	2-Methylnaphthalene	0.791	0.790	0.1	93	0.00
38	1-Methylnaphthalene	0.743	0.738	0.7	93	0.00
39 I	Acenaphthene-d10	1.000	1.000	0.0	95	0.00
40	1,2,4,5-Tetrachlorobenzene	0.683	0.695	-1.8	95	0.00
41 P	Hexachlorocyclopentadiene	0.312	0.324	-3.8	99	0.00
42 S	2,4,6-Tribromophenol	0.300	0.317	-5.7	98	0.00
43 C	2,4,6-Trichlorophenol	0.450	0.459	-2.0	94	0.00
44	2,4,5-Trichlorophenol	0.526	0.545	-3.6	95	0.00
45 S	2-Fluorobiphenyl	1.429	1.445	-1.1	94	0.00
46	1,1'-Biphenyl	1.513	1.531	-1.2	94	0.00
47	2-Chloronaphthalene	1.170	1.193	-2.0	95	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
 Data File : BP013677.D
 Acq On : 31 Jan 2023 17:04
 Operator : CG/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 ICVBP013123

Quant Time: Feb 01 04:11:36 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 01 03:43:48 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48	2-Nitroaniline	0.250	0.281	-12.4	100	0.00
49	Acenaphthylene	1.887	1.919	-1.7	95	0.00
50	Dimethylphthalate	1.547	1.568	-1.4	95	0.00
51	2,6-Dinitrotoluene	0.276	0.315	-14.1	98	0.00
52 C	Acenaphthene	1.215	1.234	-1.6	96	0.00
53	3-Nitroaniline	0.302	0.336	-11.3	97	0.00
54 P	2,4-Dinitrophenol	0.168	0.179	-6.5	100	0.00
55	Dibenzofuran	1.901	1.924	-1.2	96	0.00
56 P	4-Nitrophenol	0.268	0.289	-7.8	99	0.00
57	2,4-Dinitrotoluene	0.363	0.414	-14.0	98	0.00
58	Fluorene	1.492	1.508	-1.1	95	0.00
59	2,3,4,6-Tetrachlorophenol	0.458	0.478	-4.4	97	0.00
60	Diethylphthalate	1.483	1.502	-1.3	95	0.00
61	4-Chlorophenyl-phenylether	0.813	0.825	-1.5	96	0.00
62	4-Nitroaniline	0.299	0.342	-14.4	99	0.00
63	Azobenzene	1.370	1.398	-2.0	95	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	97	0.00
65	4,6-Dinitro-2-methylphenol	0.104	0.109	-4.8	99	0.00
66 c	n-Nitrosodiphenylamine	0.582	0.580	0.3	96	0.00
67	4-Bromophenyl-phenylether	0.229	0.232	-1.3	98	0.00
68	Hexachlorobenzene	0.254	0.256	-0.8	99	0.00
69	Atrazine	0.189	0.205	-8.5	99	0.00
70 C	Pentachlorophenol	0.187	0.201	-7.5	100	0.00
71	Phenanthrene	1.072	1.079	-0.7	97	0.00
72	Anthracene	1.082	1.102	-1.8	97	0.00
73	Carbazole	0.983	0.997	-1.4	97	0.00
74	Di-n-butylphthalate	1.075	1.101	-2.4	97	0.00
75 C	Fluoranthene	1.335	1.368	-2.5	99	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	101	0.00
77	Benzidine	0.432	0.447	-3.5	95	0.00
78	Pyrene	1.346	1.348	-0.1	98	0.00
79 S	Terphenyl-d14	1.007	1.034	-2.7	101	0.00
80	Butylbenzylphthalate	0.367	0.385	-4.9	102	0.00
81	Benzo(a)anthracene	1.389	1.406	-1.2	100	0.00
82	3,3'-Dichlorobenzidine	0.439	0.458	-4.3	99	0.00
83	Chrysene	1.324	1.333	-0.7	100	0.00
84	Bis(2-ethylhexyl)phthalate	0.625	0.634	-1.4	99	0.00
85 c	Di-n-octyl phthalate	1.142	1.157	-1.3	99	0.00
86 I	Perylene-d12	1.000	1.000	0.0	100	0.00
87	Indeno(1,2,3-cd)pyrene	1.521	1.537	-1.1	101	0.00
88	Benzo(b)fluoranthene	1.202	1.233	-2.6	103	0.00
89	Benzo(k)fluoranthene	1.204	1.223	-1.6	98	0.00
90 C	Benzo(a)pyrene	1.193	1.202	-0.8	100	0.00
91	Dibenzo(a,h)anthracene	1.263	1.282	-1.5	101	0.00
92	Benzo(g,h,i)perylene	1.254	1.266	-1.0	101	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
Data File : BP013677.D
Acq On : 31 Jan 2023 17:04
Operator : CG/JU
Sample : SSTDICV040
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP013123

Quant Time: Feb 01 04:11:36 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 01 03:43:48 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev Area	% Dev(min)

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
 Data File : BP013677.D
 Acq On : 31 Jan 2023 17:04
 Operator : CG/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 ICVBP013123

Quant Time: Feb 01 04:11:36 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 01 03:43:48 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	94	0.00
2	1,4-Dioxane	40.000	39.976	0.1	93	0.00
3	Pyridine	40.000	39.749	0.6	89	0.00
4	n-Nitrosodimethylamine	40.000	40.075	-0.2	92	0.00
5 S	2-Fluorophenol	80.000	82.665	-3.3	94	0.00
6	Aniline	40.000	41.110	-2.8	94	0.00
7 S	Phenol-d6	80.000	81.298	-1.6	93	0.00
8	2-Chlorophenol	40.000	40.739	-1.8	93	0.00
9	Benzaldehyde	40.000	42.434	-6.1	96	0.00
10 C	Phenol	40.000	40.611	-1.5	92	0.00
11	bis(2-Chloroethyl)ether	40.000	39.845	0.4	92	0.00
12	1,3-Dichlorobenzene	40.000	40.511	-1.3	93	0.00
13 C	1,4-Dichlorobenzene	40.000	40.671	-1.7	93	0.00
14	1,2-Dichlorobenzene	40.000	41.009	-2.5	94	0.00
15	Benzyl Alcohol	40.000	41.907	-4.8	95	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	40.641	-1.6	93	0.00
17	2-Methylphenol	40.000	41.432	-3.6	94	0.00
18	Hexachloroethane	40.000	40.863	-2.2	95	0.00
19 P	n-Nitroso-di-n-propylamine	40.000	42.119	-5.3	94	0.00
20	3+4-Methylphenols	40.000	41.657	-4.1	94	0.00
21 I	Naphthalene-d8	20.000	20.000	0.0	94	0.00
22	Acetophenone	40.000	40.938	-2.3	94	0.00
23 S	Nitrobenzene-d5	80.000	86.363	-8.0	96	0.00
24	Nitrobenzene	40.000	42.614	-6.5	96	0.00
25	Isophorone	40.000	40.564	-1.4	93	0.00
26 C	2-Nitrophenol	40.000	39.244	1.9	96	0.00
27	2,4-Dimethylphenol	40.000	40.713	-1.8	92	0.00
28	bis(2-Chloroethoxy)methane	40.000	39.798	0.5	93	0.00
29 C	2,4-Dichlorophenol	40.000	41.196	-3.0	95	0.00
30	1,2,4-Trichlorobenzene	40.000	41.108	-2.8	96	0.00
31	Naphthalene	40.000	39.863	0.3	93	0.00
32	Benzoic acid	40.000	39.559	1.1	96	0.00
33	4-Chloroaniline	40.000	40.768	-1.9	93	0.00
34 C	Hexachlorobutadiene	40.000	40.111	-0.3	95	0.00
35	Caprolactam	40.000	40.217	-0.5	93	0.00
36 C	4-Chloro-3-methylphenol	40.000	40.148	-0.4	92	0.00
37	2-Methylnaphthalene	40.000	39.987	0.0	93	0.00
38	1-Methylnaphthalene	40.000	39.717	0.7	93	0.00
39 I	Acenaphthene-d10	20.000	20.000	0.0	95	0.00
40	1,2,4,5-Tetrachlorobenzene	40.000	40.720	-1.8	95	0.00
41 P	Hexachlorocyclopentadiene	40.000	41.631	-4.1	99	0.00
42 S	2,4,6-Tribromophenol	80.000	84.468	-5.6	98	0.00
43 C	2,4,6-Trichlorophenol	40.000	40.869	-2.2	94	0.00
44	2,4,5-Trichlorophenol	40.000	41.409	-3.5	95	0.00
45 S	2-Fluorobiphenyl	80.000	80.872	-1.1	94	0.00
46	1,1'-Biphenyl	40.000	40.461	-1.2	94	0.00
47	2-Chloronaphthalene	40.000	40.788	-2.0	95	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
 Data File : BP013677.D
 Acq On : 31 Jan 2023 17:04
 Operator : CG/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 ICVBP013123

Quant Time: Feb 01 04:11:36 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 01 03:43:48 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48	2-Nitroaniline	40.000	39.177	2.1	100	0.00
49	Acenaphthylene	40.000	40.679	-1.7	95	0.00
50	Dimethylphthalate	40.000	40.549	-1.4	95	0.00
51	2,6-Dinitrotoluene	40.000	40.124	-0.3	98	0.00
52 C	Acenaphthene	40.000	40.629	-1.6	96	0.00
53	3-Nitroaniline	40.000	40.284	-0.7	97	0.00
54 P	2,4-Dinitrophenol	40.000	38.845	2.9	100	0.00
55	Dibenzofuran	40.000	40.481	-1.2	96	0.00
56 P	4-Nitrophenol	40.000	43.049	-7.6	99	0.00
57	2,4-Dinitrotoluene	40.000	39.598	1.0	98	0.00
58	Fluorene	40.000	40.424	-1.1	95	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	41.741	-4.4	97	0.00
60	Diethylphthalate	40.000	40.521	-1.3	95	0.00
61	4-Chlorophenyl-phenylether	40.000	40.607	-1.5	96	0.00
62	4-Nitroaniline	40.000	40.916	-2.3	99	0.00
63	Azobenzene	40.000	40.807	-2.0	95	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	97	0.00
65	4,6-Dinitro-2-methylphenol	40.000	38.788	3.0	99	0.00
66 c	n-Nitrosodiphenylamine	40.000	39.855	0.4	96	0.00
67	4-Bromophenyl-phenylether	40.000	40.538	-1.3	98	0.00
68	Hexachlorobenzene	40.000	40.353	-0.9	99	0.00
69	Atrazine	40.000	43.303	-8.3	99	0.00
70 C	Pentachlorophenol	40.000	42.900	-7.2	100	0.00
71	Phenanthrene	40.000	40.277	-0.7	97	0.00
72	Anthracene	40.000	40.729	-1.8	97	0.00
73	Carbazole	40.000	40.564	-1.4	97	0.00
74	Di-n-butylphthalate	40.000	40.958	-2.4	97	0.00
75 C	Fluoranthene	40.000	40.989	-2.5	99	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	101	0.00
77	Benzidine	40.000	41.348	-3.4	95	0.00
78	Pyrene	40.000	40.075	-0.2	98	0.00
79 S	Terphenyl-d14	80.000	82.130	-2.7	101	0.00
80	Butylbenzylphthalate	40.000	41.894	-4.7	102	0.00
81	Benzo(a)anthracene	40.000	40.474	-1.2	100	0.00
82	3,3'-Dichlorobenzidine	40.000	41.710	-4.3	99	0.00
83	Chrysene	40.000	40.301	-0.8	100	0.00
84	Bis(2-ethylhexyl)phthalate	40.000	40.578	-1.4	99	0.00
85 c	Di-n-octyl phthalate	40.000	40.522	-1.3	99	0.00
86 I	Perylene-d12	20.000	20.000	0.0	100	0.00
87	Indeno(1,2,3-cd)pyrene	40.000	40.414	-1.0	101	0.00
88	Benzo(b)fluoranthene	40.000	41.018	-2.5	103	0.00
89	Benzo(k)fluoranthene	40.000	40.644	-1.6	98	0.00
90 C	Benzo(a)pyrene	40.000	40.298	-0.7	100	0.00
91	Dibenzo(a,h)anthracene	40.000	40.629	-1.6	101	0.00
92	Benzo(g,h,i)perylene	40.000	40.387	-1.0	101	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
Data File : BP013677.D
Acq On : 31 Jan 2023 17:04
Operator : CG/JU
Sample : SSTDICV040
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP013123

Quant Time: Feb 01 04:11:36 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 01 03:43:48 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: loui01

Lab Code: CHEM Case No.: O1233 SAS No.: O1233 SDG No.: O1233

Instrument ID: BNA_F Calibration Date/Time: 01/20/2023 16:40

Lab File ID: BF132164.D Init. Calib. Date(s): 01/19/2023 01/19/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:21 15:11

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.145	1.115		-2.6	
Benzaldehyde	0.927	0.917		-1.1	
Phenol-d6	1.441	1.412		-2.0	
Phenol	1.500	1.494		-0.4	20.0
bis(2-Chloroethyl) ether	1.270	1.244		-2.0	
2-Chlorophenol	1.203	1.195		-0.7	
2-Methylphenol	1.054	1.045		-0.9	
2,2-oxybis(1-Chloropropane)	1.846	1.776		-3.8	
Acetophenone	0.481	0.460		-4.4	
3+4-Methylphenols	1.329	1.328		-0.1	
n-Nitroso-di-n-propylamine	0.883	0.833	0.050	-5.7	
Nitrobenzene-d5	0.376	0.393		4.5	
Hexachloroethane	0.482	0.488		1.2	
Nitrobenzene	0.399	0.408		2.3	
Isophorone	0.737	0.726		-1.5	
2-Nitrophenol	0.127	0.175		37.8	20.0
2,4-Dimethylphenol	0.319	0.319		0.0	
bis(2-Chloroethoxy) methane	0.442	0.434		-1.8	
2,4-Dichlorophenol	0.303	0.311		2.6	20.0
Naphthalene	1.027	1.008		-1.9	
4-Chloroaniline	0.440	0.445		1.1	
Hexachlorobutadiene	0.231	0.224		-3.0	20.0
Caprolactam	0.086	0.098		14.0	
4-Chloro-3-methylphenol	0.305	0.312		2.3	20.0
2-Methylnaphthalene	0.707	0.688		-2.7	
Hexachlorocyclopentadiene	0.380	0.382	0.050	0.5	
2,4,6-Trichlorophenol	0.432	0.453		4.9	20.0
2-Fluorobiphenyl	1.369	1.224		-10.6	
2,4,5-Trichlorophenol	0.505	0.523		3.6	
1,1-Biphenyl	1.578	1.498		-5.1	
2-Chloronaphthalene	1.220	1.186		-2.8	
2-Nitroaniline	0.351	0.417		18.8	
Dimethylphthalate	1.449	1.451		0.1	
Acenaphthylene	1.951	1.915		-1.8	
2,6-Dinitrotoluene	0.281	0.329		17.1	
3-Nitroaniline	0.300	0.354		18.0	
Acenaphthene	1.174	1.145		-2.5	20.0
2,4-Dinitrophenol	0.108	0.144	0.050	33.3	
4-Nitrophenol	0.218	0.262	0.050	20.2	
Dibenzofuran	1.814	1.750		-3.5	
2,4-Dinitrotoluene	0.337	0.414		22.8	



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: loui01
 Lab Code: CHEM Case No.: O1233 SAS No.: O1233 SDG No.: O1233
 Instrument ID: BNA_F Calibration Date/Time: 01/20/2023 16:40
 Lab File ID: BF132164.D Init. Calib. Date(s): 01/19/2023 01/19/2023
 EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:21 15:11
 GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.420	1.458		2.7	
4-Chlorophenyl-phenylether	0.720	0.700		-2.8	
Fluorene	1.344	1.292		-3.9	
4-Nitroaniline	0.279	0.333		19.4	
4,6-Dinitro-2-methylphenol	0.087	0.107		23.0	
n-Nitrosodiphenylamine	0.641	0.597		-6.9	20.0
2,4,6-Tribromophenol	0.214	0.231		7.9	
4-Bromophenyl-phenylether	0.244	0.229		-6.1	
Hexachlorobenzene	0.242	0.229		-5.4	
Atrazine	0.198	0.203		2.5	
Pentachlorophenol	0.156	0.174		11.5	20.0
Phenanthrene	1.050	1.000		-4.8	
Anthracene	1.062	1.012		-4.7	
Carbazole	0.907	0.914		0.8	
Di-n-butylphthalate	1.010	1.056		4.6	
Fluoranthene	1.078	1.118		3.7	20.0
Pyrene	1.843	1.942		5.4	
Terphenyl-d14	1.194	1.203		0.8	
Butylbenzylphthalate	0.534	0.671		25.7	
3,3-Dichlorobenzidine	0.398	0.413		3.8	
Benzo(a)anthracene	1.429	1.449		1.4	
Chrysene	1.360	1.334		-1.9	
Bis(2-ethylhexyl)phthalate	0.705	0.824		16.9	
Di-n-octyl phthalate	1.083	1.018		-6.0	20.0
Benzo(b)fluoranthene	1.218	1.276		4.8	
Benzo(k)fluoranthene	1.242	1.197		-3.6	
Benzo(a)pyrene	1.171	1.185		1.2	20.0
Indeno(1,2,3-cd)pyrene	1.451	1.547		6.6	
Dibenzo(a,h)anthracene	1.184	1.248		5.4	
Benzo(g,h,i)perylene	1.246	1.338		7.4	
1,2,4,5-Tetrachlorobenzene	0.696	0.669		-3.9	
1,4-Dioxane	0.580	0.596		2.8	20.0
2,3,4,6-Tetrachlorophenol	0.384	0.414		7.8	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
 Data File : BF132164.D
 Acq On : 20 Jan 2023 16:40
 Operator : CG\JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDCCC040

Manual Integrations APPROVED

Reviewed By : Christian Giraldo 01/23/2023
 Supervised By : Jagrut Upadhyay 01/23/2023

Quant Time: Jan 21 03:53:36 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 00:50:42 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.090	152	175584	20.000	ng	0.00
21) Naphthalene-d8	8.378	136	590884	20.000	ng	0.00
39) Acenaphthene-d10	10.142	164	314145	20.000	ng	0.00
64) Phenanthrene-d10	11.642	188	631542	20.000	ng	0.00
76) Chrysene-d12	14.307	240	364265	20.000	ng	0.00
86) Perylene-d12	15.901	264	316916	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.707	112	783256	77.926	ng	0.00
7) Phenol-d6	6.701	99	991931	78.397	ng	0.00
23) Nitrobenzene-d5	7.654	82	929182	83.538	ng	0.00
42) 2,4,6-Tribromophenol	10.936	330	290439	86.555	ng	0.00
45) 2-Fluorobiphenyl	9.454	172	1537809	71.530	ng	0.00
79) Terphenyl-d14	13.236	244	1753140	80.620	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.019	88	209354	41.113	ng	99
3) Pyridine	3.778	79	563820	41.245	ng	99
4) n-Nitrosodimethylamine	3.743	42	263601	41.002	ng	99
6) Aniline	6.754	93	692444	39.511	ng	99
8) 2-Chlorophenol	6.872	128	419812	39.735	ng	99
9) Benzaldehyde	6.642	77	321966	39.554	ng	99
10) Phenol	6.713	94	524478	39.818	ng	99
11) bis(2-Chloroethyl)ether	6.819	93	436932	39.184	ng	99
12) 1,3-Dichlorobenzene	7.031	146	452668	38.329	ng	99
13) 1,4-Dichlorobenzene	7.107	146	456734	38.757	ng	99
14) 1,2-Dichlorobenzene	7.266	146	421431	38.675	ng	98
15) Benzyl Alcohol	7.225	79	389314m	40.227	ng	
16) 2,2'-oxybis(1-Chloropr...	7.360	45	623784	38.490	ng	99
17) 2-Methylphenol	7.325	107	367095	39.660	ng	99
18) Hexachloroethane	7.607	117	171225	40.476	ng	98
19) n-Nitroso-di-n-propyla...	7.495	70	292458	37.735	ng	98
20) 3+4-Methylphenols	7.478	107	466332	39.983	ng	93
22) Acetophenone	7.495	105	544080	38.310	ng	96
24) Nitrobenzene	7.672	77	482635	40.981	ng	100
25) Isophorone	7.907	82	858522	39.448	ng	99
26) 2-Nitrophenol	7.989	139	207296	46.464	ng	99
27) 2,4-Dimethylphenol	8.013	122	376742	40.006	ng	99
28) bis(2-Chloroethoxy)met...	8.119	93	512581	39.255	ng	99
29) 2,4-Dichlorophenol	8.225	162	367359	41.089	ng	99
30) 1,2,4-Trichlorobenzene	8.319	180	396183	39.014	ng	99
31) Naphthalene	8.401	128	1191679	39.269	ng	99
32) Benzoic acid	8.107	122	267589m	43.447	ng	
33) 4-Chloroaniline	8.442	127	525672	40.479	ng	98
34) Hexachlorobutadiene	8.513	225	265244	38.882	ng	99
35) Caprolactam	8.813	113	116327	45.882	ng	99
36) 4-Chloro-3-methylphenol	8.913	107	368836	40.995	ng	98
37) 2-Methylnaphthalene	9.095	142	812781	38.901	ng	98
38) 1-Methylnaphthalene	9.195	142	750019	38.580	ng	99
40) 1,2,4,5-Tetrachloroben...	9.260	216	420230	38.447	ng	99
41) Hexachlorocyclopentadiene	9.242	237	239961	40.232	ng	96
43) 2,4,6-Trichlorophenol	9.366	196	284696	41.969	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
 Data File : BF132164.D
 Acq On : 20 Jan 2023 16:40
 Operator : CG\JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDCCC040

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 01/23/2023
 Supervised By : Jagrut Upadhyay 01/23/2023

Quant Time: Jan 21 03:53:36 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 00:50:42 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.401	196	328449	41.400	ng	98
46) 1,1'-Biphenyl	9.560	154	941310	37.981	ng	100
47) 2-Chloronaphthalene	9.589	162	745058	38.889	ng	100
48) 2-Nitroaniline	9.678	65	261720	42.996	ng	99
49) Acenaphthylene	10.007	152	1203173	39.256	ng	99
50) Dimethylphthalate	9.854	163	911609	40.067	ng	100
51) 2,6-Dinitrotoluene	9.919	165	206783	46.890	ng	99
52) Acenaphthene	10.178	154	719203	39.012	ng	98
53) 3-Nitroaniline	10.089	138	222119	47.109	ng	99
54) 2,4-Dinitrophenol	10.189	184	90478	46.708	ng	88
55) Dibenzofuran	10.354	168	1099571	38.595	ng	99
56) 4-Nitrophenol	10.230	139	164762	48.015	ng	96
57) 2,4-Dinitrotoluene	10.325	165	260362	49.185	ng	# 82
58) Fluorene	10.695	166	811964	38.463	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.460	232	260285	43.130	ng	99
60) Diethylphthalate	10.560	149	915944	41.052	ng	100
61) 4-Chlorophenyl-phenyle...	10.683	204	440094	38.932	ng	100
62) 4-Nitroaniline	10.707	138	209454	47.716	ng	98
63) Azobenzene	10.848	77	882720	39.420	ng	99
65) 4,6-Dinitro-2-methylph...	10.730	198	135744	44.460	ng	97
66) n-Nitrosodiphenylamine	10.801	169	754210	37.289	ng	99
67) 4-Bromophenyl-phenylether	11.177	248	288791	37.516	ng	98
68) Hexachlorobenzene	11.248	284	289841	37.885	ng	98
69) Atrazine	11.325	200	256252	41.064	ng	99
70) Pentachlorophenol	11.436	266	219432	44.633	ng	97
71) Phenanthrene	11.666	178	1263501	38.124	ng	100
72) Anthracene	11.719	178	1278169	38.122	ng	100
73) Carbazole	11.872	167	1154292	40.304	ng	100
74) Di-n-butylphthalate	12.195	149	1334437	41.855	ng	100
75) Fluoranthene	12.866	202	1412423	41.488	ng	99
77) Benzidine	12.983	184	522111	47.739	ng	98
78) Pyrene	13.101	202	1414545	42.136	ng	99
80) Butylbenzylphthalate	13.707	149	489012	44.913	ng	96
81) Benzo(a)anthracene	14.295	228	1055433	40.558	ng	99
82) 3,3'-Dichlorobenzidine	14.248	252	300596	41.477	ng	# 98
83) Chrysene	14.330	228	971594	39.224	ng	99
84) Bis(2-ethylhexyl)phtha...	14.266	149	600615	41.510	ng	100
85) Di-n-octyl phthalate	14.907	149	741305	37.242	ng	99
87) Indeno(1,2,3-cd)pyrene	17.565	276	980668	39.299	ng	100
88) Benzo(b)fluoranthene	15.418	252	808566	41.904	ng	99
89) Benzo(k)fluoranthene	15.454	252	758452	38.541	ng	100
90) Benzo(a)pyrene	15.830	252	750850	40.451	ng	99
91) Dibenzo(a,h)anthracene	17.583	278	790728	42.159	ng	98
92) Benzo(g,h,i)perylene	18.077	276	848184	39.619	ng	98

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

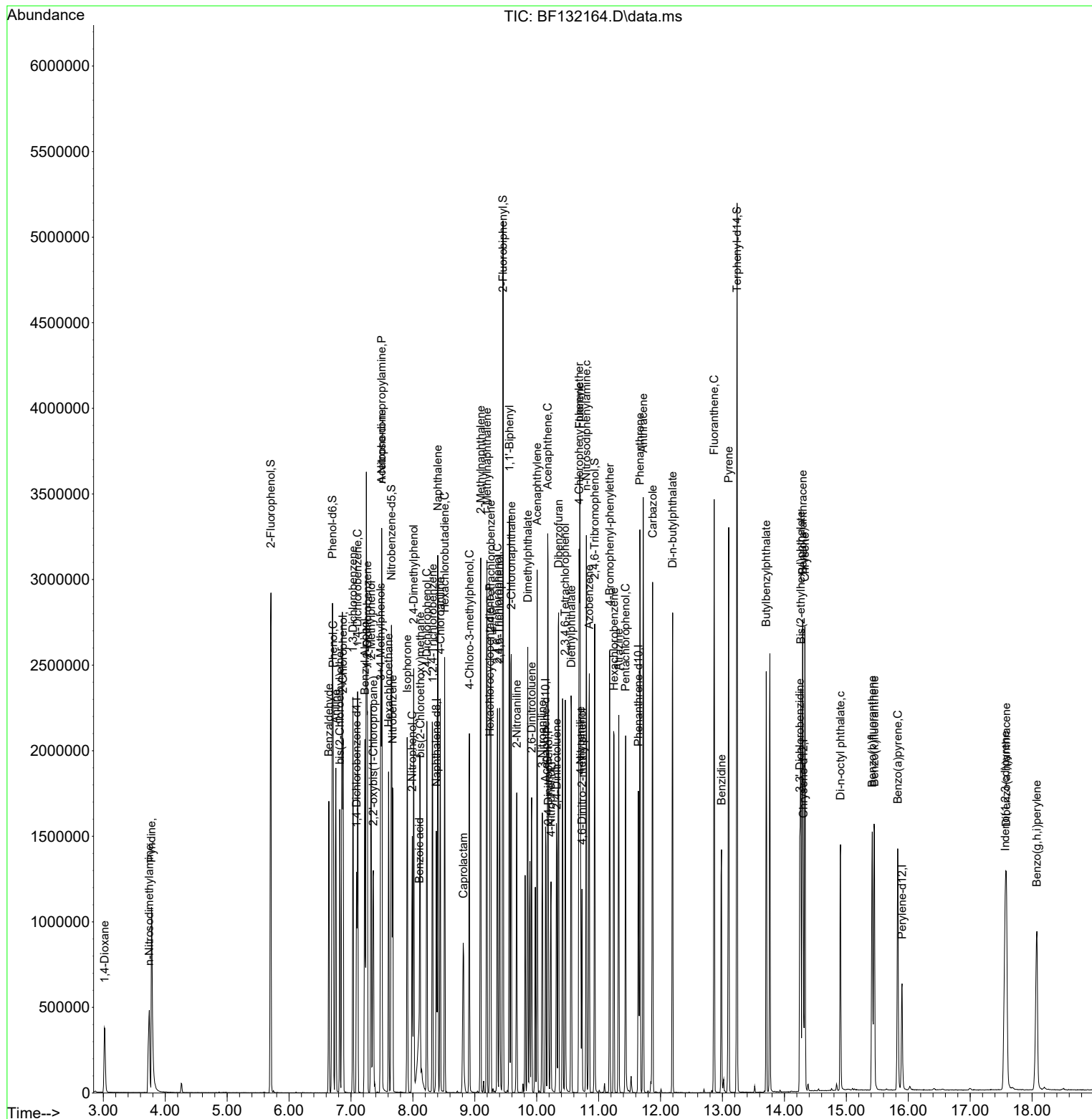
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\  
Data File : BF132164.D  
Acq On    : 20 Jan 2023  16:40  
Operator  : CG\JU  
Sample    : SSTDCCC040  
Misc      :  
ALS Vial  : 2    Sample Multiplier: 1
```

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations

Reviewed By :Christian Giraldo 01/23/2023
Supervised By :Jagrut Upadhyay 01/23/2023

Quant Time: Jan 21 03:53:36 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 20 00:50:42 2023
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 00:50:42 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	103	0.00
2	1,4-Dioxane	40.000	41.113	-2.8	106	0.00
3	Pyridine	40.000	41.245	-3.1	106	0.00
4	n-Nitrosodimethylamine	40.000	41.002	-2.5	106	0.00
5 S	2-Fluorophenol	80.000	77.926	2.6	103	0.00
6	Aniline	40.000	39.511	1.2	105	0.00
7 S	Phenol-d6	80.000	78.397	2.0	104	0.00
8	2-Chlorophenol	40.000	39.735	0.7	104	0.00
9	Benzaldehyde	40.000	39.554	1.1	105	0.00
10 C	Phenol	40.000	39.818	0.5	105	0.00
11	bis(2-Chloroethyl)ether	40.000	39.184	2.0	104	0.00
12	1,3-Dichlorobenzene	40.000	38.329	4.2	101	0.00
13 C	1,4-Dichlorobenzene	40.000	38.757	3.1	102	0.00
14	1,2-Dichlorobenzene	40.000	38.675	3.3	103	0.00
15	Benzyl Alcohol	40.000	40.227	-0.6	104	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	38.490	3.8	101	0.00
17	2-Methylphenol	40.000	39.660	0.9	104	0.00
18	Hexachloroethane	40.000	40.476	-1.2	103	0.00
19 P	n-Nitroso-di-n-propylamine	40.000	37.735	5.7	102	0.00
20	3+4-Methylphenols	40.000	39.983	0.0	104	0.00
21 I	Naphthalene-d8	20.000	20.000	0.0	103	0.00
22	Acetophenone	40.000	38.310	4.2	103	0.00
23 S	Nitrobenzene-d5	80.000	83.538	-4.4	106	0.00
24	Nitrobenzene	40.000	40.981	-2.5	103	0.00
25	Isophorone	40.000	39.448	1.4	104	0.00
26 C	2-Nitrophenol	40.000	46.464	-16.2	122	0.00
27	2,4-Dimethylphenol	40.000	40.006	-0.0	102	0.00
28	bis(2-Chloroethoxy)methane	40.000	39.255	1.9	104	0.00
29 C	2,4-Dichlorophenol	40.000	41.089	-2.7	104	0.00
30	1,2,4-Trichlorobenzene	40.000	39.014	2.5	102	0.00
31	Naphthalene	40.000	39.269	1.8	104	0.00
32	Benzoic acid	40.000	43.447	-8.6	124	0.00
33	4-Chloroaniline	40.000	40.479	-1.2	105	0.00
34 C	Hexachlorobutadiene	40.000	38.882	2.8	102	0.00
35	Caprolactam	40.000	45.882	-14.7	112	0.00
36 C	4-Chloro-3-methylphenol	40.000	40.995	-2.5	104	0.00
37	2-Methylnaphthalene	40.000	38.901	2.7	103	0.00
38	1-Methylnaphthalene	40.000	38.580	3.6	102	0.00
39 I	Acenaphthene-d10	20.000	20.000	0.0	105	0.00
40	1,2,4,5-Tetrachlorobenzene	40.000	38.447	3.9	102	0.00
41 P	Hexachlorocyclopentadiene	40.000	40.232	-0.6	103	0.00
42 S	2,4,6-Tribromophenol	80.000	86.555	-8.2	109	0.00
43 C	2,4,6-Trichlorophenol	40.000	41.969	-4.9	106	0.00
44	2,4,5-Trichlorophenol	40.000	41.400	-3.5	105	0.00
45 S	2-Fluorobiphenyl	80.000	71.530	10.6	103	0.00
46	1,1'-Biphenyl	40.000	37.981	5.0	102	0.00
47	2-Chloronaphthalene	40.000	38.889	2.8	104	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
 Data File : BF132164.D
 Acq On : 20 Jan 2023 16:40
 Operator : CG\JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Jan 21 03:53:36 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 00:50:42 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48	2-Nitroaniline	40.000	42.996	-7.5	115	0.00
49	Acenaphthylene	40.000	39.256	1.9	105	0.00
50	Dimethylphthalate	40.000	40.067	-0.2	106	0.00
51	2,6-Dinitrotoluene	40.000	46.890	-17.2	115	0.00
52 C	Acenaphthene	40.000	39.012	2.5	105	0.00
53	3-Nitroaniline	40.000	47.109	-17.8	115	0.00
54 P	2,4-Dinitrophenol	40.000	46.708	-16.8	136	0.00
55	Dibenzofuran	40.000	38.595	3.5	104	0.00
56 P	4-Nitrophenol	40.000	48.015	-20.0	119	0.00
57	2,4-Dinitrotoluene	40.000	49.185	-23.0	122	0.00
58	Fluorene	40.000	38.463	3.8	106	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	43.130	-7.8	107	0.00
60	Diethylphthalate	40.000	41.052	-2.6	107	0.00
61	4-Chlorophenyl-phenylether	40.000	38.932	2.7	104	0.00
62	4-Nitroaniline	40.000	47.716	-19.3	124	0.00
63	Azobenzene	40.000	39.420	1.4	105	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	111	0.00
65	4,6-Dinitro-2-methylphenol	40.000	44.460	-11.2	141	0.00
66 c	n-Nitrosodiphenylamine	40.000	37.289	6.8	107	0.00
67	4-Bromophenyl-phenylether	40.000	37.516	6.2	107	0.00
68	Hexachlorobenzene	40.000	37.885	5.3	108	0.00
69	Atrazine	40.000	41.064	-2.7	114	0.00
70 C	Pentachlorophenol	40.000	44.633	-11.6	118	0.00
71	Phenanthrene	40.000	38.124	4.7	111	0.00
72	Anthracene	40.000	38.122	4.7	111	0.00
73	Carbazole	40.000	40.304	-0.8	117	0.00
74	Di-n-butylphthalate	40.000	41.855	-4.6	118	0.00
75 C	Fluoranthene	40.000	41.488	-3.7	123	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	117	0.00
77	Benzydine	40.000	47.739	-19.3	123	0.00
78	Pyrene	40.000	42.136	-5.3	123	0.00
79 S	Terphenyl-d14	80.000	80.620	-0.8	122	0.00
80	Butylbenzylphthalate	40.000	44.913	-12.3	135	0.00
81	Benzo(a)anthracene	40.000	40.558	-1.4	121	0.00
82	3,3'-Dichlorobenzidine	40.000	41.477	-3.7	114	0.00
83	Chrysene	40.000	39.224	1.9	117	0.00
84	Bis(2-ethylhexyl)phthalate	40.000	41.510	-3.8	125	0.00
85 c	Di-n-octyl phthalate	40.000	37.242	6.9	109	0.00
86 I	Perylene-d12	20.000	20.000	0.0	99	0.00
87	Indeno(1,2,3-cd)pyrene	40.000	39.299	1.8	97	0.00
88	Benzo(b)fluoranthene	40.000	41.904	-4.8	102	0.00
89	Benzo(k)fluoranthene	40.000	38.541	3.6	97	0.00
90 C	Benzo(a)pyrene	40.000	40.451	-1.1	98	0.00
91	Dibenzo(a,h)anthracene	40.000	42.159	-5.4	95	0.00
92	Benzo(g,h,i)perylene	40.000	39.619	1.0	97	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132164.D
Acq On : 20 Jan 2023 16:40
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Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
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Quant Time: Jan 21 03:53:36 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 20 00:50:42 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
 Data File : BF132164.D
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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
2	1,4-Dioxane	0.580	0.596	-2.8	106	0.00
3	Pyridine	1.557	1.606	-3.1	106	0.00
4	n-Nitrosodimethylamine	0.732	0.751	-2.6	106	0.00
5 S	2-Fluorophenol	1.145	1.115	2.6	103	0.00
6	Aniline	1.996	1.972	1.2	105	0.00
7 S	Phenol-d6	1.441	1.412	2.0	104	0.00
8	2-Chlorophenol	1.203	1.195	0.7	104	0.00
9	Benzaldehyde	0.927	0.917	1.1	105	0.00
10 C	Phenol	1.500	1.494	0.4	105	0.00
11	bis(2-Chloroethyl)ether	1.270	1.244	2.0	104	0.00
12	1,3-Dichlorobenzene	1.345	1.289	4.2	101	0.00
13 C	1,4-Dichlorobenzene	1.342	1.301	3.1	102	0.00
14	1,2-Dichlorobenzene	1.241	1.200	3.3	103	0.00
15	Benzyl Alcohol	1.102	1.109	-0.6	104	0.00
16	2,2'-oxybis(1-Chloropropane	1.846	1.776	3.8	101	0.00
17	2-Methylphenol	1.054	1.045	0.9	104	0.00
18	Hexachloroethane	0.482	0.488	-1.2	103	0.00
19 P	n-Nitroso-di-n-propylamine	0.883	0.833	5.7	102	0.00
20	3+4-Methylphenols	1.328	1.328	0.0	104	0.00
21 I	Naphthalene-d8	1.000	1.000	0.0	103	0.00
22	Acetophenone	0.481	0.460	4.4	103	0.00
23 S	Nitrobenzene-d5	0.376	0.393	-4.5	106	0.00
24	Nitrobenzene	0.399	0.408	-2.3	103	0.00
25	Isophorone	0.737	0.726	1.5	104	0.00
26 C	2-Nitrophenol	0.127	0.175	-37.8#	122	0.00
27	2,4-Dimethylphenol	0.319	0.319	0.0	102	0.00
28	bis(2-Chloroethoxy)methane	0.442	0.434	1.8	104	0.00
29 C	2,4-Dichlorophenol	0.303	0.311	-2.6	104	0.00
30	1,2,4-Trichlorobenzene	0.344	0.335	2.6	102	0.00
31	Naphthalene	1.027	1.008	1.9	104	0.00
32	Benzoic acid	0.187	0.226	-20.9	124	0.00
33	4-Chloroaniline	0.440	0.445	-1.1	105	0.00
34 C	Hexachlorobutadiene	0.231	0.224	3.0	102	0.00
35	Caprolactam	0.086	0.098	-14.0	112	0.00
36 C	4-Chloro-3-methylphenol	0.305	0.312	-2.3	104	0.00
37	2-Methylnaphthalene	0.707	0.688	2.7	103	0.00
38	1-Methylnaphthalene	0.658	0.635	3.5	102	0.00
39 I	Acenaphthene-d10	1.000	1.000	0.0	105	0.00
40	1,2,4,5-Tetrachlorobenzene	0.696	0.669	3.9	102	0.00
41 P	Hexachlorocyclopentadiene	0.380	0.382	-0.5	103	0.00
42 S	2,4,6-Tribromophenol	0.214	0.231	-7.9	109	0.00
43 C	2,4,6-Trichlorophenol	0.432	0.453	-4.9	106	0.00
44	2,4,5-Trichlorophenol	0.505	0.523	-3.6	105	0.00
45 S	2-Fluorobiphenyl	1.369	1.224	10.6	103	0.00
46	1,1'-Biphenyl	1.578	1.498	5.1	102	0.00
47	2-Chloronaphthalene	1.220	1.186	2.8	104	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
 Data File : BF132164.D
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 Operator : CG\JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
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 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48	2-Nitroaniline	0.351	0.417	-18.8	115	0.00
49	Acenaphthylene	1.951	1.915	1.8	105	0.00
50	Dimethylphthalate	1.449	1.451	-0.1	106	0.00
51	2,6-Dinitrotoluene	0.281	0.329	-17.1	115	0.00
52 C	Acenaphthene	1.174	1.145	2.5	105	0.00
53	3-Nitroaniline	0.300	0.354	-18.0	115	0.00
54 P	2,4-Dinitrophenol	0.108	0.144	-33.3#	136	0.00
55	Dibenzofuran	1.814	1.750	3.5	104	0.00
56 P	4-Nitrophenol	0.218	0.262	-20.2	119	0.00
57	2,4-Dinitrotoluene	0.337	0.414	-22.8	122	0.00
58	Fluorene	1.344	1.292	3.9	106	0.00
59	2,3,4,6-Tetrachlorophenol	0.384	0.414	-7.8	107	0.00
60	Diethylphthalate	1.420	1.458	-2.7	107	0.00
61	4-Chlorophenyl-phenylether	0.720	0.700	2.8	104	0.00
62	4-Nitroaniline	0.279	0.333	-19.4	124	0.00
63	Azobenzene	1.426	1.405	1.5	105	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	111	0.00
65	4,6-Dinitro-2-methylphenol	0.087	0.107	-23.0	141	0.00
66 c	n-Nitrosodiphenylamine	0.641	0.597	6.9	107	0.00
67	4-Bromophenyl-phenylether	0.244	0.229	6.1	107	0.00
68	Hexachlorobenzene	0.242	0.229	5.4	108	0.00
69	Atrazine	0.198	0.203	-2.5	114	0.00
70 C	Pentachlorophenol	0.156	0.174	-11.5	118	0.00
71	Phenanthrene	1.050	1.000	4.8	111	0.00
72	Anthracene	1.062	1.012	4.7	111	0.00
73	Carbazole	0.907	0.914	-0.8	117	0.00
74	Di-n-butylphthalate	1.010	1.056	-4.6	118	0.00
75 C	Fluoranthene	1.078	1.118	-3.7	123	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	117	0.00
77	Benzydine	0.600	0.717	-19.5	123	0.00
78	Pyrene	1.843	1.942	-5.4	123	0.00
79 S	Terphenyl-d14	1.194	1.203	-0.8	122	0.00
80	Butylbenzylphthalate	0.534	0.671	-25.7#	135	0.00
81	Benzo(a)anthracene	1.429	1.449	-1.4	121	0.00
82	3,3'-Dichlorobenzidine	0.398	0.413	-3.8	114	0.00
83	Chrysene	1.360	1.334	1.9	117	0.00
84	Bis(2-ethylhexyl)phthalate	0.705	0.824	-16.9	125	0.00
85 c	Di-n-octyl phthalate	1.083	1.018	6.0	109	0.00
86 I	Perylene-d12	1.000	1.000	0.0	99	0.00
87	Indeno(1,2,3-cd)pyrene	1.451	1.547	-6.6	97	0.00
88	Benzo(b)fluoranthene	1.218	1.276	-4.8	102	0.00
89	Benzo(k)fluoranthene	1.242	1.197	3.6	97	0.00
90 C	Benzo(a)pyrene	1.171	1.185	-1.2	98	0.00
91	Dibenzo(a,h)anthracene	1.184	1.248	-5.4	95	0.00
92	Benzo(g,h,i)perylene	1.246	1.338	-7.4	97	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132164.D
Acq On : 20 Jan 2023 16:40
Operator : CG\JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jan 21 03:53:36 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 20 00:50:42 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev Area	% Dev(min)

(#) = Out of Range

SPCC's out = 0 CCC's out = 1



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: loui01
 Lab Code: CHEM Case No.: O1233 SAS No.: O1233 SDG No.: O1233
 Instrument ID: BNA_G Calibration Date/Time: 01/23/2023 11:41
 Lab File ID: BG056380.D Init. Calib. Date(s): 12/27/2022 12/27/2022
 EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 14:55 19:42
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.120	1.132		1.1	
Benzaldehyde	1.023	0.872		-14.8	
Phenol-d6	1.720	1.744		1.4	
Phenol	1.745	1.758		0.7	20.0
bis(2-Chloroethyl) ether	1.182	1.213		2.6	
2-Chlorophenol	1.115	1.201		7.7	
2-Methylphenol	1.280	1.321		3.2	
2,2-oxybis(1-Chloropropane)	0.209	0.293		40.2	
Acetophenone	0.566	0.559		-1.2	
3+4-Methylphenols	1.800	1.881		4.5	
n-Nitroso-di-n-propylamine	1.046	1.021	0.050	-2.4	
Nitrobenzene-d5	0.391	0.386		-1.3	
Hexachloroethane	0.414	0.443		7.0	
Nitrobenzene	0.387	0.377		-2.6	
Isophorone	0.823	0.791		-3.9	
2-Nitrophenol	0.198	0.207		4.5	20.0
2,4-Dimethylphenol	0.362	0.362		0.0	
bis(2-Chloroethoxy) methane	0.428	0.424		-0.9	
2,4-Dichlorophenol	0.400	0.401		0.3	20.0
Naphthalene	1.053	1.098		4.3	
4-Chloroaniline	0.503	0.527		4.8	
Hexachlorobutadiene	0.326	0.297		-8.9	20.0
Caprolactam	0.135	0.146		8.1	
4-Chloro-3-methylphenol	0.406	0.419		3.2	20.0
2-Methylnaphthalene	0.889	0.891		0.2	
Hexachlorocyclopentadiene	0.427	0.348	0.050	-18.5	
2,4,6-Trichlorophenol	0.496	0.488		-1.6	20.0
2-Fluorobiphenyl	1.448	1.434		-1.0	
2,4,5-Trichlorophenol	0.586	0.576		-1.7	
1,1-Biphenyl	1.432	1.478		3.2	
2-Chloronaphthalene	1.131	1.161		2.7	
2-Nitroaniline	0.241	0.275		14.1	
Dimethylphthalate	1.615	1.659		2.7	
Acenaphthylene	1.840	1.914		4.0	
2,6-Dinitrotoluene	0.344	0.365		6.1	
3-Nitroaniline	0.327	0.367		12.2	
Acenaphthene	1.197	1.258		5.1	20.0
2,4-Dinitrophenol	0.246	0.234	0.050	-4.9	
4-Nitrophenol	0.252	0.260	0.050	3.2	
Dibenzofuran	1.980	2.038		2.9	
2,4-Dinitrotoluene	0.481	0.526		9.4	



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: loui01
 Lab Code: CHEM Case No.: O1233 SAS No.: O1233 SDG No.: O1233
 Instrument ID: BNA_G Calibration Date/Time: 01/23/2023 11:41
 Lab File ID: BG056380.D Init. Calib. Date(s): 12/27/2022 12/27/2022
 EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 14:55 19:42
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.514	1.580		4.4	
4-Chlorophenyl-phenylether	0.994	0.999		0.5	
Fluorene	1.593	1.630		2.3	
4-Nitroaniline	0.335	0.371		10.7	
4,6-Dinitro-2-methylphenol	0.135	0.142		5.2	
n-Nitrosodiphenylamine	0.555	0.581		4.7	20.0
2,4,6-Tribromophenol	0.253	0.268		5.9	
4-Bromophenyl-phenylether	0.255	0.261		2.4	
Hexachlorobenzene	0.238	0.252		5.9	
Atrazine	0.230	0.230		0.0	
Pentachlorophenol	0.183	0.160		-12.6	20.0
Phenanthrene	1.036	1.065		2.8	
Anthracene	1.069	1.095		2.4	
Carbazole	0.899	0.921		2.4	
Di-n-butylphthalate	0.896	0.949		5.9	
Fluoranthene	1.352	1.259		-6.9	20.0
Pyrene	1.410	1.502		6.5	
Terphenyl-d14	1.117	1.177		5.4	
Butylbenzylphthalate	0.404	0.436		7.9	
3,3-Dichlorobenzidine	0.506	0.512		1.2	
Benzo(a)anthracene	1.405	1.445		2.8	
Chrysene	1.316	1.353		2.8	
Bis(2-ethylhexyl)phthalate	0.583	0.620		6.3	
Di-n-octyl phthalate	0.984	1.042		5.9	20.0
Benzo(b)fluoranthene	1.271	1.279		0.6	
Benzo(k)fluoranthene	1.265	1.269		0.3	
Benzo(a)pyrene	1.239	1.250		0.9	20.0
Indeno(1,2,3-cd)pyrene	1.455	1.493		2.5	
Dibenzo(a,h)anthracene	1.219	1.257		3.1	
Benzo(g,h,i)perylene	1.183	1.213		2.5	
1,2,4,5-Tetrachlorobenzene	0.750	0.733		-2.3	
1,4-Dioxane	0.512	0.460		-10.2	20.0
2,3,4,6-Tetrachlorophenol	0.551	0.508		-7.8	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG012323\
 Data File : BG056380.D
 Acq On : 23 Jan 2023 11:41
 Operator : CG/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_G

ClientSampleId :

SSTDCCC040

Manual Integrations

APPROVED

Reviewed By : Christian Giraldo 01/24/2023
 Supervised By : Jagrut Upadhyay 01/24/2023

Quant Time: Jan 24 01:18:36 2023

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Jan 19 00:31:30 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.299	152	35880	20.000	ng	0.00
21) Naphthalene-d8	11.137	136	143339	20.000	ng	0.00
39) Acenaphthene-d10	14.920	164	121624	20.000	ng	0.00
64) Phenanthrene-d10	17.652	188	314903	20.000	ng	0.00
76) Chrysene-d12	21.947	240	266234	20.000	ng	# 0.00
86) Perylene-d12	25.384	264	293224	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.813	112	162397	80.814	ng	-0.01
7) Phenol-d6	7.441	99	250273	81.098	ng	0.00
23) Nitrobenzene-d5	9.474	82	221113	78.906	ng	-0.01
42) 2,4,6-Tribromophenol	16.401	330	130429	84.675	ng	0.00
45) 2-Fluorobiphenyl	13.540	172	697752	79.222	ng	0.00
79) Terphenyl-d14	20.226	244	1253290	84.313	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.622	88	33028	35.983	ng	# 91
3) Pyridine	4.045	79	108532	38.822	ng	# 91
4) n-Nitrosodimethylamine	3.951	42	22137	38.927	ng	# 90
6) Aniline	7.611	93	166000	41.018	ng	97
8) 2-Chlorophenol	7.858	128	86206	43.110	ng	93
9) Benzaldehyde	7.423	77	62592	34.111	ng	94
10) Phenol	7.470	94	126175	40.315	ng	95
11) bis(2-Chloroethyl)ether	7.699	93	87036	41.037	ng	98
12) 1,3-Dichlorobenzene	8.187	146	99029	40.690	ng	93
13) 1,4-Dichlorobenzene	8.334	146	100688	41.199	ng	98
14) 1,2-Dichlorobenzene	8.657	146	97986	41.552	ng	99
15) Benzyl Alcohol	8.534	79	89561	39.875	ng	96
16) 2,2'-oxybis(1-Chloropr...	8.816	45	21041	56.140	ng	# 66
17) 2-Methylphenol	8.733	107	94812	41.286	ng	96
18) Hexachloroethane	9.391	117	31815	42.852	ng	92
19) n-Nitroso-di-n-propyla...	9.104	70	73246	39.031	ng	97
20) 3+4-Methylphenols	9.062	107	134958	41.799	ng	97
22) Acetophenone	9.127	105	160363	39.567	ng	# 99
24) Nitrobenzene	9.515	77	108180	38.955	ng	99
25) Isophorone	10.038	82	226698	38.450	ng	96
26) 2-Nitrophenol	10.232	139	59384	41.794	ng	96
27) 2,4-Dimethylphenol	10.279	122	103873m	40.081	ng	
28) bis(2-Chloroethoxy)met...	10.514	93	121663	39.702	ng	96
29) 2,4-Dichlorophenol	10.772	162	115076	40.165	ng	97
30) 1,2,4-Trichlorobenzene	10.990	180	125420	38.575	ng	99
31) Naphthalene	11.184	128	314679	41.714	ng	99
32) Benzoic acid	10.420	122	60799	31.619	ng	92
33) 4-Chloroaniline	11.283	127	151130	41.961	ng	97
34) Hexachlorobutadiene	11.454	225	85137	36.408	ng	98
35) Caprolactam	12.059	113	41723	43.012	ng	87
36) 4-Chloro-3-methylphenol	12.388	107	120133	41.322	ng	98
37) 2-Methylnaphthalene	12.770	142	255478	40.109	ng	98
38) 1-Methylnaphthalene	12.981	142	241626	40.850	ng	97
40) 1,2,4,5-Tetrachloroben...	13.128	216	178402	39.137	ng	99
41) Hexachlorocyclopentadiene	13.099	237	84576	32.543	ng	98
43) 2,4,6-Trichlorophenol	13.363	196	118710	39.383	ng	97

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG012323\
 Data File : BG056380.D
 Acq On : 23 Jan 2023 11:41
 Operator : CG/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_G

ClientSampleId :

SSTDCCC040

Manual Integrations

APPROVED

Reviewed By : Christian Giraldo 01/24/2023
 Supervised By : Jagrut Upadhyay 01/24/2023

Quant Time: Jan 24 01:18:36 2023

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Jan 19 00:31:30 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.440	196	140098	39.291	ng	97
46) 1,1'-Biphenyl	13.757	154	359555	41.279	ng	99
47) 2-Chloronaphthalene	13.804	162	282387	41.073	ng	98
48) 2-Nitroaniline	13.998	65	66962	45.713	ng	97
49) Acenaphthylene	14.644	152	465540	41.610	ng	100
50) Dimethylphthalate	14.356	163	403510	41.098	ng	99
51) 2,6-Dinitrotoluene	14.486	165	88867	42.478	ng	93
52) Acenaphthene	14.985	154	306120m	42.069	ng	
53) 3-Nitroaniline	14.815	138	89368	44.885	ng	97
54) 2,4-Dinitrophenol	15.026	184	56863	38.046	ng	98
55) Dibenzofuran	15.314	168	495628	41.160	ng	98
56) 4-Nitrophenol	15.114	139	63243	41.300	ng	89
57) 2,4-Dinitrotoluene	15.267	165	128015	43.754	ng	95
58) Fluorene	15.954	166	396397	40.928	ng	98
59) 2,3,4,6-Tetrachlorophenol	15.537	232	123678m	36.942	ng	
60) Diethylphthalate	15.702	149	384446	41.753	ng	99
61) 4-Chlorophenyl-phenyle...	15.937	204	243087	40.218	ng	98
62) 4-Nitroaniline	15.972	138	90195	44.224	ng	90
63) Azobenzene	16.231	77	293419	41.295	ng	98
65) 4,6-Dinitro-2-methylph...	16.037	198	89322	42.101	ng	92
66) n-Nitrosodiphenylamine	16.154	169	366062	41.897	ng	97
67) 4-Bromophenyl-phenylether	16.830	248	164204	40.949	ng	97
68) Hexachlorobenzene	16.965	284	158722	42.425	ng	97
69) Atrazine	17.088	200	145123	40.078	ng	98
70) Pentachlorophenol	17.306	266	100837	35.087	ng	97
71) Phenanthrene	17.699	178	670916	41.112	ng	98
72) Anthracene	17.788	178	689914	40.982	ng	100
73) Carbazole	18.052	167	580326	41.011	ng	99
74) Di-n-butylphthalate	18.581	149	597887	42.386	ng	99
75) Fluoranthene	19.685	202	793119	37.258	ng	99
77) Benzidine	19.856	184	322594	34.576	ng	98
78) Pyrene	20.050	202	799553	42.608	ng	99
80) Butylbenzylphthalate	20.902	149	232154	43.122	ng	98
81) Benzo(a)anthracene	21.930	228	769310	41.141	ng	99
82) 3,3'-Dichlorobenzidine	21.830	252	272399	40.467	ng	95
83) Chrysene	22.000	228	720581	41.139	ng	98
84) Bis(2-ethylhexyl)phtha...	21.783	149	330342	42.591	ng	98
85) Di-n-octyl phthalate	23.064	149	554949	42.383	ng	100
87) Indeno(1,2,3-cd)pyrene	29.362	276	875271	41.044	ng	# 97
88) Benzo(b)fluoranthene	24.292	252	750325	40.274	ng	100
89) Benzo(k)fluoranthene	24.362	252	744156	40.112	ng	99
90) Benzo(a)pyrene	25.226	252	733134	40.346	ng	# 99
91) Dibenzo(a,h)anthracene	29.415	278	737188	41.232	ng	99
92) Benzo(g,h,i)perylene	30.608	276	711516	41.038	ng	97

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG012323\
 Data File : BG056380.D
 Acq On : 23 Jan 2023 11:41
 Operator : CG/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_G

ClientSampleId :

SSTDCCC040

Manual Integrations**APPROVED**

Reviewed By : Christian Giraldo 01/24/2023
 Supervised By : Jagrut Upadhyay 01/24/2023

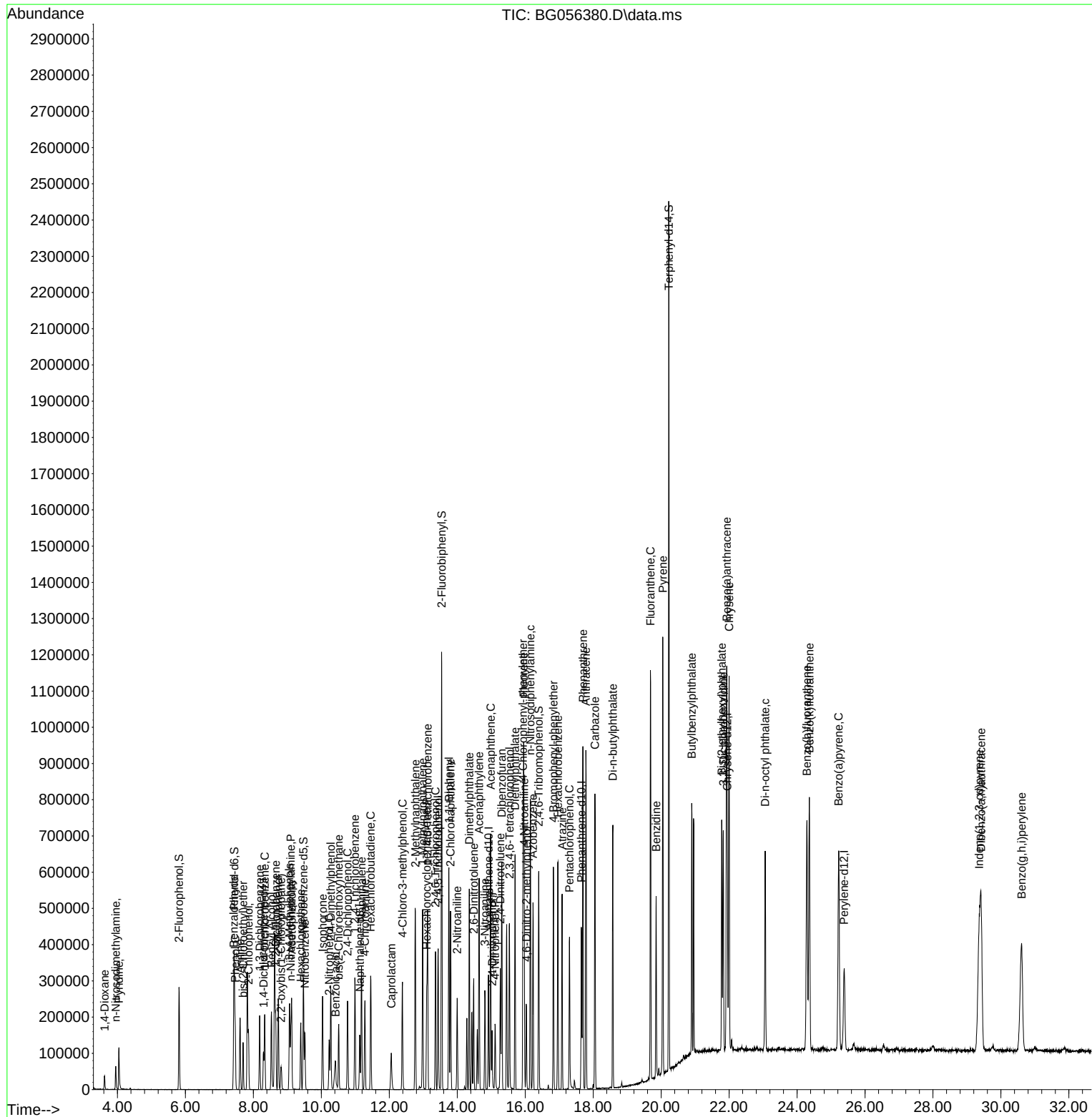
Quant Time: Jan 24 01:18:36 2023

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Jan 19 00:31:30 2023

Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG012323\
 Data File : BG056380.D
 Acq On : 23 Jan 2023 11:41
 Operator : CG/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_G
 LabSampleId :
 SSTDCCC040

Quant Time: Jan 24 01:18:36 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 19 00:31:30 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	87	0.00
2	1,4-Dioxane	0.512	0.460	10.2	75	-0.01
3	Pyridine	1.558	1.512	3.0	82	-0.01
4	n-Nitrosodimethylamine	0.317	0.308	2.8	80	-0.02
5 S	2-Fluorophenol	1.120	1.132	-1.1	87	-0.01
6	Aniline	2.256	2.313	-2.5	88	-0.01
7 S	Phenol-d6	1.720	1.744	-1.4	85	0.00
8	2-Chlorophenol	1.115	1.201	-7.7	92	0.00
9	Benzaldehyde	1.023	0.872	14.8	76	0.00
10 C	Phenol	1.745	1.758	-0.7	85	0.00
11	bis(2-Chloroethyl)ether	1.182	1.213	-2.6	89	-0.01
12	1,3-Dichlorobenzene	1.357	1.380	-1.7	89	0.00
13 C	1,4-Dichlorobenzene	1.362	1.403	-3.0	88	-0.01
14	1,2-Dichlorobenzene	1.314	1.365	-3.9	89	-0.01
15	Benzyl Alcohol	1.252	1.248	0.3	83	0.00
16	2,2'-oxybis(1-Chloropropane	0.209	0.293	-40.2#	122	-0.01
17	2-Methylphenol	1.280	1.321	-3.2	87	0.00
18	Hexachloroethane	0.414	0.443	-7.0	93	-0.01
19 P	n-Nitroso-di-n-propylamine	1.046	1.021	2.4	84	0.00
20	3+4-Methylphenols	1.800	1.881	-4.5	88	0.00
21 I	Naphthalene-d8	1.000	1.000	0.0	88	0.00
22	Acetophenone	0.566	0.559	1.2	86	0.00
23 S	Nitrobenzene-d5	0.391	0.386	1.3	87	-0.01
24	Nitrobenzene	0.387	0.377	2.6	86	-0.01
25	Isophorone	0.823	0.791	3.9	85	0.00
26 C	2-Nitrophenol	0.198	0.207	-4.5	92	-0.01
27	2,4-Dimethylphenol	0.362	0.362	0.0	88	0.00
28	bis(2-Chloroethoxy)methane	0.428	0.424	0.9	88	0.00
29 C	2,4-Dichlorophenol	0.400	0.401	-0.3	85	0.00
30	1,2,4-Trichlorobenzene	0.454	0.437	3.7	85	0.00
31	Naphthalene	1.053	1.098	-4.3	93	-0.01
32	Benzoic acid	0.268	0.212	20.9	67	0.00
33	4-Chloroaniline	0.503	0.527	-4.8	92	0.00
34 C	Hexachlorobutadiene	0.326	0.297	8.9	79	-0.01
35	Caprolactam	0.135	0.146	-8.1	95	0.00
36 C	4-Chloro-3-methylphenol	0.406	0.419	-3.2	91	0.00
37	2-Methylnaphthalene	0.889	0.891	-0.2	88	0.00
38	1-Methylnaphthalene	0.825	0.843	-2.2	90	0.00
39 I	Acenaphthene-d10	1.000	1.000	0.0	88	0.00
40	1,2,4,5-Tetrachlorobenzene	0.750	0.733	2.3	84	0.00
41 P	Hexachlorocyclopentadiene	0.427	0.348	18.5	67	0.00
42 S	2,4,6-Tribromophenol	0.253	0.268	-5.9	91	0.00
43 C	2,4,6-Trichlorophenol	0.496	0.488	1.6	83	0.00
44	2,4,5-Trichlorophenol	0.586	0.576	1.7	84	0.00
45 S	2-Fluorobiphenyl	1.448	1.434	1.0	85	0.00
46	1,1'-Biphenyl	1.432	1.478	-3.2	89	0.00
47	2-Chloronaphthalene	1.131	1.161	-2.7	88	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG012323\
 Data File : BG056380.D
 Acq On : 23 Jan 2023 11:41
 Operator : CG/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_G
 LabSampleId :
 SSTDCCC040

Quant Time: Jan 24 01:18:36 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 19 00:31:30 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48	2-Nitroaniline	0.241	0.275	-14.1	98	0.00
49	Acenaphthylene	1.840	1.914	-4.0	89	0.00
50	Dimethylphthalate	1.615	1.659	-2.7	89	0.00
51	2,6-Dinitrotoluene	0.344	0.365	-6.1	94	0.00
52 C	Acenaphthene	1.197	1.258	-5.1	90	0.00
53	3-Nitroaniline	0.327	0.367	-12.2	96	0.00
54 P	2,4-Dinitrophenol	0.246	0.234	4.9	78	0.00
55	Dibenzofuran	1.980	2.038	-2.9	88	0.00
56 P	4-Nitrophenol	0.252	0.260	-3.2	87	0.00
57	2,4-Dinitrotoluene	0.481	0.526	-9.4	93	0.00
58	Fluorene	1.593	1.630	-2.3	89	0.00
59	2,3,4,6-Tetrachlorophenol	0.551	0.508	7.8	80	0.00
60	Diethylphthalate	1.514	1.580	-4.4	90	0.00
61	4-Chlorophenyl-phenylether	0.994	0.999	-0.5	86	0.00
62	4-Nitroaniline	0.335	0.371	-10.7	94	0.00
63	Azobenzene	1.168	1.206	-3.3	90	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	86	0.00
65	4,6-Dinitro-2-methylphenol	0.135	0.142	-5.2	86	0.00
66 c	n-Nitrosodiphenylamine	0.555	0.581	-4.7	89	0.00
67	4-Bromophenyl-phenylether	0.255	0.261	-2.4	87	0.00
68	Hexachlorobenzene	0.238	0.252	-5.9	90	0.00
69	Atrazine	0.230	0.230	0.0	83	0.00
70 C	Pentachlorophenol	0.183	0.160	12.6	73	0.00
71	Phenanthrene	1.036	1.065	-2.8	87	0.00
72	Anthracene	1.069	1.095	-2.4	87	0.00
73	Carbazole	0.899	0.921	-2.4	87	0.00
74	Di-n-butylphthalate	0.896	0.949	-5.9	89	0.00
75 C	Fluoranthene	1.352	1.259	6.9	79	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	75	0.00
77	Benzydine	0.701	0.606	13.6	62	0.00
78	Pyrene	1.410	1.502	-6.5	80	0.00
79 S	Terphenyl-d14	1.117	1.177	-5.4	79	0.00
80	Butylbenzylphthalate	0.404	0.436	-7.9	80	0.00
81	Benzo(a)anthracene	1.405	1.445	-2.8	76	0.00
82	3,3'-Dichlorobenzidine	0.506	0.512	-1.2	73	0.00
83	Chrysene	1.316	1.353	-2.8	76	0.00
84	Bis(2-ethylhexyl)phthalate	0.583	0.620	-6.3	78	-0.01
85 c	Di-n-octyl phthalate	0.984	1.042	-5.9	78	0.00
86 I	Perylene-d12	1.000	1.000	0.0	74	0.00
87	Indeno(1,2,3-cd)pyrene	1.455	1.492	-2.5	75	0.00
88	Benzo(b)fluoranthene	1.271	1.279	-0.6	73	0.00
89	Benzo(k)fluoranthene	1.265	1.269	-0.3	73	0.00
90 C	Benzo(a)pyrene	1.239	1.250	-0.9	74	0.00
91	Dibenzo(a,h)anthracene	1.219	1.257	-3.1	76	0.00
92	Benzo(g,h,i)perylene	1.183	1.213	-2.5	74	0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG012323\
Data File : BG056380.D
Acq On : 23 Jan 2023 11:41
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_G
LabSampleId :
SSTDCCC040

Quant Time: Jan 24 01:18:36 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 19 00:31:30 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG012323\
 Data File : BG056380.D
 Acq On : 23 Jan 2023 11:41
 Operator : CG/JU
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Quant Time: Jan 24 01:18:36 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 19 00:31:30 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	87	0.00
2	1,4-Dioxane	40.000	35.983	10.0	75	-0.01
3	Pyridine	40.000	38.822	2.9	82	-0.01
4	n-Nitrosodimethylamine	40.000	38.927	2.7	80	-0.02
5 S	2-Fluorophenol	80.000	80.814	-1.0	87	-0.01
6	Aniline	40.000	41.018	-2.5	88	-0.01
7 S	Phenol-d6	80.000	81.098	-1.4	85	0.00
8	2-Chlorophenol	40.000	43.110	-7.8	92	0.00
9	Benzaldehyde	40.000	34.111	14.7	76	0.00
10 C	Phenol	40.000	40.315	-0.8	85	0.00
11	bis(2-Chloroethyl)ether	40.000	41.037	-2.6	89	-0.01
12	1,3-Dichlorobenzene	40.000	40.690	-1.7	89	0.00
13 C	1,4-Dichlorobenzene	40.000	41.199	-3.0	88	-0.01
14	1,2-Dichlorobenzene	40.000	41.552	-3.9	89	-0.01
15	Benzyl Alcohol	40.000	39.875	0.3	83	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	56.140	-40.4#	122	-0.01
17	2-Methylphenol	40.000	41.286	-3.2	87	0.00
18	Hexachloroethane	40.000	42.852	-7.1	93	-0.01
19 P	n-Nitroso-di-n-propylamine	40.000	39.031	2.4	84	0.00
20	3+4-Methylphenols	40.000	41.799	-4.5	88	0.00
21 I	Naphthalene-d8	20.000	20.000	0.0	88	0.00
22	Acetophenone	40.000	39.567	1.1	86	0.00
23 S	Nitrobenzene-d5	80.000	78.906	1.4	87	-0.01
24	Nitrobenzene	40.000	38.955	2.6	86	-0.01
25	Isophorone	40.000	38.450	3.9	85	0.00
26 C	2-Nitrophenol	40.000	41.794	-4.5	92	-0.01
27	2,4-Dimethylphenol	40.000	40.081	-0.2	88	0.00
28	bis(2-Chloroethoxy)methane	40.000	39.702	0.7	88	0.00
29 C	2,4-Dichlorophenol	40.000	40.165	-0.4	85	0.00
30	1,2,4-Trichlorobenzene	40.000	38.575	3.6	85	0.00
31	Naphthalene	40.000	41.714	-4.3	93	-0.01
32	Benzoic acid	40.000	31.619	21.0	67	0.00
33	4-Chloroaniline	40.000	41.961	-4.9	92	0.00
34 C	Hexachlorobutadiene	40.000	36.408	9.0	79	-0.01
35	Caprolactam	40.000	43.012	-7.5	95	0.00
36 C	4-Chloro-3-methylphenol	40.000	41.322	-3.3	91	0.00
37	2-Methylnaphthalene	40.000	40.109	-0.3	88	0.00
38	1-Methylnaphthalene	40.000	40.850	-2.1	90	0.00
39 I	Acenaphthene-d10	20.000	20.000	0.0	88	0.00
40	1,2,4,5-Tetrachlorobenzene	40.000	39.137	2.2	84	0.00
41 P	Hexachlorocyclopentadiene	40.000	32.543	18.6	67	0.00
42 S	2,4,6-Tribromophenol	80.000	84.675	-5.8	91	0.00
43 C	2,4,6-Trichlorophenol	40.000	39.383	1.5	83	0.00
44	2,4,5-Trichlorophenol	40.000	39.291	1.8	84	0.00
45 S	2-Fluorobiphenyl	80.000	79.222	1.0	85	0.00
46	1,1'-Biphenyl	40.000	41.279	-3.2	89	0.00
47	2-Chloronaphthalene	40.000	41.073	-2.7	88	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG012323\
 Data File : BG056380.D
 Acq On : 23 Jan 2023 11:41
 Operator : CG/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_G
 LabSampleId :
 SSTDCCC040

Quant Time: Jan 24 01:18:36 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 19 00:31:30 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48	2-Nitroaniline	40.000	45.713	-14.3	98	0.00
49	Acenaphthylene	40.000	41.610	-4.0	89	0.00
50	Dimethylphthalate	40.000	41.098	-2.7	89	0.00
51	2,6-Dinitrotoluene	40.000	42.478	-6.2	94	0.00
52 C	Acenaphthene	40.000	42.069	-5.2	90	0.00
53	3-Nitroaniline	40.000	44.885	-12.2	96	0.00
54 P	2,4-Dinitrophenol	40.000	38.046	4.9	78	0.00
55	Dibenzofuran	40.000	41.160	-2.9	88	0.00
56 P	4-Nitrophenol	40.000	41.300	-3.2	87	0.00
57	2,4-Dinitrotoluene	40.000	43.754	-9.4	93	0.00
58	Fluorene	40.000	40.928	-2.3	89	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	36.942	7.6	80	0.00
60	Diethylphthalate	40.000	41.753	-4.4	90	0.00
61	4-Chlorophenyl-phenylether	40.000	40.218	-0.5	86	0.00
62	4-Nitroaniline	40.000	44.224	-10.6	94	0.00
63	Azobenzene	40.000	41.295	-3.2	90	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	86	0.00
65	4,6-Dinitro-2-methylphenol	40.000	42.101	-5.3	86	0.00
66 c	n-Nitrosodiphenylamine	40.000	41.897	-4.7	89	0.00
67	4-Bromophenyl-phenylether	40.000	40.949	-2.4	87	0.00
68	Hexachlorobenzene	40.000	42.425	-6.1	90	0.00
69	Atrazine	40.000	40.078	-0.2	83	0.00
70 C	Pentachlorophenol	40.000	35.087	12.3	73	0.00
71	Phenanthrene	40.000	41.112	-2.8	87	0.00
72	Anthracene	40.000	40.982	-2.5	87	0.00
73	Carbazole	40.000	41.011	-2.5	87	0.00
74	Di-n-butylphthalate	40.000	42.386	-6.0	89	0.00
75 C	Fluoranthene	40.000	37.258	6.9	79	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	75	0.00
77	Benzidine	40.000	34.576	13.6	62	0.00
78	Pyrene	40.000	42.608	-6.5	80	0.00
79 S	Terphenyl-d14	80.000	84.313	-5.4	79	0.00
80	Butylbenzylphthalate	40.000	43.122	-7.8	80	0.00
81	Benzo(a)anthracene	40.000	41.141	-2.9	76	0.00
82	3,3'-Dichlorobenzidine	40.000	40.467	-1.2	73	0.00
83	Chrysene	40.000	41.139	-2.8	76	0.00
84	Bis(2-ethylhexyl)phthalate	40.000	42.591	-6.5	78	-0.01
85 c	Di-n-octyl phthalate	40.000	42.383	-6.0	78	0.00
86 I	Perylene-d12	20.000	20.000	0.0	74	0.00
87	Indeno(1,2,3-cd)pyrene	40.000	41.044	-2.6	75	0.00
88	Benzo(b)fluoranthene	40.000	40.274	-0.7	73	0.00
89	Benzo(k)fluoranthene	40.000	40.112	-0.3	73	0.00
90 C	Benzo(a)pyrene	40.000	40.346	-0.9	74	0.00
91	Dibenzo(a,h)anthracene	40.000	41.232	-3.1	76	0.00
92	Benzo(g,h,i)perylene	40.000	41.038	-2.6	74	0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG012323\
Data File : BG056380.D
Acq On : 23 Jan 2023 11:41
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_G
LabSampleId :
SSTDCCC040

Quant Time: Jan 24 01:18:36 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 19 00:31:30 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: loui01

Lab Code: CHEM Case No.: O1233 SAS No.: O1233 SDG No.: O1233

Instrument ID: BNA_P Calibration Date/Time: 01/24/2023 15:13

Lab File ID: BP013571.D Init. Calib. Date(s): 01/23/2023 01/23/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:25 16:01

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.167	1.147		-1.7	
Benzaldehyde	0.995	0.888		-10.8	
Phenol-d6	1.571	1.597		1.7	
Phenol	1.628	1.651		1.4	20.0
bis(2-Chloroethyl) ether	1.331	1.329		-0.2	
2-Chlorophenol	1.288	1.323		2.7	
2-Methylphenol	1.182	1.208		2.2	
2,2-oxybis(1-Chloropropane)	1.822	1.794		-1.5	
Acetophenone	0.513	0.490		-4.5	
3+4-Methylphenols	1.556	1.656		6.4	
n-Nitroso-di-n-propylamine	1.012	1.063	0.050	5.0	
Nitrobenzene-d5	0.303	0.333		9.9	
Hexachloroethane	0.483	0.491		1.7	
Nitrobenzene	0.326	0.344		5.5	
Isophorone	0.719	0.697		-3.1	
2-Nitrophenol	0.094	0.142		51.1	20.0
2,4-Dimethylphenol	0.310	0.311		0.3	
bis(2-Chloroethoxy) methane	0.433	0.428		-1.2	
2,4-Dichlorophenol	0.285	0.299		4.9	20.0
Naphthalene	1.075	1.033		-3.9	
4-Chloroaniline	0.476	0.475		-0.2	
Hexachlorobutadiene	0.189	0.179		-5.3	20.0
Caprolactam	0.093	0.109		17.2	
4-Chloro-3-methylphenol	0.311	0.339		9.0	20.0
2-Methylnaphthalene	0.764	0.764		0.0	
Hexachlorocyclopentadiene	0.290	0.295	0.050	1.7	
2,4,6-Trichlorophenol	0.360	0.382		6.1	20.0
2-Fluorobiphenyl	1.457	1.331		-8.6	
2,4,5-Trichlorophenol	0.426	0.453		6.3	
1,1-Biphenyl	1.606	1.480		-7.8	
2-Chloronaphthalene	1.203	1.104		-8.2	
2-Nitroaniline	0.241	0.326		35.3	
Dimethylphthalate	1.487	1.504		1.1	
Acenaphthylene	1.968	1.875		-4.7	
2,6-Dinitrotoluene	0.240	0.313		30.4	
3-Nitroaniline	0.275	0.361		31.3	
Acenaphthene	1.216	1.183		-2.7	20.0
2,4-Dinitrophenol	0.058	0.118	0.050	103.4	
4-Nitrophenol	0.212	0.288	0.050	35.8	
Dibenzofuran	1.864	1.797		-3.6	
2,4-Dinitrotoluene	0.266	0.421		58.3	



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: loui01
 Lab Code: CHEM Case No.: O1233 SAS No.: O1233 SDG No.: O1233
 Instrument ID: BNA_P Calibration Date/Time: 01/24/2023 15:13
 Lab File ID: BP013571.D Init. Calib. Date(s): 01/23/2023 01/23/2023
 EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:25 16:01
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.452	1.521		4.8	
4-Chlorophenyl-phenylether	0.729	0.712		-2.3	
Fluorene	1.482	1.443		-2.6	
4-Nitroaniline	0.265	0.376		41.9	
4,6-Dinitro-2-methylphenol	0.058	0.084		44.8	
n-Nitrosodiphenylamine	0.652	0.591		-9.4	20.0
2,4,6-Tribromophenol	0.201	0.241		19.9	
4-Bromophenyl-phenylether	0.222	0.200		-9.9	
Hexachlorobenzene	0.239	0.222		-7.1	
Atrazine	0.187	0.197		5.3	
Pentachlorophenol	0.139	0.160		15.1	20.0
Phenanthrene	1.113	1.061		-4.7	
Anthracene	1.129	1.078		-4.5	
Carbazole	1.015	1.015		0.0	
Di-n-butylphthalate	1.130	1.228		8.7	
Fluoranthene	1.183	1.251		5.7	20.0
Pyrene	1.529	1.345		-12.0	
Terphenyl-d14	1.112	1.000		-10.1	
Butylbenzylphthalate	0.487	0.567		16.4	
3,3-Dichlorobenzidine	0.449	0.464		3.3	
Benzo(a)anthracene	1.393	1.340		-3.8	
Chrysene	1.333	1.268		-4.9	
Bis(2-ethylhexyl)phthalate	0.779	0.839		7.7	
Di-n-octyl phthalate	1.256	1.423		13.3	20.0
Benzo(b)fluoranthene	1.230	1.204		-2.1	
Benzo(k)fluoranthene	1.255	1.230		-2.0	
Benzo(a)pyrene	1.194	1.155		-3.3	20.0
Indeno(1,2,3-cd)pyrene	1.473	1.333		-9.5	
Dibenzo(a,h)anthracene	1.236	1.129		-8.7	
Benzo(g,h,i)perylene	1.206	1.048		-13.1	
1,2,4,5-Tetrachlorobenzene	0.616	0.561		-8.9	
1,4-Dioxane	0.471	0.449		-4.7	20.0
2,3,4,6-Tetrachlorophenol	0.327	0.373		14.1	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012423\
 Data File : BP013571.D
 Acq On : 24 Jan 2023 15:13
 Operator : CG/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDCCC040

Quant Time: Jan 25 03:48:01 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 25 03:43:27 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.163	152	306718	20.000	ng	0.00
21) Naphthalene-d8	10.993	136	1319960	20.000	ng	0.00
39) Acenaphthene-d10	14.798	164	845480	20.000	ng	0.00
64) Phenanthrene-d10	17.551	188	1830854	20.000	ng	0.00
76) Chrysene-d12	21.627	240	1775326	20.000	ng	0.00
86) Perylene-d12	24.215	264	1903851	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.687	112	1407570	78.628	ng	0.00
7) Phenol-d6	7.305	99	1958985	81.309	ng	0.00
23) Nitrobenzene-d5	9.334	82	1757278	87.889	ng	0.00
42) 2,4,6-Tribromophenol	16.281	330	813922	95.975	ng	0.00
45) 2-Fluorobiphenyl	13.422	172	4501608	73.084	ng	0.00
79) Terphenyl-d14	20.080	244	7103236	71.980	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.528	88	275280	38.145	ng	97
3) Pyridine	3.940	79	840847	39.249	ng	98
4) n-Nitrosodimethylamine	3.852	42	357648	36.923	ng	94
6) Aniline	7.475	93	1303907	40.287	ng	100
8) 2-Chlorophenol	7.716	128	811337	41.073	ng	98
9) Benzaldehyde	7.287	77	544547	35.691	ng	99
10) Phenol	7.328	94	1012575	40.565	ng	99
11) bis(2-Chloroethyl)ether	7.575	93	814987	39.929	ng	97
12) 1,3-Dichlorobenzene	8.052	146	851100	38.961	ng	97
13) 1,4-Dichlorobenzene	8.199	146	866381	39.114	ng	99
14) 1,2-Dichlorobenzene	8.522	146	838546	39.097	ng	98
15) Benzyl Alcohol	8.399	79	711826	41.352	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.699	45	1100796	39.385	ng	99
17) 2-Methylphenol	8.599	107	740935	40.871	ng	98
18) Hexachloroethane	9.257	117	300986	40.653	ng	98
19) n-Nitroso-di-n-propyla...	8.975	70	651844	42.005	ng	98
20) 3+4-Methylphenols	8.928	107	1015829	42.571	ng	98
22) Acetophenone	8.993	105	1292838	38.180	ng	# 99
24) Nitrobenzene	9.375	77	908102	42.241	ng	98
25) Isophorone	9.904	82	1841008	38.819	ng	98
26) 2-Nitrophenol	10.093	139	374036	48.199	ng	97
27) 2,4-Dimethylphenol	10.146	122	821831	40.144	ng	98
28) bis(2-Chloroethoxy)met...	10.387	93	1129229	39.512	ng	99
29) 2,4-Dichlorophenol	10.628	162	789841	41.944	ng	99
30) 1,2,4-Trichlorobenzene	10.851	180	824483	38.366	ng	98
31) Naphthalene	11.046	128	2727667	38.438	ng	99
32) Benzoic acid	10.269	122	488696	49.345	ng	98
33) 4-Chloroaniline	11.146	127	1252849	39.901	ng	99
34) Hexachlorobutadiene	11.328	225	473578	37.868	ng	99
35) Caprolactam	11.928	113	289017	47.340	ng	93
36) 4-Chloro-3-methylphenol	12.251	107	894439	43.614	ng	97
37) 2-Methylnaphthalene	12.640	142	2016496	39.978	ng	99
38) 1-Methylnaphthalene	12.857	142	1891404	39.906	ng	99
40) 1,2,4,5-Tetrachloroben...	12.998	216	948623	36.444	ng	100
41) Hexachlorocyclopentadiene	12.981	237	498883	38.629	ng	98
43) 2,4,6-Trichlorophenol	13.228	196	645258	42.355	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012423\
 Data File : BP013571.D
 Acq On : 24 Jan 2023 15:13
 Operator : CG/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDCCC040

Quant Time: Jan 25 03:48:01 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 25 03:43:27 2023
 Response via : Initial Calibration

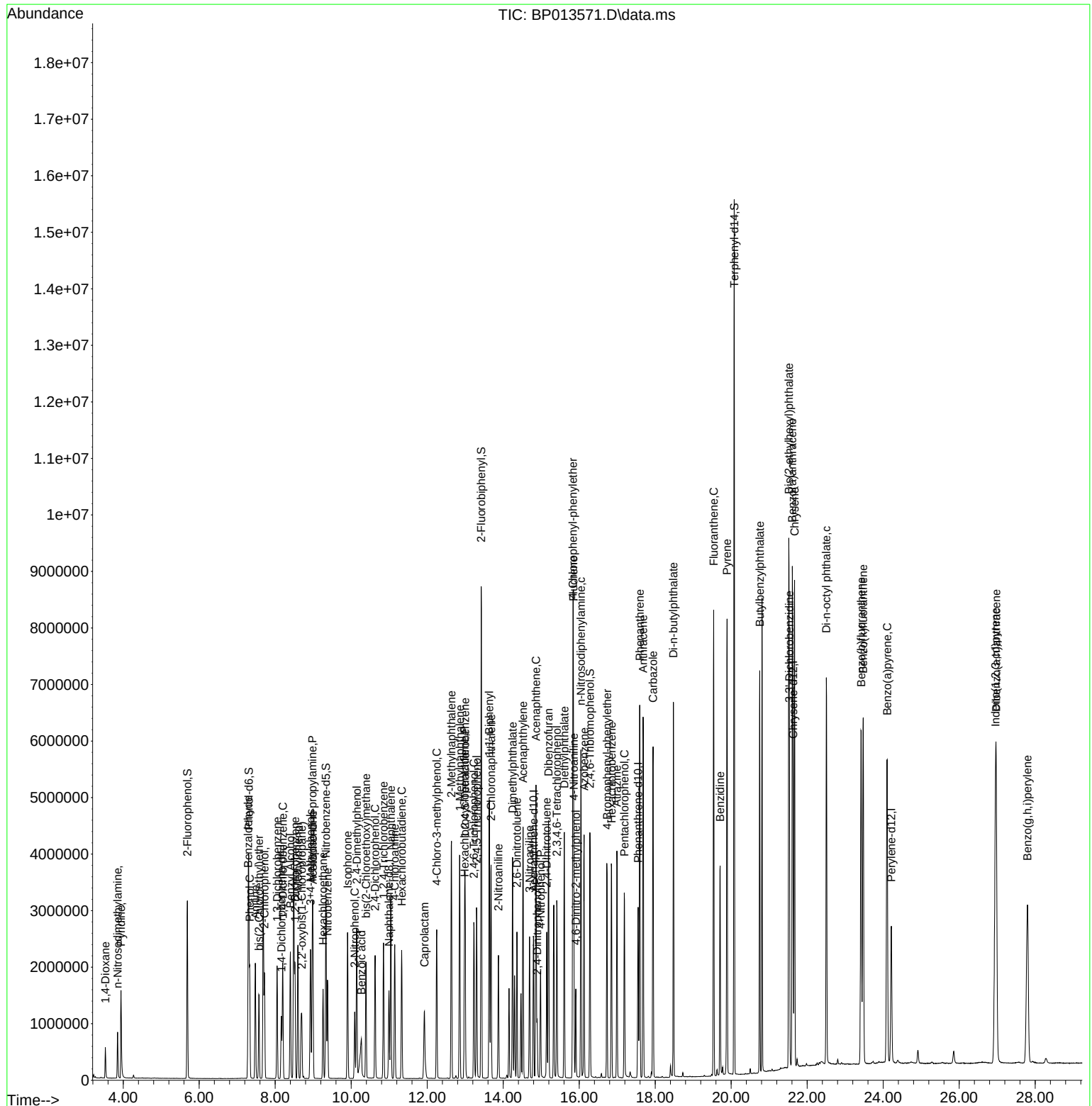
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.298	196	765637	42.530	ng	99
46) 1,1'-Biphenyl	13.634	154	2502661	36.857	ng	100
47) 2-Chloronaphthalene	13.681	162	1866810	36.698	ng	99
48) 2-Nitroaniline	13.875	65	550826	43.909	ng	92
49) Acenaphthylene	14.522	152	3169706	38.102	ng	99
50) Dimethylphthalate	14.245	163	2543784	40.475	ng	100
51) 2,6-Dinitrotoluene	14.363	165	529259	43.626	ng	92
52) Acenaphthene	14.863	154	2000093	38.921	ng	98
53) 3-Nitroaniline	14.692	138	610818	43.986	ng	# 95
54) 2,4-Dinitrophenol	14.892	184	198862	56.351	ng	97
55) Dibenzofuran	15.192	168	3039348	38.570	ng	100
56) 4-Nitrophenol	14.987	139	487069	47.976	ng	92
57) 2,4-Dinitrotoluene	15.145	165	711855	48.771	ng	90
58) Fluorene	15.845	166	2439929	38.957	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.410	232	630666	45.624	ng	98
60) Diethylphthalate	15.610	149	2571209	41.887	ng	99
61) 4-Chlorophenyl-phenylether	15.834	204	1204164	39.100	ng	98
62) 4-Nitroaniline	15.857	138	636072	47.406	ng	94
63) Azobenzene	16.128	77	2310852	38.742	ng	96
65) 4,6-Dinitro-2-methylph...	15.910	198	308703	51.694	ng	94
66) n-Nitrosodiphenylamine	16.045	169	2165027	36.261	ng	100
67) 4-Bromophenyl-phenylether	16.734	248	734142	36.200	ng	96
68) Hexachlorobenzene	16.851	284	811990	37.067	ng	98
69) Atrazine	16.992	200	719707	42.129	ng	99
70) Pentachlorophenol	17.192	266	586444	42.768	ng	97
71) Phenanthrene	17.592	178	3886176	38.150	ng	99
72) Anthracene	17.681	178	3948781	38.194	ng	99
73) Carbazole	17.945	167	3717879	40.015	ng	99
74) Di-n-butylphthalate	18.480	149	4497957	43.497	ng	100
75) Fluoranthene	19.539	202	4579389	42.274	ng	99
77) Benzidine	19.710	184	2044660	45.793	ng	100
78) Pyrene	19.892	202	4776103	35.184	ng	100
80) Butylbenzylphthalate	20.751	149	2011565	46.542	ng	98
81) Benzo(a)anthracene	21.610	228	4759168	38.480	ng	100
82) 3,3'-Dichlorobenzidine	21.533	252	1647068	41.332	ng	99
83) Chrysene	21.669	228	4502114	38.058	ng	99
84) Bis(2-ethylhexyl)phtha...	21.516	149	2979383	43.073	ng	100
85) Di-n-octyl phthalate	22.504	149	5051658	45.299	ng	97
87) Indeno(1,2,3-cd)pyrene	26.957	276	5075238	36.191	ng	100
88) Benzo(b)fluoranthene	23.421	252	4583063	39.131	ng	99
89) Benzo(k)fluoranthene	23.474	252	4682960	39.202	ng	99
90) Benzo(a)pyrene	24.104	252	4398834	38.718	ng	100
91) Dibenzo(a,h)anthracene	26.974	278	4300120	36.557	ng	99
92) Benzo(g,h,i)perylene	27.798	276	3988636	34.739	ng	100

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

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Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012423\  
Data File : BP013571.D  
Acq On    : 24 Jan 2023  15:13  
Operator  : CG/JU  
Sample    : SSTDCCC040  
Misc      :  
ALS Vial  : 2    Sample Multiplier: 1
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Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Quant Time: Jan 25 03:48:01 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 25 03:43:27 2023
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012423\
 Data File : BP013571.D
 Acq On : 24 Jan 2023 15:13
 Operator : CG/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_P
 LabSampleId :
 SSTDCCC040

Quant Time: Jan 25 03:48:01 2023
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 25 03:43:27 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	115	0.00
2	1,4-Dioxane	0.471	0.449	4.7	104	0.00
3	Pyridine	1.397	1.371	1.9	106	0.00
4	n-Nitrosodimethylamine	0.632	0.583	7.8	101	0.00
5 S	2-Fluorophenol	1.167	1.147	1.7	107	0.00
6	Aniline	2.110	2.126	-0.8	113	0.00
7 S	Phenol-d6	1.571	1.597	-1.7	113	0.00
8	2-Chlorophenol	1.288	1.323	-2.7	114	0.00
9	Benzaldehyde	0.995	0.888	10.8	111	0.00
10 C	Phenol	1.628	1.651	-1.4	113	0.00
11	bis(2-Chloroethyl)ether	1.331	1.329	0.2	112	0.00
12	1,3-Dichlorobenzene	1.424	1.387	2.6	108	0.00
13 C	1,4-Dichlorobenzene	1.444	1.412	2.2	108	0.00
14	1,2-Dichlorobenzene	1.399	1.367	2.3	109	0.00
15	Benzyl Alcohol	1.122	1.160	-3.4	117	0.00
16	2,2'-oxybis(1-Chloropropane	1.822	1.794	1.5	112	0.00
17	2-Methylphenol	1.182	1.208	-2.2	115	0.00
18	Hexachloroethane	0.483	0.491	-1.7	111	0.00
19 P	n-Nitroso-di-n-propylamine	1.012	1.063	-5.0	119	0.00
20	3+4-Methylphenols	1.556	1.656	-6.4	120	0.00
21 I	Naphthalene-d8	1.000	1.000	0.0	127	0.00
22	Acetophenone	0.513	0.490	4.5	117	0.00
23 S	Nitrobenzene-d5	0.303	0.333	-9.9	128	0.00
24	Nitrobenzene	0.326	0.344	-5.5	124	0.00
25	Isophorone	0.719	0.697	3.1	123	0.00
26 C	2-Nitrophenol	0.094	0.142	-51.1#	170#	0.00
27	2,4-Dimethylphenol	0.310	0.311	-0.3	123	0.00
28	bis(2-Chloroethoxy)methane	0.433	0.428	1.2	124	0.00
29 C	2,4-Dichlorophenol	0.285	0.299	-4.9	127	0.00
30	1,2,4-Trichlorobenzene	0.326	0.312	4.3	118	0.00
31	Naphthalene	1.075	1.033	3.9	118	0.00
32	Benzoic acid	0.138	0.185	-34.1#	180#	0.00
33	4-Chloroaniline	0.476	0.475	0.2	125	0.00
34 C	Hexachlorobutadiene	0.189	0.179	5.3	115	0.00
35	Caprolactam	0.093	0.109	-17.2	153#	0.00
36 C	4-Chloro-3-methylphenol	0.311	0.339	-9.0	137	0.00
37	2-Methylnaphthalene	0.764	0.764	0.0	126	0.00
38	1-Methylnaphthalene	0.718	0.716	0.3	127	0.00
39 I	Acenaphthene-d10	1.000	1.000	0.0	147	0.00
40	1,2,4,5-Tetrachlorobenzene	0.616	0.561	8.9	126	0.00
41 P	Hexachlorocyclopentadiene	0.290	0.295	-1.7	144	0.00
42 S	2,4,6-Tribromophenol	0.201	0.241	-19.9	165#	0.00
43 C	2,4,6-Trichlorophenol	0.360	0.382	-6.1	147	0.00
44	2,4,5-Trichlorophenol	0.426	0.453	-6.3	147	0.00
45 S	2-Fluorobiphenyl	1.457	1.331	8.6	128	0.00
46	1,1'-Biphenyl	1.606	1.480	7.8	129	0.00
47	2-Chloronaphthalene	1.203	1.104	8.2	129	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012423\
 Data File : BP013571.D
 Acq On : 24 Jan 2023 15:13
 Operator : CG/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_P
 LabSampleId :
 SSTDCCC040

Quant Time: Jan 25 03:48:01 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 25 03:43:27 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48	2-Nitroaniline	0.241	0.326	-35.3#	181#	0.00
49	Acenaphthylene	1.968	1.875	4.7	135	0.00
50	Dimethylphthalate	1.487	1.504	-1.1	147	0.00
51	2,6-Dinitrotoluene	0.240	0.313	-30.4#	174#	0.00
52 C	Acenaphthene	1.216	1.183	2.7	139	0.00
53	3-Nitroaniline	0.275	0.361	-31.3#	176#	0.00
54 P	2,4-Dinitrophenol	0.058	0.118	-103.4#	267#	0.00
55	Dibenzofuran	1.864	1.797	3.6	139	0.00
56 P	4-Nitrophenol	0.212	0.288	-35.8#	185#	0.00
57	2,4-Dinitrotoluene	0.266	0.421	-58.3#	197#	0.00
58	Fluorene	1.482	1.443	2.6	140	0.00
59	2,3,4,6-Tetrachlorophenol	0.327	0.373	-14.1	162#	0.00
60	Diethylphthalate	1.452	1.521	-4.8	154#	0.00
61	4-Chlorophenyl-phenylether	0.729	0.712	2.3	142	0.00
62	4-Nitroaniline	0.265	0.376	-41.9#	178#	0.00
63	Azobenzene	1.411	1.367	3.1	141	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	166#	0.00
65	4,6-Dinitro-2-methylphenol	0.058	0.084	-44.8#	264#	0.00
66 c	n-Nitrosodiphenylamine	0.652	0.591	9.4	146	0.00
67	4-Bromophenyl-phenylether	0.222	0.200	9.9	147	0.00
68	Hexachlorobenzene	0.239	0.222	7.1	152#	0.00
69	Atrazine	0.187	0.197	-5.3	165#	0.00
70 C	Pentachlorophenol	0.139	0.160	-15.1	187#	0.00
71	Phenanthrene	1.113	1.061	4.7	154#	0.00
72	Anthracene	1.129	1.078	4.5	152#	0.00
73	Carbazole	1.015	1.015	0.0	159#	0.00
74	Di-n-butylphthalate	1.130	1.228	-8.7	172#	0.00
75 C	Fluoranthene	1.183	1.251	-5.7	166#	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	183#	0.00
77	Benzydine	0.503	0.576	-14.5	200#	0.00
78	Pyrene	1.529	1.345	12.0	166#	0.00
79 S	Terphenyl-d14	1.112	1.000	10.1	165#	0.00
80	Butylbenzylphthalate	0.487	0.567	-16.4	197#	0.00
81	Benzo(a)anthracene	1.393	1.340	3.8	171#	0.00
82	3,3'-Dichlorobenzidine	0.449	0.464	-3.3	176#	0.00
83	Chrysene	1.333	1.268	4.9	169#	0.00
84	Bis(2-ethylhexyl)phthalate	0.779	0.839	-7.7	189#	0.00
85 c	Di-n-octyl phthalate	1.256	1.423	-13.3	191#	0.00
86 I	Perylene-d12	1.000	1.000	0.0	173#	0.00
87	Indeno(1,2,3-cd)pyrene	1.473	1.333	9.5	145	0.00
88	Benzo(b)fluoranthene	1.230	1.204	2.1	164#	0.00
89	Benzo(k)fluoranthene	1.255	1.230	2.0	168#	0.00
90 C	Benzo(a)pyrene	1.194	1.155	3.3	161#	0.00
91	Dibenzo(a,h)anthracene	1.236	1.129	8.7	147	0.00
92	Benzo(g,h,i)perylene	1.206	1.048	13.1	140	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012423\
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ALS Vial : 2 Sample Multiplier: 1

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 25 03:43:27 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range

SPCC's out = 0 CCC's out = 1

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012423\
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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	115	0.00
2	1,4-Dioxane	40.000	38.145	4.6	104	0.00
3	Pyridine	40.000	39.249	1.9	106	0.00
4	n-Nitrosodimethylamine	40.000	36.923	7.7	101	0.00
5 S	2-Fluorophenol	80.000	78.628	1.7	107	0.00
6	Aniline	40.000	40.287	-0.7	113	0.00
7 S	Phenol-d6	80.000	81.309	-1.6	113	0.00
8	2-Chlorophenol	40.000	41.073	-2.7	114	0.00
9	Benzaldehyde	40.000	35.691	10.8	111	0.00
10 C	Phenol	40.000	40.565	-1.4	113	0.00
11	bis(2-Chloroethyl)ether	40.000	39.929	0.2	112	0.00
12	1,3-Dichlorobenzene	40.000	38.961	2.6	108	0.00
13 C	1,4-Dichlorobenzene	40.000	39.114	2.2	108	0.00
14	1,2-Dichlorobenzene	40.000	39.097	2.3	109	0.00
15	Benzyl Alcohol	40.000	41.352	-3.4	117	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	39.385	1.5	112	0.00
17	2-Methylphenol	40.000	40.871	-2.2	115	0.00
18	Hexachloroethane	40.000	40.653	-1.6	111	0.00
19 P	n-Nitroso-di-n-propylamine	40.000	42.005	-5.0	119	0.00
20	3+4-Methylphenols	40.000	42.571	-6.4	120	0.00
21 I	Naphthalene-d8	20.000	20.000	0.0	127	0.00
22	Acetophenone	40.000	38.180	4.6	117	0.00
23 S	Nitrobenzene-d5	80.000	87.889	-9.9	128	0.00
24	Nitrobenzene	40.000	42.241	-5.6	124	0.00
25	Isophorone	40.000	38.819	3.0	123	0.00
26 C	2-Nitrophenol	40.000	48.199	-20.5#	170	0.00
27	2,4-Dimethylphenol	40.000	40.144	-0.4	123	0.00
28	bis(2-Chloroethoxy)methane	40.000	39.512	1.2	124	0.00
29 C	2,4-Dichlorophenol	40.000	41.944	-4.9	127	0.00
30	1,2,4-Trichlorobenzene	40.000	38.366	4.1	118	0.00
31	Naphthalene	40.000	38.438	3.9	118	0.00
32	Benzoic acid	40.000	49.345	-23.4	180	0.00
33	4-Chloroaniline	40.000	39.901	0.2	125	0.00
34 C	Hexachlorobutadiene	40.000	37.868	5.3	115	0.00
35	Caprolactam	40.000	47.340	-18.4	153	0.00
36 C	4-Chloro-3-methylphenol	40.000	43.614	-9.0	137	0.00
37	2-Methylnaphthalene	40.000	39.978	0.1	126	0.00
38	1-Methylnaphthalene	40.000	39.906	0.2	127	0.00
39 I	Acenaphthene-d10	20.000	20.000	0.0	147	0.00
40	1,2,4,5-Tetrachlorobenzene	40.000	36.444	8.9	126	0.00
41 P	Hexachlorocyclopentadiene	40.000	38.629	3.4	144	0.00
42 S	2,4,6-Tribromophenol	80.000	95.975	-20.0	165	0.00
43 C	2,4,6-Trichlorophenol	40.000	42.355	-5.9	147	0.00
44	2,4,5-Trichlorophenol	40.000	42.530	-6.3	147	0.00
45 S	2-Fluorobiphenyl	80.000	73.084	8.6	128	0.00
46	1,1'-Biphenyl	40.000	36.857	7.9	129	0.00
47	2-Chloronaphthalene	40.000	36.698	8.3	129	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012423\
 Data File : BP013571.D
 Acq On : 24 Jan 2023 15:13
 Operator : CG/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_P
 LabSampleId :
 SSTDCCC040

Quant Time: Jan 25 03:48:01 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 25 03:43:27 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48	2-Nitroaniline	40.000	43.909	-9.8	181	0.00
49	Acenaphthylene	40.000	38.102	4.7	135	0.00
50	Dimethylphthalate	40.000	40.475	-1.2	147	0.00
51	2,6-Dinitrotoluene	40.000	43.626	-9.1	174	0.00
52 C	Acenaphthene	40.000	38.921	2.7	139	0.00
53	3-Nitroaniline	40.000	43.986	-10.0	176	0.00
54 P	2,4-Dinitrophenol	40.000	56.351	-40.9#	267	0.00
55	Dibenzofuran	40.000	38.570	3.6	139	0.00
56 P	4-Nitrophenol	40.000	47.976	-19.9	185	0.00
57	2,4-Dinitrotoluene	40.000	48.771	-21.9	197	0.00
58	Fluorene	40.000	38.957	2.6	140	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	45.624	-14.1	162	0.00
60	Diethylphthalate	40.000	41.887	-4.7	154	0.00
61	4-Chlorophenyl-phenylether	40.000	39.100	2.2	142	0.00
62	4-Nitroaniline	40.000	47.406	-18.5	178	0.00
63	Azobenzene	40.000	38.742	3.1	141	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	166	0.00
65	4,6-Dinitro-2-methylphenol	40.000	51.694	-29.2#	264	0.00
66 c	n-Nitrosodiphenylamine	40.000	36.261	9.3	146	0.00
67	4-Bromophenyl-phenylether	40.000	36.200	9.5	147	0.00
68	Hexachlorobenzene	40.000	37.067	7.3	152	0.00
69	Atrazine	40.000	42.129	-5.3	165	0.00
70 C	Pentachlorophenol	40.000	42.768	-6.9	187	0.00
71	Phenanthrene	40.000	38.150	4.6	154	0.00
72	Anthracene	40.000	38.194	4.5	152	0.00
73	Carbazole	40.000	40.015	-0.0	159	0.00
74	Di-n-butylphthalate	40.000	43.497	-8.7	172	0.00
75 C	Fluoranthene	40.000	42.274	-5.7	166	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	183	0.00
77	Benzidine	40.000	45.793	-14.5	200	0.00
78	Pyrene	40.000	35.184	12.0	166	0.00
79 S	Terphenyl-d14	80.000	71.980	10.0	165	0.00
80	Butylbenzylphthalate	40.000	46.542	-16.4	197	0.00
81	Benzo(a)anthracene	40.000	38.480	3.8	171	0.00
82	3,3'-Dichlorobenzidine	40.000	41.332	-3.3	176	0.00
83	Chrysene	40.000	38.058	4.9	169	0.00
84	Bis(2-ethylhexyl)phthalate	40.000	43.073	-7.7	189	0.00
85 c	Di-n-octyl phthalate	40.000	45.299	-13.2	191	0.00
86 I	Perylene-d12	20.000	20.000	0.0	173	0.00
87	Indeno(1,2,3-cd)pyrene	40.000	36.191	9.5	145	0.00
88	Benzo(b)fluoranthene	40.000	39.131	2.2	164	0.00
89	Benzo(k)fluoranthene	40.000	39.202	2.0	168	0.00
90 C	Benzo(a)pyrene	40.000	38.718	3.2	161	0.00
91	Dibenzo(a,h)anthracene	40.000	36.557	8.6	147	0.00
92	Benzo(g,h,i)perylene	40.000	34.739	13.2	140	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012423\
Data File : BP013571.D
Acq On : 24 Jan 2023 15:13
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Jan 25 03:48:01 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 25 03:43:27 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 1

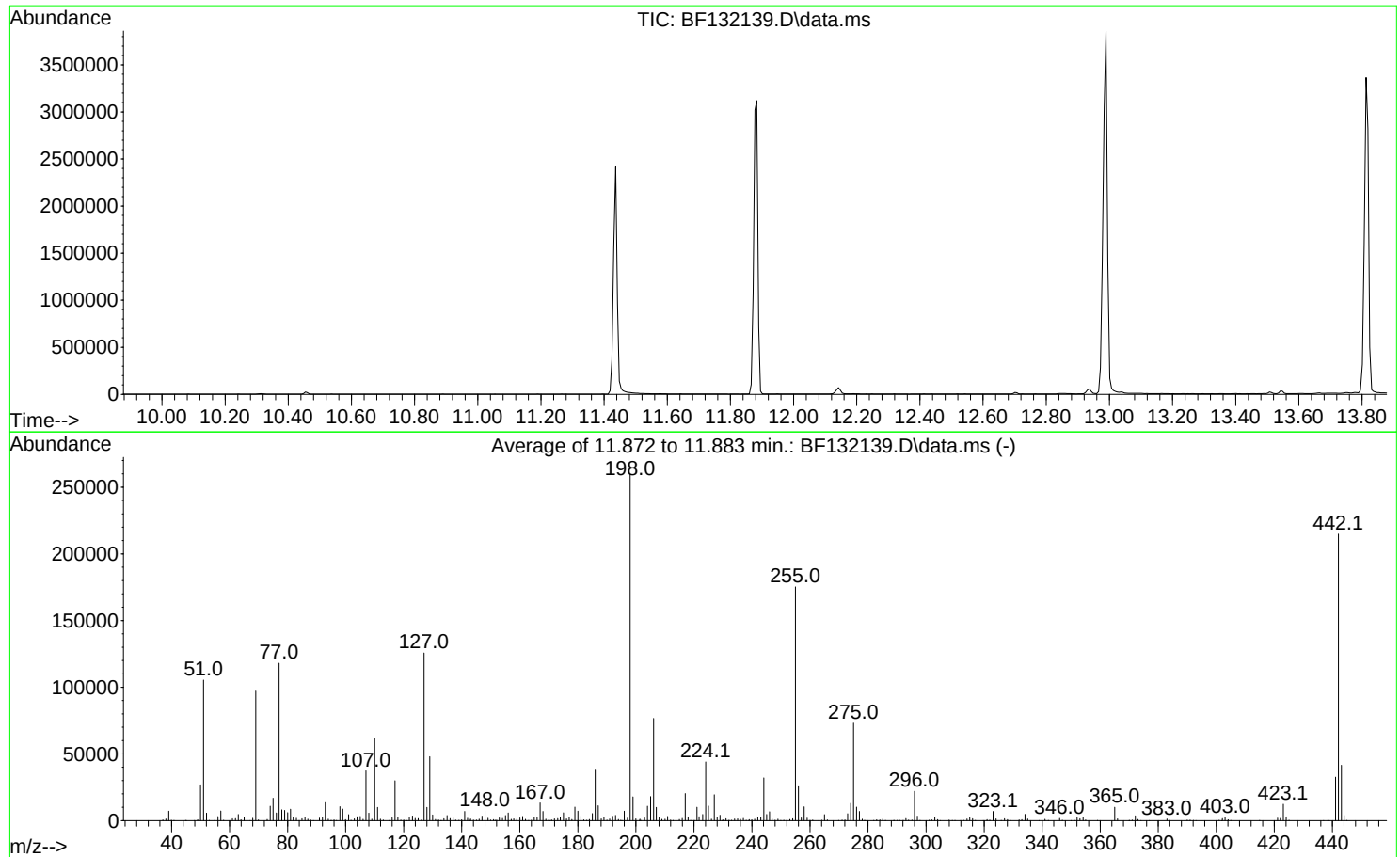
QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011923\
Data File : BF132139.D
Acq On : 19 Jan 2023 10:46
Operator : CG\JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jan 20 00:50:42 2023



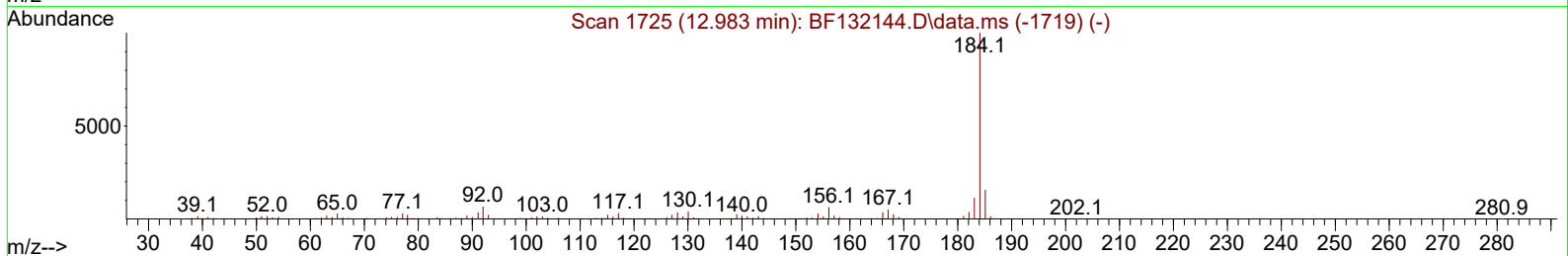
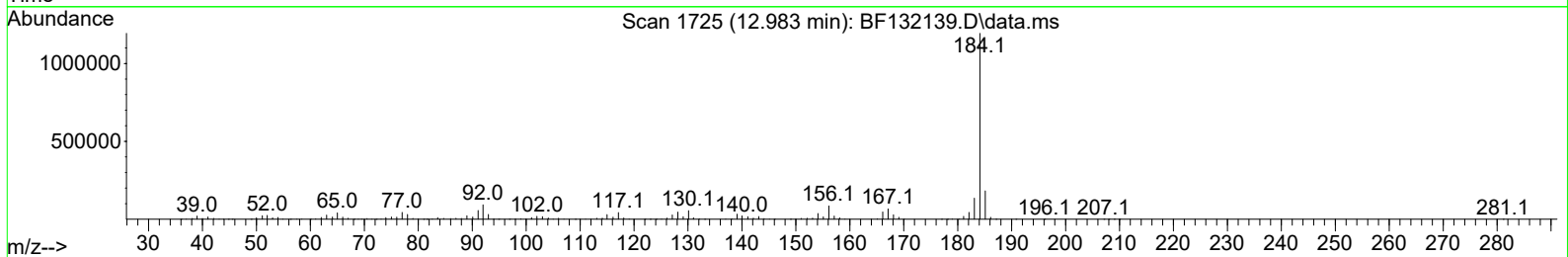
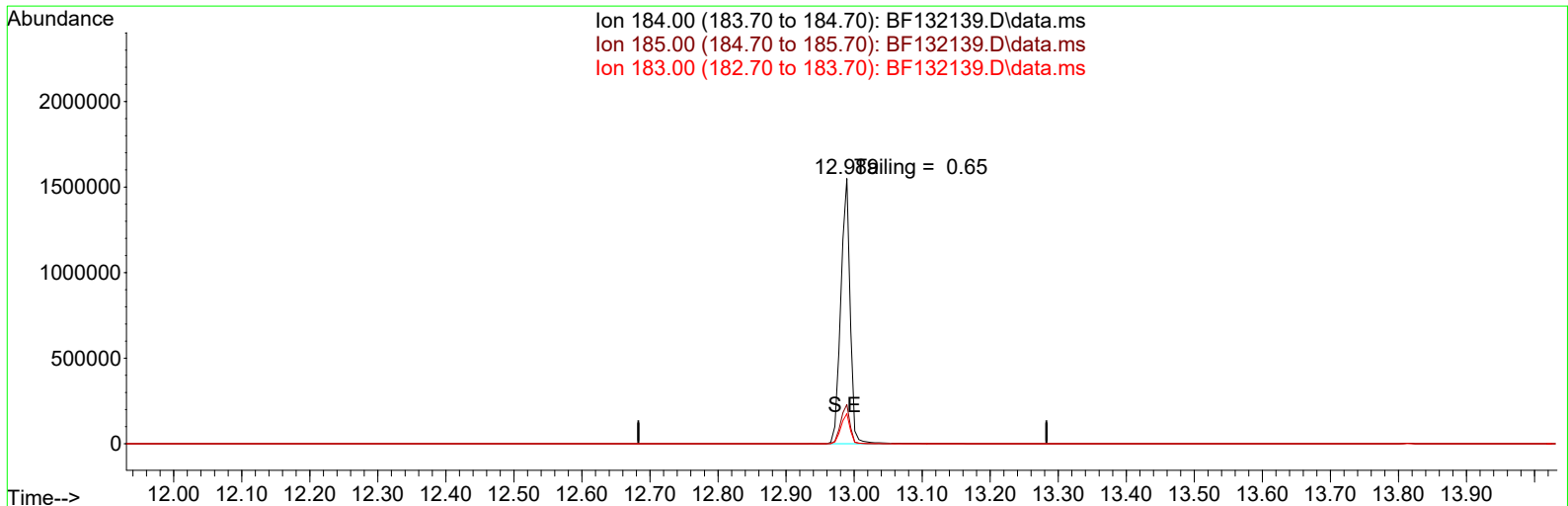
AutoFind: Scans 1536, 1537, 1538; Background Corrected with Scan 1531

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	40.6	105352	PASS
68	69	0.00	2	1.8	1732	PASS
69	198	0.00	100	37.4	97160	PASS
70	69	0.00	2	0.5	531	PASS
127	198	10	80	48.4	125669	PASS
197	198	0.00	2	0.7	1878	PASS
198	198	100	100	100.0	259491	PASS
199	198	5	9	6.8	17763	PASS
275	198	10	60	28.2	73136	PASS
365	198	1	100	3.9	10047	PASS
441	198	0.01	100	12.5	32537	PASS
442	442	50	100	100.0	214824	PASS
443	442	15	24	19.3	41519	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011923\
Data File : BF132139.D
Acq On : 19 Jan 2023 10:46
Operator : CG\JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Jan 20 05:07:54 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 20 00:50:42 2023
Response via : Initial Calibration



TIC: BF132139.D\data.ms

(77) Benzidine

12.983min (-12.983) 0.00 ng

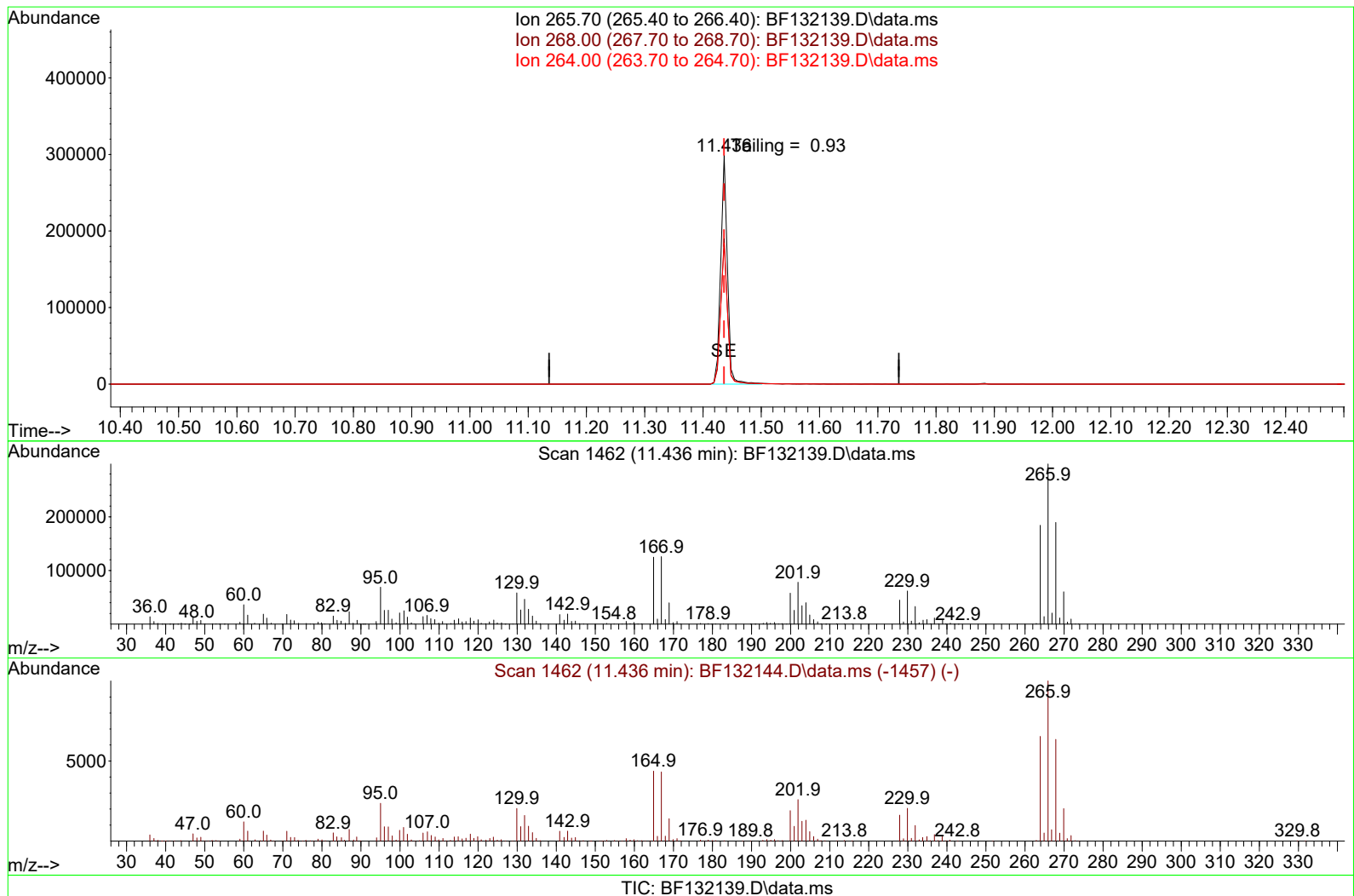
response 0

Ion	Exp%	Act%
184.00	100.00	0.00
185.00	15.60	0.00#
183.00	11.20	0.00#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011923\
Data File : BF132139.D
Acq On : 19 Jan 2023 10:46
Operator : CG\JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Jan 20 05:07:54 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 20 00:50:42 2023
Response via : Initial Calibration



TIC: BF132139.D\data.ms

(70) Pentachlorophenol (C)

11.436min (+ 0.000) 469730.41 ng

response 241341

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.50	63.47
264.00	65.40	61.76
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
1/19/2023	BNA_F	<u>BF132139.D</u>
Compound Name	Response	Retention Time
DDT	531182	13.813
DDD	6943	13.542
DDE	353	13.172
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
7296	538478	1.35

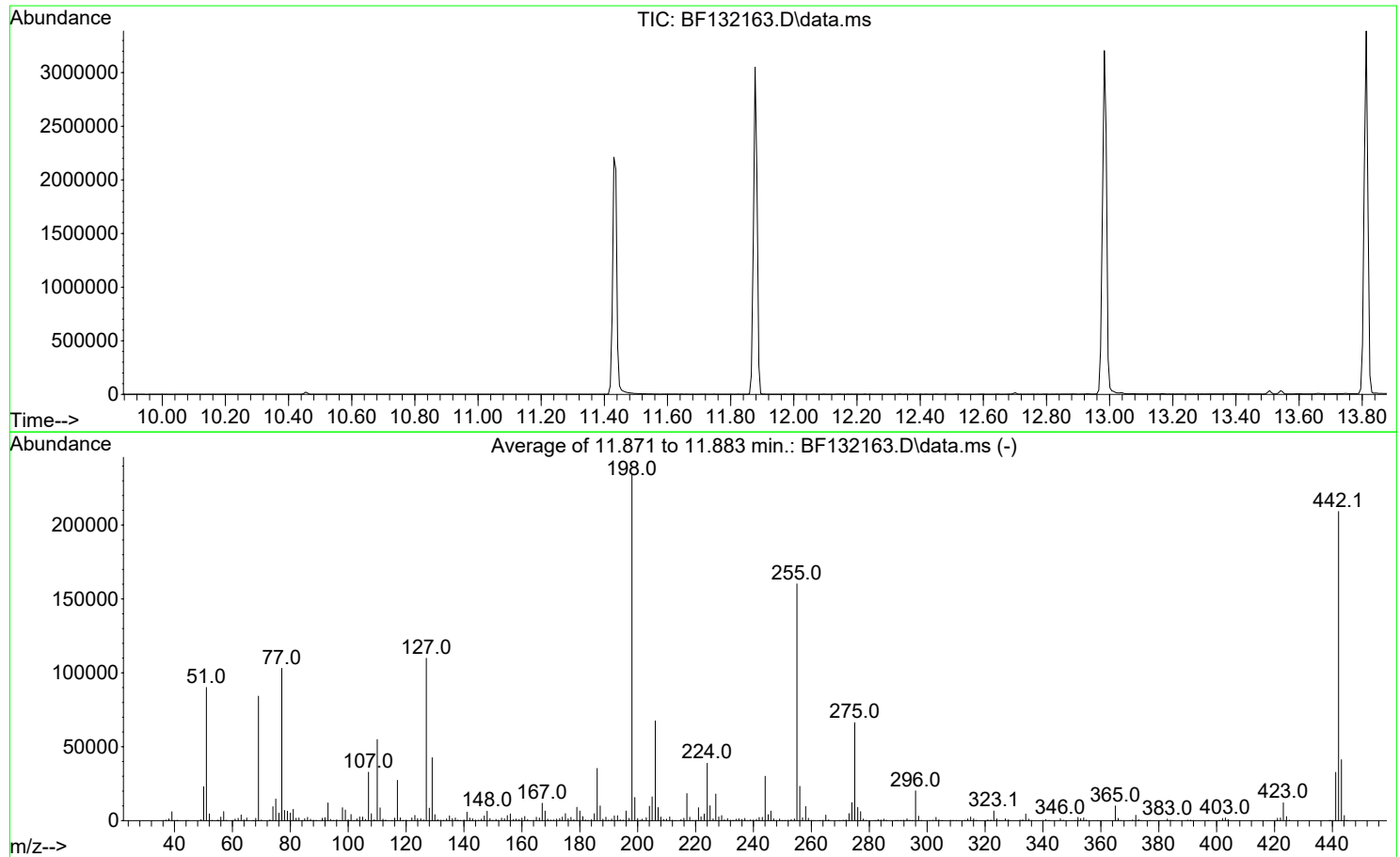
Instrument :
BNA_F
ClientSampleId :
DFTPP

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132163.D
Acq On : 20 Jan 2023 16:08
Operator : CG\JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jan 20 00:50:42 2023



AutoFind: Scans 1536, 1537, 1538; Background Corrected with Scan 1531

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	38.5	90128	PASS
68	69	0.00	2	1.9	1614	PASS
69	198	0.00	100	36.0	84219	PASS
70	69	0.00	2	0.5	412	PASS
127	198	10	80	46.9	109877	PASS
197	198	0.00	2	0.7	1548	PASS
198	198	100	100	100.0	234176	PASS
199	198	5	9	6.7	15675	PASS
275	198	10	60	28.3	66331	PASS
365	198	1	100	4.3	9988	PASS
441	198	0.01	100	13.9	32650	PASS
442	442	50	100	100.0	209173	PASS
443	442	15	24	19.7	41258	PASS

DDT Breakdown

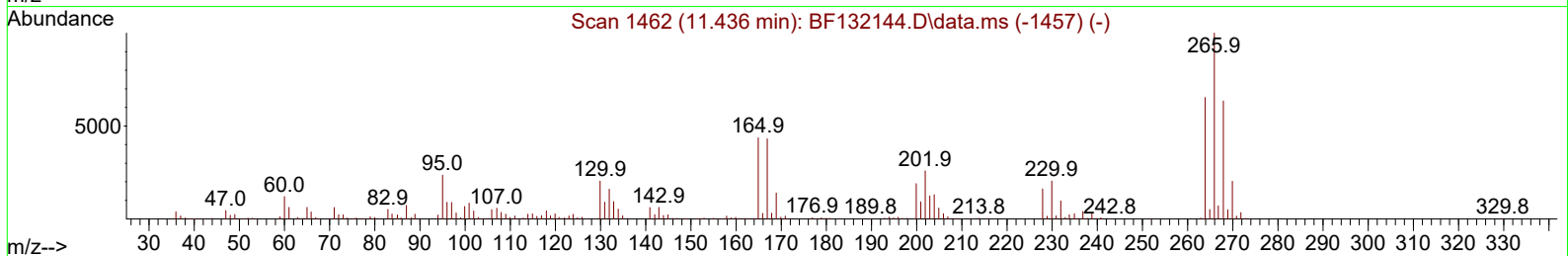
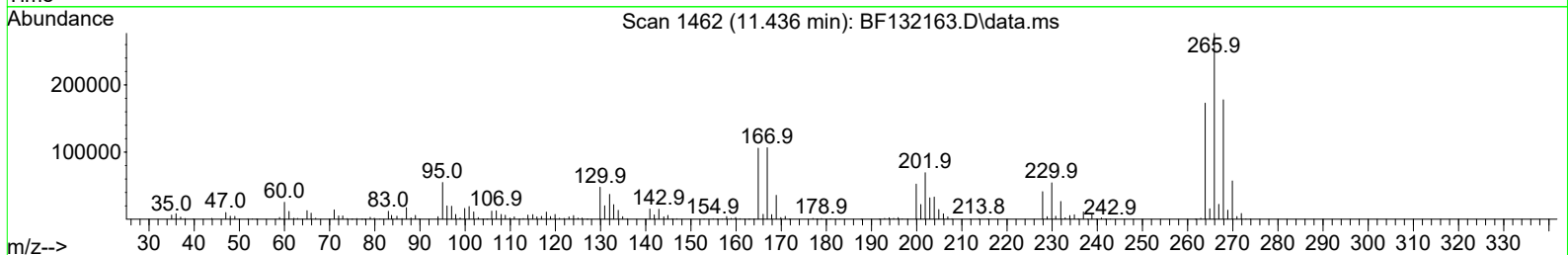
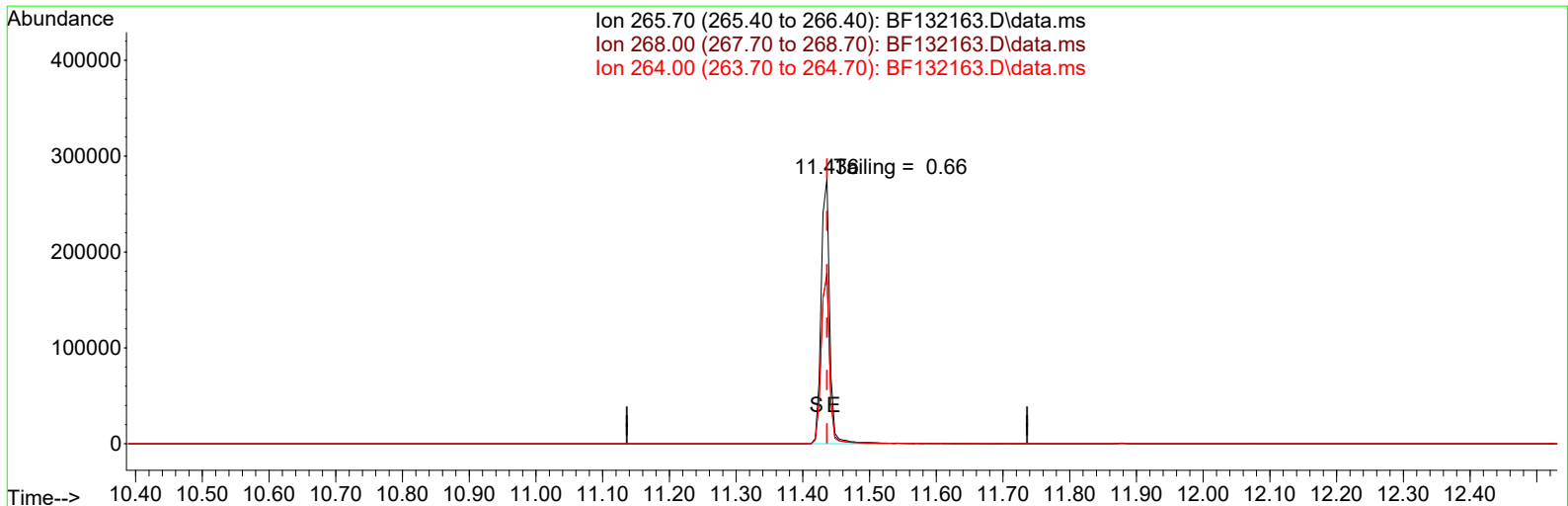
Date	Instrument Name	DFTPP Data File
1/20/2023	BNA_F	<u>BF132163.D</u>
Compound Name	Response	Retention Time
DDT	531722	13.813
DDD	9556	13.507
DDE	599	13.166
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
10155	541877	1.87

Instrument :
BNA_F
ClientSampleId :
DFTPP

```
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\  
Data File : BF132163.D  
Acq On    : 20 Jan 2023  16:08  
Operator  : CG\JU  
Sample    : DFTPP  
Misc      :  
ALS Vial  : 1    Sample Multiplier: 1
```

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Jan 21 05:32:13 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 20 00:50:42 2023
Response via : Initial Calibration



TIC: BF132163.D\data.ms

(70) Pentachlorophenol (C)

11.436min (-0.000) 583456.70 ng

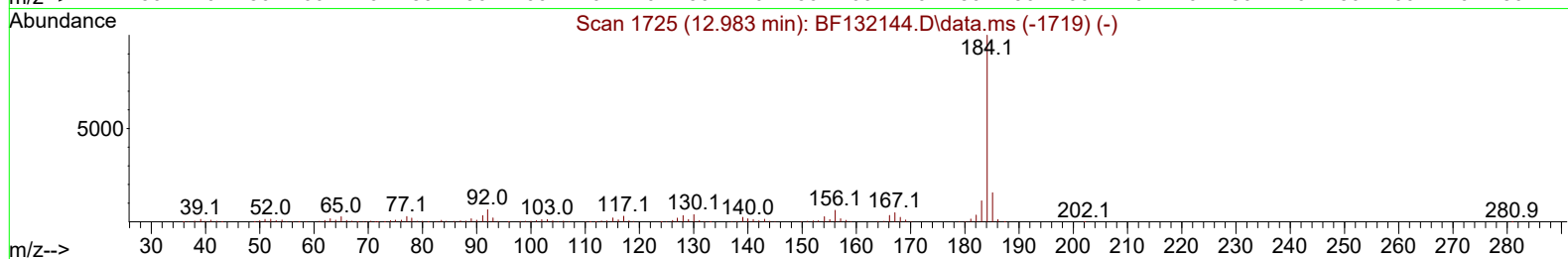
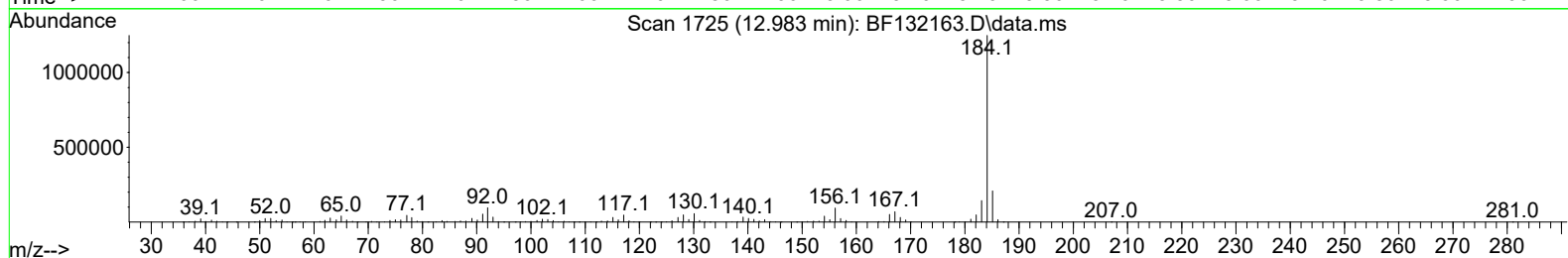
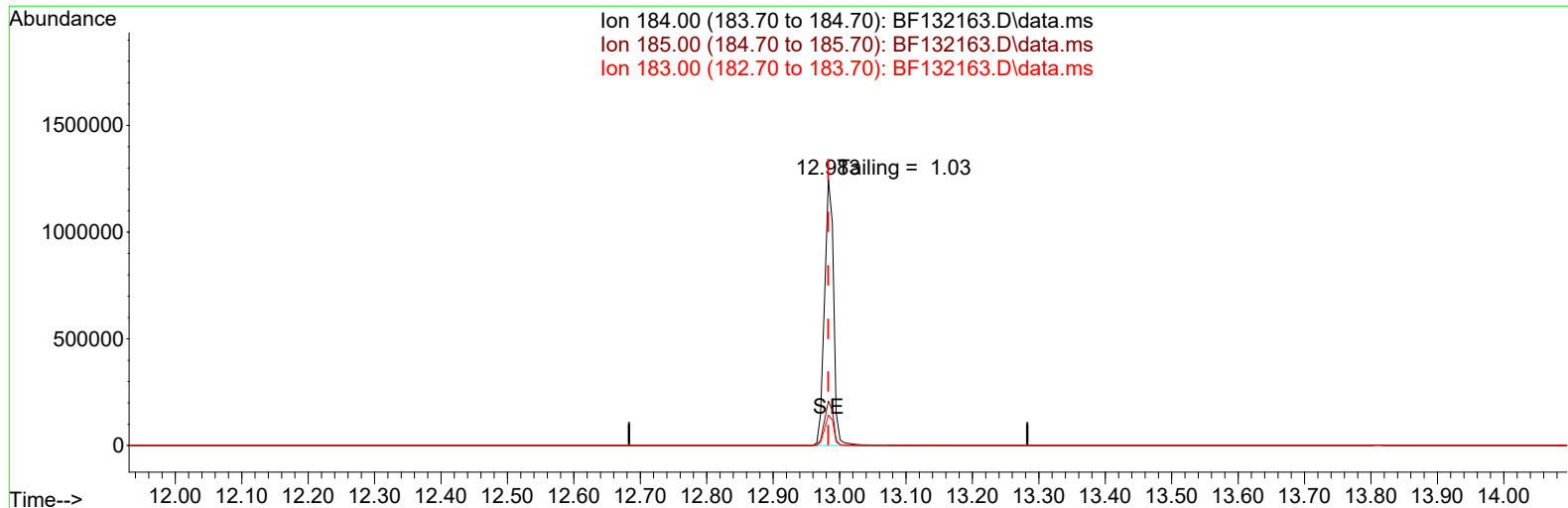
response **245268**

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.50	64.26
264.00	65.40	62.50
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132163.D
Acq On : 20 Jan 2023 16:08
Operator : CG\JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Jan 21 05:32:13 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 20 00:50:42 2023
Response via : Initial Calibration



TIC: BF132163.D\data.ms

(77) Benzidine

12.983min (+ 0.000) 697715.54 ng

response 1194065

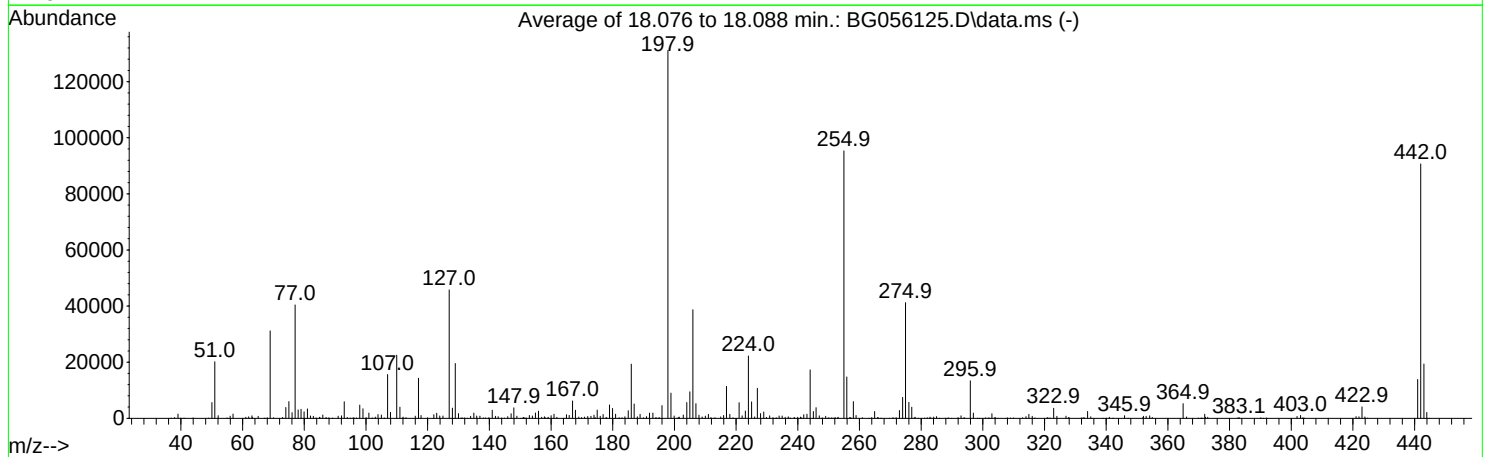
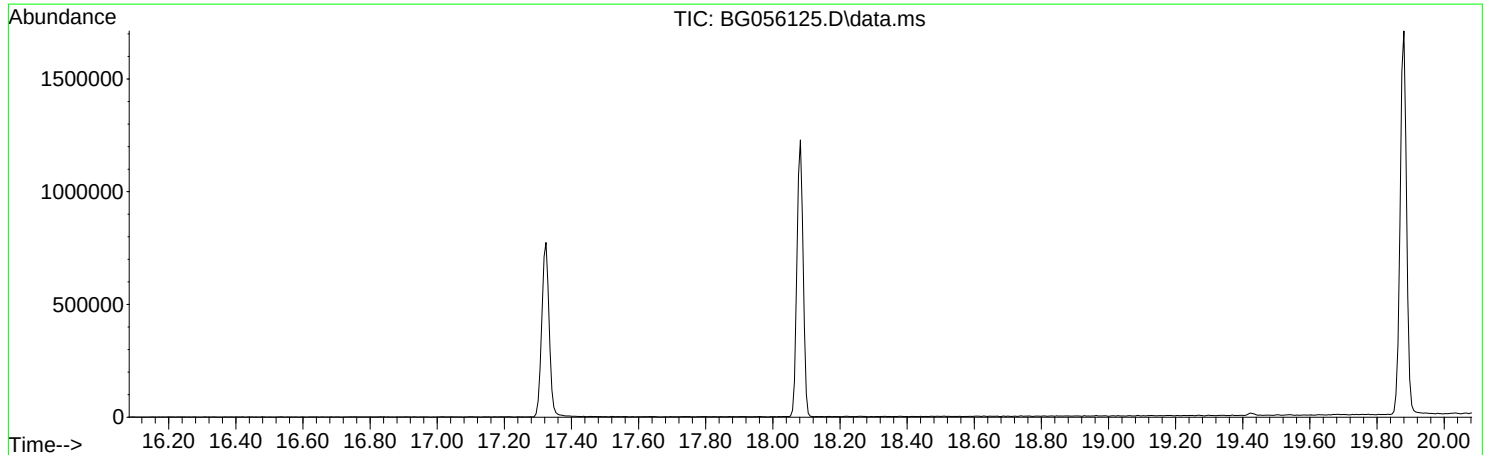
Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.60	16.72
183.00	11.20	11.48
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122722\
 Data File : BG056125.D
 Acq On : 27 Dec 2022 14:13
 Operator : CG/JU
 Sample : DFTPP
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Dec 28 05:20:14 2022



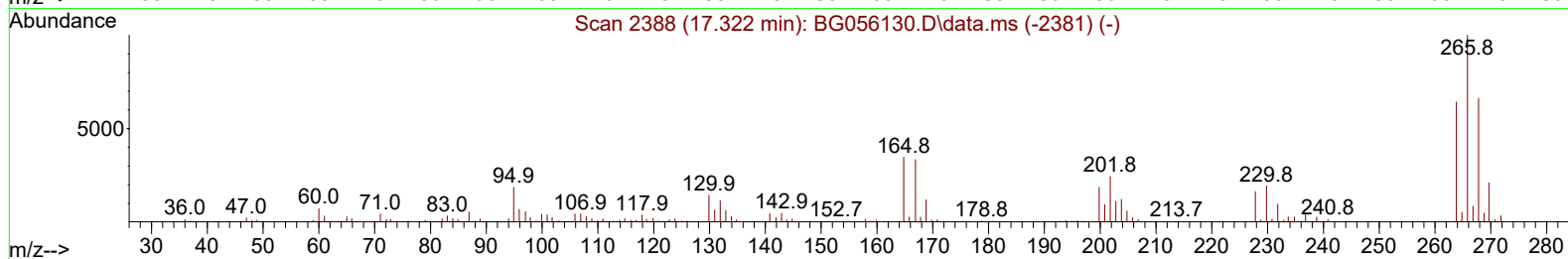
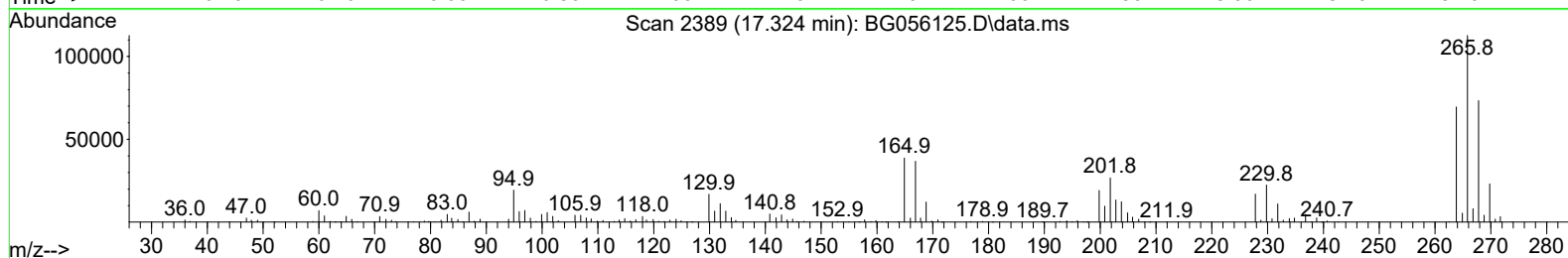
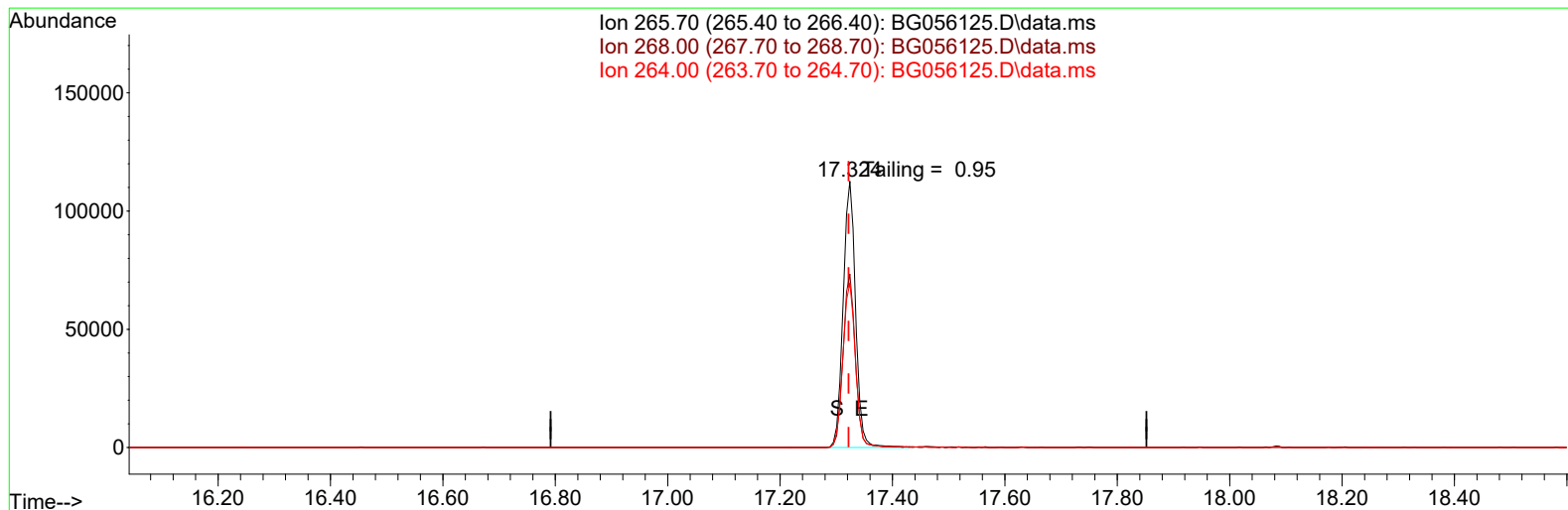
AutoFind: Scans 2517, 2518, 2519; Background Corrected with Scan 2510

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	15.4	20160	PASS
68	69	0.00	2	0.7	205	PASS
69	198	0.00	100	23.8	31181	PASS
70	69	0.00	2	0.6	187	PASS
127	198	10	80	34.9	45787	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	131133	PASS
199	198	5	9	6.8	8962	PASS
275	198	10	60	31.4	41187	PASS
365	198	1	100	4.0	5228	PASS
441	198	0.01	100	10.6	13843	PASS
442	442	50	100	100.0	90691	PASS
443	442	15	24	21.4	19397	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122722\
Data File : BG056125.D
Acq On : 27 Dec 2022 14:13
Operator : CG/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
DFTPP

Quant Time: Dec 28 06:08:28 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 28 05:20:14 2022
Response via : Initial Calibration



TIC: BG056125.D\data.ms

(70) Pentachlorophenol (C)

17.324min (+ 0.002) 311339.09 ng

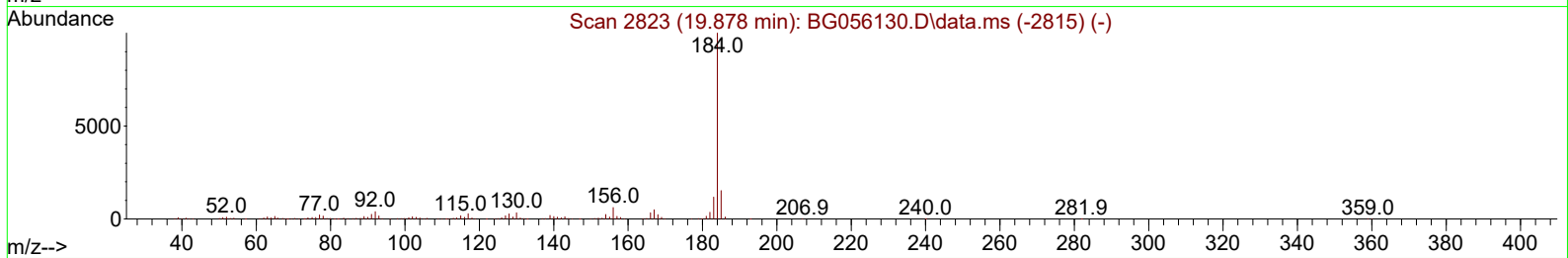
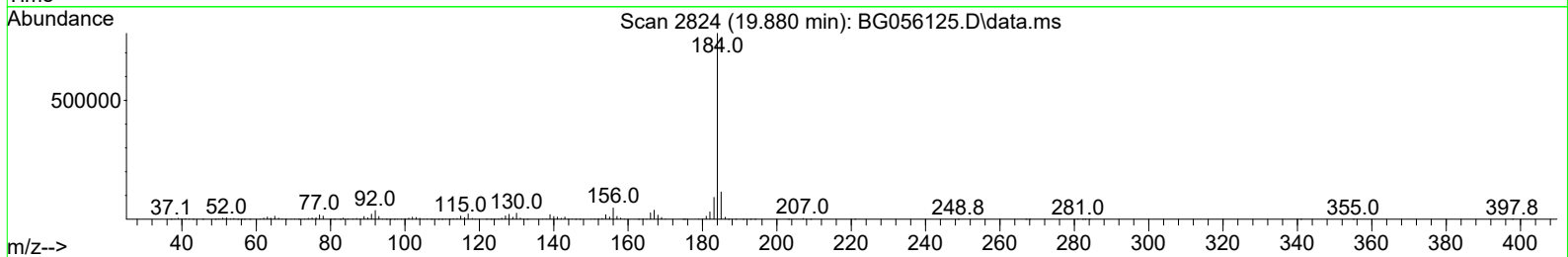
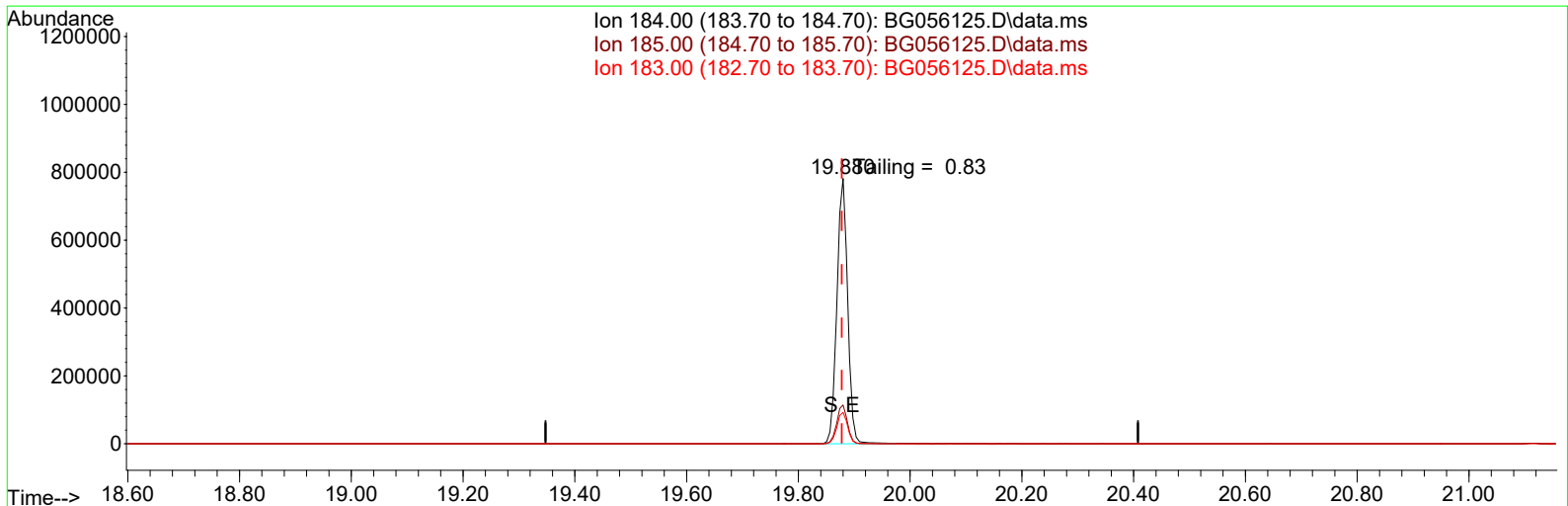
response 173323

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	66.20	65.12
264.00	64.30	61.77
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122722\
Data File : BG056125.D
Acq On : 27 Dec 2022 14:13
Operator : CG/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
DFTPP

Quant Time: Dec 28 06:08:28 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 28 05:20:14 2022
Response via : Initial Calibration



TIC: BG056125.D\data.ms

(77) Benzidine**19.880min (+ 0.002) 489409.95 ng****response 1046213**

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.20	14.63
183.00	11.70	11.80
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
12/27/2022	BNA_G	BG056125.D
Compound Name	Response	Retention Time
DDT	475579	21.114
DDD	6426	20.714
DDE	0	20.016
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
6426	482005	1.33

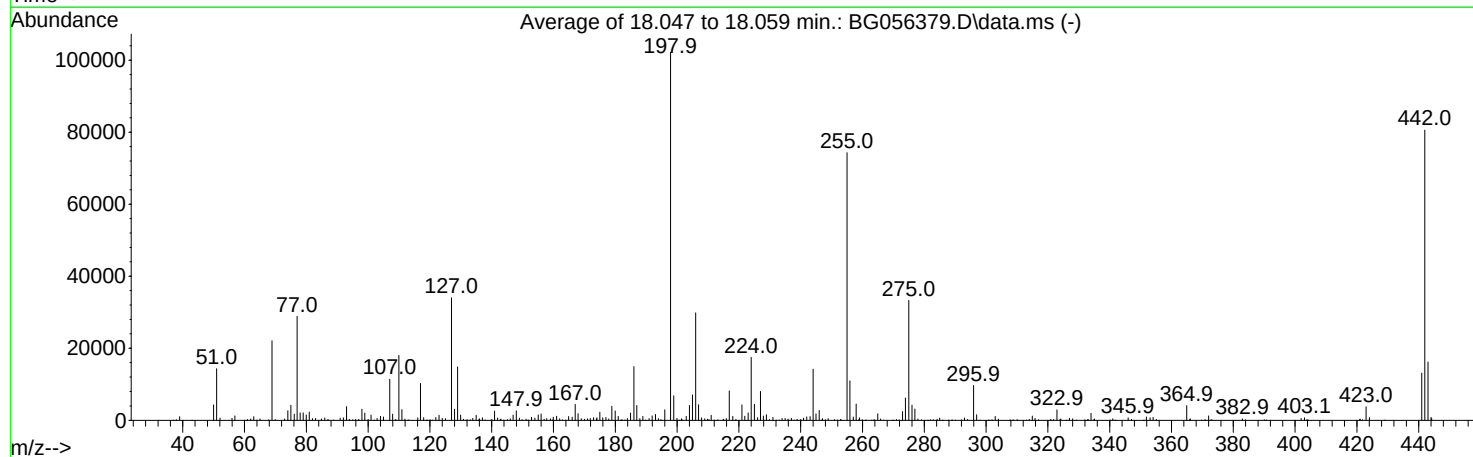
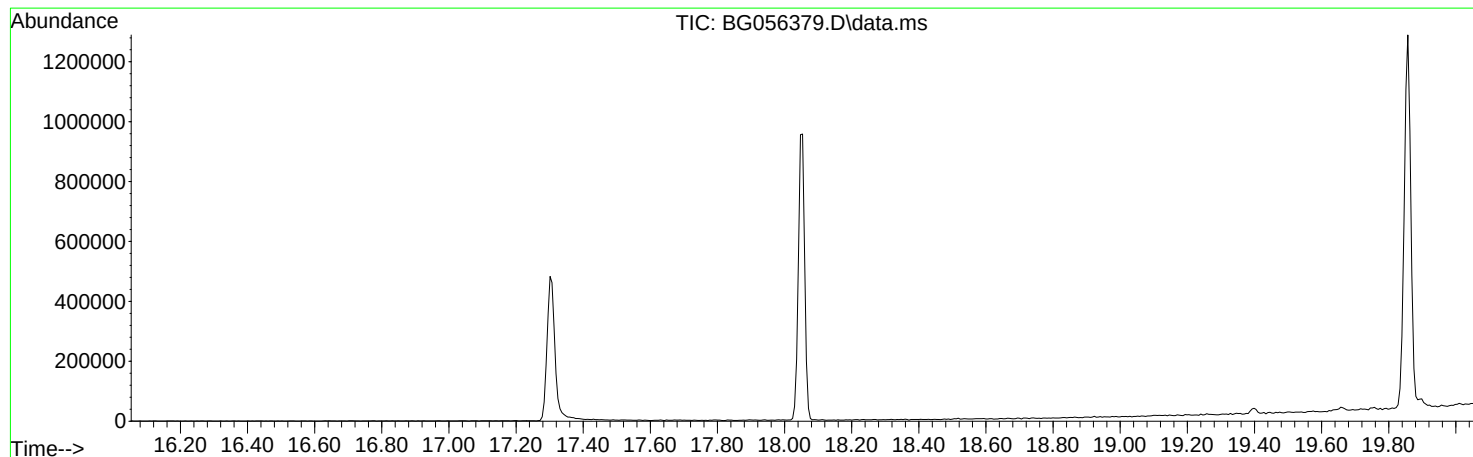
Instrument :
BNA_G
ClientSampleId :
DFTPP

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG012323\
Data File : BG056379.D
Acq On : 23 Jan 2023 10:46
Operator : CG/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Jan 19 00:31:30 2023



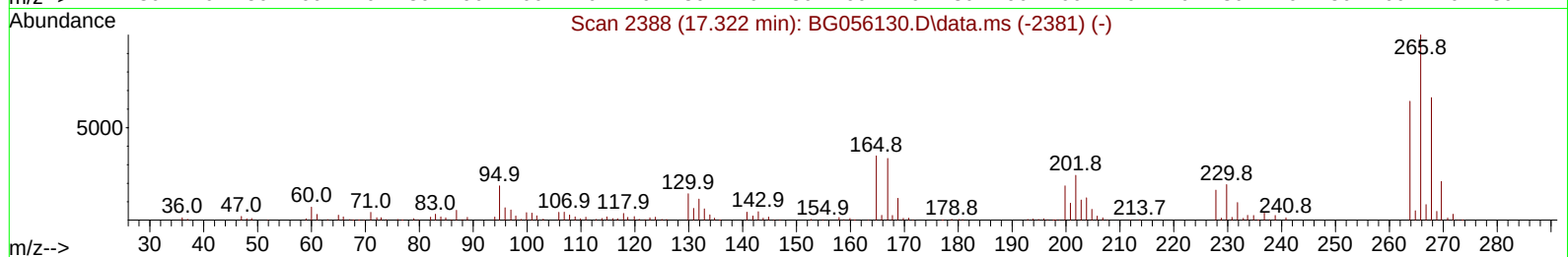
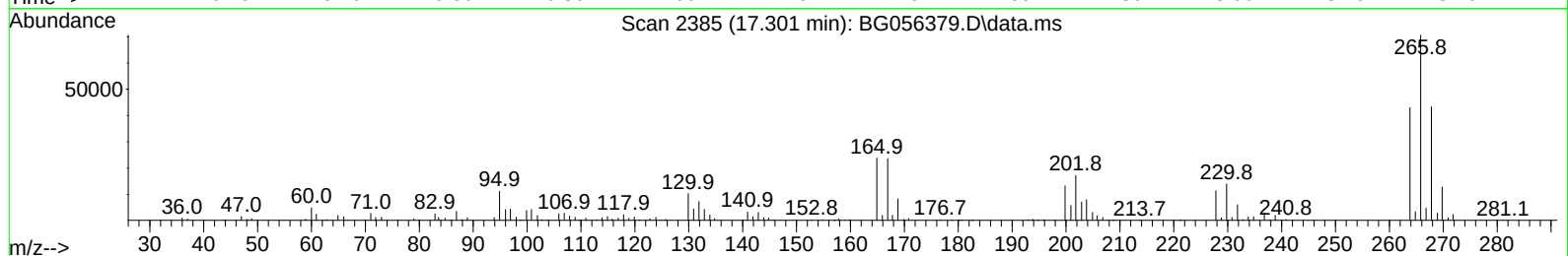
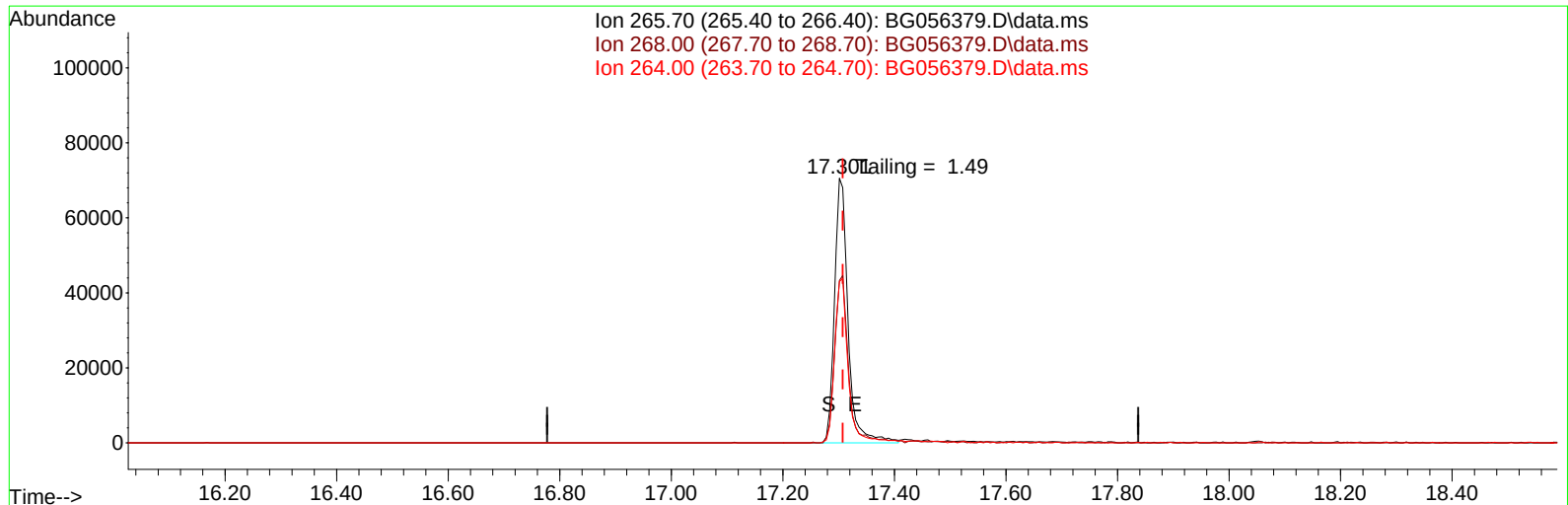
AutoFind: Scans 2512, 2513, 2514; Background Corrected with Scan 2504

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	14.0	14345	PASS
68	69	0.00	2	0.4	97	PASS
69	198	0.00	100	21.6	22095	PASS
70	69	0.00	2	0.8	183	PASS
127	198	10	80	33.3	34013	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	102163	PASS
199	198	5	9	6.7	6806	PASS
275	198	10	60	32.6	33299	PASS
365	198	1	100	4.0	4075	PASS
441	198	0.01	100	12.8	13078	PASS
442	442	50	100	100.0	80573	PASS
443	442	15	24	20.1	16215	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG012323\
Data File : BG056379.D
Acq On : 23 Jan 2023 10:46
Operator : CG/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
DFTPP

Quant Time: Jan 24 04:48:46 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 19 00:31:30 2023
Response via : Initial Calibration



TIC: BG056379.D\data.ms

(70) Pentachlorophenol (C)

17.301min (-0.006) 207454.78 ng

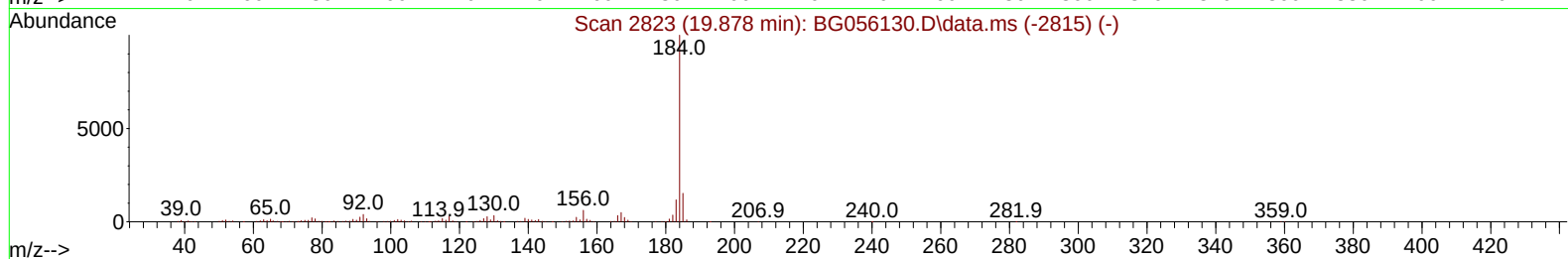
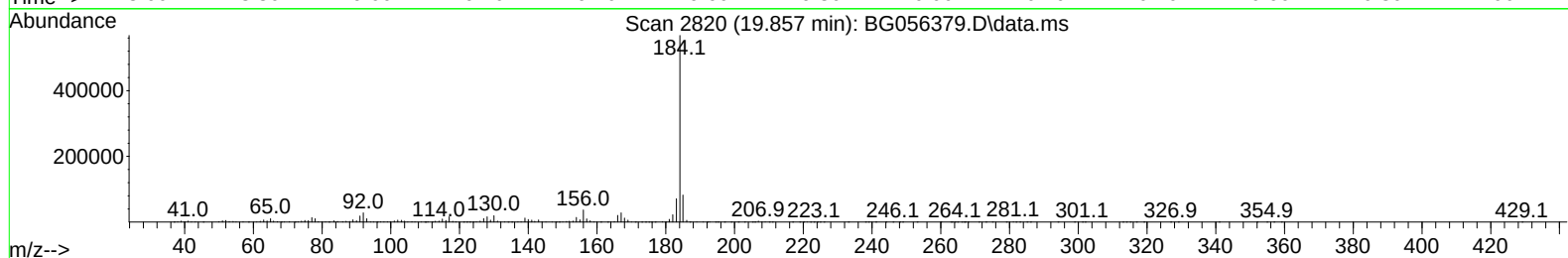
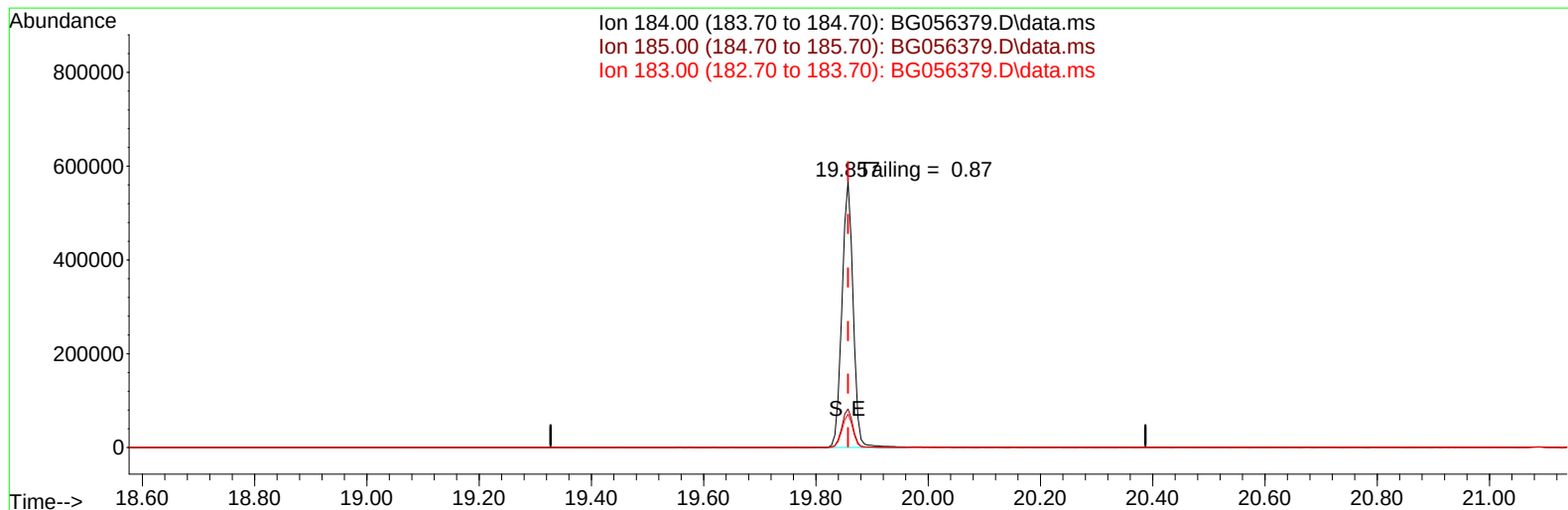
response 119277

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	66.20	61.37
264.00	64.30	60.93
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG012323\
Data File : BG056379.D
Acq On : 23 Jan 2023 10:46
Operator : CG/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
DFTPP

Quant Time: Jan 24 04:48:46 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 19 00:31:30 2023
Response via : Initial Calibration



TIC: BG056379.D\data.ms

(77) Benzidine

19.857min (+ 0.000) 38441.69 ng

response 788090

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.20	14.48
183.00	11.70	12.54
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
1/23/2023	BNA_G	<u>BG056379.D</u>
Compound Name	Response	Retention Time
DDT	355347	21.085
DDD	9088	20.639
DDE	1108	20.133
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
10196	365543	2.79

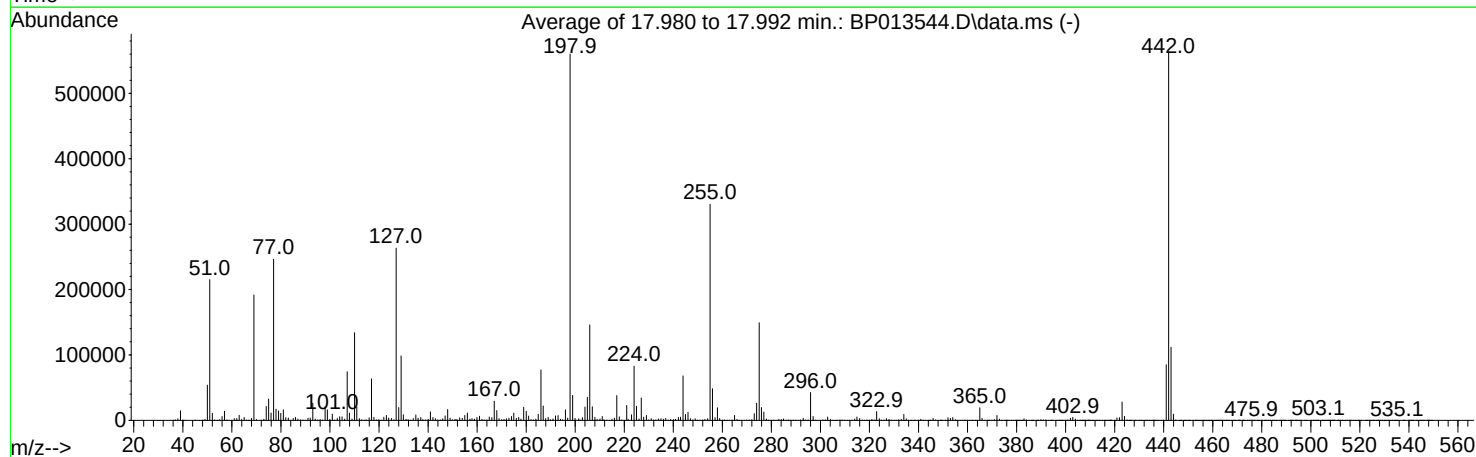
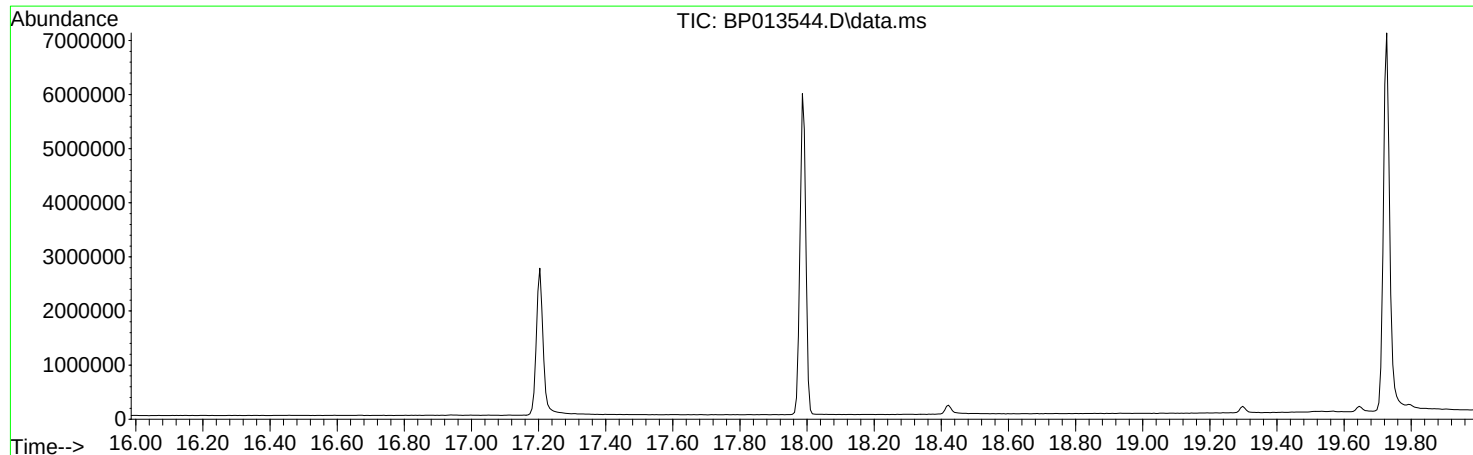
Instrument :
BNA_G
ClientSampleId :
DFTPP

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012323\
Data File : BP013544.D
Acq On : 23 Jan 2023 10:51
Operator : CG/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Jan 24 04:44:15 2023



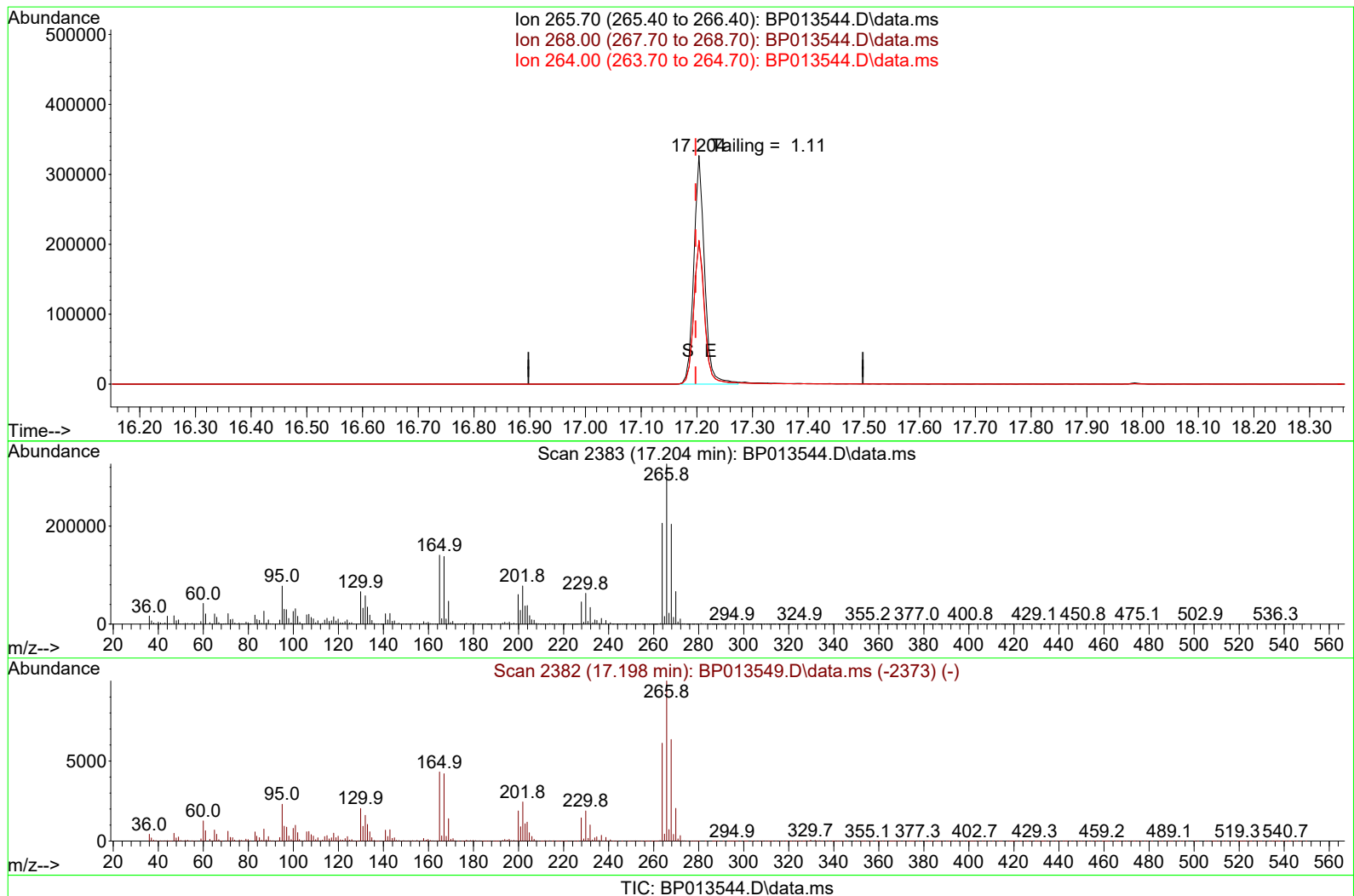
AutoFind: Scans 2515, 2516, 2517; Background Corrected with Scan 2505

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	38.4	215161	PASS
68	69	0.00	2	1.7	3171	PASS
69	198	0.00	100	34.2	191778	PASS
70	69	0.00	2	0.6	1101	PASS
127	198	10	80	47.0	263314	PASS
197	198	0.00	2	0.6	3272	PASS
198	198	100	100	100.0	560212	PASS
199	198	5	9	6.8	37959	PASS
275	198	10	60	26.6	149212	PASS
365	198	1	100	3.4	19282	PASS
441	198	0.01	100	15.2	85136	PASS
442	442	100	100	100.0	562603	PASS
443	442	15	24	19.9	111780	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012323\
Data File : BP013544.D
Acq On : 23 Jan 2023 10:51
Operator : CG/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: Jan 24 06:33:06 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jan 24 04:44:15 2023
Response via : Initial Calibration



TIC: BP013544.D\data.ms

(70) Pentachlorophenol (C)

17.204min (+ 0.006) 143380.43 ng

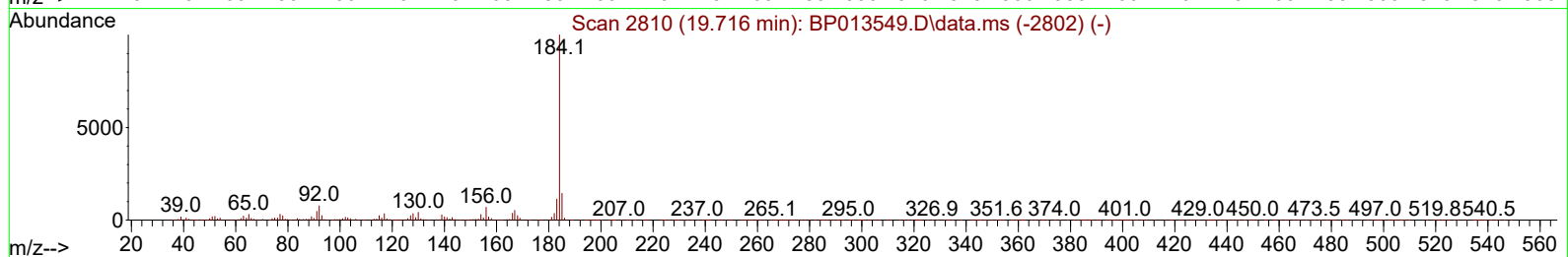
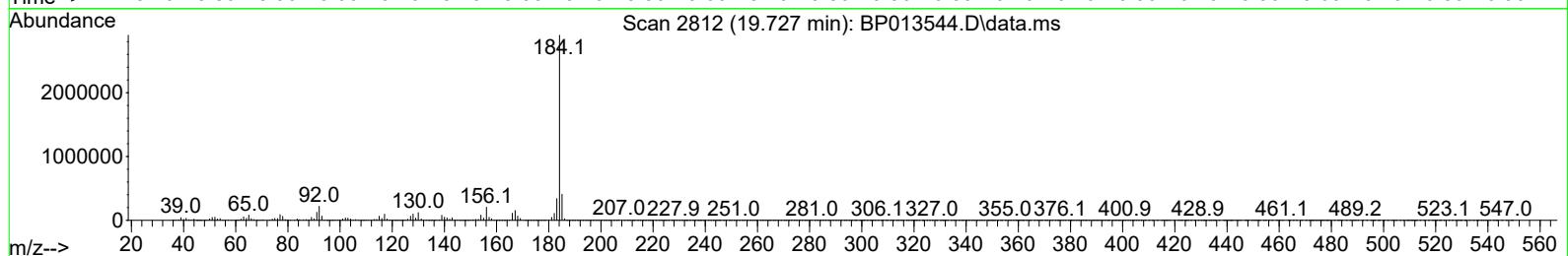
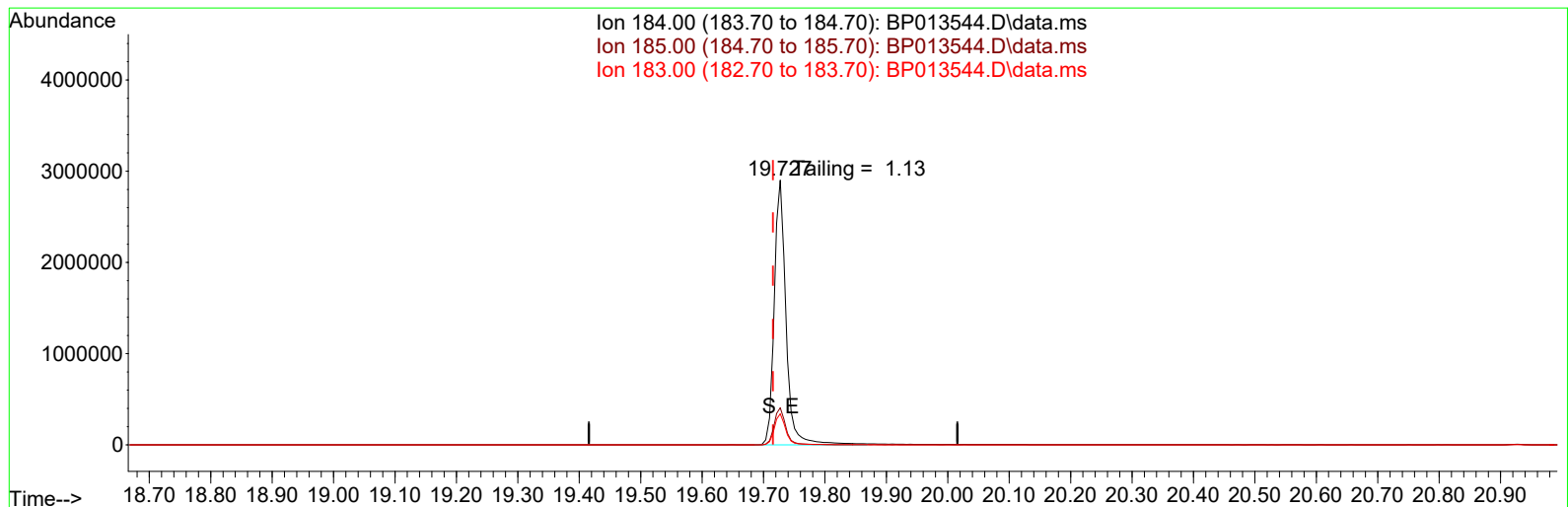
response 446504

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.40	62.40
264.00	61.10	62.99
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012323\
Data File : BP013544.D
Acq On : 23 Jan 2023 10:51
Operator : CG/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: Jan 24 06:33:06 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jan 24 04:44:15 2023
Response via : Initial Calibration



TIC: BP013544.D\data.ms

(77) Benzidine

19.727min (+ 0.011) 235734.26 ng

response 3930835

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.40	14.04
183.00	11.30	11.74
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
1/23/2023	BNA_P	<u>BP013544.D</u>
Compound Name	Response	Retention Time
DDT	1143440	20.927
DDD	15344	20.551
DDE	848	19.998
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
16192	1159632	1.40

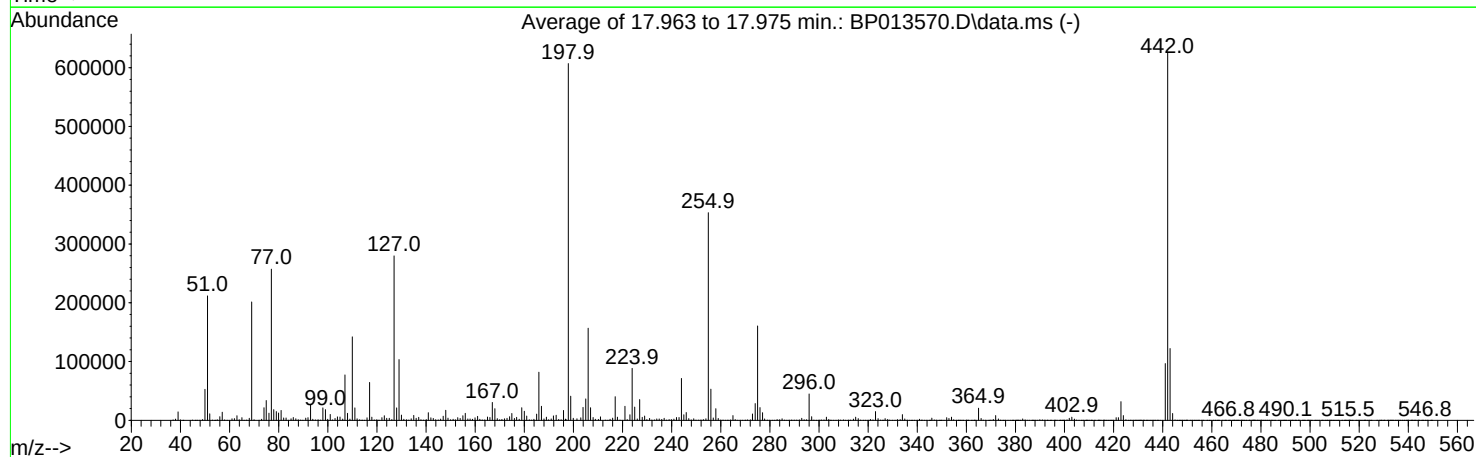
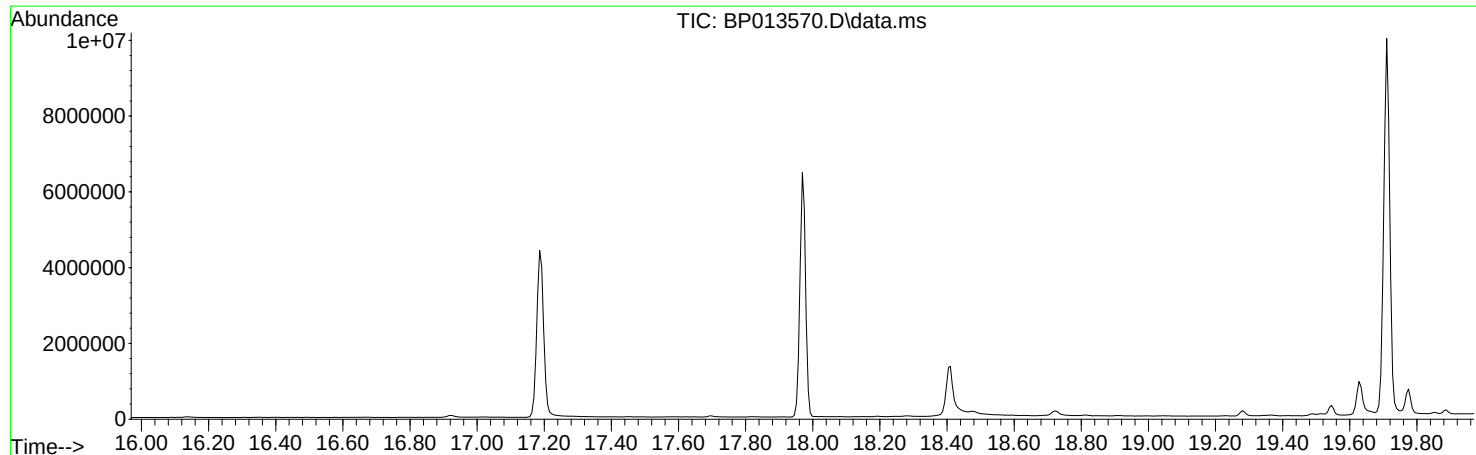
Instrument :
BNA_P
ClientSampleId :
DFTPP

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012423\
Data File : BP013570.D
Acq On : 24 Jan 2023 14:38
Operator : CG/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Jan 25 03:43:27 2023



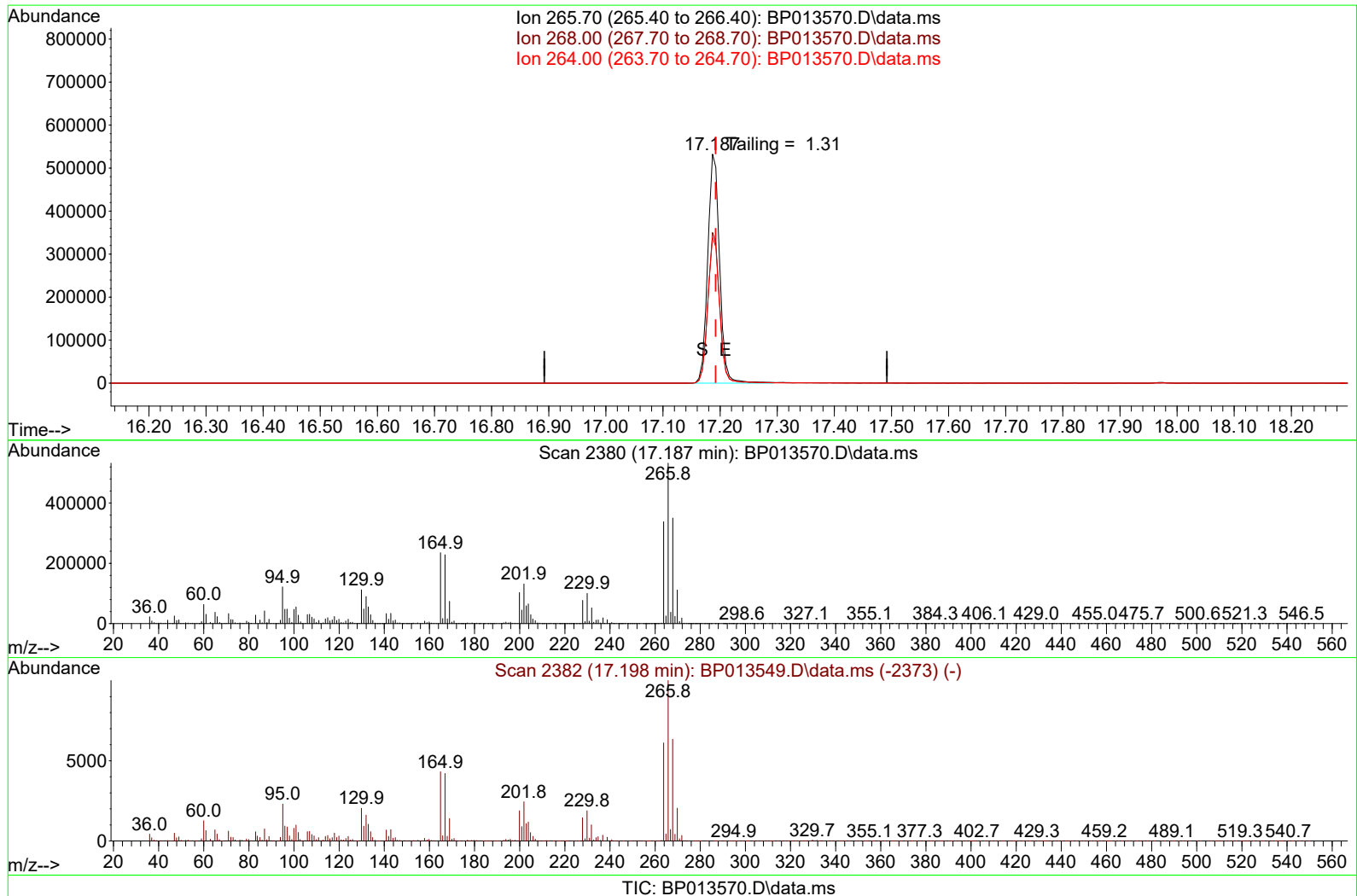
AutoFind: Scans 2512, 2513, 2514; Background Corrected with Scan 2502

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.9	211597	PASS
68	69	0.00	2	1.7	3424	PASS
69	198	0.00	100	33.2	201447	PASS
70	69	0.00	2	0.5	1018	PASS
127	198	10	80	46.1	279631	PASS
197	198	0.00	2	0.4	2190	PASS
198	198	100	100	100.0	607125	PASS
199	198	5	9	6.8	41023	PASS
275	198	10	60	26.4	160504	PASS
365	198	1	100	3.4	20609	PASS
441	198	0.01	100	15.9	96521	PASS
442	442	100	100	100.0	625920	PASS
443	442	15	24	19.5	122139	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012423\
Data File : BP013570.D
Acq On : 24 Jan 2023 14:38
Operator : CG/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: Jan 25 05:55:48 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 25 03:43:27 2023
Response via : Initial Calibration

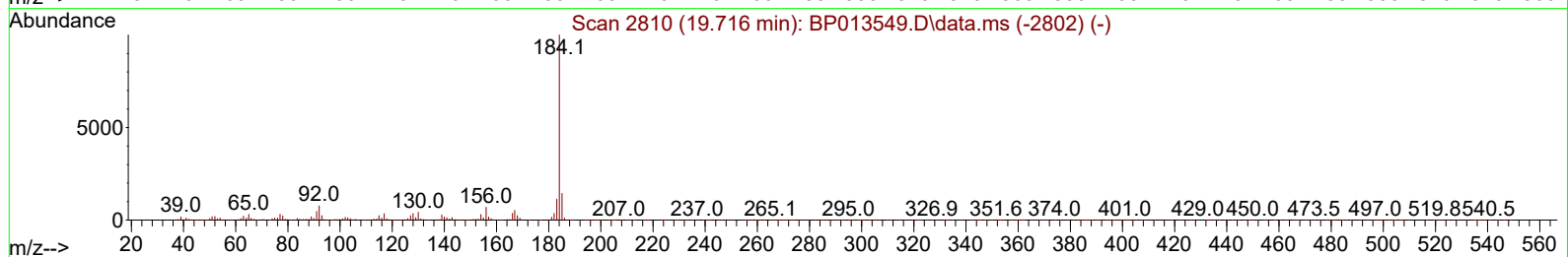
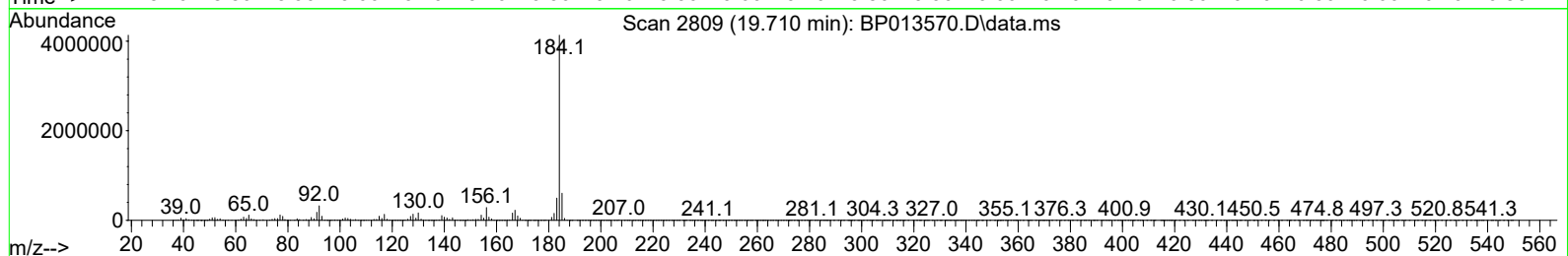
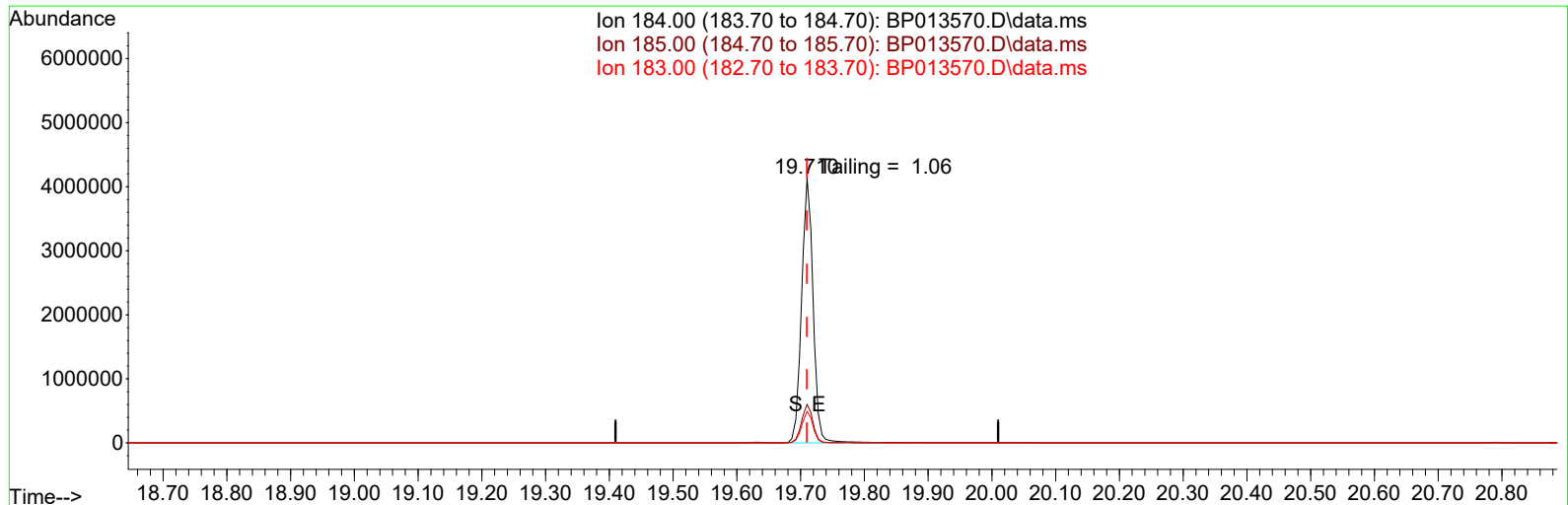
**(70) Pentachlorophenol (C)****17.187min (-0.006) 3605533.60 ng****response 771186**

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.40	65.77
264.00	61.10	63.50
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012423\
Data File : BP013570.D
Acq On : 24 Jan 2023 14:38
Operator : CG/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: Jan 25 05:55:48 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 25 03:43:27 2023
Response via : Initial Calibration



TIC: BP013570.D\data.ms

(77) Benzidine

19.710min (-0.000) 7395893.28 ng

response 5208315

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.40	14.60
183.00	11.30	11.97
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
1/24/2023	BNA_P	<u>BP013570.D</u>
Compound Name	Response	Retention Time
DDT	2182546	20.91
DDD	31504	20.533
DDE	1321	19.986
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
32825	2215371	1.48

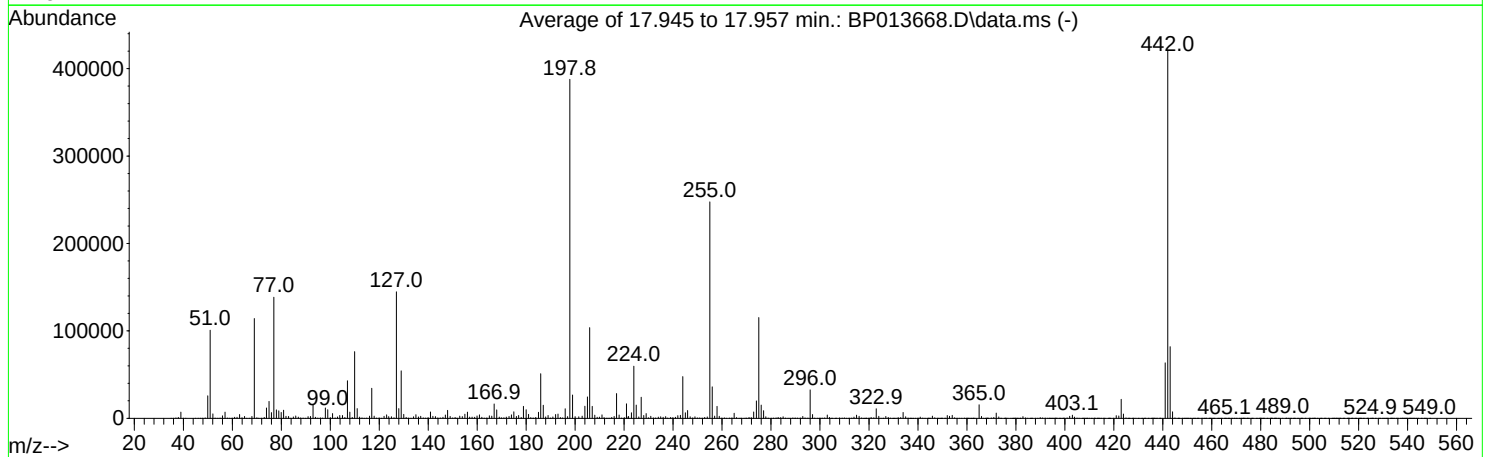
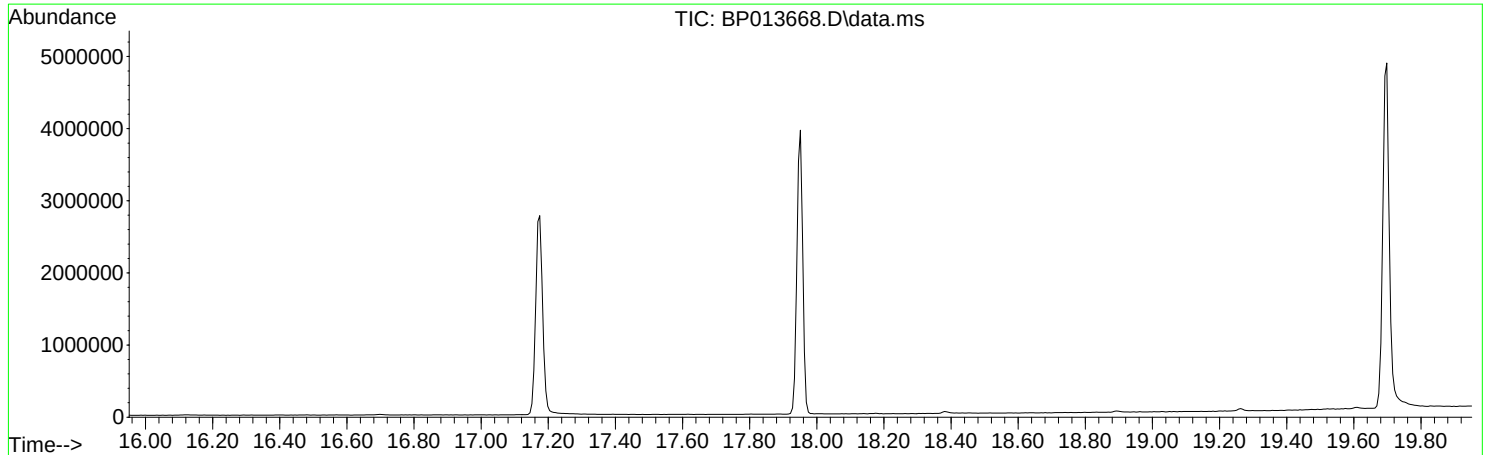
Instrument :
BNA_P
ClientSampleId :
DFTPP

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
Data File : BP013668.D
Acq On : 31 Jan 2023 10:47
Operator : CG/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Feb 01 03:43:48 2023



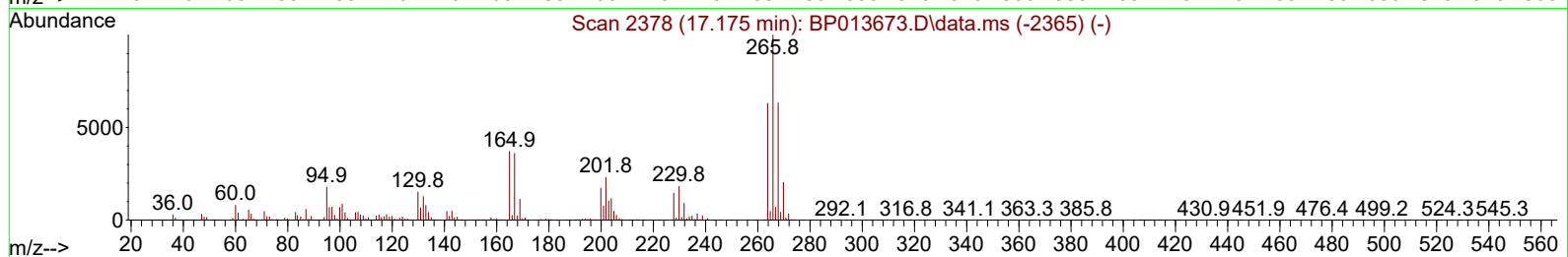
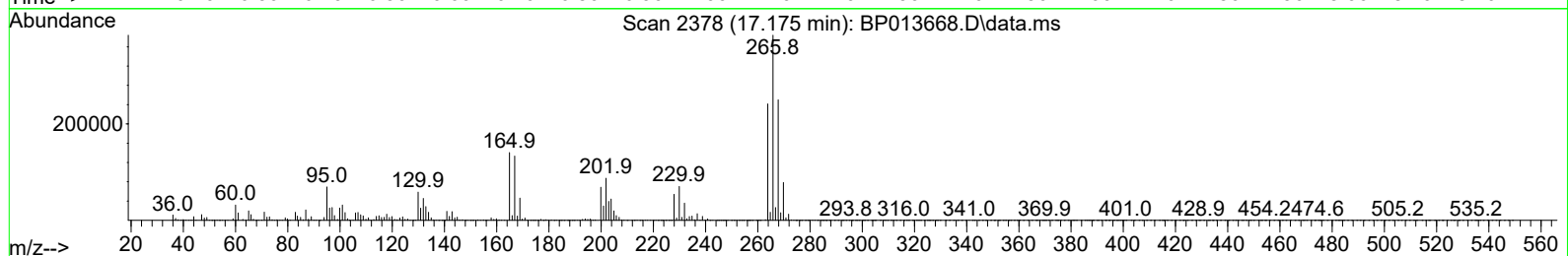
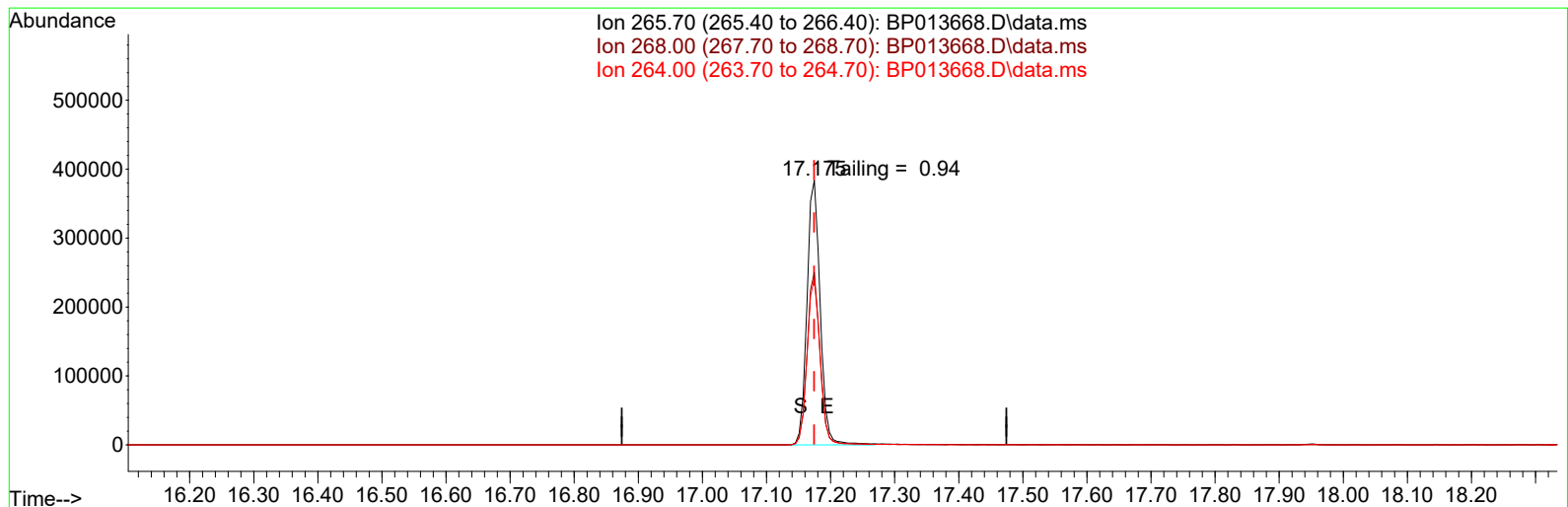
AutoFind: Scans 2509, 2510, 2511; Background Corrected with Scan 2500

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	26.0	100852	PASS
68	69	0.00	2	1.8	2052	PASS
69	198	0.00	100	29.4	114090	PASS
70	69	0.00	2	0.6	711	PASS
127	198	10	80	37.3	144733	PASS
197	198	0.00	2	0.5	1900	PASS
198	198	100	100	100.0	387796	PASS
199	198	5	9	6.8	26563	PASS
275	198	10	60	29.7	115181	PASS
365	198	1	100	4.0	15400	PASS
441	198	0.01	100	16.4	63451	PASS
442	442	100	100	100.0	420821	PASS
443	442	15	24	19.5	81981	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
Data File : BP013668.D
Acq On : 31 Jan 2023 10:47
Operator : CG/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: Feb 01 08:00:16 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 01 03:43:48 2023
Response via : Initial Calibration



TIC: BP013668.D\data.ms

(70) Pentachlorophenol (C)

17.175min (+ 0.000) 2464284.36 ng

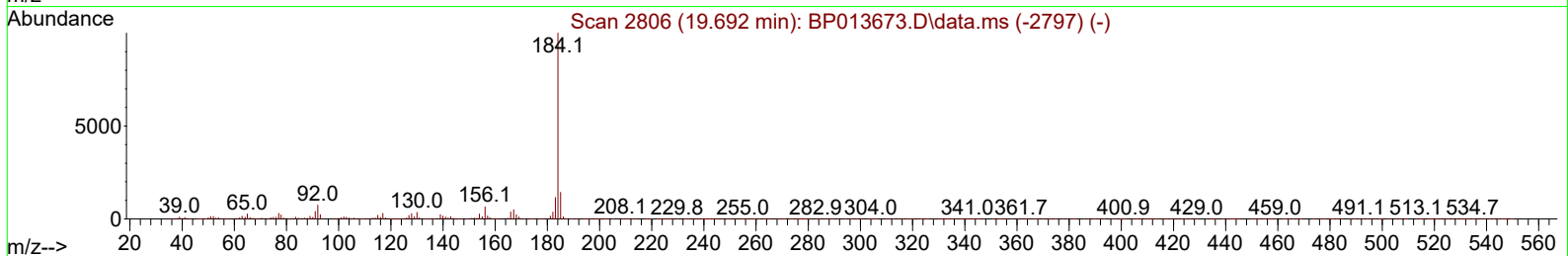
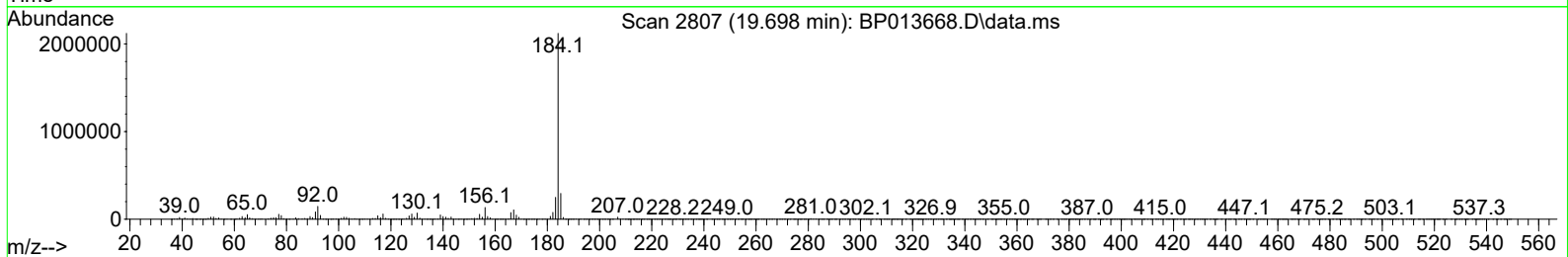
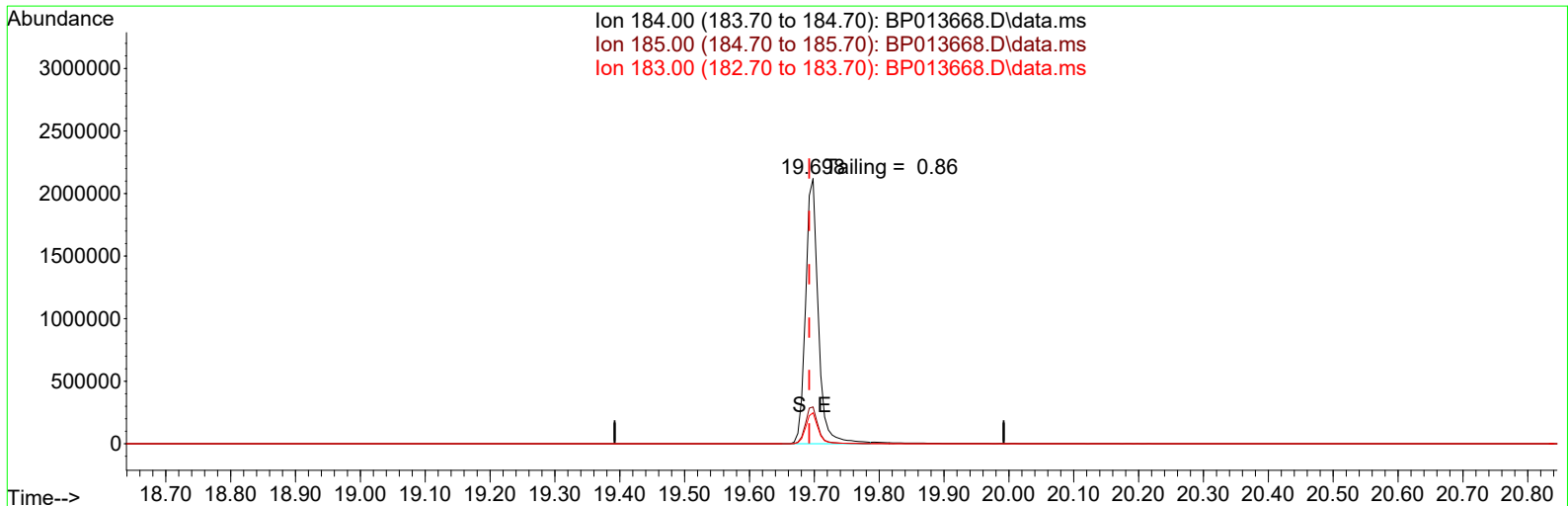
response 553780

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.40	65.07
264.00	63.10	62.91
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
Data File : BP013668.D
Acq On : 31 Jan 2023 10:47
Operator : CG/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: Feb 01 08:00:16 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 01 03:43:48 2023
Response via : Initial Calibration



TIC: BP013668.D\data.ms

(77) Benzidine

19.698min (+ 0.006) 2755273.69 ng

response 2916120

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.30	13.90
183.00	11.50	11.72
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
1/31/2023	BNA_P	<u>BP013668.D</u>
Compound Name	Response	Retention Time
DDT	1142397	20.892
DDD	9738	20.516
DDE	557	19.969
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
10295	1152692	0.89

Instrument :
BNA_P
ClientSampleId :
DFTPP



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company		Date Collected:	
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR		Date Received:	
Client Sample ID:	PB150378BL		SDG No.:	O1233
Lab Sample ID:	PB150378BL		Matrix:	SOIL
Analytical Method:	SW8270		% Solid:	100
Sample Wt/Vol:	30.01	Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-TCL BNA -20
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP013572.D	1	01/20/23 12:30	01/24/23 15:50	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	140	U	140	330	ug/Kg
108-95-2	Phenol	67.7	U	67.7	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	80.3	U	80.3	170	ug/Kg
95-57-8	2-Chlorophenol	68.3	U	68.3	170	ug/Kg
95-48-7	2-Methylphenol	110	U	110	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	95.9	U	95.9	170	ug/Kg
98-86-2	Acetophenone	80.1	U	80.1	170	ug/Kg
65794-96-9	3+4-Methylphenols	97.4	U	97.4	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	76.1	U	76.1	80.0	ug/Kg
67-72-1	Hexachloroethane	73.7	U	73.7	170	ug/Kg
98-95-3	Nitrobenzene	73.9	U	73.9	170	ug/Kg
78-59-1	Isophorone	66.6	U	66.6	170	ug/Kg
88-75-5	2-Nitrophenol	92.8	U	92.8	170	ug/Kg
105-67-9	2,4-Dimethylphenol	98.8	U	98.8	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	110	U	110	170	ug/Kg
120-83-2	2,4-Dichlorophenol	81.7	U	81.7	170	ug/Kg
91-20-3	Naphthalene	73.9	U	73.9	170	ug/Kg
106-47-8	4-Chloroaniline	96.3	U	96.3	170	ug/Kg
87-68-3	Hexachlorobutadiene	99.4	U	99.4	170	ug/Kg
105-60-2	Caprolactam	100	U	100	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	78.7	U	78.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	75.0	U	75.0	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	170	U	170	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	85.4	U	85.4	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	83.6	U	83.6	170	ug/Kg
92-52-4	1,1-Biphenyl	86.5	U	86.5	170	ug/Kg
91-58-7	2-Chloronaphthalene	85.5	U	85.5	170	ug/Kg
88-74-4	2-Nitroaniline	110	U	110	170	ug/Kg
131-11-3	Dimethylphthalate	80.9	U	80.9	170	ug/Kg
208-96-8	Acenaphthylene	68.7	U	68.7	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	78.1	U	78.1	170	ug/Kg



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company		Date Collected:	
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR		Date Received:	
Client Sample ID:	PB150378BL		SDG No.:	O1233
Lab Sample ID:	PB150378BL		Matrix:	SOIL
Analytical Method:	SW8270		% Solid:	100
Sample Wt/Vol:	30.01	Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-TCL BNA -20
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP013572.D	1	01/20/23 12:30	01/24/23 15:50	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	100	U	100	170	ug/Kg
83-32-9	Acenaphthene	78.9	U	78.9	170	ug/Kg
51-28-5	2,4-Dinitrophenol	130	U	130	330	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	330	ug/Kg
132-64-9	Dibenzofuran	74.2	U	74.2	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	84.6	U	84.6	170	ug/Kg
84-66-2	Diethylphthalate	80.5	U	80.5	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	93.6	U	93.6	170	ug/Kg
86-73-7	Fluorene	78.8	U	78.8	170	ug/Kg
100-01-6	4-Nitroaniline	100	U	100	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	86.2	U	86.2	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	82.2	U	82.2	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	98.4	U	98.4	170	ug/Kg
118-74-1	Hexachlorobenzene	100	U	100	170	ug/Kg
1912-24-9	Atrazine	90.0	U	90.0	170	ug/Kg
87-86-5	Pentachlorophenol	120	U	120	330	ug/Kg
85-01-8	Phenanthrene	83.6	U	83.6	170	ug/Kg
120-12-7	Anthracene	84.0	U	84.0	170	ug/Kg
86-74-8	Carbazole	84.2	U	84.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	87.0	U	87.0	170	ug/Kg
206-44-0	Fluoranthene	79.8	U	79.8	170	ug/Kg
129-00-0	Pyrene	74.2	U	74.2	170	ug/Kg
85-68-7	Butylbenzylphthalate	82.7	U	82.7	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	140	U	140	330	ug/Kg
56-55-3	Benzo(a)anthracene	86.8	U	86.8	170	ug/Kg
218-01-9	Chrysene	85.5	U	85.5	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	88.6	U	88.6	170	ug/Kg
117-84-0	Di-n-octyl phthalate	91.0	U	91.0	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	69.0	U	69.0	170	ug/Kg
207-08-9	Benzo(k)fluoranthene	73.6	U	73.6	170	ug/Kg
50-32-8	Benzo(a)pyrene	67.7	U	67.7	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	100	U	100	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	100	U	100	170	ug/Kg



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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	
Client Sample ID:	PB150378BL	SDG No.:	O1233
Lab Sample ID:	PB150378BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP013572.D	1	01/20/23 12:30	01/24/23 15:50	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	96.9	U	96.9	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	91.2	U	91.2	170	ug/Kg
123-91-1	1,4-Dioxane	89.1	U	89.1	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	81.2	U	81.2	170	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	128		18 - 112	85%	SPK: 150
13127-88-3	Phenol-d6	125		21 - 104	83%	SPK: 150
4165-60-0	Nitrobenzene-d5	78.9		27 - 109	79%	SPK: 100
321-60-8	2-Fluorobiphenyl	67.6		30 - 103	68%	SPK: 100
118-79-6	2,4,6-Tribromophenol	131		10 - 121	88%	SPK: 150
1718-51-0	Terphenyl-d14	70.3		21 - 107	70%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	291000	8.163
1146-65-2	Naphthalene-d8	1300000	10.993
15067-26-2	Acenaphthene-d10	838000	14.798
1517-22-2	Phenanthrene-d10	1910000	17.551
1719-03-5	Chrysene-d12	1880000	21.627
1520-96-3	Perylene-d12	2130000	24.216

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	1000	A	5.22	ug/Kg
055124-79-3	Heptadecane, 9-hexyl-	120	J	24.1	ug/Kg
000629-97-0	Docosane	140	J	24.9	ug/Kg
013475-77-9	Eicosane, 9-octyl-	170	J	25.9	ug/Kg
000629-78-7	Heptadecane	120	J	27.0	ug/Kg

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012423\
 Data File : BP013572.D
 Acq On : 24 Jan 2023 15:50
 Operator : CG/JU
 Sample : PB150378BL
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 PB150378BL

Quant Time: Jan 25 03:48:39 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 25 03:43:27 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.163	152	291029	20.000	ng	0.00
21) Naphthalene-d8	10.993	136	1295644	20.000	ng	0.00
39) Acenaphthene-d10	14.798	164	837908	20.000	ng	0.00
64) Phenanthrene-d10	17.551	188	1910080	20.000	ng	0.00
76) Chrysene-d12	21.627	240	1883137	20.000	ng	0.00
86) Perylene-d12	24.216	264	2131871	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.693	112	2167893	127.629	ng	0.00
7) Phenol-d6	7.305	99	2853606	124.825	ng	0.00
23) Nitrobenzene-d5	9.334	82	1547543	78.852	ng	0.00
42) 2,4,6-Tribromophenol	16.287	330	1103809	131.334	ng	0.00
45) 2-Fluorobiphenyl	13.428	172	4129364	67.647	ng	0.00
79) Terphenyl-d14	20.080	244	7359540	70.307	ng	0.00

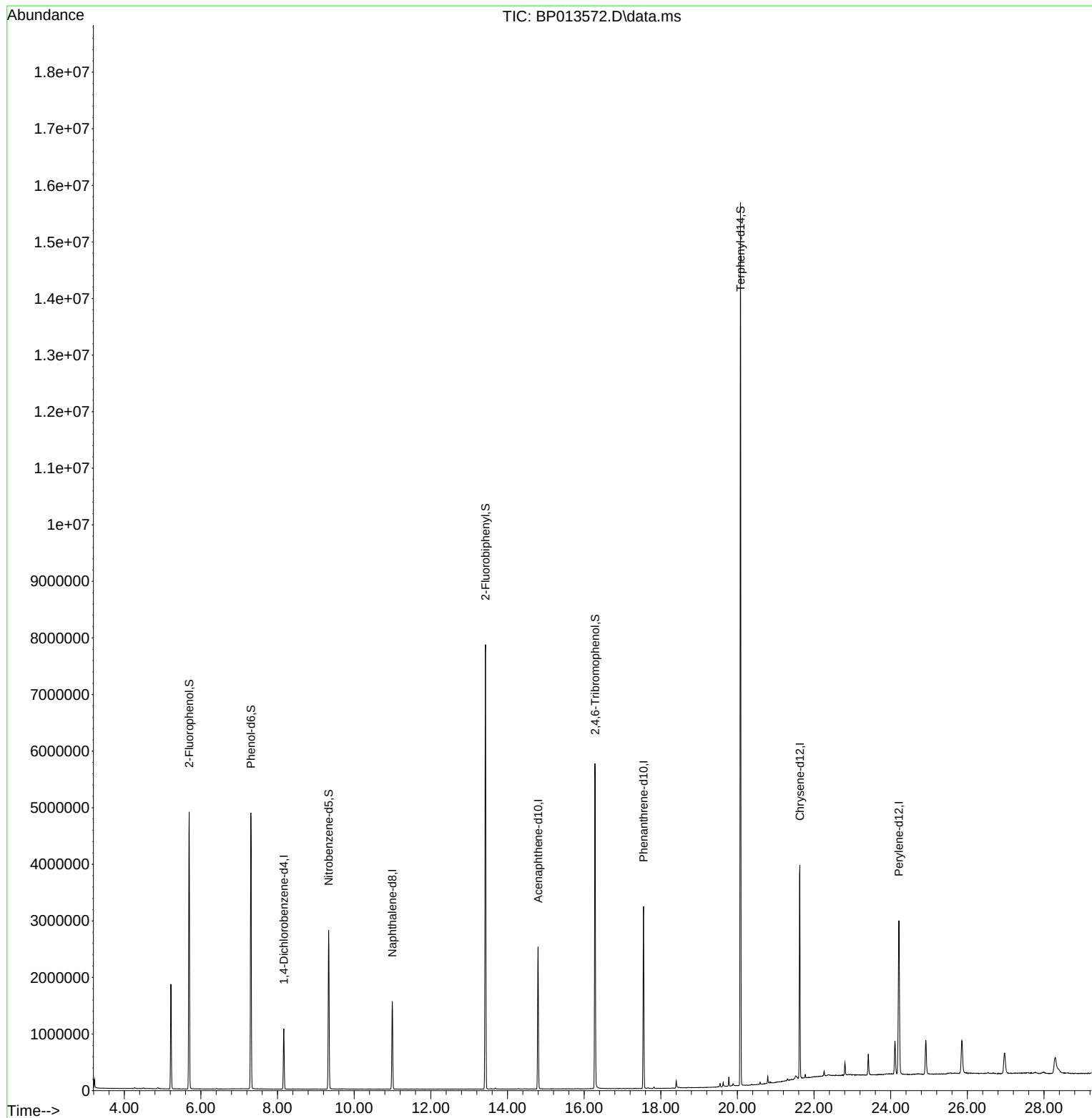
Target Compounds	Qvalue

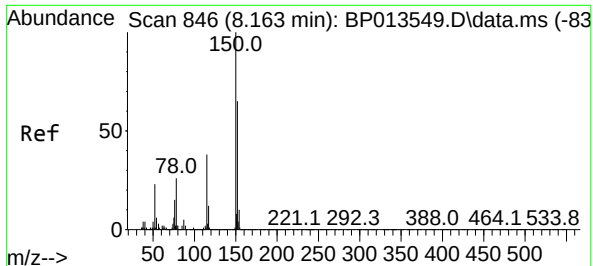
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012423\
Data File : BP013572.D
Acq On : 24 Jan 2023 15:50
Operator : CG/JU
Sample : PB150378BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB150378BL

Quant Time: Jan 25 03:48:39 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 25 03:43:27 2023
Response via : Initial Calibration

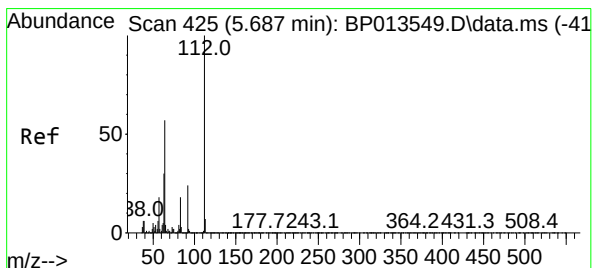
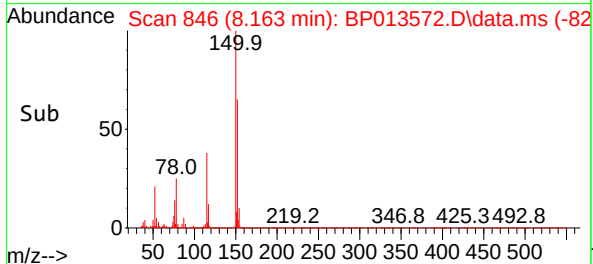
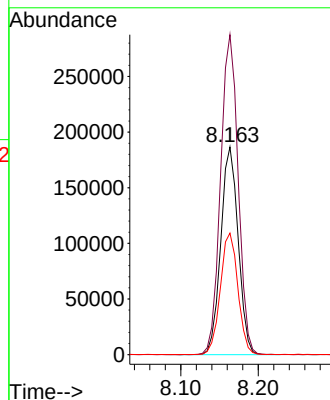
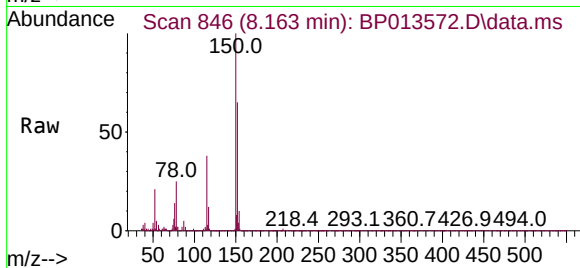




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 8.163 min Scan# 846
 Delta R.T. -0.001 min
 Lab File: BP013572.D
 Acq: 24 Jan 2023 15:50

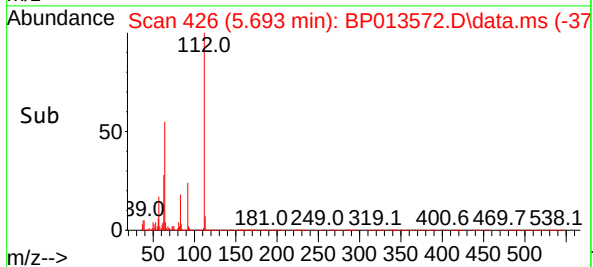
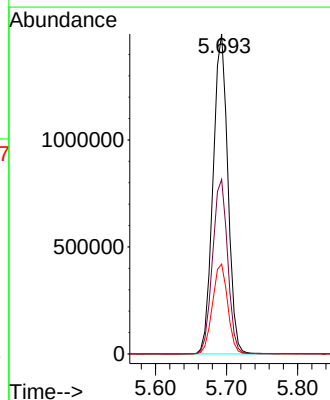
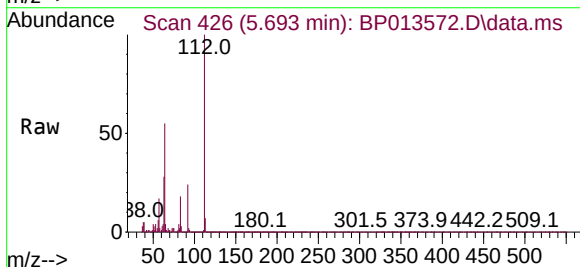
Instrument :
 BNA_P
 ClientSampleId :
 PB150378BL

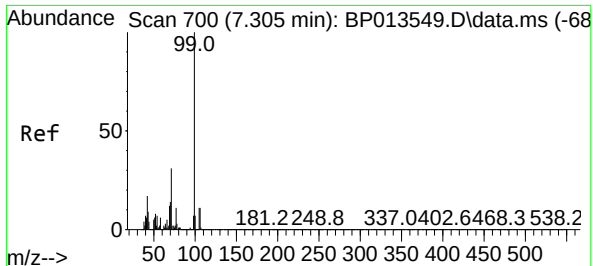
Tgt Ion:152 Resp: 291029
 Ion Ratio Lower Upper
 152 100
 150 154.1 122.4 183.6
 115 58.5 46.1 69.1



#5
 2-Fluorophenol
 Concen: 127.629 ng
 RT: 5.693 min Scan# 426
 Delta R.T. 0.006 min
 Lab File: BP013572.D
 Acq: 24 Jan 2023 15:50

Tgt Ion:112 Resp: 2167893
 Ion Ratio Lower Upper
 112 100
 64 54.5 45.4 68.0
 63 28.1 24.1 36.1



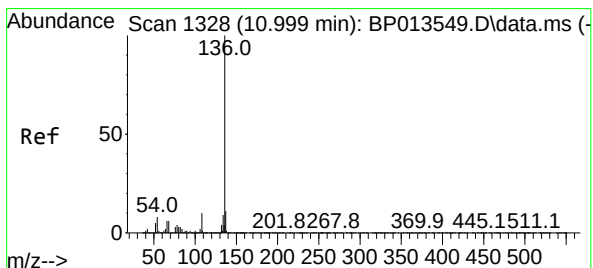
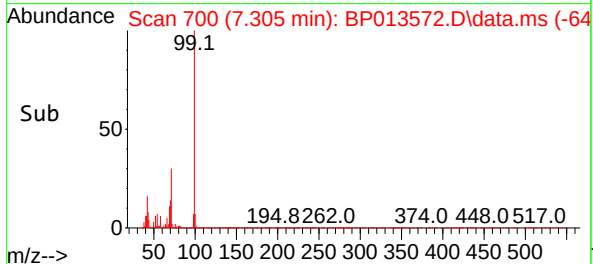
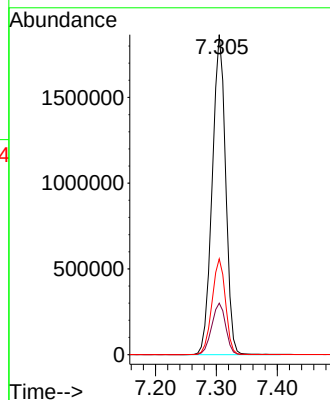
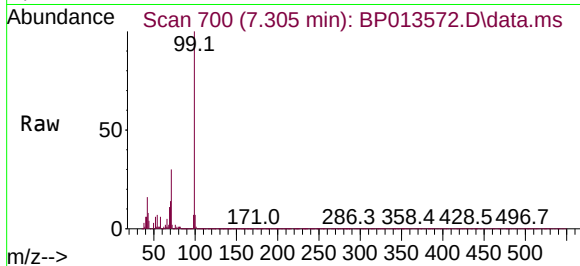


#7
Phenol-d6
Concen: 124.825 ng
RT: 7.305 min Scan# 700
Delta R.T. 0.006 min
Lab File: BP013572.D
Acq: 24 Jan 2023 15:50

Instrument :
BNA_P
ClientSampleId :
PB150378BL

Tgt Ion: 99 Resp: 2853606

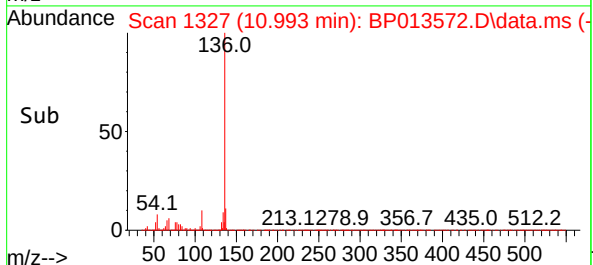
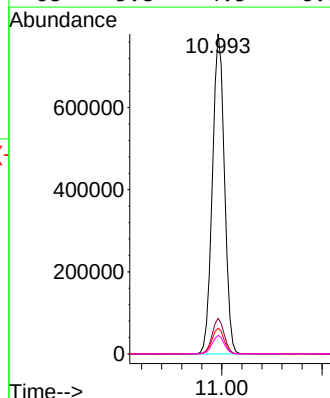
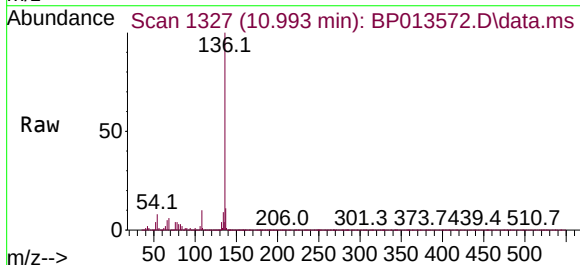
Ion	Ratio	Lower	Upper
99	100		
42	16.1	14.0	21.0
71	29.9	24.7	37.1

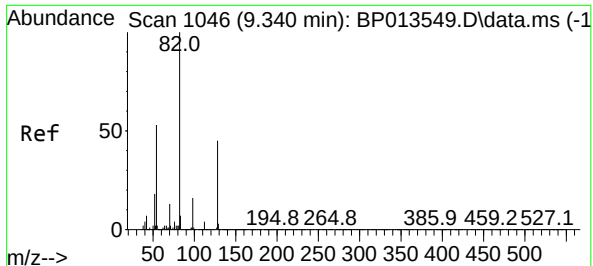


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.993 min Scan# 1327
Delta R.T. -0.000 min
Lab File: BP013572.D
Acq: 24 Jan 2023 15:50

Tgt Ion: 136 Resp: 1295644

Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.4
54	8.0	6.6	9.8
68	5.8	4.5	6.7





#23

Nitrobenzene-d5

Concen: 78.852 ng

RT: 9.334 min Scan# 1046

Delta R.T. -0.000 min

Lab File: BP013572.D

Acq: 24 Jan 2023 15:50

Instrument :

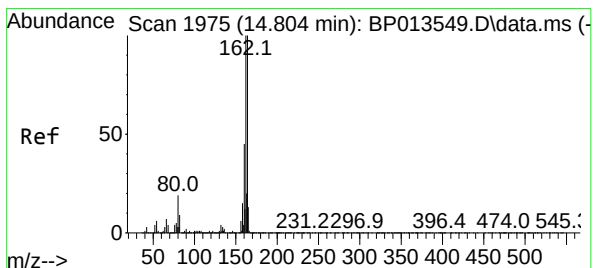
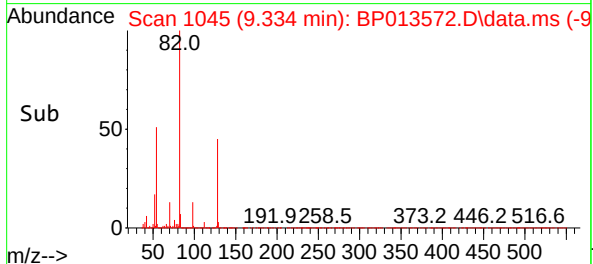
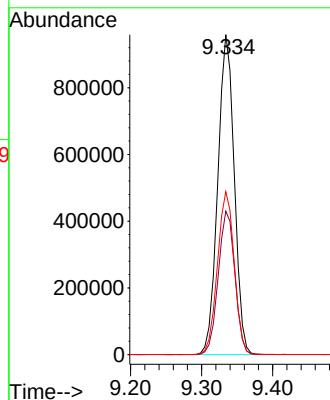
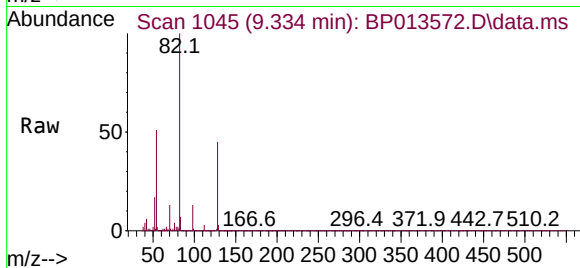
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ClientSampleId :

PB150378BL

Tgt Ion: 82 Resp: 1547543

Ion	Ratio	Lower	Upper
82	100		
128	44.8	35.8	53.6
54	50.9	42.6	64.0



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.798 min Scan# 1974

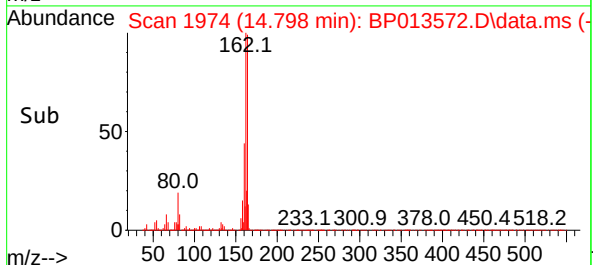
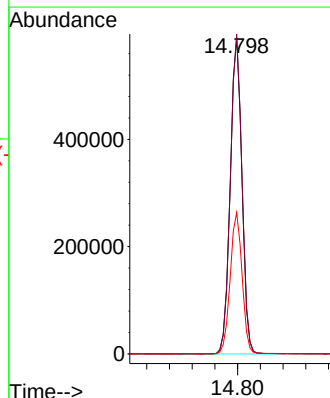
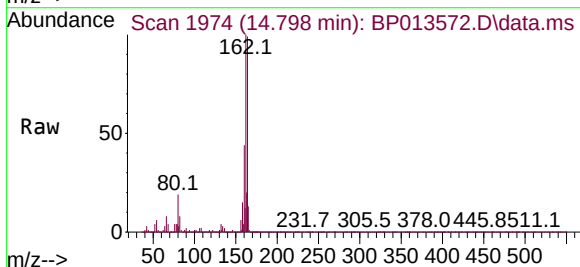
Delta R.T. -0.000 min

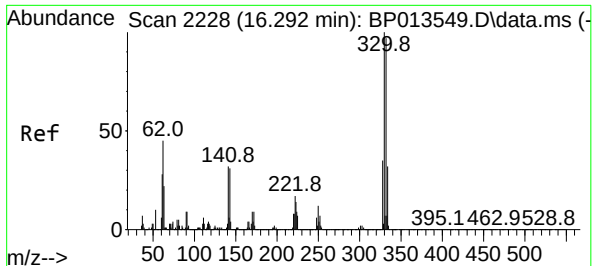
Lab File: BP013572.D

Acq: 24 Jan 2023 15:50

Tgt Ion: 164 Resp: 837908

Ion	Ratio	Lower	Upper
164	100		
162	101.1	80.1	120.1
160	44.7	35.9	53.9

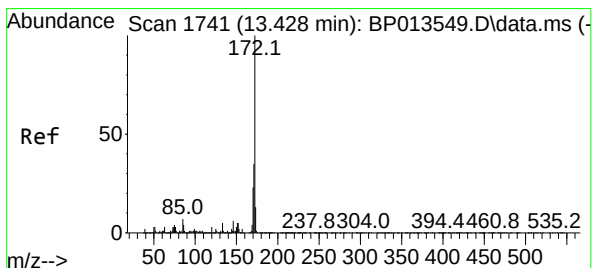
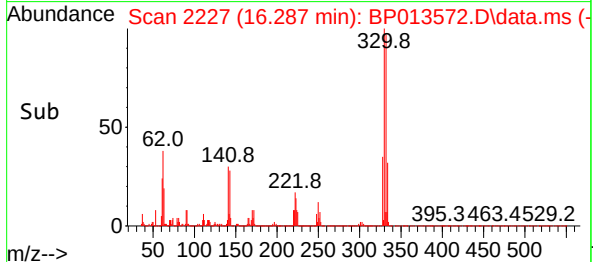
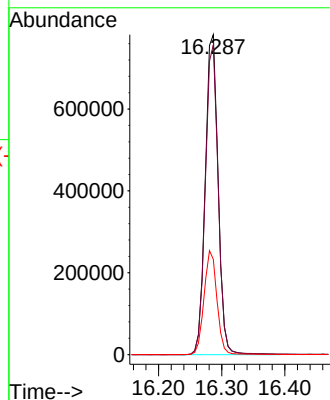
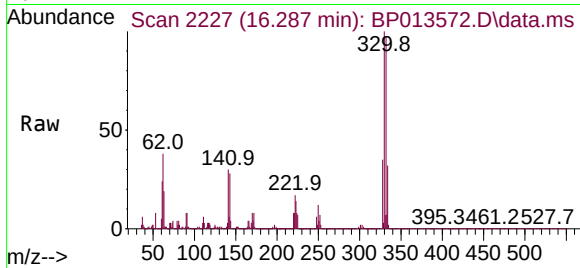




#42
2,4,6-Tribromophenol
Concen: 131.334 ng
RT: 16.287 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP013572.D
Acq: 24 Jan 2023 15:50

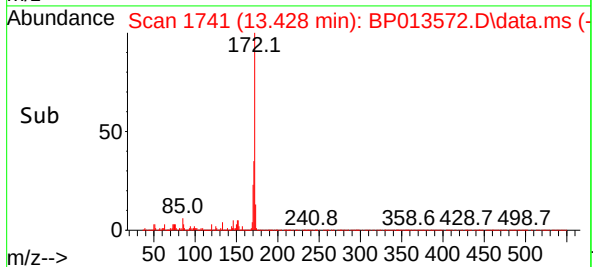
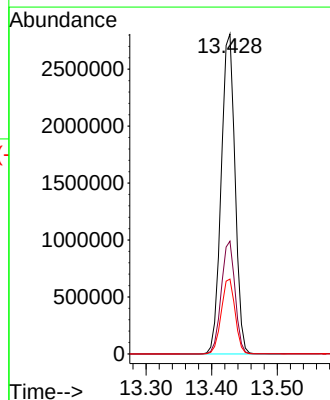
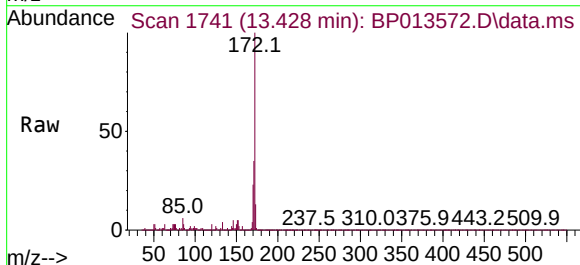
Instrument :
BNA_P
ClientSampleId :
PB150378BL

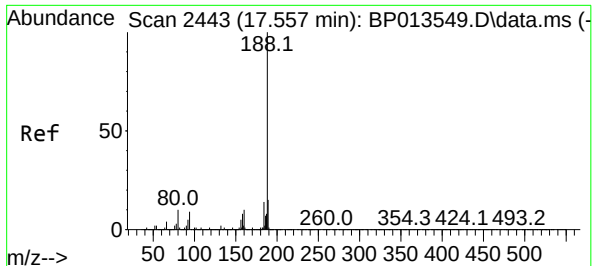
Tgt Ion: 330 Resp: 1103809
Ion Ratio Lower Upper
330 100
332 96.7 77.4 116.2
141 32.7 27.6 41.4



#45
2-Fluorobiphenyl
Concen: 67.647 ng
RT: 13.428 min Scan# 1741
Delta R.T. -0.000 min
Lab File: BP013572.D
Acq: 24 Jan 2023 15:50

Tgt Ion: 172 Resp: 4129364
Ion Ratio Lower Upper
172 100
171 35.2 27.8 41.8
170 23.4 18.6 27.8

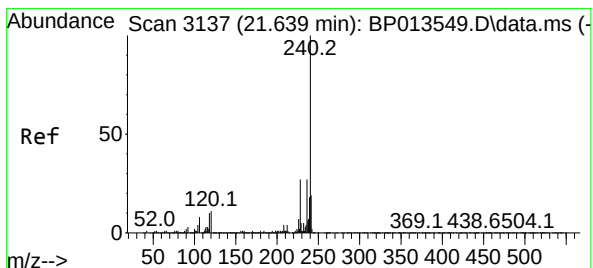
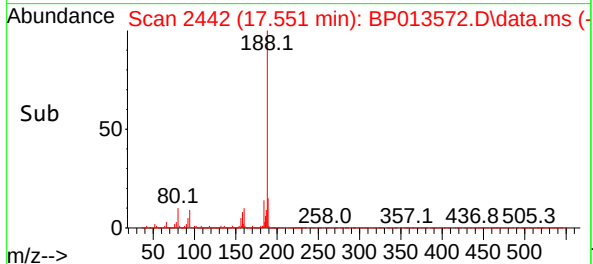
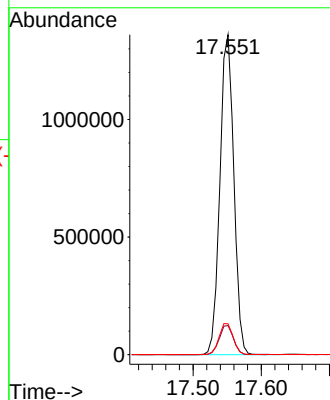
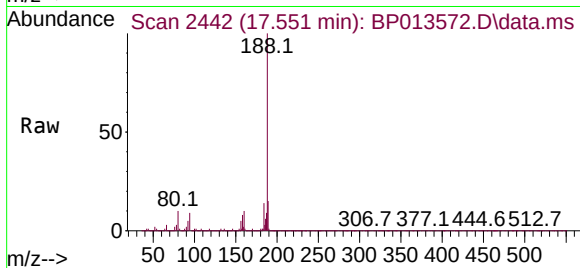




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.551 min Scan# 2442
Delta R.T. -0.000 min
Lab File: BP013572.D
Acq: 24 Jan 2023 15:50

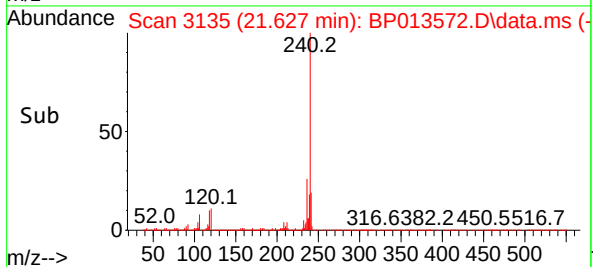
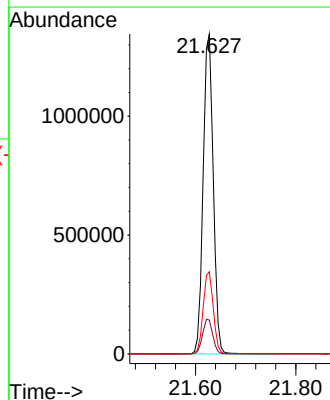
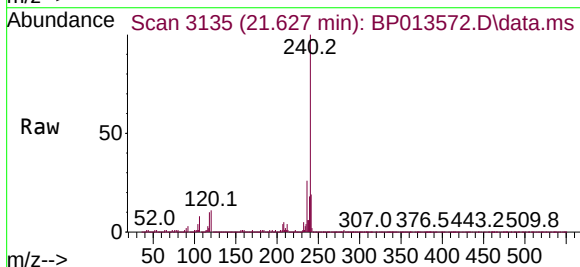
Instrument :
BNA_P
ClientSampleId :
PB150378BL

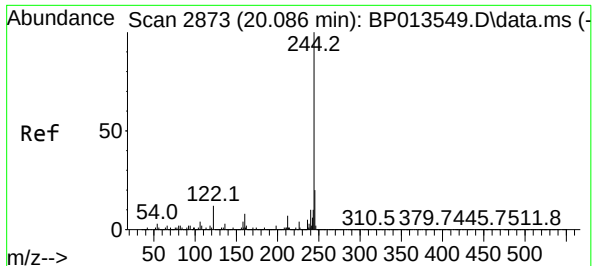
Tgt Ion:188 Resp: 1910080
Ion Ratio Lower Upper
188 100
94 9.1 7.2 10.8
80 9.6 8.2 12.2



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.627 min Scan# 3135
Delta R.T. -0.000 min
Lab File: BP013572.D
Acq: 24 Jan 2023 15:50

Tgt Ion:240 Resp: 1883137
Ion Ratio Lower Upper
240 100
120 10.6 8.6 13.0
236 25.7 21.3 31.9

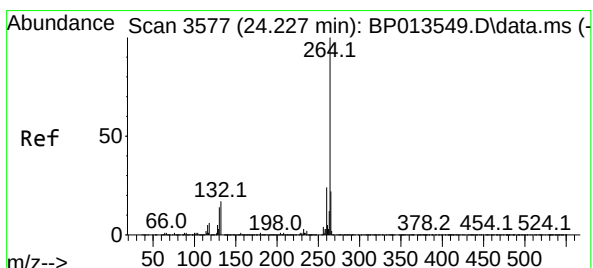
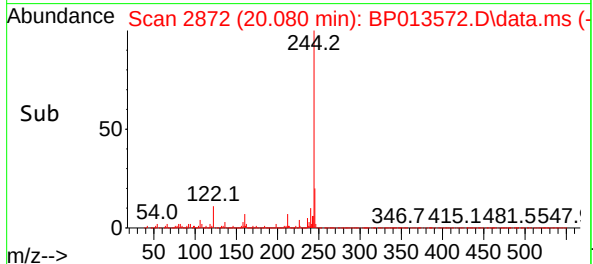
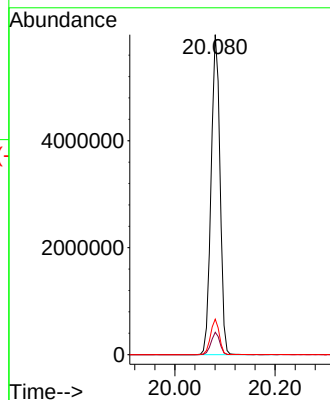
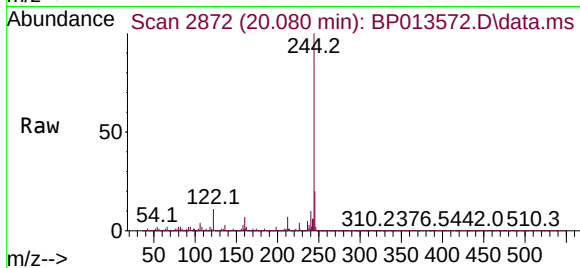




#79
 Terphenyl-d14
 Concen: 70.307 ng
 RT: 20.080 min Scan# 2873
 Delta R.T. -0.000 min
 Lab File: BP013572.D
 Acq: 24 Jan 2023 15:50

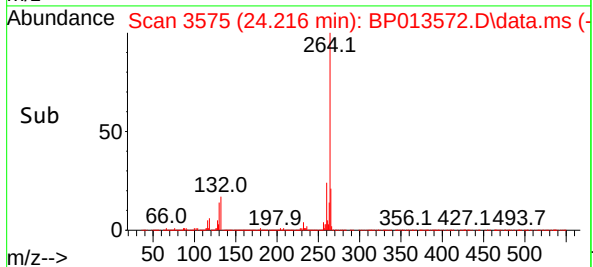
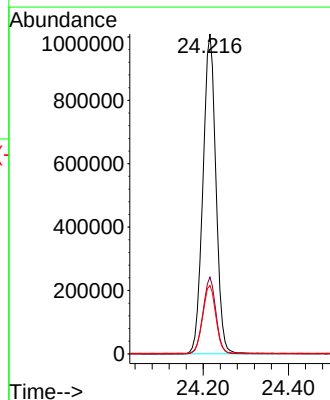
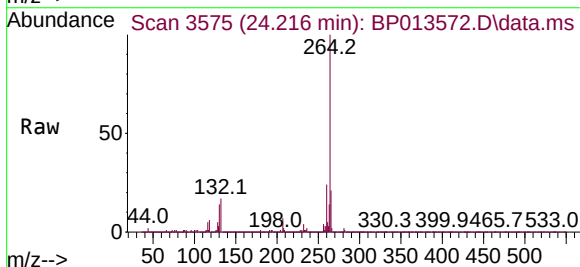
Instrument :
 BNA_P
 ClientSampleId :
 PB150378BL

Tgt Ion:244 Resp: 7359540
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.4 8.2
 122 11.1 9.2 13.8



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 24.216 min Scan# 3575
 Delta R.T. -0.000 min
 Lab File: BP013572.D
 Acq: 24 Jan 2023 15:50

Tgt Ion:264 Resp: 2131871
 Ion Ratio Lower Upper
 264 100
 260 24.0 18.8 28.2
 265 21.4 17.4 26.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012423\
 Data File : BP013572.D
 Acq On : 24 Jan 2023 15:50
 Operator : CG/JU
 Sample : PB150378BL
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 PB150378BL

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP013572.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.217	337	345	356	rBV	1851375	2609419	13.68%	2.876%
2	5.693	414	426	439	rBV	4899197	7204530	37.76%	7.941%
3	7.305	690	700	712	rBV	4881116	7635096	40.02%	8.416%
4	8.163	836	846	854	rBV	1070244	1686122	8.84%	1.859%
5	9.334	1037	1045	1061	rBV	2809581	4640880	24.32%	5.116%
6	10.993	1318	1327	1338	rBV	1551956	2602393	13.64%	2.869%
7	13.428	1733	1741	1752	rBV	7857005	11692465	61.28%	12.888%
8	14.798	1967	1974	1982	rBV	2511944	3635958	19.06%	4.008%
9	16.281	2219	2226	2246	rBV	5744216	8363611	43.83%	9.219%
10	17.551	2435	2442	2450	rBV	3217458	4575592	23.98%	5.044%
11	18.404	2582	2587	2597	rBV2	128499	209665	1.10%	0.231%
12	20.080	2866	2872	2878	rBV	15604529	19080445	100.00%	21.032%
13	21.627	3129	3135	3144	rVB	3761557	5260920	27.57%	5.799%
14	22.804	3331	3335	3342	rBV	218058	316954	1.66%	0.349%
15	23.416	3434	3439	3446	rBV	362398	573912	3.01%	0.633%
16	24.110	3551	3557	3565	rVV	576787	1077935	5.65%	1.188%
17	24.216	3567	3575	3592	rVB2	2717963	5757531	30.18%	6.346%
18	24.915	3688	3694	3705	rVB	592032	1235016	6.47%	1.361%
19	25.857	3847	3854	3868	rVB	569705	1500246	7.86%	1.654%
20	26.974	4036	4044	4055	rVB2	349825	1062766	5.57%	1.171%

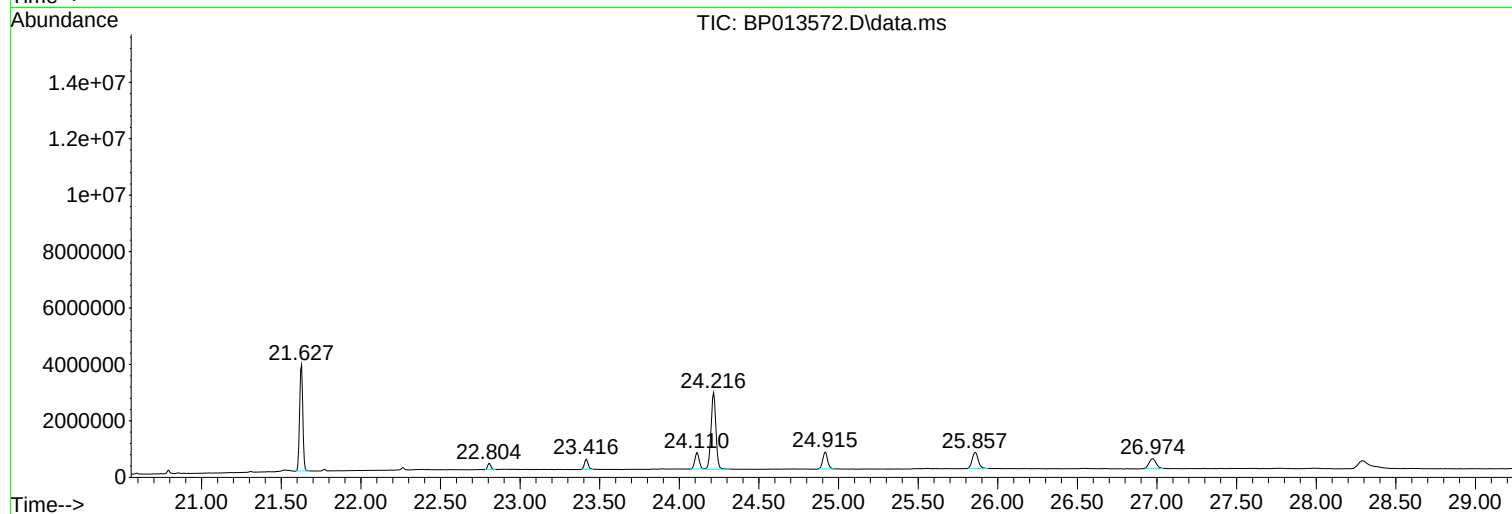
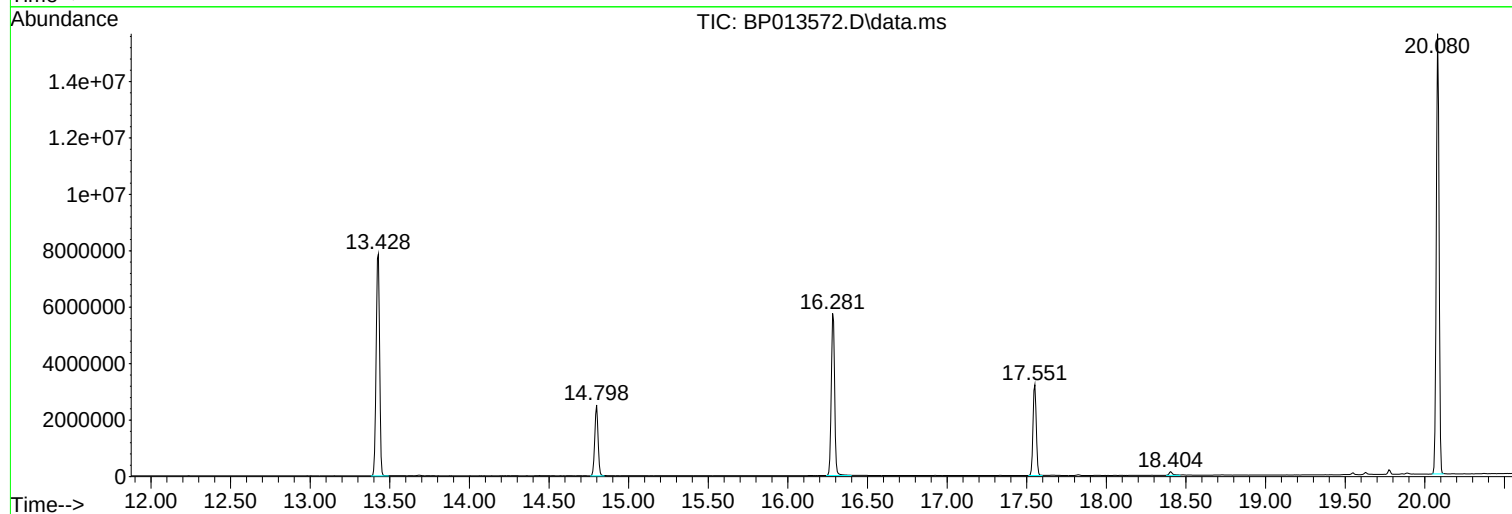
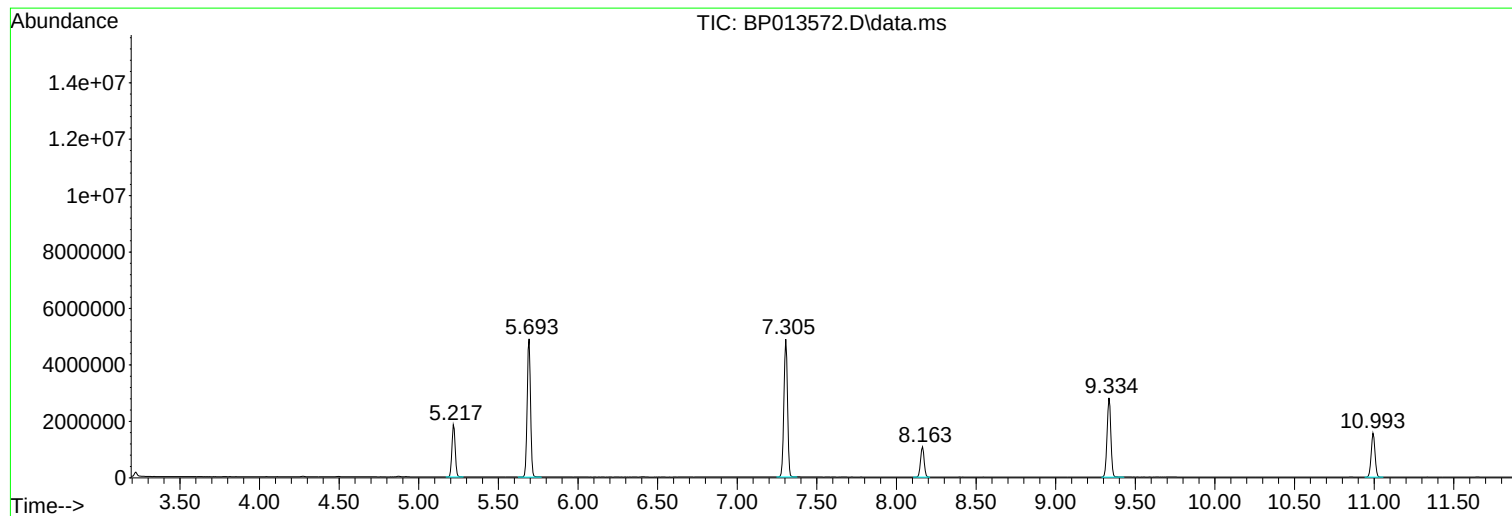
Sum of corrected areas: 90721456

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012423\
Data File : BP013572.D
Acq On : 24 Jan 2023 15:50
Operator : CG/JU
Sample : PB150378BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB150378BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012423\
Data File : BP013572.D
Acq On : 24 Jan 2023 15:50
Operator : CG/JU
Sample : PB150378BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

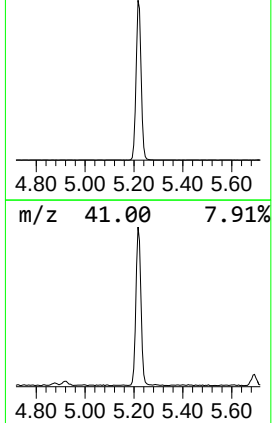
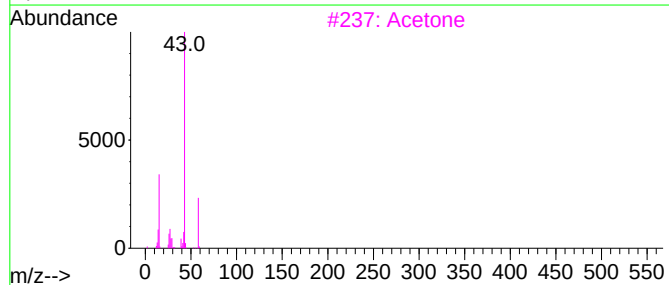
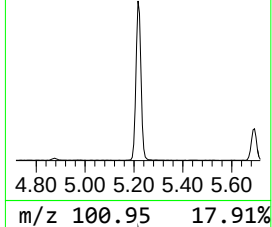
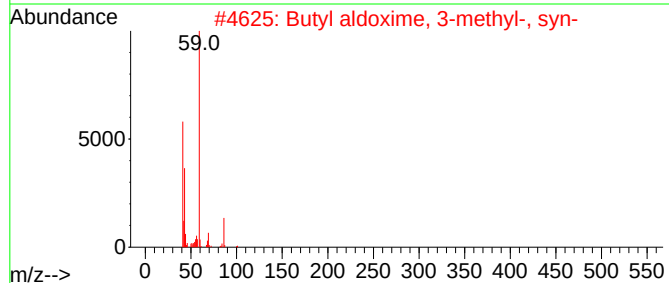
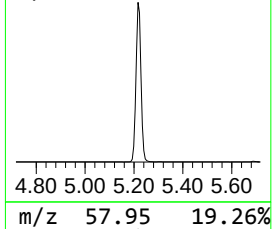
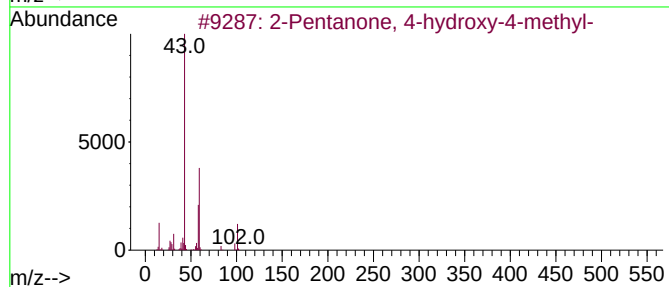
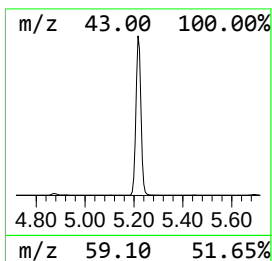
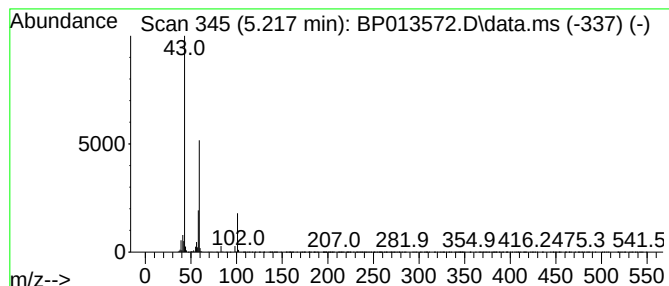
Instrument :
BNA_P
ClientSampleId :
PB150378BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD		R.T.	
5.217	30.95 ng	2609420	1,4-Dichlorobenzene-d4		8.163	
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-		116	C6H12O2	000123-42-2	64
2	Butyl aldoxime, 3-methyl-, syn-		101	C5H11NO	005780-40-5	17
3	Acetone		58	C3H6O	000067-64-1	16
4	1-Propen-2-ol, acetate		100	C5H8O2	000108-22-5	16
5	2,3-Butanedione, monooxime		101	C4H7NO2	000057-71-6	12



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012423\
Data File : BP013572.D
Acq On : 24 Jan 2023 15:50
Operator : CG/JU
Sample : PB150378BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

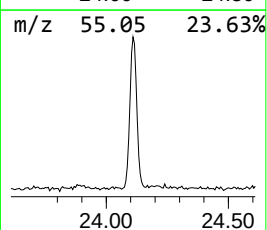
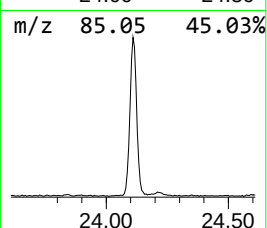
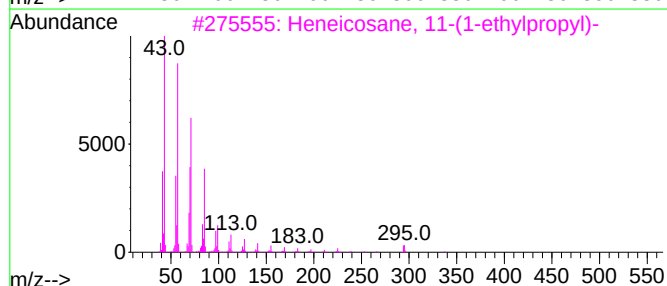
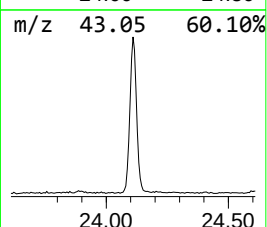
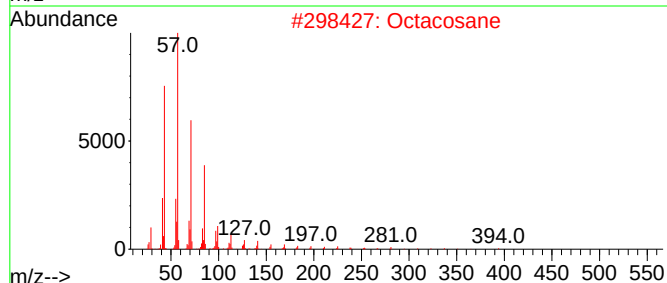
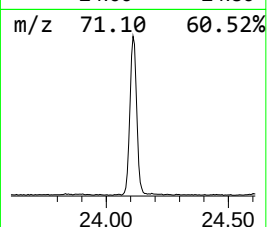
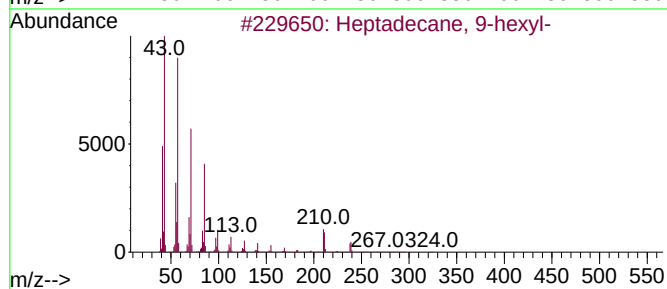
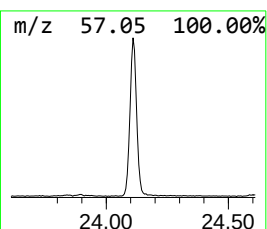
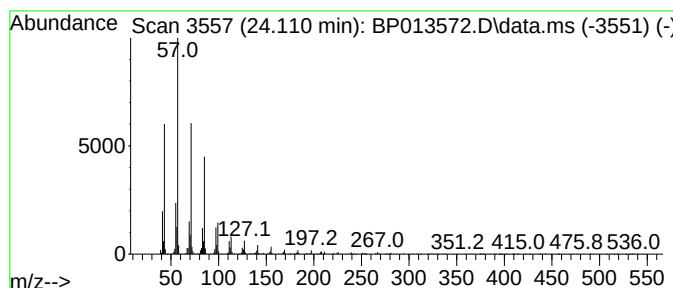
Instrument :
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ClientSampleId :
PB150378BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 Heptadecane, 9-hexyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.	
24.110	3.74 ng	1077940	Perylene-d12	24.215	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane, 9-hexyl-	324	C23H48	055124-79-3	94
2	Octacosane	394	C28H58	000630-02-4	91
3	Heneicosane, 11-(1-ethylpropyl)-	366	C26H54	055282-11-6	91
4	Heneicosane	296	C21H44	000629-94-7	91
5	Hexacosane	366	C26H54	000630-01-3	91



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012423\
Data File : BP013572.D
Acq On : 24 Jan 2023 15:50
Operator : CG/JU
Sample : PB150378BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB150378BL

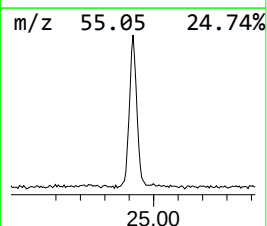
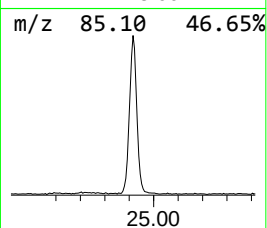
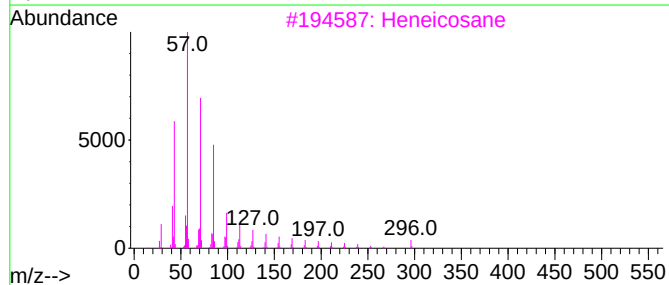
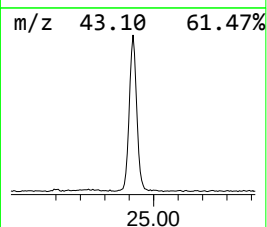
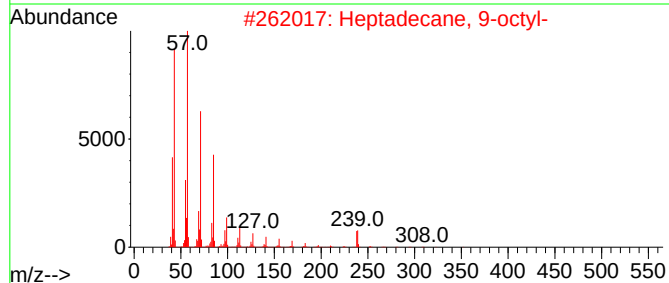
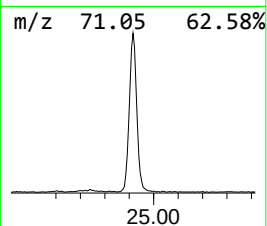
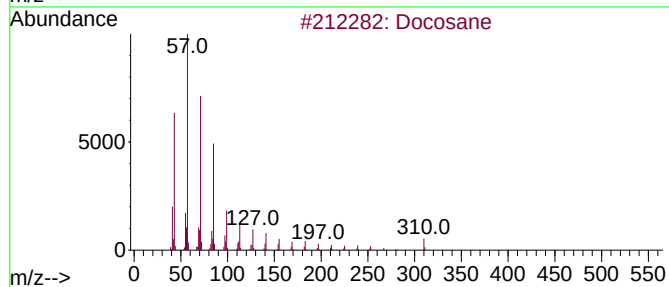
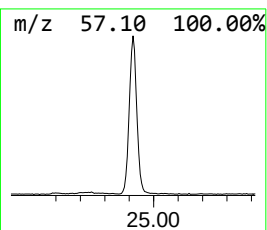
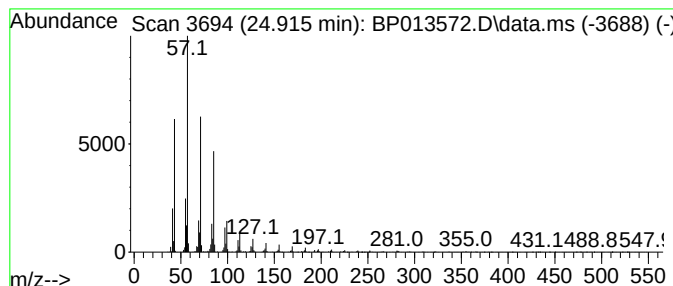
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 Docosane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.916	4.29 ng	1235020	Perylene-d12	24.215

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Docosane	310	C22H46	000629-97-0	97
2			Heptadecane, 9-octyl-	352	C25H52	007225-64-1	95
3			Heneicosane	296	C21H44	000629-94-7	93
4			Pentadecane, 8-hexyl-	296	C21H44	013475-75-7	93
5			Eicosane, 10-methyl-	296	C21H44	054833-23-7	93



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012423\
Data File : BP013572.D
Acq On : 24 Jan 2023 15:50
Operator : CG/JU
Sample : PB150378BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB150378BL

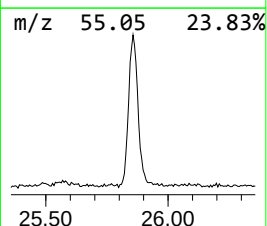
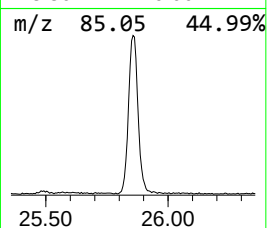
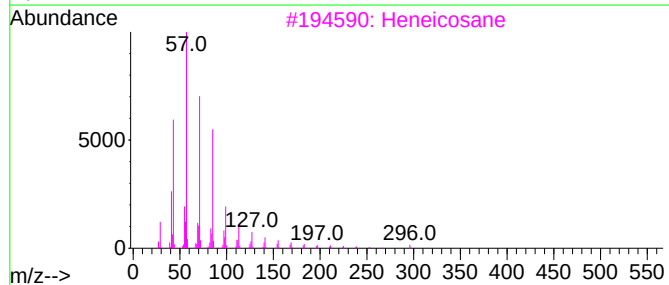
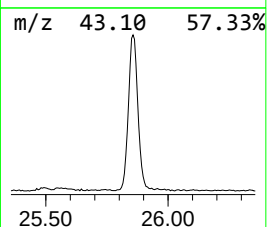
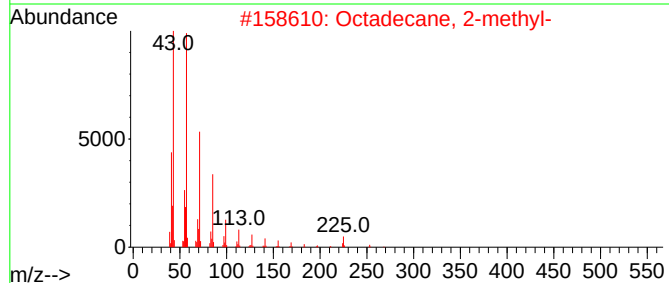
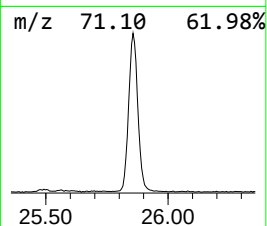
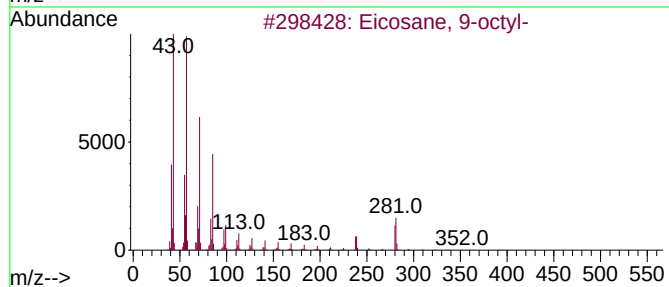
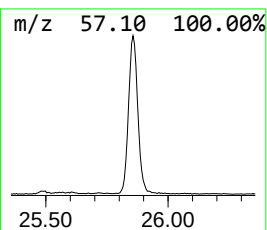
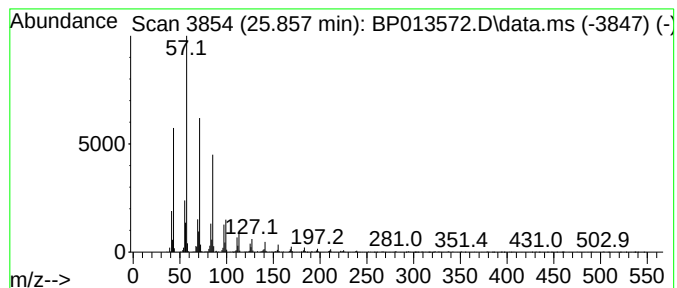
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 Eicosane, 9-octyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
25.857	5.21 ng	1500250	Perylene-d12	24.215

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Eicosane, 9-octyl-	394	C28H58	013475-77-9	94
2			Octadecane, 2-methyl-	268	C19H40	001560-88-9	93
3			Heneicosane	296	C21H44	000629-94-7	91
4			Octacosane	394	C28H58	000630-02-4	91
5			Tetratetracontane	619	C44H90	007098-22-8	91



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012423\
Data File : BP013572.D
Acq On : 24 Jan 2023 15:50
Operator : CG/JU
Sample : PB150378BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB150378BL

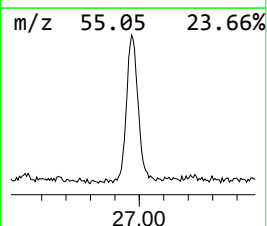
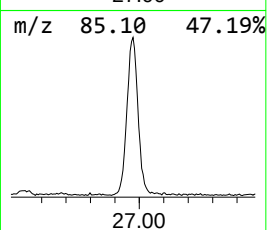
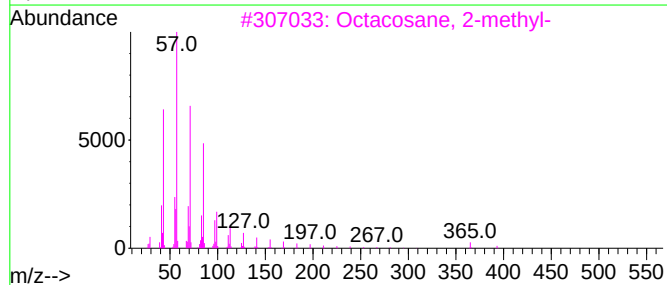
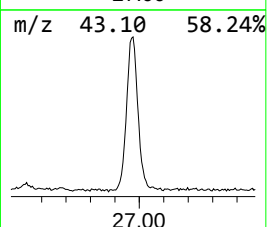
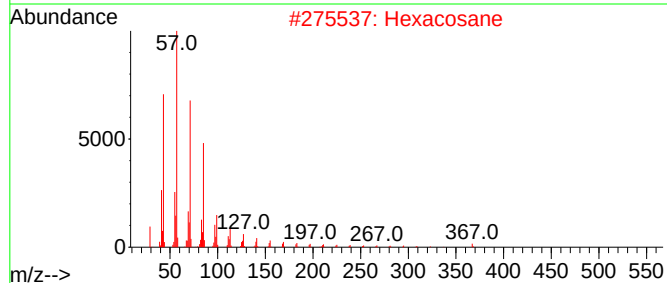
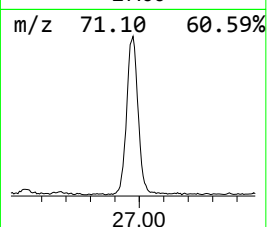
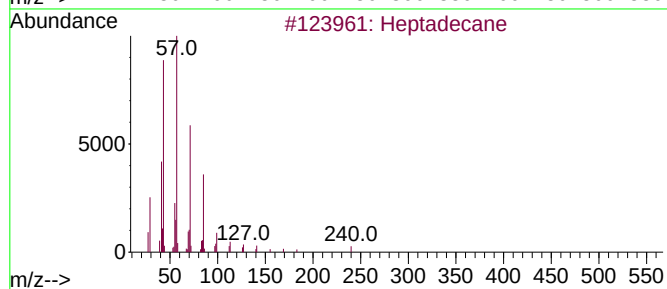
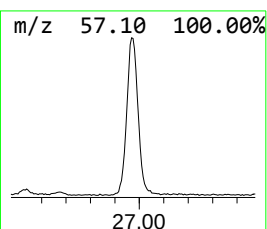
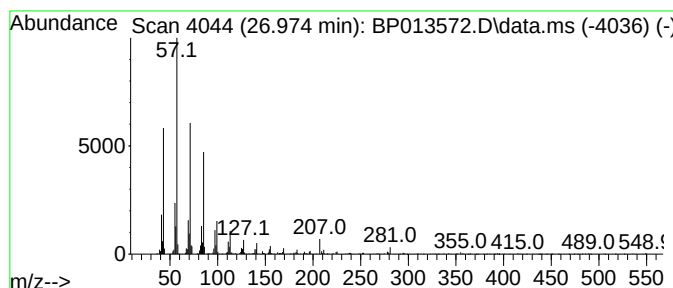
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 Heptadecane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
26.974	3.69 ng	1062770	Perylene-d12	24.215

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Heptadecane	240	C17H36	000629-78-7	93
2			Hexacosane	366	C26H54	000630-01-3	93
3			Octacosane, 2-methyl-	408	C29H60	001560-98-1	90
4			Octacosane	394	C28H58	000630-02-4	90
5			Triacontane, 1-iodo-	548	C30H61I	1000406-32-3	90



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012423\
Data File : BP013572.D
Acq On : 24 Jan 2023 15:50
Operator : CG/JU
Sample : PB150378BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB150378BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012323.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
2-Pentanone, 4-...	5.217	30.9	ng	2609420	1	8.163	1686120	20.0
Heptadecane, 9-...	24.110	3.7	ng	1077940	6	24.215	5757530	20.0
Docosane	24.916	4.3	ng	1235020	6	24.215	5757530	20.0
Eicosane, 9-octyl-	25.857	5.2	ng	1500250	6	24.215	5757530	20.0
Heptadecane	26.974	3.7	ng	1062770	6	24.215	5757530	20.0



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	
Client Sample ID:	PB150378BS	SDG No.:	O1233
Lab Sample ID:	PB150378BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP013684.D	1	01/20/23 12:30	01/31/23 21:04	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	960		140	330	ug/Kg
108-95-2	Phenol	1600		67.7	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1500		80.2	170	ug/Kg
95-57-8	2-Chlorophenol	1600		68.3	170	ug/Kg
95-48-7	2-Methylphenol	1500		110	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1600		95.8	170	ug/Kg
98-86-2	Acetophenone	1400		80.0	170	ug/Kg
65794-96-9	3+4-Methylphenols	1500		97.3	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		76.0	79.9	ug/Kg
67-72-1	Hexachloroethane	1600		73.7	170	ug/Kg
98-95-3	Nitrobenzene	1400		73.9	170	ug/Kg
78-59-1	Isophorone	1400		66.6	170	ug/Kg
88-75-5	2-Nitrophenol	1400		92.7	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1500		98.7	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1400		110	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1500		81.6	170	ug/Kg
91-20-3	Naphthalene	1400		73.9	170	ug/Kg
106-47-8	4-Chloroaniline	810		96.2	170	ug/Kg
87-68-3	Hexachlorobutadiene	1500		99.3	170	ug/Kg
105-60-2	Caprolactam	1400		99.9	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1500		78.6	170	ug/Kg
91-57-6	2-Methylnaphthalene	1300		75.0	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3600	E	170	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1500		85.3	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1400		83.5	170	ug/Kg
92-52-4	1,1-Biphenyl	1400		86.4	170	ug/Kg
91-58-7	2-Chloronaphthalene	1400		85.4	170	ug/Kg
88-74-4	2-Nitroaniline	1400		110	170	ug/Kg
131-11-3	Dimethylphthalate	1400		80.8	170	ug/Kg
208-96-8	Acenaphthylene	1400		68.7	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1400		78.0	170	ug/Kg



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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	
Client Sample ID:	PB150378BS	SDG No.:	O1233
Lab Sample ID:	PB150378BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP013684.D	1	01/20/23 12:30	01/31/23 21:04	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	1100		100	170	ug/Kg
83-32-9	Acenaphthene	1600		78.8	170	ug/Kg
51-28-5	2,4-Dinitrophenol	2900	E	130	330	ug/Kg
100-02-7	4-Nitrophenol	3100	E	140	330	ug/Kg
132-64-9	Dibenzofuran	1400		74.2	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1500		84.5	170	ug/Kg
84-66-2	Diethylphthalate	1400		80.4	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1400		93.5	170	ug/Kg
86-73-7	Fluorene	1400		78.7	170	ug/Kg
100-01-6	4-Nitroaniline	1300		100	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1400		86.1	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1400		82.1	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1400		98.3	170	ug/Kg
118-74-1	Hexachlorobenzene	1500		100	170	ug/Kg
1912-24-9	Atrazine	1600		89.9	170	ug/Kg
87-86-5	Pentachlorophenol	2800	E	120	330	ug/Kg
85-01-8	Phenanthrene	1400		83.5	170	ug/Kg
120-12-7	Anthracene	1400		83.9	170	ug/Kg
86-74-8	Carbazole	1400		84.1	170	ug/Kg
84-74-2	Di-n-butylphthalate	1400		86.9	170	ug/Kg
206-44-0	Fluoranthene	1400		79.7	170	ug/Kg
129-00-0	Pyrene	1600		74.2	170	ug/Kg
85-68-7	Butylbenzylphthalate	1600		82.6	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1300		140	330	ug/Kg
56-55-3	Benzo(a)anthracene	1500		86.7	170	ug/Kg
218-01-9	Chrysene	1400		85.4	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1500		88.5	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1300		90.9	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1700		69.0	170	ug/Kg
207-08-9	Benzo(k)fluoranthene	1600		73.6	170	ug/Kg
50-32-8	Benzo(a)pyrene	1400		67.7	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1300		100	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1300		100	170	ug/Kg



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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company		Date Collected:	
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR		Date Received:	
Client Sample ID:	PB150378BS		SDG No.:	O1233
Lab Sample ID:	PB150378BS		Matrix:	SOIL
Analytical Method:	SW8270		% Solid:	100
Sample Wt/Vol:	30.02	Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-TCL BNA -20
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP013684.D	1	01/20/23 12:30	01/31/23 21:04	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	1200		96.8	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1400		91.1	170	ug/Kg
123-91-1	1,4-Dioxane	1100		89.0	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1500		81.1	170	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	146		18 - 112	97%	SPK: 150
13127-88-3	Phenol-d6	144		21 - 104	96%	SPK: 150
4165-60-0	Nitrobenzene-d5	90.3		27 - 109	90%	SPK: 100
321-60-8	2-Fluorobiphenyl	85.2		30 - 103	85%	SPK: 100
118-79-6	2,4,6-Tribromophenol	141		10 - 121	94%	SPK: 150
1718-51-0	Terphenyl-d14	103		21 - 107	103%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	298000	8.14
1146-65-2	Naphthalene-d8	1190000	10.969
15067-26-2	Acenaphthene-d10	801000	14.775
1517-22-2	Phenanthrene-d10	1850000	17.528
1719-03-5	Chrysene-d12	1640000	21.61
1520-96-3	Perylene-d12	1450000	24.18

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
 Data File : BP013684.D
 Acq On : 31 Jan 2023 21:04
 Operator : CG/JU
 Sample : PB150378BS
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 PB150378BS

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 02/01/2023
 Supervised By : Jagrut Upadhyay 02/01/2023

Quant Time: Feb 01 06:32:22 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 01 03:43:48 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.140	152	297815	20.000	ng	0.00
21) Naphthalene-d8	10.969	136	1192599	20.000	ng	0.00
39) Acenaphthene-d10	14.775	164	801024	20.000	ng	0.00
64) Phenanthrene-d10	17.528	188	1851077	20.000	ng	0.00
76) Chrysene-d12	21.610	240	1639741	20.000	ng	0.00
86) Perylene-d12	24.180	264	1453642	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.675	112	2538359	145.702	ng	0.00
7) Phenol-d6	7.293	99	3339075	143.864	ng	0.00
23) Nitrobenzene-d5	9.316	82	1851739	90.320	ng	0.00
42) 2,4,6-Tribromophenol	16.269	330	1697472	141.285	ng	0.00
45) 2-Fluorobiphenyl	13.404	172	4876543	85.186	ng	0.00
79) Terphenyl-d14	20.057	244	8534837	103.358	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.517	88	248645	33.735	ng	99
3) Pyridine	3.928	79	700320	33.001	ng	97
4) n-Nitrosodimethylamine	3.834	42	318523	41.860	ng	99
6) Aniline	7.458	93	1267180	41.880	ng	100
8) 2-Chlorophenol	7.699	128	889507	48.498	ng	98
9) Benzaldehyde	7.269	77	392402m	28.969	ng	
10) Phenol	7.316	94	1199208	49.459	ng	97
11) bis(2-Chloroethyl)ether	7.552	93	881895	45.532	ng	98
12) 1,3-Dichlorobenzene	8.028	146	954678	46.208	ng	100
13) 1,4-Dichlorobenzene	8.175	146	973892	46.588	ng	99
14) 1,2-Dichlorobenzene	8.499	146	942979	47.141	ng	99
15) Benzyl Alcohol	8.381	79	791175m	48.139	ng	
16) 2,2'-oxybis(1-Chloropr...	8.675	45	1054362	46.610	ng	99
17) 2-Methylphenol	8.581	107	781032	45.968	ng	99
18) Hexachloroethane	9.234	117	325235	47.182	ng	95
19) n-Nitroso-di-n-propyla...	8.958	70	667310	45.825	ng	99
20) 3+4-Methylphenols	8.910	107	1057897	45.640	ng	99
22) Acetophenone	8.975	105	1328988	42.733	ng	# 98
24) Nitrobenzene	9.358	77	963682	43.335	ng	99
25) Isophorone	9.887	82	1916361	42.172	ng	99
26) 2-Nitrophenol	10.075	139	431681	42.269	ng	98
27) 2,4-Dimethylphenol	10.128	122	838432	45.719	ng	98
28) bis(2-Chloroethoxy)met...	10.363	93	1183431	43.451	ng	99
29) 2,4-Dichlorophenol	10.610	162	923449	46.264	ng	100
30) 1,2,4-Trichlorobenzene	10.828	180	983645	44.412	ng	98
31) Naphthalene	11.022	128	2640523	42.109	ng	100
32) Benzoic acid	10.269	122	612212	42.248	ng	97
33) 4-Chloroaniline	11.122	127	671860	24.384	ng	99
34) Hexachlorobutadiene	11.304	225	617034	43.889	ng	99
35) Caprolactam	11.916	113	281525m	42.947	ng	
36) 4-Chloro-3-methylphenol	12.234	107	938418	44.694	ng	99
37) 2-Methylnaphthalene	12.616	142	1900067	40.298	ng	99
38) 1-Methylnaphthalene	12.834	142	1783880	40.277	ng	99
40) 1,2,4,5-Tetrachloroben...	12.981	216	1187147	43.410	ng	99
41) Hexachlorocyclopentadiene	12.957	237	1347081	107.923	ng	98
43) 2,4,6-Trichlorophenol	13.210	196	816214	45.326	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
 Data File : BP013684.D
 Acq On : 31 Jan 2023 21:04
 Operator : CG/JU
 Sample : PB150378BS
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 PB150378BS

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 02/01/2023
 Supervised By : Jagrut Upadhyay 02/01/2023

Quant Time: Feb 01 06:32:22 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 01 03:43:48 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.287	196	896098	42.502	ng	100
46) 1,1'-Biphenyl	13.610	154	2579371	42.552	ng	99
47) 2-Chloronaphthalene	13.657	162	2004868	42.789	ng	100
48) 2-Nitroaniline	13.857	65	471762	40.830	ng	99
49) Acenaphthylene	14.498	152	3185877	42.163	ng	99
50) Dimethylphthalate	14.228	163	2657412	42.891	ng	100
51) 2,6-Dinitrotoluene	14.345	165	550559	43.527	ng	99
52) Acenaphthene	14.840	154	2285561m	46.984	ng	
53) 3-Nitroaniline	14.675	138	435346	33.113	ng	95
54) 2,4-Dinitrophenol	14.881	184	715278	85.614	ng	97
55) Dibenzofuran	15.175	168	3152288	41.406	ng	99
56) 4-Nitrophenol	14.981	139	1010325	94.052	ng	99
57) 2,4-Dinitrotoluene	15.134	165	751250	44.321	ng	99
58) Fluorene	15.822	166	2508341	41.965	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.398	232	832052	45.384	ng	99
60) Diethylphthalate	15.587	149	2552116	42.968	ng	100
61) 4-Chlorophenyl-phenyle...	15.810	204	1377167	42.310	ng	99
62) 4-Nitroaniline	15.845	138	540433	40.362	ng	99
63) Azobenzene	16.104	77	2333492	42.530	ng	98
65) 4,6-Dinitro-2-methylph...	15.898	198	447924	42.477	ng	95
66) n-Nitrosodiphenylamine	16.028	169	2275021	42.240	ng	99
67) 4-Bromophenyl-phenylether	16.710	248	919418	43.329	ng	99
68) Hexachlorobenzene	16.828	284	1071399	45.597	ng	97
69) Atrazine	16.981	200	863738	49.284	ng	99
70) Pentachlorophenol	17.175	266	1445994	83.427	ng	99
71) Phenanthrene	17.575	178	4238463	42.719	ng	99
72) Anthracene	17.663	178	4257449	42.504	ng	99
73) Carbazole	17.928	167	3861927	42.460	ng	100
74) Di-n-butylphthalate	18.457	149	4331139	43.515	ng	99
75) Fluoranthene	19.522	202	5110055	41.370	ng	100
77) Benzidine	19.692	184	1839741	51.944	ng	99
78) Pyrene	19.875	202	5243756	47.533	ng	100
80) Butylbenzylphthalate	20.727	149	1461881	48.541	ng	98
81) Benzo(a)anthracene	21.592	228	4968194	43.621	ng	100
82) 3,3'-Dichlorobenzidine	21.510	252	1361890	37.821	ng	99
83) Chrysene	21.645	228	4577755	42.186	ng	99
84) Bis(2-ethylhexyl)phtha...	21.486	149	2294930	44.754	ng	100
85) Di-n-octyl phthalate	22.474	149	3767878	40.239	ng	100
87) Indeno(1,2,3-cd)pyrene	26.904	276	4198180	37.975	ng	100
88) Benzo(b)fluoranthene	23.386	252	4491017	51.404	ng	99
89) Benzo(k)fluoranthene	23.439	252	4288510	49.007	ng	99
90) Benzo(a)pyrene	24.069	252	3690409	42.554	ng	100
91) Dibenzo(a,h)anthracene	26.921	278	3562245	38.820	ng	100
92) Benzo(g,h,i)perylene	27.739	276	3413658	37.455	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP013123\
 Data File : BP013684.D
 Acq On : 31 Jan 2023 21:04
 Operator : CG/JU
 Sample : PB150378BS
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :

BNA_P

ClientSampleId :

PB150378BS

Manual Integrations

APPROVED

Reviewed By : Christian Giraldo 02/01/2023
 Supervised By : Jagrut Upadhyay 02/01/2023

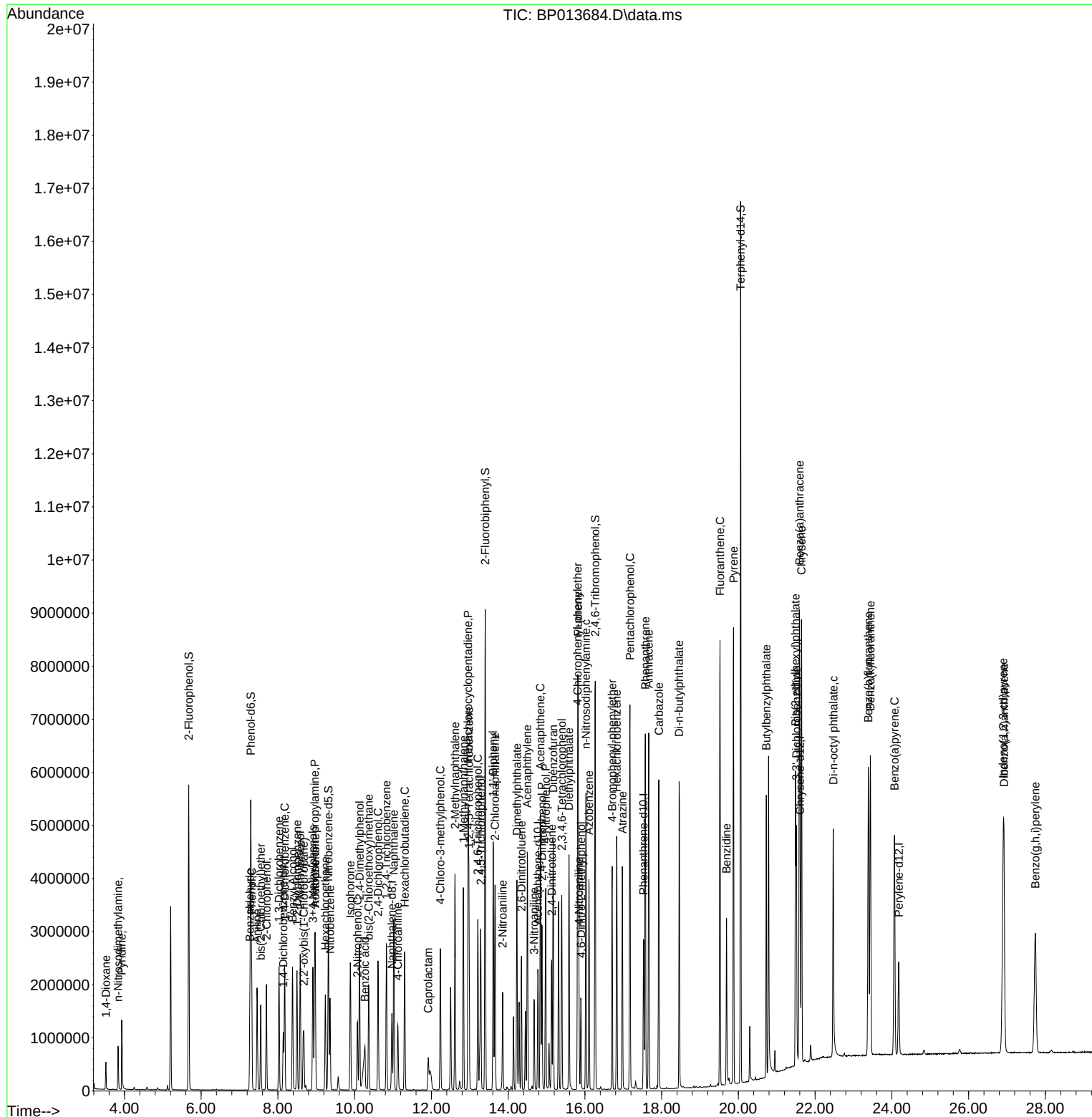
Quant Time: Feb 01 06:32:22 2023

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013123.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Feb 01 03:43:48 2023

Response via : Initial Calibration





284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P34AMS	SDG No.:	O1233
Lab Sample ID:	O1233-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF132171.D	1	01/20/23 12:30	01/20/23 20:35	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1200		170	390	ug/Kg
108-95-2	Phenol	1700		79.2	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1700		94.0	200	ug/Kg
95-57-8	2-Chlorophenol	1800		79.9	200	ug/Kg
95-48-7	2-Methylphenol	1700		130	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1700		110	200	ug/Kg
98-86-2	Acetophenone	1600		93.7	200	ug/Kg
65794-96-9	3+4-Methylphenols	1700		110	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1700		89.1	93.6	ug/Kg
67-72-1	Hexachloroethane	1800		86.3	200	ug/Kg
98-95-3	Nitrobenzene	1700		86.5	200	ug/Kg
78-59-1	Isophorone	1700		77.9	200	ug/Kg
88-75-5	2-Nitrophenol	2000		110	200	ug/Kg
105-67-9	2,4-Dimethylphenol	1700		120	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1600		130	200	ug/Kg
120-83-2	2,4-Dichlorophenol	1700		95.6	200	ug/Kg
91-20-3	Naphthalene	1600		86.5	200	ug/Kg
106-47-8	4-Chloroaniline	590		110	200	ug/Kg
87-68-3	Hexachlorobutadiene	1600		120	200	ug/Kg
105-60-2	Caprolactam	2000		120	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1800		92.1	200	ug/Kg
91-57-6	2-Methylnaphthalene	1500		87.8	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3600	E	200	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1700		100	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		97.8	200	ug/Kg
92-52-4	1,1-Biphenyl	1600		100	200	ug/Kg
91-58-7	2-Chloronaphthalene	1600		100	200	ug/Kg
88-74-4	2-Nitroaniline	1800		130	200	ug/Kg
131-11-3	Dimethylphthalate	1600		94.7	200	ug/Kg
208-96-8	Acenaphthylene	1600		80.4	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	2000		91.4	200	ug/Kg



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P34AMS	SDG No.:	O1233
Lab Sample ID:	O1233-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF132171.D	1	01/20/23 12:30	01/20/23 20:35	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	1300		120	200	ug/Kg
83-32-9	Acenaphthene	1800		92.3	200	ug/Kg
51-28-5	2,4-Dinitrophenol	4200	E	150	390	ug/Kg
100-02-7	4-Nitrophenol	3900	E	160	390	ug/Kg
132-64-9	Dibenzofuran	1500		86.8	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	2100		99.0	200	ug/Kg
84-66-2	Diethylphthalate	1700		94.2	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		110	200	ug/Kg
86-73-7	Fluorene	1600		92.2	200	ug/Kg
100-01-6	4-Nitroaniline	1900		120	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1900		100	390	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1500		96.2	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1500		120	200	ug/Kg
118-74-1	Hexachlorobenzene	1700		120	200	ug/Kg
1912-24-9	Atrazine	1800		110	200	ug/Kg
87-86-5	Pentachlorophenol	3100		140	390	ug/Kg
85-01-8	Phenanthrene	1500		97.8	200	ug/Kg
120-12-7	Anthracene	1500		98.3	200	ug/Kg
86-74-8	Carbazole	1700		98.5	200	ug/Kg
84-74-2	Di-n-butylphthalate	1800		100	200	ug/Kg
206-44-0	Fluoranthene	1700		93.4	200	ug/Kg
129-00-0	Pyrene	1600		86.8	200	ug/Kg
85-68-7	Butylbenzylphthalate	1900		96.8	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	830		160	390	ug/Kg
56-55-3	Benzo(a)anthracene	1700		100	200	ug/Kg
218-01-9	Chrysene	1600		100	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1800		100	200	ug/Kg
117-84-0	Di-n-octyl phthalate	1700		110	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	1800		80.8	200	ug/Kg
207-08-9	Benzo(k)fluoranthene	1700		86.1	200	ug/Kg
50-32-8	Benzo(a)pyrene	1600		79.2	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1500		120	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1700		120	200	ug/Kg



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P34AMS	SDG No.:	O1233
Lab Sample ID:	O1233-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF132171.D	1	01/20/23 12:30	01/20/23 20:35	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	1500		110	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1500		110	200	ug/Kg
123-91-1	1,4-Dioxane	1500		100	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1800		95.0	200	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	111		18 - 112	74%	SPK: 150
13127-88-3	Phenol-d6	118		21 - 104	79%	SPK: 150
4165-60-0	Nitrobenzene-d5	81.4		27 - 109	81%	SPK: 100
321-60-8	2-Fluorobiphenyl	65.7		30 - 103	66%	SPK: 100
118-79-6	2,4,6-Tribromophenol	131		10 - 121	88%	SPK: 150
1718-51-0	Terphenyl-d14	73.6		21 - 107	74%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	184000	7.09
1146-65-2	Naphthalene-d8	674000	8.378
15067-26-2	Acenaphthene-d10	369000	10.142
1517-22-2	Phenanthrene-d10	748000	11.642
1719-03-5	Chrysene-d12	455000	14.307
1520-96-3	Perylene-d12	406000	15.901

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
 Data File : BF132171.D
 Acq On : 20 Jan 2023 20:35
 Operator : CG\JU
 Sample : 01233-02MS
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

B-P34AMS

Manual Integrations

APPROVED

Reviewed By :Christian

Giraldo

01/23/2023

Supervised By :Jagrut

Upadhyay

01/23/2023

Quant Time: Jan 21 03:56:38 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 00:50:42 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.090	152	184212	20.000	ng	0.00
21) Naphthalene-d8	8.378	136	674454	20.000	ng	0.00
39) Acenaphthene-d10	10.142	164	369043	20.000	ng	0.00
64) Phenanthrene-d10	11.642	188	748390	20.000	ng	0.00
76) Chrysene-d12	14.307	240	455426	20.000	ng	0.00
86) Perylene-d12	15.901	264	405760	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.725	112	1168126	110.773	ng	0.02
7) Phenol-d6	6.707	99	1563691	117.797	ng	0.00
23) Nitrobenzene-d5	7.654	82	1033020	81.365	ng	0.00
42) 2,4,6-Tribromophenol	10.942	330	518300	131.484	ng	0.00
45) 2-Fluorobiphenyl	9.454	172	1659325	65.701	ng	0.00
79) Terphenyl-d14	13.236	244	2001844	73.630	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.113	88	211997	39.682	ng	99
3) Pyridine	3.843	79	546312	38.093	ng	99
4) n-Nitrosodimethylamine	3.802	42	292734	43.401	ng	100
6) Aniline	6.748	93	655144m	35.632	ng	
8) 2-Chlorophenol	6.872	128	523160	47.198	ng	98
9) Benzaldehyde	6.643	77	264685	30.994	ng	99
10) Phenol	6.719	94	611337	44.238	ng	98
11) bis(2-Chloroethyl)ether	6.819	93	513886	43.927	ng	100
12) 1,3-Dichlorobenzene	7.031	146	545379	44.016	ng	98
13) 1,4-Dichlorobenzene	7.107	146	552662	44.700	ng	99
14) 1,2-Dichlorobenzene	7.260	146	530446	46.399	ng	97
15) Benzyl Alcohol	7.225	79	478698m	47.146	ng	
16) 2,2'-oxybis(1-Chloropr...	7.360	45	755751	44.449	ng	100
17) 2-Methylphenol	7.331	107	422253	43.483	ng	98
18) Hexachloroethane	7.607	117	207584	46.772	ng	96
19) n-Nitroso-di-n-propyla...	7.501	70	348478	42.857	ng	96
20) 3+4-Methylphenols	7.484	107	525790	42.970	ng	97
22) Acetophenone	7.501	105	665637	41.062	ng	# 98
24) Nitrobenzene	7.678	77	574598	42.745	ng	94
25) Isophorone	7.913	82	1061960	42.749	ng	98
26) 2-Nitrophenol	7.990	139	264966	51.662	ng	96
27) 2,4-Dimethylphenol	8.019	122	476757	44.353	ng	99
28) bis(2-Chloroethoxy)met...	8.119	93	613210	41.142	ng	99
29) 2,4-Dichlorophenol	8.231	162	448760	43.975	ng	98
30) 1,2,4-Trichlorobenzene	8.319	180	489393	42.222	ng	98
31) Naphthalene	8.401	128	1400607	40.435	ng	99
32) Benzoic acid	8.125	122	351863	48.858	ng	92
33) 4-Chloroaniline	8.442	127	222620	15.018	ng	95
34) Hexachlorobutadiene	8.513	225	325291	41.776	ng	99
35) Caprolactam	8.819	113	149764m	51.751	ng	
36) 4-Chloro-3-methylphenol	8.913	107	470663	45.831	ng	97
37) 2-Methylnaphthalene	9.095	142	925079	38.790	ng	100
38) 1-Methylnaphthalene	9.195	142	877096	39.527	ng	99
40) 1,2,4,5-Tetrachloroben...	9.260	216	500922	39.012	ng	99
41) Hexachlorocyclopentadiene	9.248	237	650146	92.788	ng	99
43) 2,4,6-Trichlorophenol	9.366	196	353715	44.387	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
 Data File : BF132171.D
 Acq On : 20 Jan 2023 20:35
 Operator : CG\JU
 Sample : 01233-02MS
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-P34AMS

Manual Integrations
 APPROVED

Reviewed By :Christian
 Giraldo
 01/23/2023
 Supervised By :Jagru
 Upadhyay
 01/23/2023

Quant Time: Jan 21 03:56:38 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 00:50:42 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.407	196	386938	41.518	ng	98
46) 1,1'-Biphenyl	9.560	154	1157682	39.762	ng	100
47) 2-Chloronaphthalene	9.589	162	924471	41.075	ng	98
48) 2-Nitroaniline	9.678	65	326841	45.547	ng	97
49) Acenaphthylene	10.007	152	1454351	40.393	ng	99
50) Dimethylphthalate	9.854	163	1122254	41.987	ng	100
51) 2,6-Dinitrotoluene	9.919	165	259408	50.073	ng	95
52) Acenaphthene	10.184	154	971821	44.874	ng	97
53) 3-Nitroaniline	10.089	138	178541	32.234	ng	97
54) 2,4-Dinitrophenol	10.195	184	266056	108.068	ng	# 48
55) Dibenzofuran	10.354	168	1327167	39.654	ng	97
56) 4-Nitrophenol	10.242	139	407268	101.031	ng	89
57) 2,4-Dinitrotoluene	10.325	165	335194	53.902	ng	96
58) Fluorene	10.701	166	999303	40.296	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.466	232	330526	46.622	ng	99
60) Diethylphthalate	10.560	149	1129768	43.103	ng	99
61) 4-Chlorophenyl-phenyle...	10.684	204	535392	40.317	ng	99
62) 4-Nitroaniline	10.713	138	257309	49.898	ng	100
63) Azobenzene	10.848	77	1393280	52.965	ng	99
65) 4,6-Dinitro-2-methylph...	10.736	198	178390	48.454	ng	92
66) n-Nitrosodiphenylamine	10.807	169	919691	38.372	ng	99
67) 4-Bromophenyl-phenylether	11.178	248	353442	38.746	ng	99
68) Hexachlorobenzene	11.248	284	385274	42.496	ng	96
69) Atrazine	11.331	200	345513	46.723	ng	99
70) Pentachlorophenol	11.442	266	460815	79.097	ng	97
71) Phenanthrene	11.672	178	1559992	39.721	ng	99
72) Anthracene	11.725	178	1577300	39.698	ng	100
73) Carbazole	11.872	167	1442821	42.512	ng	99
74) Di-n-butylphthalate	12.195	149	1710479	45.273	ng	99
75) Fluoranthene	12.866	202	1735889	43.029	ng	99
77) Benzidine	12.983	184	799320	58.456	ng	99
78) Pyrene	13.101	202	1757363	41.870	ng	99
80) Butylbenzylphthalate	13.707	149	675729	49.332	ng	97
81) Benzo(a)anthracene	14.295	228	1390528	42.739	ng	99
82) 3,3'-Dichlorobenzidine	14.248	252	193310	21.334	ng	99
83) Chrysene	14.336	228	1252100	40.430	ng	99
84) Bis(2-ethylhexyl)phtha...	14.266	149	832524	45.641	ng	98
85) Di-n-octyl phthalate	14.901	149	1168376	44.146	ng	99
87) Indeno(1,2,3-cd)pyrene	17.565	276	1255979	39.311	ng	100
88) Benzo(b)fluoranthene	15.419	252	1157546	46.854	ng	99
89) Benzo(k)fluoranthene	15.454	252	1080629	42.889	ng	99
90) Benzo(a)pyrene	15.830	252	992749	41.772	ng	99
91) Dibenzo(a,h)anthracene	17.589	278	1021621	42.543	ng	99
92) Benzo(g,h,i)perylene	18.083	276	1067741	38.992	ng	98

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

```
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\  
Data File : BF132171.D  
Acq On    : 20 Jan 2023   20:35  
Operator  : CG\JU  
Sample    : 01233-02MS  
Misc      :  
ALS Vial  : 9   Sample Multiplier: 1
```

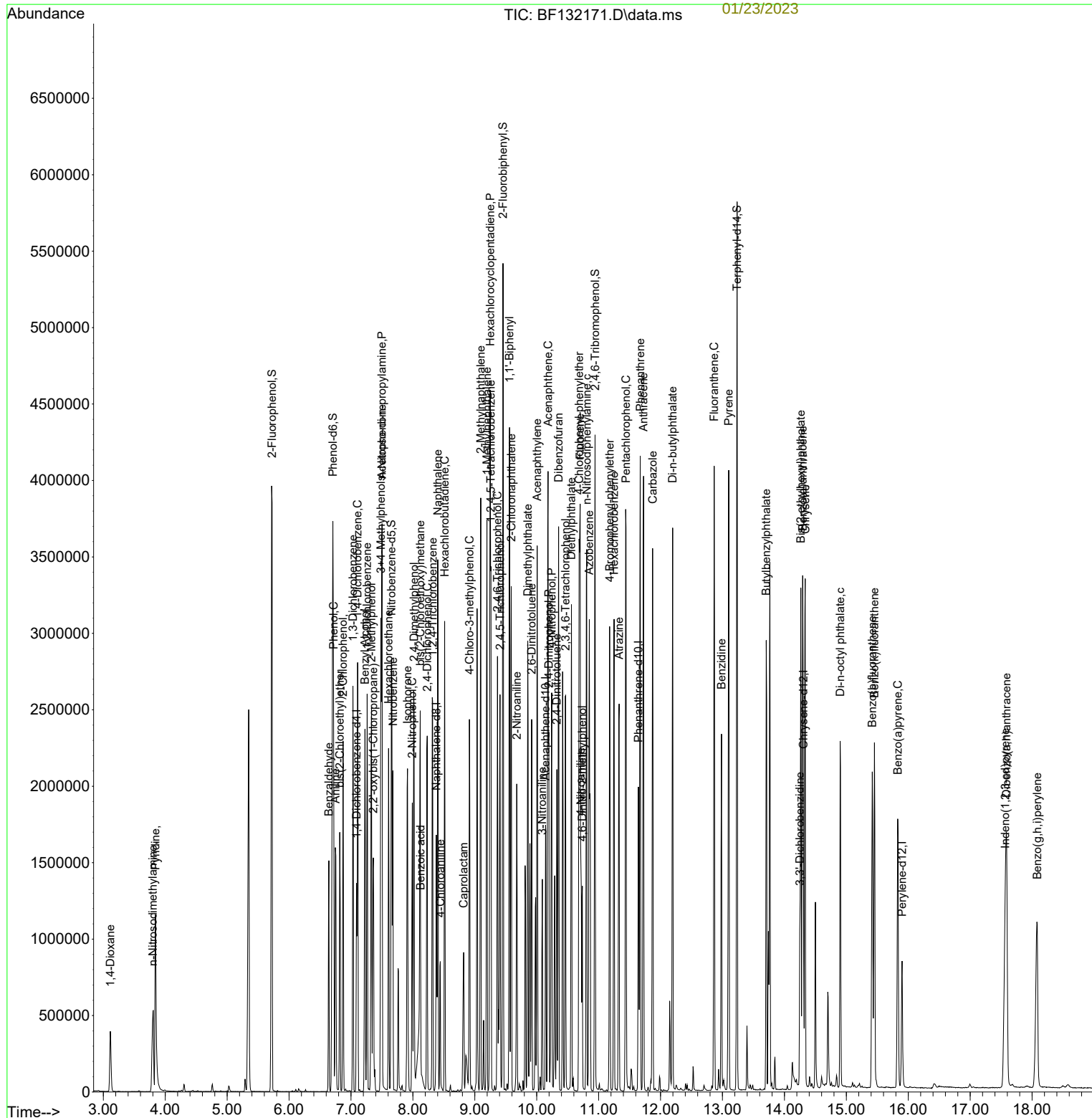
Instrument :
BNA_F
ClientSampleId :
B-P34AMS

Manual Integrations

Reviewed By :Christian
Giraldo
01/23/2023

Supervised By :Jagrut
Upadhyay
01/23/2023

Quant Time: Jan 21 03:56:38 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 20 00:50:42 2023
Response via : Initial Calibration





284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P34AMSD	SDG No.:	O1233
Lab Sample ID:	O1233-02MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF132172.D	1	01/20/23 12:30	01/20/23 21:08	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1200		160	390	ug/Kg
108-95-2	Phenol	1700		79.2	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1700		93.9	200	ug/Kg
95-57-8	2-Chlorophenol	1800		79.9	200	ug/Kg
95-48-7	2-Methylphenol	1700		130	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1700		110	200	ug/Kg
98-86-2	Acetophenone	1600		93.7	200	ug/Kg
65794-96-9	3+4-Methylphenols	1700		110	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1600		89.0	93.6	ug/Kg
67-72-1	Hexachloroethane	1800		86.2	200	ug/Kg
98-95-3	Nitrobenzene	1700		86.4	200	ug/Kg
78-59-1	Isophorone	1700		77.9	200	ug/Kg
88-75-5	2-Nitrophenol	2000		110	200	ug/Kg
105-67-9	2,4-Dimethylphenol	1700		120	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1600		130	200	ug/Kg
120-83-2	2,4-Dichlorophenol	1700		95.6	200	ug/Kg
91-20-3	Naphthalene	1600		86.4	200	ug/Kg
106-47-8	4-Chloroaniline	600		110	200	ug/Kg
87-68-3	Hexachlorobutadiene	1600		120	200	ug/Kg
105-60-2	Caprolactam	2000		120	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1800		92.0	200	ug/Kg
91-57-6	2-Methylnaphthalene	1500		87.7	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3700	E	200	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1700		99.9	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		97.8	200	ug/Kg
92-52-4	1,1-Biphenyl	1600		100	200	ug/Kg
91-58-7	2-Chloronaphthalene	1600		100	200	ug/Kg
88-74-4	2-Nitroaniline	1800		130	200	ug/Kg
131-11-3	Dimethylphthalate	1600		94.6	200	ug/Kg
208-96-8	Acenaphthylene	1600		80.4	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	1900		91.3	200	ug/Kg



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P34AMSD	SDG No.:	O1233
Lab Sample ID:	O1233-02MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF132172.D	1	01/20/23 12:30	01/20/23 21:08	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	1200		120	200	ug/Kg
83-32-9	Acenaphthene	1800		92.3	200	ug/Kg
51-28-5	2,4-Dinitrophenol	4200	E	150	390	ug/Kg
100-02-7	4-Nitrophenol	3900	E	160	390	ug/Kg
132-64-9	Dibenzofuran	1600		86.8	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	2100		98.9	200	ug/Kg
84-66-2	Diethylphthalate	1600		94.2	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		110	200	ug/Kg
86-73-7	Fluorene	1600		92.2	200	ug/Kg
100-01-6	4-Nitroaniline	1900		120	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1900		100	390	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1500		96.1	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1500		120	200	ug/Kg
118-74-1	Hexachlorobenzene	1600		120	200	ug/Kg
1912-24-9	Atrazine	1800		110	200	ug/Kg
87-86-5	Pentachlorophenol	3100		140	390	ug/Kg
85-01-8	Phenanthrene	1500		97.8	200	ug/Kg
120-12-7	Anthracene	1500		98.2	200	ug/Kg
86-74-8	Carbazole	1600		98.5	200	ug/Kg
84-74-2	Di-n-butylphthalate	1700		100	200	ug/Kg
206-44-0	Fluoranthene	1700		93.3	200	ug/Kg
129-00-0	Pyrene	1600		86.8	200	ug/Kg
85-68-7	Butylbenzylphthalate	1900		96.7	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	870		160	390	ug/Kg
56-55-3	Benzo(a)anthracene	1600		100	200	ug/Kg
218-01-9	Chrysene	1600		100	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1700		100	200	ug/Kg
117-84-0	Di-n-octyl phthalate	1700		110	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	1800		80.7	200	ug/Kg
207-08-9	Benzo(k)fluoranthene	1700		86.1	200	ug/Kg
50-32-8	Benzo(a)pyrene	1600		79.2	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1500		120	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1600		120	200	ug/Kg



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Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P34AMSD	SDG No.:	O1233
Lab Sample ID:	O1233-02MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF132172.D	1	01/20/23 12:30	01/20/23 21:08	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	1500		110	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1500		110	200	ug/Kg
123-91-1	1,4-Dioxane	1500		100	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1800		95.0	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	111		18 - 112	74%	SPK: 150
13127-88-3	Phenol-d6	117		21 - 104	78%	SPK: 150
4165-60-0	Nitrobenzene-d5	82.3		27 - 109	82%	SPK: 100
321-60-8	2-Fluorobiphenyl	66.1		30 - 103	66%	SPK: 100
118-79-6	2,4,6-Tribromophenol	131		10 - 121	87%	SPK: 150
1718-51-0	Terphenyl-d14	74.4		21 - 107	74%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	185000	7.089			
1146-65-2	Naphthalene-d8	670000	8.378			
15067-26-2	Acenaphthene-d10	363000	10.142			
1517-22-2	Phenanthrene-d10	737000	11.642			
1719-03-5	Chrysene-d12	440000	14.307			
1520-96-3	Perylene-d12	407000	15.901			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
 Data File : BF132172.D
 Acq On : 20 Jan 2023 21:08
 Operator : CG\JU
 Sample : 01233-02MSD
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-P34AMSD

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 01/23/2023
 Supervised By : Jagrut Upadhyay 01/23/2023

Quant Time: Jan 21 03:57:12 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 00:50:42 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.089	152	185010	20.000	ng	0.00
21) Naphthalene-d8	8.378	136	669898	20.000	ng	0.00
39) Acenaphthene-d10	10.142	164	363370	20.000	ng	0.00
64) Phenanthrene-d10	11.642	188	736982	20.000	ng	0.00
76) Chrysene-d12	14.307	240	439968	20.000	ng	0.00
86) Perylene-d12	15.901	264	406965	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.725	112	1170508	110.521	ng	0.02
7) Phenol-d6	6.707	99	1556685	116.763	ng	0.00
23) Nitrobenzene-d5	7.654	82	1038246	82.333	ng	0.00
42) 2,4,6-Tribromophenol	10.942	330	507491	130.751	ng	0.00
45) 2-Fluorobiphenyl	9.454	172	1643177	66.077	ng	0.00
79) Terphenyl-d14	13.236	244	1952820	74.351	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.125	88	207857	38.739	ng	98
3) Pyridine	3.849	79	548016	38.047	ng	99
4) n-Nitrosodimethylamine	3.807	42	290475	42.880	ng	99
6) Aniline	6.748	93	647002m	35.037	ng	
8) 2-Chlorophenol	6.872	128	522722	46.955	ng	98
9) Benzaldehyde	6.642	77	263835	30.761	ng	96
10) Phenol	6.719	94	608599	43.850	ng	98
11) bis(2-Chloroethyl)ether	6.819	93	512037	43.580	ng	99
12) 1,3-Dichlorobenzene	7.031	146	550558	44.242	ng	98
13) 1,4-Dichlorobenzene	7.107	146	550651	44.346	ng	99
14) 1,2-Dichlorobenzene	7.260	146	530407	46.195	ng	98
15) Benzyl Alcohol	7.225	79	478521m	46.925	ng	
16) 2,2'-oxybis(1-Chloropr...	7.360	45	748437	43.829	ng	99
17) 2-Methylphenol	7.331	107	417984	42.858	ng	98
18) Hexachloroethane	7.607	117	207963	46.656	ng	95
19) n-Nitroso-di-n-propyla...	7.501	70	344907	42.235	ng	97
20) 3+4-Methylphenols	7.484	107	523952	42.635	ng	96
22) Acetophenone	7.501	105	665782	41.350	ng	# 98
24) Nitrobenzene	7.678	77	573088	42.922	ng	94
25) Isophorone	7.913	82	1058482	42.899	ng	98
26) 2-Nitrophenol	7.989	139	266866	52.343	ng	97
27) 2,4-Dimethylphenol	8.019	122	477808	44.753	ng	98
28) bis(2-Chloroethoxy)met...	8.119	93	603691	40.779	ng	99
29) 2,4-Dichlorophenol	8.231	162	443370	43.742	ng	98
30) 1,2,4-Trichlorobenzene	8.319	180	480908	41.772	ng	100
31) Naphthalene	8.401	128	1396657	40.595	ng	99
32) Benzoic acid	8.125	122	348706	48.766	ng	94
33) 4-Chloroaniline	8.442	127	226815	15.405	ng	95
34) Hexachlorobutadiene	8.513	225	324286	41.930	ng	99
35) Caprolactam	8.819	113	147152m	51.194	ng	
36) 4-Chloro-3-methylphenol	8.913	107	463852	45.475	ng	97
37) 2-Methylnaphthalene	9.095	142	924541	39.031	ng	99
38) 1-Methylnaphthalene	9.195	142	871246	39.530	ng	98
40) 1,2,4,5-Tetrachloroben...	9.260	216	497372	39.340	ng	99
41) Hexachlorocyclopentadiene	9.248	237	647423	93.842	ng	99
43) 2,4,6-Trichlorophenol	9.366	196	348929	44.470	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
 Data File : BF132172.D
 Acq On : 20 Jan 2023 21:08
 Operator : CG\JU
 Sample : 01233-02MSD
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-P34AMSD

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 01/23/2023
 Supervised By : Jagrut Upadhyay 01/23/2023

Quant Time: Jan 21 03:57:12 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 00:50:42 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.407	196	376966	41.079	ng	98
46) 1,1'-Biphenyl	9.560	154	1147607	40.032	ng	99
47) 2-Chloronaphthalene	9.589	162	909791	41.054	ng	99
48) 2-Nitroaniline	9.678	65	322574	45.649	ng	98
49) Acenaphthylene	10.007	152	1442347	40.685	ng	99
50) Dimethylphthalate	9.854	163	1089664	41.405	ng	99
51) 2,6-Dinitrotoluene	9.919	165	251265	49.258	ng	94
52) Acenaphthene	10.178	154	962180	45.122	ng	98
53) 3-Nitroaniline	10.089	138	171804	31.502	ng	96
54) 2,4-Dinitrophenol	10.195	184	264179	108.931	ng	# 48
55) Dibenzofuran	10.354	168	1311397	39.795	ng	97
56) 4-Nitrophenol	10.242	139	397985	100.269	ng	88
57) 2,4-Dinitrotoluene	10.325	165	329933	53.885	ng	94
58) Fluorene	10.695	166	990200	40.552	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.466	232	323071	46.282	ng	99
60) Diethylphthalate	10.560	149	1081834	41.919	ng	99
61) 4-Chlorophenyl-phenyle...	10.683	204	529286	40.480	ng	98
62) 4-Nitroaniline	10.713	138	244667	48.187	ng	98
63) Azobenzene	10.848	77	1352716	52.226	ng	99
65) 4,6-Dinitro-2-methylph...	10.736	198	174002	48.068	ng	91
66) n-Nitrosodiphenylamine	10.807	169	891433	37.768	ng	100
67) 4-Bromophenyl-phenylether	11.177	248	343215	38.207	ng	98
68) Hexachlorobenzene	11.248	284	376827	42.208	ng	98
69) Atrazine	11.330	200	329931	45.307	ng	99
70) Pentachlorophenol	11.442	266	448896	78.244	ng	98
71) Phenanthrene	11.672	178	1509959	39.042	ng	99
72) Anthracene	11.724	178	1535077	39.234	ng	100
73) Carbazole	11.872	167	1406032	42.070	ng	100
74) Di-n-butylphthalate	12.195	149	1624073	43.651	ng	100
75) Fluoranthene	12.866	202	1690433	42.551	ng	100
77) Benzidine	12.983	184	767487	58.100	ng	99
78) Pyrene	13.101	202	1705612	42.064	ng	99
80) Butylbenzylphthalate	13.707	149	649876	49.125	ng	97
81) Benzo(a)anthracene	14.295	228	1303827	41.482	ng	99
82) 3,3'-Dichlorobenzidine	14.248	252	194473	22.217	ng	# 97
83) Chrysene	14.336	228	1215936	40.642	ng	100
84) Bis(2-ethylhexyl)phtha...	14.265	149	788199	44.799	ng	99
85) Di-n-octyl phthalate	14.907	149	1120414	43.907	ng	99
87) Indeno(1,2,3-cd)pyrene	17.565	276	1242088	38.793	ng	99
88) Benzo(b)fluoranthene	15.424	252	1152284	46.503	ng	99
89) Benzo(k)fluoranthene	15.454	252	1091571	43.195	ng	99
90) Benzo(a)pyrene	15.830	252	1006189	42.213	ng	99
91) Dibenzo(a,h)anthracene	17.589	278	1008740	41.883	ng	99
92) Benzo(g,h,i)perylene	18.077	276	1041701	37.991	ng	98

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

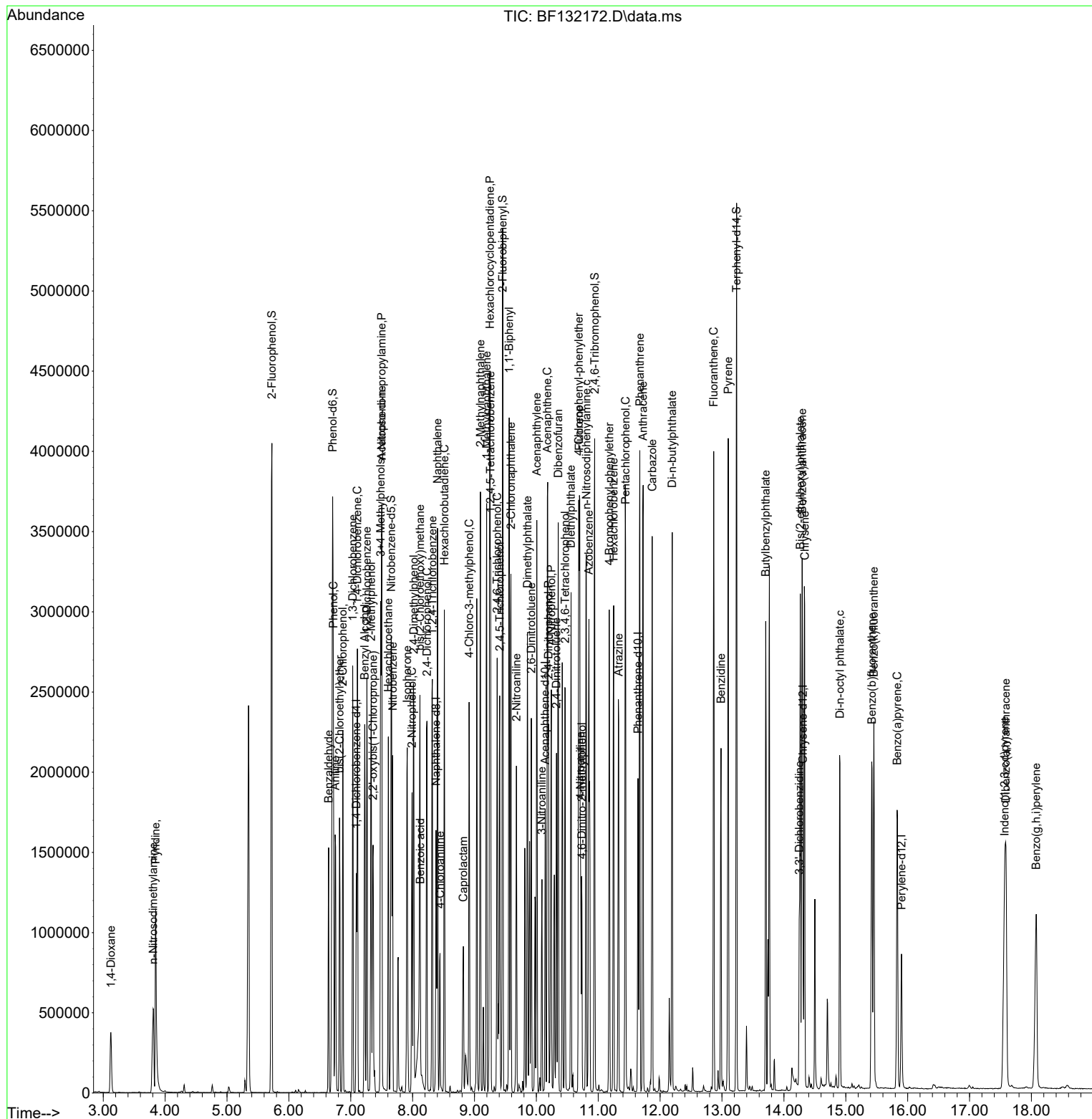
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012023\
Data File : BF132172.D
Acq On : 20 Jan 2023 21:08
Operator : CG\JU
Sample : 01233-02MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-P34AMSD

Manual Integrations APPROVED

Reviewed By :Christian Giraldo 01/23/2023
Supervised By :Jaqrut Upadhyay 01/23/2023

Quant Time: Jan 21 03:57:12 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 20 00:50:42 2023
Response via : Initial Calibration





284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:

BF011923

Instrument

BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BF132141.D	2,3,4,6-Tetrachlorophenol	Christian	1/20/2023 4:17:48 PM	Jagrut	1/20/2023 5:06:17 PM	Peak Integrated by Software
SSTDICC005	BF132141.D	Caprolactam	Christian	1/20/2023 4:17:48 PM	Jagrut	1/20/2023 5:06:17 PM	Peak Integrated by Software
SSTDICCC040	BF132144.D	4-Chlorophenyl-phenylether	Christian	1/20/2023 4:17:50 PM	Jagrut	1/20/2023 5:06:22 PM	Peak Integrated by Software
SSTDICC050	BF132145.D	Benzoic acid	Christian	1/20/2023 4:17:52 PM	Jagrut	1/20/2023 5:06:31 PM	Peak Integrated by Software
SSTDICC050	BF132145.D	Benzyl Alcohol	Christian	1/20/2023 4:17:52 PM	Jagrut	1/20/2023 5:06:31 PM	Peak Integrated by Software
SSTDICC060	BF132146.D	Aniline	Christian	1/20/2023 4:17:55 PM	Jagrut	1/20/2023 5:06:38 PM	Peak Integrated by Software
SSTDICC060	BF132146.D	Benzyl Alcohol	Christian	1/20/2023 4:17:55 PM	Jagrut	1/20/2023 5:06:38 PM	Peak Integrated by Software
SSTDICC080	BF132147.D	Aniline	Christian	1/20/2023 4:17:56 PM	Jagrut	1/20/2023 5:06:43 PM	Peak Integrated by Software
SSTDICC080	BF132147.D	Benzyl Alcohol	Christian	1/20/2023 4:17:56 PM	Jagrut	1/20/2023 5:06:43 PM	Peak Integrated by Software



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:

BF012023

Instrument

BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF132154.D	Benzoic acid	Christian	1/23/2023 9:30:10 AM	Jagrut	1/23/2023 10:44:10 AM	Peak Integrated by Software
SSTDCCC040	BF132154.D	Benzyl Alcohol	Christian	1/23/2023 9:30:10 AM	Jagrut	1/23/2023 10:44:10 AM	Peak Integrated by Software
SSTDCCC040	BF132162.D	Benzoic acid	Christian	1/23/2023 9:30:18 AM	Jagrut	1/23/2023 10:44:38 AM	Peak Integrated by Software
SSTDCCC040	BF132162.D	Benzyl Alcohol	Christian	1/23/2023 9:30:18 AM	Jagrut	1/23/2023 10:44:38 AM	Peak Integrated by Software
SSTDCCC040	BF132164.D	Benzoic acid	Christian	1/23/2023 9:30:20 AM	Jagrut	1/23/2023 10:44:43 AM	Peak Integrated by Software
SSTDCCC040	BF132164.D	Benzyl Alcohol	Christian	1/23/2023 9:30:20 AM	Jagrut	1/23/2023 10:44:43 AM	Peak Integrated by Software
O1233-02MS	BF132171.D	Aniline	Christian	1/23/2023 9:30:33 AM	Jagrut	1/23/2023 10:45:02 AM	Peak Integrated by Software
O1233-02MS	BF132171.D	Benzyl Alcohol	Christian	1/23/2023 9:30:33 AM	Jagrut	1/23/2023 10:45:02 AM	Peak Integrated by Software
O1233-02MS	BF132171.D	Caprolactam	Christian	1/23/2023 9:30:33 AM	Jagrut	1/23/2023 10:45:02 AM	Peak Integrated by Software
O1233-02MSD	BF132172.D	Aniline	Christian	1/23/2023 9:30:36 AM	Jagrut	1/23/2023 10:45:06 AM	Peak Integrated by Software
O1233-02MSD	BF132172.D	Benzyl Alcohol	Christian	1/23/2023 9:30:36 AM	Jagrut	1/23/2023 10:45:06 AM	Peak Integrated by Software
O1233-02MSD	BF132172.D	Caprolactam	Christian	1/23/2023 9:30:36 AM	Jagrut	1/23/2023 10:45:06 AM	Peak Integrated by Software
SSTDCCC040	BF132183.D	Benzoic acid	Christian	1/23/2023 9:30:30 AM	Jagrut	1/23/2023 10:45:16 AM	Peak Integrated by Software



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:	BF012023	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF132183.D	Benzyl Alcohol	Christian	1/23/2023 9:30:30 AM	Jagrut	1/23/2023 10:45:16 AM	Peak Integrated by Software



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:

BG122722

Instrument

BNA_g

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BG056127.D	Pyridine	Christian	12/28/2022 9:11:51 AM	Jagrut	12/28/2022 2:10:20 PM	Peak Integrated by Software
SSTDICC010	BG056128.D	1,4-Dioxane	Christian	12/28/2022 9:11:53 AM	Jagrut	12/28/2022 2:10:24 PM	Peak Integrated by Software
SSTDICC010	BG056128.D	2,2"-oxybis(1-Chloropropane)	Christian	12/28/2022 9:11:53 AM	Jagrut	12/28/2022 2:10:24 PM	Peak Integrated by Software
SSTDICC010	BG056128.D	2,3,4,6-Tetrachlorophenol	Christian	12/28/2022 9:11:53 AM	Jagrut	12/28/2022 2:10:24 PM	Peak Integrated by Software
SSTDICC010	BG056128.D	Benzoic acid	Christian	12/28/2022 9:11:53 AM	Jagrut	12/28/2022 2:10:24 PM	Peak Integrated by Software
SSTDICC020	BG056129.D	1,4-Dioxane	Christian	12/28/2022 9:11:55 AM	Jagrut	12/28/2022 2:10:28 PM	Peak Integrated by Software
SSTDICC020	BG056129.D	Benzo(b)fluoranthene	Christian	12/28/2022 9:11:55 AM	Jagrut	12/28/2022 2:10:28 PM	Peak Integrated by Software
SSTDICC050	BG056131.D	1,4-Dioxane	Christian	12/28/2022 9:11:56 AM	Jagrut	12/28/2022 2:10:33 PM	Peak Integrated by Software
SSTDICC060	BG056132.D	2,3,4,6-Tetrachlorophenol	Christian	12/28/2022 9:11:57 AM	Jagrut	12/28/2022 2:10:39 PM	Peak Integrated by Software
SSTDICC080	BG056133.D	Pyridine	Christian	12/28/2022 9:11:59 AM	Jagrut	12/28/2022 2:10:43 PM	Peak Integrated by Software
SSTDICV040	BG056134.D	2,3,4,6-Tetrachlorophenol	Christian	12/28/2022 9:12:01 AM	Jagrut	12/28/2022 2:10:48 PM	Peak Integrated by Software



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Manual Integration Report

Sequence:

BG012323

Instrument

BNA_g

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BG056380.D	2,3,4,6-Tetrachlorophenol	Christian	1/24/2023 10:02:54 AM	Jagrut	1/24/2023 5:18:11 PM	Peak Integrated by Software
SSTDCCC040	BG056380.D	2,4-Dimethylphenol	Christian	1/24/2023 10:02:54 AM	Jagrut	1/24/2023 5:18:11 PM	Peak Integrated by Software
SSTDCCC040	BG056380.D	Acenaphthene	Christian	1/24/2023 10:02:54 AM	Jagrut	1/24/2023 5:18:11 PM	Peak Integrated by Software



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Manual Integration Report

Sequence:

BP012323

Instrument

BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BP013546.D	Caprolactam	Christian	1/24/2023 10:12:47 AM	Jagrut	1/24/2023 10:30:19 AM	Peak Integrated by Software
SSTDICC010	BP013547.D	2,3,4,6-Tetrachlorophen ol	Christian	1/24/2023 10:12:50 AM	Jagrut	1/24/2023 10:30:23 AM	Peak Integrated by Software
SSTDICC060	BP013551.D	2,2"-oxybis(1-Chloropro pane)	Christian	1/24/2023 10:12:55 AM	Jagrut	1/24/2023 10:30:28 AM	Peak Integrated by Software
SSTDICC080	BP013552.D	Caprolactam	Christian	1/24/2023 10:12:59 AM	Jagrut	1/24/2023 10:30:33 AM	Peak Integrated by Software
SSTDICC080	BP013552.D	Pyridine	Christian	1/24/2023 10:12:59 AM	Jagrut	1/24/2023 10:30:33 AM	Peak Integrated by Software



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Manual Integration Report

Sequence:	BP012423	Instrument	BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BP013562.D	2,2"-oxybis(1-Chloropropane)	Christian	1/25/2023 10:30:55 AM	Jagrut	1/25/2023 5:43:17 PM	Peak Integrated by Software



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Manual Integration Report

Sequence:

BP013123

Instrument

BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BP013670.D	2,2"-oxybis(1-Chloropropane)	Christian	2/1/2023 9:23:49 AM	Jagrut	2/1/2023 5:46:03 PM	Peak Integrated by Software
SSTDICC010	BP013671.D	2,2"-oxybis(1-Chloropropane)	Christian	2/1/2023 9:23:50 AM	Jagrut	2/1/2023 5:46:07 PM	Peak Integrated by Software
SSTDICC010	BP013671.D	Caprolactam	Christian	2/1/2023 9:23:50 AM	Jagrut	2/1/2023 5:46:07 PM	Peak Integrated by Software
SSTDICC050	BP013674.D	Acenaphthene	Christian	2/1/2023 9:23:52 AM	Jagrut	2/1/2023 5:46:11 PM	Peak Integrated by Software
SSTDICC050	BP013674.D	Pyridine	Christian	2/1/2023 9:23:52 AM	Jagrut	2/1/2023 5:46:11 PM	Peak Integrated by Software
SSTDICC060	BP013675.D	Acenaphthene	Christian	2/1/2023 2:25:19 PM	Jagrut	2/1/2023 5:46:15 PM	Peak Integrated by Software
SSTDICC060	BP013675.D	Benzaldehyde	Christian	2/1/2023 2:25:19 PM	Jagrut	2/1/2023 5:46:15 PM	Peak Integrated by Software
SSTDICC060	BP013675.D	Pyridine	Christian	2/1/2023 2:25:19 PM	Jagrut	2/1/2023 5:46:15 PM	Peak Integrated by Software
SSTDICC080	BP013676.D	Acenaphthene	Christian	2/1/2023 2:25:21 PM	Jagrut	2/1/2023 5:46:19 PM	Peak Integrated by Software
SSTDICC080	BP013676.D	Pyridine	Christian	2/1/2023 2:25:21 PM	Jagrut	2/1/2023 5:46:19 PM	Peak Integrated by Software
SSTDICV040	BP013677.D	Acenaphthene	Christian	2/1/2023 2:25:22 PM	Jagrut	2/1/2023 5:46:24 PM	Peak Integrated by Software
PB150378BS	BP013684.D	Acenaphthene	Christian	2/1/2023 2:25:29 PM	Jagrut	2/1/2023 5:46:40 PM	Peak Integrated by Software
PB150378BS	BP013684.D	Benzaldehyde	Christian	2/1/2023 2:25:29 PM	Jagrut	2/1/2023 5:46:40 PM	Peak Integrated by Software



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Manual Integration Report

Sequence:	BP013123	Instrument	BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB150378BS	BP013684.D	Benzyl Alcohol	Christian	2/1/2023 2:25:29 PM	Jagrut	2/1/2023 5:46:40 PM	Peak Integrated by Software
PB150378BS	BP013684.D	Caprolactam	Christian	2/1/2023 2:25:29 PM	Jagrut	2/1/2023 5:46:40 PM	Peak Integrated by Software



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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF011923

Review By	Christian	Review On	1/20/2023 4:18:26 PM		
Supervise By	Jagrut	Supervise On	1/20/2023 5:07:11 PM		
SubDirectory	BF011923	HP Acquire Method	BNA_F	HP Processing Method	Bf011923
STD. NAME		STD REF.#			
Tune/Reschk	SP6029				
Initial Calibration Stds	SP6099,SP6098,SP6097,SP6096,SP6095,SP6094,SP6093,SP6092				
CCC	SP6095				
Internal Standard/PEM	S10813,10ul/1000ul sample				
ICV/I.BLK	SP6101				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF132139.D	19 Jan 2023 10:46	CG\JU	Ok
2	SSTDICC2.5	BF132140.D	19 Jan 2023 11:21	CG\JU	Ok
3	SSTDICC005	BF132141.D	19 Jan 2023 11:53	CG\JU	Ok,M
4	SSTDICC010	BF132142.D	19 Jan 2023 12:26	CG\JU	Ok
5	SSTDICC020	BF132143.D	19 Jan 2023 12:59	CG\JU	Ok
6	SSTDICCC040	BF132144.D	19 Jan 2023 13:32	CG\JU	Ok,M
7	SSTDICC050	BF132145.D	19 Jan 2023 14:05	CG\JU	Ok,M
8	SSTDICC060	BF132146.D	19 Jan 2023 14:38	CG\JU	Ok,M
9	SSTDICC080	BF132147.D	19 Jan 2023 15:11	CG\JU	Ok,M
10	SSTDICV040	BF132148.D	19 Jan 2023 15:44	CG\JU	Ok
11	PB150317BL	BF132149.D	19 Jan 2023 16:23	CG\JU	Ok
12	PB150317BS	BF132150.D	19 Jan 2023 17:30	CG\JU	Ok,M
13	PB150317BSD	BF132151.D	19 Jan 2023 18:03	CG\JU	Ok,M
14	SP6108	BF132152.D	19 Jan 2023 18:36	CG\JU	Ok,M

M : Manual Integration



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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF012023

Review By	Christian	Review On	1/23/2023 9:32:40 AM
Supervise By	Jagrut	Supervise On	1/23/2023 10:45:37 AM
SubDirectory	BF012023	HP Acquire Method	BNA_F
		HP Processing Method	Bf011923
STD. NAME	STD REF.#		
Tune/Reschk	SP6029		
Initial Calibration Stds	SP6099,SP6098,SP6097,SP6096,SP6095,SP6094,SP6093,SP6092		
CCC	SP6095		
Internal Standard/PEM	S10813,10ul/1000ul sample		
ICV/I.BLK	SP6101		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF132153.D	20 Jan 2023 09:28	CG\JU	Ok
2	SSTDCCC040	BF132154.D	20 Jan 2023 09:59	CG\JU	Ok,M
3	PB150196BL	BF132155.D	20 Jan 2023 10:31	CG\JU	Ok
4	N3980-02	BF132156.D	20 Jan 2023 11:07	CG\JU	Ok
5	N3980-02	BF132157.D	20 Jan 2023 12:09	CG\JU	Not Ok
6	N3980-02	BF132158.D	20 Jan 2023 13:04	CG\JU	Ok
7	N3980-08	BF132159.D	20 Jan 2023 13:37	CG\JU	Not Ok
8	N3980-08	BF132160.D	20 Jan 2023 14:09	CG\JU	Ok,M
9	N3980-08	BF132161.D	20 Jan 2023 15:02	CG\JU	Ok,M
10	SSTDCCC040	BF132162.D	20 Jan 2023 15:35	CG\JU	Ok,M
11	DFTPP	BF132163.D	20 Jan 2023 16:08	CG\JU	Ok
12	SSTDCCC040	BF132164.D	20 Jan 2023 16:40	CG\JU	Ok,M
13	PB150261BL	BF132165.D	20 Jan 2023 17:13	CG\JU	Ok
14	PB150261BS	BF132166.D	20 Jan 2023 17:50	CG\JU	Ok,M
15	O1160-01	BF132167.D	20 Jan 2023 18:23	CG\JU	Ok
16	O1160-01MS	BF132168.D	20 Jan 2023 18:56	CG\JU	Ok,M
17	O1160-01MSD	BF132169.D	20 Jan 2023 19:30	CG\JU	Ok,M
18	O1233-02	BF132170.D	20 Jan 2023 20:03	CG\JU	Ok
19	O1233-02MS	BF132171.D	20 Jan 2023 20:35	CG\JU	Ok,M
20	O1233-02MSD	BF132172.D	20 Jan 2023 21:08	CG\JU	Ok,M
21	O1214-06	BF132173.D	20 Jan 2023 21:41	CG\JU	Ok,M
22	O1233-07	BF132174.D	20 Jan 2023 22:13	CG\JU	Ok
23	O1232-01	BF132175.D	20 Jan 2023 22:46	CG\JU	Ok



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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF012023

Review By	Christian	Review On	1/23/2023 9:32:40 AM		
Supervise By	Jagrut	Supervise On	1/23/2023 10:45:37 AM		
SubDirectory	BF012023	HP Acquire Method	BNA_F	HP Processing Method	Bf011923
STD. NAME	STD REF.#				
Tune/Reschk	SP6029				
Initial Calibration Stds	SP6099,SP6098,SP6097,SP6096,SP6095,SP6094,SP6093,SP6092				
CCC	SP6095				
Internal Standard/PEM	S10813,10ul/1000ul sample				
ICV/I.BLK	SP6101				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					
24	O1232-02	BF132176.D	20 Jan 2023 23:19	CG\JU	Not Ok
25	O1232-08	BF132177.D	20 Jan 2023 23:51	CG\JU	Ok
26	O1233-03	BF132178.D	21 Jan 2023 00:23	CG\JU	Ok
27	O1233-04	BF132179.D	21 Jan 2023 00:56	CG\JU	Ok
28	O1233-05	BF132180.D	21 Jan 2023 01:28	CG\JU	Ok
29	O1233-09	BF132181.D	21 Jan 2023 02:00	CG\JU	Ok
30	O1233-11	BF132182.D	21 Jan 2023 02:33	CG\JU	Dilution
31	SSTDCCC040	BF132183.D	21 Jan 2023 03:05	CG\JU	Ok,M

M : Manual Integration



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Instrument ID: BNA_G

Daily Analysis Runlog For Sequence/QC Batch ID # BG122722

Review By	Christian	Review On	12/28/2022 9:12:21 AM
Supervise By	Jagrut	Supervise On	12/28/2022 2:11:00 PM
SubDirectory	BG122722	HP Acquire Method	BNA_G
		HP Processing Method	bg122722
STD. NAME	STD REF.#		
Tune/Reschk	SP6029		
Initial Calibration Stds	SP6099,SP6098,SP6097,SP6096,SP6095,SP6094,SP6093,SP6092		
CCC	SP6095		
Internal Standard/PEM	S10810,10ul/1000ul sample		
ICV/I.BLK	SP6101		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	Data File Name	Date-Time	Operator	Status
1	DFTPP	BG056125.D	27 Dec 2022 14:13	CG/JU	Ok
2	SSTDICC2.5	BG056126.D	27 Dec 2022 14:55	CG/JU	Ok
3	SSTDICC005	BG056127.D	27 Dec 2022 15:36	CG/JU	Ok,M
4	SSTDICC010	BG056128.D	27 Dec 2022 16:17	CG/JU	Ok,M
5	SSTDICC020	BG056129.D	27 Dec 2022 16:58	CG/JU	Ok,M
6	SSTDICCC040	BG056130.D	27 Dec 2022 17:40	CG/JU	Ok
7	SSTDICC050	BG056131.D	27 Dec 2022 18:21	CG/JU	Ok,M
8	SSTDICC060	BG056132.D	27 Dec 2022 19:01	CG/JU	Ok,M
9	SSTDICC080	BG056133.D	27 Dec 2022 19:42	CG/JU	Ok,M
10	SSTDICV040	BG056134.D	27 Dec 2022 20:24	CG/JU	Ok,M
11	PB149828BL	BG056135.D	27 Dec 2022 21:46	CG/JU	Ok
12	PB149912BL	BG056136.D	27 Dec 2022 22:27	CG/JU	Ok

M : Manual Integration



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Instrument ID: BNA_G

Daily Analysis Runlog For Sequence/QC Batch ID # BG012323

Review By	Christian	Review On	1/24/2023 10:04:59 AM		
Supervise By	Jagrut	Supervise On	1/24/2023 11:00:22 AM		
SubDirectory	BG012323	HP Acquire Method	BNA_G	HP Processing Method	bg122722
STD. NAME		STD REF.#			
Tune/Reschk		SP6029			
Initial Calibration Stds		SP6099,SP6098,SP6097,SP6096,SP6095,SP6094,SP6093,SP6092			
CCC		SP6095			
Internal Standard/PEM		S10813,10ul/1000ul sample			
ICV/I.BLK		SP6101			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleID	Data File Name	Date-Time	Operator	Status
1	DFTPP	BG056379.D	23 Jan 2023 10:46	CG/JU	Ok
2	SSTDCCC040	BG056380.D	23 Jan 2023 11:41	CG/JU	Ok,M
3	PB150329TB	BG056381.D	23 Jan 2023 12:22	CG/JU	Ok
4	PB150301BS	BG056382.D	23 Jan 2023 13:13	CG/JU	Ok,M
5	O1237-04	BG056383.D	23 Jan 2023 14:20	CG/JU	Ok
6	O1237-04MS	BG056384.D	23 Jan 2023 15:01	CG/JU	Ok,M
7	O1237-04MSD	BG056385.D	23 Jan 2023 15:42	CG/JU	Ok,M
8	O1251-02	BG056386.D	23 Jan 2023 16:24	CG/JU	Ok
9	O1251-08	BG056387.D	23 Jan 2023 17:05	CG/JU	Ok
10	O1251-01	BG056388.D	23 Jan 2023 17:47	CG/JU	Ok
11	O1217-01	BG056389.D	23 Jan 2023 18:28	CG/JU	Ok
12	O1233-06	BG056390.D	23 Jan 2023 19:09	CG/JU	Ok
13	O1251-07	BG056391.D	23 Jan 2023 19:50	CG/JU	Ok
14	O1233-08	BG056392.D	23 Jan 2023 20:31	CG/JU	Ok
15	O1234-01DL	BG056393.D	23 Jan 2023 21:12	CG/JU	Ok,M
16	O1253-01	BG056394.D	23 Jan 2023 21:52	CG/JU	Not Ok
17	O1256-01	BG056395.D	23 Jan 2023 22:33	CG/JU	Dilution

M : Manual Integration



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Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QC Batch ID # BP012323

Review By	Christian	Review On	1/24/2023 10:15:33 AM
Supervise By	Jagrut	Supervise On	1/24/2023 10:33:07 AM
SubDirectory	BP012323	HP Acquire Method	BNA_P
		HP Processing Method	bp012323
STD. NAME	STD REF.#		
Tune/Reschk	SP6029		
Initial Calibration Stds	SP6099,SP6098,SP6097,SP6096,SP6095,SP6094,SP6093,SP6092		
CCC	SP6095		
Internal Standard/PEM	S10812,10ul/1000ul sample		
ICV/I.BLK	SP6101		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	Data File Name	Date-Time	Operator	Status
1	DFTPP	BP013544.D	23 Jan 2023 10:51	CG/JU	Ok
2	SSTDICC2.5	BP013545.D	23 Jan 2023 11:25	CG/JU	Ok
3	SSTDICC005	BP013546.D	23 Jan 2023 12:00	CG/JU	Ok,M
4	SSTDICC010	BP013547.D	23 Jan 2023 12:34	CG/JU	Ok,M
5	SSTDICC020	BP013548.D	23 Jan 2023 13:08	CG/JU	Ok
6	SSTDICCC040	BP013549.D	23 Jan 2023 13:42	CG/JU	Ok
7	SSTDICC050	BP013550.D	23 Jan 2023 14:17	CG/JU	Ok
8	SSTDICC060	BP013551.D	23 Jan 2023 14:51	CG/JU	Ok,M
9	SSTDICC080	BP013552.D	23 Jan 2023 16:01	CG/JU	Ok,M
10	SSTDICV040	BP013553.D	23 Jan 2023 18:39	CG/JU	Ok
11	PB150389BL	BP013554.D	23 Jan 2023 19:14	CG/JU	Ok
12	PB150341BL	BP013555.D	23 Jan 2023 19:48	CG/JU	Ok
13	PB150389BS	BP013556.D	23 Jan 2023 20:22	CG/JU	Ok,M
14	PB150341BS	BP013557.D	23 Jan 2023 20:56	CG/JU	Ok
15	PB150338BL	BP013558.D	23 Jan 2023 21:30	CG/JU	Ok
16	PB150338BS	BP013559.D	23 Jan 2023 22:04	CG/JU	Ok,M
17	PB150338BSD	BP013560.D	23 Jan 2023 22:38	CG/JU	Ok,M

M : Manual Integration



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Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QC Batch ID # BP012423

Review By	Christian	Review On	1/25/2023 10:53:20 AM
Supervise By	Jagrut	Supervise On	1/25/2023 5:44:02 PM
SubDirectory	BP012423	HP Acquire Method	BNA_P
		HP Processing Method	bp012323
STD. NAME	STD REF.#		
Tune/Reschk	SP6029		
Initial Calibration Stds	SP6099,SP6098,SP6097,SP6096,SP6095,SP6094,SP6093,SP6092		
CCC	SP6095		
Internal Standard/PEM	S10812,10ul/1000ul sample		
ICV/I.BLK	SP6101		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BP013561.D	24 Jan 2023 09:20	CG/JU	Ok
2	SSTDCCC040	BP013562.D	24 Jan 2023 09:53	CG/JU	Ok,M
3	PB150368TB	BP013563.D	24 Jan 2023 10:28	CG/JU	Ok
4	O1239-02	BP013564.D	24 Jan 2023 11:09	CG/JU	Ok
5	O1233-10	BP013565.D	24 Jan 2023 11:43	CG/JU	Ok
6	O1232-02	BP013566.D	24 Jan 2023 12:17	CG/JU	Ok
7	O1221-02	BP013567.D	24 Jan 2023 12:51	CG/JU	Ok
8	O1214-18	BP013568.D	24 Jan 2023 13:25	CG/JU	Ok
9	O1214-19	BP013569.D	24 Jan 2023 14:00	CG/JU	Ok
10	DFTPP	BP013570.D	24 Jan 2023 14:38	CG/JU	Ok
11	SSTDCCC040	BP013571.D	24 Jan 2023 15:13	CG/JU	Ok
12	PB150378BL	BP013572.D	24 Jan 2023 15:50	CG/JU	Ok
13	O1255-02	BP013573.D	24 Jan 2023 16:28	CG/JU	Not Ok
14	O1252-03	BP013574.D	24 Jan 2023 17:02	CG/JU	Not Ok
15	O1190-02	BP013575.D	24 Jan 2023 17:36	CG/JU	Ok
16	O1190-02MS	BP013576.D	24 Jan 2023 18:11	CG/JU	Ok,M
17	O1190-02MSD	BP013577.D	24 Jan 2023 18:45	CG/JU	Ok,M
18	O1190-04	BP013578.D	24 Jan 2023 19:19	CG/JU	Ok,M
19	O1255-01	BP013579.D	24 Jan 2023 19:53	CG/JU	Ok
20	O1260-10	BP013580.D	24 Jan 2023 20:27	CG/JU	Ok
21	O1232-09	BP013581.D	24 Jan 2023 21:02	CG/JU	Ok
22	O1190-14	BP013582.D	24 Jan 2023 21:36	CG/JU	Ok,M
23	O1252-01	BP013583.D	24 Jan 2023 22:10	CG/JU	Ok



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Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QC Batch ID # BP012423

Review By	Christian	Review On	1/25/2023 10:53:20 AM
Supervise By	Jagrut	Supervise On	1/25/2023 5:44:02 PM
SubDirectory	BP012423	HP Acquire Method	BNA_P
		HP Processing Method	bp012323

STD. NAME	STD REF.#
Tune/Reschk	SP6029
Initial Calibration Stds	SP6099,SP6098,SP6097,SP6096,SP6095,SP6094,SP6093,SP6092
CCC	SP6095
Internal Standard/PEM	S10812,10ul/1000ul sample
ICV/I.BLK	SP6101
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

24	O1232-03	BP013584.D	24 Jan 2023 22:44	CG/JU	Ok
25	O1190-12	BP013585.D	24 Jan 2023 23:18	CG/JU	Ok,M
26	O1232-04	BP013586.D	24 Jan 2023 23:52	CG/JU	Ok
27	O1260-04	BP013587.D	25 Jan 2023 00:27	CG/JU	Ok
28	O1244-01	BP013588.D	25 Jan 2023 01:01	CG/JU	Ok
29	O1260-13	BP013589.D	25 Jan 2023 01:35	CG/JU	Ok
30	O1233-11DL	BP013590.D	25 Jan 2023 02:09	CG/JU	Ok

M : Manual Integration

Daily Analysis Runlog For Sequence/QC Batch ID # BP013123

Review By	Christian	Review On	2/1/2023 2:25:59 PM
Supervise By	Jagrut	Supervise On	2/1/2023 5:46:58 PM
SubDirectory	BP013123	HP Acquire Method	BNA_P
		HP Processing Method	bp013123
STD. NAME	STD REF.#		
Tune/Reschk	SP6029		
Initial Calibration Stds	SP6099,SP6098,SP6097,SP6096,SP6095,SP6094,SP6093,SP6092		
CCC	SP6095		
Internal Standard/PEM	S10816,10ul/1000ul sample		
ICV/I.BLK	SP6101		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	Data File Name	Date-Time	Operator	Status
1	DFTPP	BP013668.D	31 Jan 2023 10:47	CG/JU	Ok
2	SSTDICC2.5	BP013669.D	31 Jan 2023 11:21	CG/JU	Ok
3	SSTDICC005	BP013670.D	31 Jan 2023 11:55	CG/JU	Ok,M
4	SSTDICC010	BP013671.D	31 Jan 2023 12:30	CG/JU	Ok,M
5	SSTDICC020	BP013672.D	31 Jan 2023 13:04	CG/JU	Ok
6	SSTDICCC040	BP013673.D	31 Jan 2023 13:38	CG/JU	Ok
7	SSTDICC050	BP013674.D	31 Jan 2023 14:12	CG/JU	Ok,M
8	SSTDICC060	BP013675.D	31 Jan 2023 14:47	CG/JU	Ok,M
9	SSTDICC080	BP013676.D	31 Jan 2023 15:56	CG/JU	Ok,M
10	SSTDICV040	BP013677.D	31 Jan 2023 17:04	CG/JU	Ok,M
11	PB150507BL	BP013678.D	31 Jan 2023 17:39	CG/JU	Ok
12	PB150555BS	BP013679.D	31 Jan 2023 18:13	CG/JU	Ok,M
13	PB150555BL	BP013680.D	31 Jan 2023 18:47	CG/JU	Ok
14	PB150507BS	BP013681.D	31 Jan 2023 19:21	CG/JU	Ok,M
15	PB150507BSD	BP013682.D	31 Jan 2023 19:56	CG/JU	Ok,M
16	PB150501BL	BP013683.D	31 Jan 2023 20:30	CG/JU	Not Ok
17	PB150378BS	BP013684.D	31 Jan 2023 21:04	CG/JU	Ok,M
18	PB150501BS	BP013685.D	31 Jan 2023 21:38	CG/JU	Not Ok

M : Manual Integration



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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF011923

Review By	Christian	Review On	1/20/2023 4:18:26 PM				
Supervise By	Jagrut	Supervise On	1/20/2023 5:07:11 PM				
SubDirectory	BF011923	HP Acquire Method	BNA_F	HP Processing Method	Bf011923		
STD. NAME		STD REF.#					
Tune/Reschk		SP6029					
Initial Calibration Stds		SP6099,SP6098,SP6097,SP6096,SP6095,SP6094,SP6093,SP6092					
CCC		SP6095					
Internal Standard/PEM		S10813,10ul/1000ul sample					
ICV/I.BLK		SP6101					
Surrogate Standard							
MS/MSD Standard							
LCS Standard							

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF132139.D	19 Jan 2023 10:46		CG\JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF132140.D	19 Jan 2023 11:21		CG\JU	Ok
3	SSTDICC005	SSTDICC005	BF132141.D	19 Jan 2023 11:53	Compound #9,32,41,54,,65,,85 removed from 5ppm	CG\JU	Ok,M
4	SSTDICC010	SSTDICC010	BF132142.D	19 Jan 2023 12:26	Compound #26,32,48,54,65,80,84,87,92 Kept on LR and Compound#85 Kept on QR	CG\JU	Ok
5	SSTDICC020	SSTDICC020	BF132143.D	19 Jan 2023 12:59		CG\JU	Ok
6	SSTDICCC040	SSTDICCC040	BF132144.D	19 Jan 2023 13:32	The Calibration is Good For both 8270 DOD and 625.1 Method.	CG\JU	Ok,M
7	SSTDICC050	SSTDICC050	BF132145.D	19 Jan 2023 14:05		CG\JU	Ok,M
8	SSTDICC060	SSTDICC060	BF132146.D	19 Jan 2023 14:38	Compound #26 removed from 60ppm	CG\JU	Ok,M
9	SSTDICC080	SSTDICC080	BF132147.D	19 Jan 2023 15:11	Compound #09,26,45 removed from 80ppm	CG\JU	Ok,M
10	SSTDICV040	ICVBF011923	BF132148.D	19 Jan 2023 15:44		CG\JU	Ok
11	PB150317BL	PB150317BL	BF132149.D	19 Jan 2023 16:23		CG\JU	Ok
12	PB150317BS	PB150317BS	BF132150.D	19 Jan 2023 17:30		CG\JU	Ok,M
13	PB150317BSD	PB150317BSD	BF132151.D	19 Jan 2023 18:03		CG\JU	Ok,M
14	SP6108	SP6108	BF132152.D	19 Jan 2023 18:36	8270/625 SPIKE	CG\JU	Ok,M

M : Manual Integration



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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF012023

Review By	Christian	Review On	1/23/2023 9:32:40 AM				
Supervise By	Jagrut	Supervise On	1/23/2023 10:45:37 AM				
SubDirectory	BF012023	HP Acquire Method	BNA_F	HP Processing Method	Bf011923		
STD. NAME		STD REF.#					
Tune/Reschk		SP6029					
Initial Calibration Stds		SP6099,SP6098,SP6097,SP6096,SP6095,SP6094,SP6093,SP6092					
CCC		SP6095					
Internal Standard/PEM		S10813,10ul/1000ul sample					
ICV/I.BLK		SP6101					
Surrogate Standard							
MS/MSD Standard							
LCS Standard							

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF132153.D	20 Jan 2023 09:28		CG\JU	Ok
2	SSTDCCC040	SSTDCCC040	BF132154.D	20 Jan 2023 09:59		CG\JU	Ok,M
3	PB150196BL	PB150196BL	BF132155.D	20 Jan 2023 10:31		CG\JU	Ok
4	N3980-02	LOQ-SOIL-02-QT3-202	BF132156.D	20 Jan 2023 11:07	LOQ-SOIL 5ppm	CG\JU	Ok
5	N3980-02	LOQ-SOIL-02-QT3-202	BF132157.D	20 Jan 2023 12:09	LOQ-SOIL 10ppm -Recovery fails For certain compounds	CG\JU	Not Ok
6	N3980-02	LOQ-SOIL-02-QT3-202	BF132158.D	20 Jan 2023 13:04	LOQ-SOIL 10ppm	CG\JU	Ok
7	N3980-08	LOQ-WATER-02-QT3-2	BF132159.D	20 Jan 2023 13:37	LOQ-WATER-5ppm - Recovery of 2-Nitrophenol biased high	CG\JU	Not Ok
8	N3980-08	LOQ-WATER-02-QT3-2	BF132160.D	20 Jan 2023 14:09	LOQ-WATER-10ppm	CG\JU	Ok,M
9	N3980-08	LOQ-WATER-02-QT3-2	BF132161.D	20 Jan 2023 15:02	LOQ-WATER-5ppm	CG\JU	Ok,M
10	SSTDCCC040	SSTDCCC040EC	BF132162.D	20 Jan 2023 15:35		CG\JU	Ok,M
11	DFTPP	DFTPP	BF132163.D	20 Jan 2023 16:08		CG\JU	Ok
12	SSTDCCC040	SSTDCCC040	BF132164.D	20 Jan 2023 16:40		CG\JU	Ok,M
13	PB150261BL	PB150261BL	BF132165.D	20 Jan 2023 17:13		CG\JU	Ok
14	PB150261BS	PB150261BS	BF132166.D	20 Jan 2023 17:50		CG\JU	Ok,M
15	O1160-01	B-04-SB02	BF132167.D	20 Jan 2023 18:23		CG\JU	Ok
16	O1160-01MS	B-04-SB02MS	BF132168.D	20 Jan 2023 18:56		CG\JU	Ok,M
17	O1160-01MSD	B-04-SB02MSD	BF132169.D	20 Jan 2023 19:30		CG\JU	Ok,M
18	O1233-02	B-P34A	BF132170.D	20 Jan 2023 20:03		CG\JU	Ok

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF012023

Review By	Christian	Review On	1/23/2023 9:32:40 AM				
Supervise By	Jagrut	Supervise On	1/23/2023 10:45:37 AM				
SubDirectory	BF012023	HP Acquire Method	BNA_F	HP Processing Method	Bf011923		
STD. NAME		STD REF.#					
Tune/Reschk		SP6029					
Initial Calibration Stds		SP6099,SP6098,SP6097,SP6096,SP6095,SP6094,SP6093,SP6092					
CCC		SP6095					
Internal Standard/PEM		S10813,10ul/1000ul sample					
ICV/I.BLK		SP6101					
Surrogate Standard							
MS/MSD Standard							
LCS Standard							

19	O1233-02MS	B-P34AMS	BF132171.D	20 Jan 2023 20:35		CG\JU	Ok,M
20	O1233-02MSD	B-P34AMSD	BF132172.D	20 Jan 2023 21:08		CG\JU	Ok,M
21	O1214-06	TJRC-011723-B3-10-20	BF132173.D	20 Jan 2023 21:41		CG\JU	Ok,M
22	O1233-07	B-P37B	BF132174.D	20 Jan 2023 22:13		CG\JU	Ok
23	O1232-01	B-P17A	BF132175.D	20 Jan 2023 22:46		CG\JU	Ok
24	O1232-02	B-P17B	BF132176.D	20 Jan 2023 23:19	Bad Injection	CG\JU	Not Ok
25	O1232-08	B-P35A	BF132177.D	20 Jan 2023 23:51		CG\JU	Ok
26	O1233-03	B-P34B	BF132178.D	21 Jan 2023 00:23		CG\JU	Ok
27	O1233-04	B-P36A	BF132179.D	21 Jan 2023 00:56		CG\JU	Ok
28	O1233-05	B-P36B	BF132180.D	21 Jan 2023 01:28		CG\JU	Ok
29	O1233-09	B-P38B	BF132181.D	21 Jan 2023 02:00		CG\JU	Ok
30	O1233-11	B-P38C	BF132182.D	21 Jan 2023 02:33	Need 5X	CG\JU	Dilution
31	SSTDCCC040	SSTDCCC040EC	BF132183.D	21 Jan 2023 03:05		CG\JU	Ok,M

M : Manual Integration



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Instrument ID: BNA_G

Daily Analysis Runlog For Sequence/QC Batch ID # BG122722

Review By	Christian	Review On	12/28/2022 9:12:21 AM					
Supervise By	Jagrut	Supervise On	12/28/2022 2:11:00 PM					
SubDirectory	BG122722	HP Acquire Method	BNA_G	HP Processing Method	bg122722			
STD. NAME		STD REF.#						
Tune/Reschk		SP6029						
Initial Calibration Stds		SP6099,SP6098,SP6097,SP6096,SP6095,SP6094,SP6093,SP6092						
CCC		SP6095						
Internal Standard/PEM		S10810,10ul/1000ul sample						
ICV/I.BLK		SP6101						
Surrogate Standard								
MS/MSD Standard								
LCS Standard								

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BG056125.D	27 Dec 2022 14:13		CG/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BG056126.D	27 Dec 2022 14:55		CG/JU	Ok
3	SSTDICC005	SSTDICC005	BG056127.D	27 Dec 2022 15:36		CG/JU	Ok,M
4	SSTDICC010	SSTDICC010	BG056128.D	27 Dec 2022 16:17		CG/JU	Ok,M
5	SSTDICC020	SSTDICC020	BG056129.D	27 Dec 2022 16:58		CG/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BG056130.D	27 Dec 2022 17:40	The Calibration is Good For 8270 DOD and Not good for 625.1 Method	CG/JU	Ok
7	SSTDICC050	SSTDICC050	BG056131.D	27 Dec 2022 18:21		CG/JU	Ok,M
8	SSTDICC060	SSTDICC060	BG056132.D	27 Dec 2022 19:01		CG/JU	Ok,M
9	SSTDICC080	SSTDICC080	BG056133.D	27 Dec 2022 19:42		CG/JU	Ok,M
10	SSTDICV040	ICVBG122722	BG056134.D	27 Dec 2022 20:24		CG/JU	Ok,M
11	PB149828BL	PB149828BL	BG056135.D	27 Dec 2022 21:46		CG/JU	Ok
12	PB149912BL	PB149912BL	BG056136.D	27 Dec 2022 22:27		CG/JU	Ok

M : Manual Integration



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Instrument ID: BNA_G

Daily Analysis Runlog For Sequence/QC Batch ID # BG012323

Review By	Christian	Review On	1/24/2023 10:04:59 AM				
Supervise By	Jagrut	Supervise On	1/24/2023 11:00:22 AM				
SubDirectory	BG012323	HP Acquire Method	BNA_G	HP Processing Method	bg122722		
STD. NAME		STD REF.#					
Tune/Reschk		SP6029					
Initial Calibration Stds		SP6099,SP6098,SP6097,SP6096,SP6095,SP6094,SP6093,SP6092					
CCC		SP6095					
Internal Standard/PEM		S10813,10ul/1000ul sample					
ICV/I.BLK		SP6101					
Surrogate Standard							
MS/MSD Standard							
LCS Standard							

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BG056379.D	23 Jan 2023 10:46		CG/JU	Ok
2	SSTDCCC040	SSTDCCC040	BG056380.D	23 Jan 2023 11:41		CG/JU	Ok,M
3	PB150329TB	PB150329TB	BG056381.D	23 Jan 2023 12:22		CG/JU	Ok
4	PB150301BS	PB150301BS	BG056382.D	23 Jan 2023 13:13		CG/JU	Ok,M
5	O1237-04	COMP-1-2-3A	BG056383.D	23 Jan 2023 14:20		CG/JU	Ok
6	O1237-04MS	COMP-1-2-3AMS	BG056384.D	23 Jan 2023 15:01		CG/JU	Ok,M
7	O1237-04MSD	COMP-1-2-3AMSD	BG056385.D	23 Jan 2023 15:42		CG/JU	Ok,M
8	O1251-02	COMP-1	BG056386.D	23 Jan 2023 16:24		CG/JU	Ok
9	O1251-08	COMP-2	BG056387.D	23 Jan 2023 17:05		CG/JU	Ok
10	O1251-01	COMP-1	BG056388.D	23 Jan 2023 17:47		CG/JU	Ok
11	O1217-01	BORING-4	BG056389.D	23 Jan 2023 18:28		CG/JU	Ok
12	O1233-06	B-P37A	BG056390.D	23 Jan 2023 19:09		CG/JU	Ok
13	O1251-07	COMP-2	BG056391.D	23 Jan 2023 19:50		CG/JU	Ok
14	O1233-08	B-P38A	BG056392.D	23 Jan 2023 20:31		CG/JU	Ok
15	O1234-01DL	EO-02-11923DL	BG056393.D	23 Jan 2023 21:12		CG/JU	Ok,M
16	O1253-01	SU-04-012023	BG056394.D	23 Jan 2023 21:52	Need Straight Run	CG/JU	Not Ok
17	O1256-01	OR-02-012023	BG056395.D	23 Jan 2023 22:33	Need further 5X	CG/JU	Dilution

M : Manual Integration

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QC Batch ID # BP012323

Review By	Christian	Review On	1/24/2023 10:15:33 AM				
Supervise By	Jagrut	Supervise On	1/24/2023 10:33:07 AM				
SubDirectory	BP012323	HP Acquire Method	BNA_P	HP Processing Method	bp012323		
STD. NAME		STD REF.#					
Tune/Reschk		SP6029					
Initial Calibration Stds		SP6099,SP6098,SP6097,SP6096,SP6095,SP6094,SP6093,SP6092					
CCC		SP6095					
Internal Standard/PEM		S10812,10ul/1000ul sample					
ICV/I.BLK		SP6101					
Surrogate Standard							
MS/MSD Standard							
LCS Standard							

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BP013544.D	23 Jan 2023 10:51		CG/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BP013545.D	23 Jan 2023 11:25		CG/JU	Ok
3	SSTDICC005	SSTDICC005	BP013546.D	23 Jan 2023 12:00	Compound #32,41,56,65,70 removed from 5ppm	CG/JU	Ok,M
4	SSTDICC010	SSTDICC010	BP013547.D	23 Jan 2023 12:34		CG/JU	Ok,M
5	SSTDICC020	SSTDICC020	BP013548.D	23 Jan 2023 13:08	Compound #41,48,51,53,56,57,62,70 kept on LR and Compound#26,32,54,65 kept on QR	CG/JU	Ok
6	SSTDICCC040	SSTDICCC040	BP013549.D	23 Jan 2023 13:42	The Calibration is Good For 8270 DOD and Not good for 625.1 Method	CG/JU	Ok
7	SSTDICC050	SSTDICC050	BP013550.D	23 Jan 2023 14:17		CG/JU	Ok
8	SSTDICC060	SSTDICC060	BP013551.D	23 Jan 2023 14:51	Compound #9 removed from 60ppm	CG/JU	Ok,M
9	SSTDICC080	SSTDICC080	BP013552.D	23 Jan 2023 16:01	Compound #09,26,42,54,56,57,62,80 removed from 80ppm	CG/JU	Ok,M
10	SSTDICV040	ICVBP012323	BP013553.D	23 Jan 2023 18:39		CG/JU	Ok
11	PB150389BL	PB150389BL	BP013554.D	23 Jan 2023 19:14		CG/JU	Ok
12	PB150341BL	PB150341BL	BP013555.D	23 Jan 2023 19:48		CG/JU	Ok
13	PB150389BS	PB150389BS	BP013556.D	23 Jan 2023 20:22		CG/JU	Ok,M
14	PB150341BS	PB150341BS	BP013557.D	23 Jan 2023 20:56		CG/JU	Ok
15	PB150338BL	PB150338BL	BP013558.D	23 Jan 2023 21:30		CG/JU	Ok



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Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QC Batch ID # BP012323

Review By	Christian	Review On	1/24/2023 10:15:33 AM				
Supervise By	Jagrut	Supervise On	1/24/2023 10:33:07 AM				
SubDirectory	BP012323	HP Acquire Method	BNA_P	HP Processing Method	bp012323		
STD. NAME		STD REF.#					
Tune/Reschk		SP6029					
Initial Calibration Stds		SP6099,SP6098,SP6097,SP6096,SP6095,SP6094,SP6093,SP6092					
CCC		SP6095					
Internal Standard/PEM		S10812,10ul/1000ul sample					
ICV/I.BLK		SP6101					
Surrogate Standard							
MS/MSD Standard							
LCS Standard							
16	PB150338BS	PB150338BS	BP013559.D	23 Jan 2023 22:04		CG/JU	Ok,M
17	PB150338BSD	PB150338BSD	BP013560.D	23 Jan 2023 22:38		CG/JU	Ok,M

M : Manual Integration



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QC Batch ID # BP012423

Review By	Christian	Review On	1/25/2023 10:53:20 AM				
Supervise By	Jagrut	Supervise On	1/25/2023 5:44:02 PM				
SubDirectory	BP012423	HP Acquire Method	BNA_P	HP Processing Method	bp012323		
STD. NAME		STD REF.#					
Tune/Reschk		SP6029					
Initial Calibration Stds		SP6099,SP6098,SP6097,SP6096,SP6095,SP6094,SP6093,SP6092					
CCC		SP6095					
Internal Standard/PEM		S10812,10ul/1000ul sample					
ICV/I.BLK		SP6101					
Surrogate Standard							
MS/MSD Standard							
LCS Standard							
Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BP013561.D	24 Jan 2023 09:20		CG/JU	Ok
2	SSTDCCC040	SSTDCCC040	BP013562.D	24 Jan 2023 09:53		CG/JU	Ok,M
3	PB150368TB	PB150368TB	BP013563.D	24 Jan 2023 10:28		CG/JU	Ok
4	O1239-02	BORING-3	BP013564.D	24 Jan 2023 11:09		CG/JU	Ok
5	O1233-10	WC-38	BP013565.D	24 Jan 2023 11:43		CG/JU	Ok
6	O1232-02	B-P17B	BP013566.D	24 Jan 2023 12:17		CG/JU	Ok
7	O1221-02	MW-11-0118	BP013567.D	24 Jan 2023 12:51		CG/JU	Ok
8	O1214-18	TJRC-011823-GW	BP013568.D	24 Jan 2023 13:25		CG/JU	Ok
9	O1214-19	TJRC-011823-GW-DUP	BP013569.D	24 Jan 2023 14:00		CG/JU	Ok
10	DFTPP	DFTPP	BP013570.D	24 Jan 2023 14:38		CG/JU	Ok
11	SSTDCCC040	SSTDCCC040	BP013571.D	24 Jan 2023 15:13		CG/JU	Ok
12	PB150378BL	PB150378BL	BP013572.D	24 Jan 2023 15:50		CG/JU	Ok
13	O1255-02	BORING-1	BP013573.D	24 Jan 2023 16:28	com# 57,65, biased High in the CCC. ANALYZE AGAIN	CG/JU	Not Ok
14	O1252-03	MH-9	BP013574.D	24 Jan 2023 17:02	com# 57 biased High in the CCC.	CG/JU	Not Ok
15	O1190-02	PE-1D	BP013575.D	24 Jan 2023 17:36		CG/JU	Ok
16	O1190-02MS	PE-1DMS	BP013576.D	24 Jan 2023 18:11		CG/JU	Ok,M
17	O1190-02MSD	PE-1DMSD	BP013577.D	24 Jan 2023 18:45		CG/JU	Ok,M
18	O1190-04	PE-3	BP013578.D	24 Jan 2023 19:19		CG/JU	Ok,M

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QC Batch ID # BP012423

Review By	Christian	Review On	1/25/2023 10:53:20 AM
Supervise By	Jagrut	Supervise On	1/25/2023 5:44:02 PM
SubDirectory	BP012423	HP Acquire Method	BNA_P
		HP Processing Method	bp012323

STD. NAME	STD REF.#
Tune/Reschk	SP6029
Initial Calibration Stds	SP6099,SP6098,SP6097,SP6096,SP6095,SP6094,SP6093,SP6092
CCC	SP6095
Internal Standard/PEM	S10812,10ul/1000ul sample
ICV/I.BLK	SP6101
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	O1255-01	BORING-1	BP013579.D	24 Jan 2023 19:53		CG/JU	Ok
20	O1260-10	TP-24	BP013580.D	24 Jan 2023 20:27		CG/JU	Ok
21	O1232-09	B-P35B	BP013581.D	24 Jan 2023 21:02		CG/JU	Ok
22	O1190-14	WS-2	BP013582.D	24 Jan 2023 21:36		CG/JU	Ok,M
23	O1252-01	MH-9	BP013583.D	24 Jan 2023 22:10		CG/JU	Ok
24	O1232-03	WC-17	BP013584.D	24 Jan 2023 22:44		CG/JU	Ok
25	O1190-12	WS-1	BP013585.D	24 Jan 2023 23:18		CG/JU	Ok,M
26	O1232-04	B-P18A	BP013586.D	24 Jan 2023 23:52		CG/JU	Ok
27	O1260-04	TP-22	BP013587.D	25 Jan 2023 00:27		CG/JU	Ok
28	O1244-01	VNJ-223	BP013588.D	25 Jan 2023 01:01		CG/JU	Ok
29	O1260-13	TP-25	BP013589.D	25 Jan 2023 01:35		CG/JU	Ok
30	O1233-11DL	B-P38CDL	BP013590.D	25 Jan 2023 02:09		CG/JU	Ok

M : Manual Integration

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QC Batch ID # BP013123

Review By	Christian	Review On	2/1/2023 2:25:59 PM				
Supervise By	Jagrut	Supervise On	2/1/2023 5:46:58 PM				
SubDirectory	BP013123	HP Acquire Method	BNA_P	HP Processing Method	bp013123		
STD. NAME		STD REF.#					
Tune/Reschk Initial Calibration Stds		SP6029 SP6099,SP6098,SP6097,SP6096,SP6095,SP6094,SP6093,SP6092					
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard		SP6095 S10816,10ul/1000ul sample SP6101					

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BP013668.D	31 Jan 2023 10:47		CG/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BP013669.D	31 Jan 2023 11:21		CG/JU	Ok
3	SSTDICC005	SSTDICC005	BP013670.D	31 Jan 2023 11:55	Compound #32,41,54,56,65 removed from 5ppm	CG/JU	Ok,M
4	SSTDICC010	SSTDICC010	BP013671.D	31 Jan 2023 12:30		CG/JU	Ok,M
5	SSTDICC020	SSTDICC020	BP013672.D	31 Jan 2023 13:04	Compound #26,32,48,51,53,54,57,62,65 Kept on LR and Compound# 09 kept on QR	CG/JU	Ok
6	SSTDICCC040	SSTDICCC040	BP013673.D	31 Jan 2023 13:38	The calibration is Good For 8270 DOD and Not good for 625.1 Method.	CG/JU	Ok
7	SSTDICC050	SSTDICC050	BP013674.D	31 Jan 2023 14:12		CG/JU	Ok,M
8	SSTDICC060	SSTDICC060	BP013675.D	31 Jan 2023 14:47		CG/JU	Ok,M
9	SSTDICC080	SSTDICC080	BP013676.D	31 Jan 2023 15:56	Compound #9 removed from 80ppm	CG/JU	Ok,M
10	SSTDICV040	ICVBP013123	BP013677.D	31 Jan 2023 17:04		CG/JU	Ok,M
11	PB150507BL	PB150507BL	BP013678.D	31 Jan 2023 17:39		CG/JU	Ok
12	PB150555BS	PB150555BS	BP013679.D	31 Jan 2023 18:13		CG/JU	Ok,M
13	PB150555BL	PB150555BL	BP013680.D	31 Jan 2023 18:47		CG/JU	Ok
14	PB150507BS	PB150507BS	BP013681.D	31 Jan 2023 19:21		CG/JU	Ok,M
15	PB150507BSD	PB150507BSD	BP013682.D	31 Jan 2023 19:56		CG/JU	Ok,M
16	PB150501BL	PB150501BL	BP013683.D	31 Jan 2023 20:30	Surrogate Fail	CG/JU	Not Ok
17	PB150378BS	PB150378BS	BP013684.D	31 Jan 2023 21:04		CG/JU	Ok,M



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QC Batch ID # BP013123

Review By	Christian	Review On	2/1/2023 2:25:59 PM					
Supervise By	Jagrut	Supervise On	2/1/2023 5:46:58 PM					
SubDirectory	BP013123	HP Acquire Method	BNA_P	HP Processing Method	bp013123			
STD. NAME		STD REF.#						
Tune/Reschk		SP6029						
Initial Calibration Stds		SP6099,SP6098,SP6097,SP6096,SP6095,SP6094,SP6093,SP6092						
CCC		SP6095						
Internal Standard/PEM		S10816,10ul/1000ul sample						
ICV/I.BLK		SP6101						
Surrogate Standard								
MS/MSD Standard								
LCS Standard								
18	PB150501BS	PB150501BS	BP013685.D	31 Jan 2023 21:38	already ran	CG/JU	Not Ok	

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 1/23/2023

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 01/20/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:30
Out Date: 01/21/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC:LB123747

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
O1229-01	OK-02-011923	1	1.12	8.72	9.84	8.73	87.3	
O1229-02	OK-02-011923-EPH-2	2	1.12	8.72	9.84	8.73	87.3	
O1230-01	BBC	3	1.15	8.45	9.6	9.47	98.5	
O1231-01	BBC	4	1.19	8.53	9.72	9.57	98.2	
O1232-01	B-P-17A	18	1.15	8.78	9.93	9.00	89.4	
O1232-02	B-P-17B	19	1.15	8.41	9.56	8.46	86.9	
O1232-03	WC-17	20	1.13	8.64	9.77	9.03	91.4	
O1232-04	B-P-18A	21	1.13	8.57	9.7	8.63	87.5	
O1232-05	B-P-18B	22	1.15	8.83	9.98	9.22	91.4	
O1232-06	B-P-19A	23	1.12	8.57	9.69	8.68	88.2	
O1232-07	B-P-19B	24	1.18	8.35	9.53	8.53	88.0	
O1232-08	B-P-35A	25	1.13	8.62	9.75	9.00	91.3	
O1232-09	B-P-35B	26	1.17	8.53	9.7	9.13	93.3	
O1232-10	DUP01	27	1.15	8.80	9.95	9.08	90.1	
O1233-02	B-P34A	28	1.13	8.76	9.89	8.6	85.3	
O1233-03	B-P34B	29	1.13	8.71	9.84	9.03	90.7	
O1233-04	B-P36A	30	1.16	8.75	9.91	9.00	89.6	
O1233-05	B-P36B	31	1.13	8.84	9.97	9.12	90.4	
O1233-06	B-P37A	32	1.18	8.60	9.78	8.74	87.9	
O1233-07	B-P37B	33	1.18	8.38	9.56	8.18	83.5	
O1233-08	B-P38A	34	1.12	8.66	9.78	8.85	89.3	
O1233-09	B-P38B	35	1.15	8.81	9.96	8.26	80.7	
O1233-10	WC-38	36	1.18	8.59	9.77	8.47	84.9	
O1233-11	B-P38C	37	1.15	8.82	9.97	8.73	85.9	
O1234-01	EO-02-11923	5	1.14	8.82	9.96	8.72	85.9	
O1234-02	EO-02-11923	6	1.12	8.54	9.66	8.48	86.2	
O1235-04	12X52	7	1.12	7.08	8.2	6.57	77.0	
O1235-05	12X53	8	1.16	5.17	6.33	5.91	91.9	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 1/23/2023

OVENTEMP IN Celsius(°C): 107
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In Date: 01/20/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:30
Out Date: 01/21/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC:LB123747

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
O1235-06	12X54	9	1.11	8.50	9.61	5.73	54.4	
O1235-07	12X55	10	1.13	8.43	9.56	7.14	71.3	
O1237-01	COMP-1-2-3A	11	1.18	8.72	9.9	9.24	92.4	
O1237-02	3A	12	1.13	8.44	9.57	9.33	97.2	
O1238-01	RBRB22281-OILY-DEBRIS	13	1.00	1.00	2.00	2.00	100.0	OILY DEBRIS
O1239-01	BORING-3	14	1.17	8.73	9.9	8.29	81.6	
O1239-03	BORING-3-EPH-2	15	1.13	8.64	9.77	8.31	83.1	
O1240-01	TR-05-011923	16	1.18	8.50	9.68	8.38	84.7	
O1240-02	TR-05-011923-EPH-2	17	1.17	8.67	9.84	8.73	87.2	
O1241-01	34326-FRONT	38	1.00	1.00	2.00	2.00	100.0	PILC REEL
O1241-02	34326-BACK	39	1.00	1.00	2.00	2.00	100.0	PILC REEL
O1241-03	34327-FRONT	40	1.00	1.00	2.00	2.00	100.0	PILC REEL
O1241-04	34327-BACK	41	1.00	1.00	2.00	2.00	100.0	PILC REEL
O1241-05	34328-FRONT	42	1.00	1.00	2.00	2.00	100.0	PILC REEL
O1241-06	34328BACK	43	1.00	1.00	2.00	2.00	100.0	PILC REEL
O1241-07	343269-FRONT	44	1.00	1.00	2.00	2.00	100.0	PILC REEL
O1241-08	34329-BACK	45	1.00	1.00	2.00	2.00	100.0	PILC REEL
O1243-01	TJRC-11823-B4-0-10	60	1.12	8.65	9.77	8.54	85.8	
O1243-02	TJRC-11823-B4-0-10	61	1.14	8.45	9.59	8.02	81.4	
O1243-03	TJRC-11823-B4-10-20	62	1.15	8.81	9.96	8.85	87.4	
O1243-04	TJRC-11823-B4-10-20	63	1.17	8.57	9.74	8.16	81.6	
O1243-05	TJRC-11923-B4-20-30	64	1.15	8.75	9.9	8.28	81.5	
O1243-06	TJRC-11923-B4-20-30	65	1.13	8.70	9.83	8.43	83.9	
O1243-07	TJRC-11923-B4-30-40	66	1.16	8.77	9.93	8.29	81.3	
O1243-08	TJRC-11923-B4-30-40	67	1.14	8.83	9.97	8.47	83.0	
O1244-01	VNJ-223	46	1.12	8.62	9.74	8.59	86.7	
O1244-02	VNJ-223	47	1.16	8.80	9.96	8.62	84.8	
O1248-05	SVOC-GPC-BLANK	50	1.00	1.00	2.00	2.00	100.0	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 1/23/2023

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
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Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
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Out Date: 01/21/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC:LB123747

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
O1248-06	PEST-GPC-BLANK	51	1.00	1.00	2.00	2.00	100.0	
O1248-07	PEST-GPC-BLANK-SPIKE	52	1.00	1.00	2.00	2.00	100.0	
O1248-08	PCB-GPC-BLANK	53	1.00	1.00	2.00	2.00	100.0	
O1248-09	PCB-GPC-BLANK-SPIKE	54	1.00	1.00	2.00	2.00	100.0	
O1248-10	SVOC-GPC2-BLANK	55	1.00	1.00	2.00	2.00	100.0	
O1248-11	PEST-GPC2-BLANK	56	1.00	1.00	2.00	2.00	100.0	
O1248-12	PEST-GPC2-BLANK-SPIKE	57	1.00	1.00	2.00	2.00	100.0	
O1248-13	PCB-GCP2-BLANK	58	1.00	1.00	2.00	2.00	100.0	
O1248-14	PCB-GCP2-BLANK-SPIKE	59	1.00	1.00	2.00	2.00	100.0	
O1251-01	COMP-1	68	1.13	8.43	9.56	8.44	86.7	
O1251-03	EPH-1	69	1.11	8.51	9.62	8.47	86.5	
O1251-05	TOT-VOC-1	70	1.00	1.00	2.00	2.00	100.0	no jar
O1251-06	TOT-VOC-2	71	1.00	1.00	2.00	2.00	100.0	no jar
O1251-07	COMP-2	72	1.12	8.74	9.86	8.75	87.3	
O1251-09	EPH-2	73	1.14	8.80	9.94	8.8	87.0	
O1251-11	TOT-VOC-3	74	1.00	1.00	2.00	2.00	100.0	no jar
O1251-12	TOT-VOC-4	75	1.00	1.00	2.00	2.00	100.0	no jar
O1252-01	MH-9	48	1.14	8.84	9.98	9.47	94.2	
O1252-02	MH-9-EPH	49	1.12	8.46	9.58	8.67	89.2	
O1253-01	SU-04-012023	79	1.12	8.47	9.59	8.99	92.9	
O1253-02	SU-04-012023-EPH-2	80	1.18	8.69	9.87	9.17	91.9	
O1254-01	HR-04-012023	81	1.13	8.66	9.79	9.09	91.9	
O1254-02	HR-04-012023-EPH-2	82	1.16	8.69	9.85	8.95	89.6	
O1255-01	BORING-1	76	1.18	8.61	9.79	8.32	82.9	
O1255-03	BORING-1-EPH-2	77	1.11	8.78	9.89	8.35	82.5	
O1256-01	OR-02-012023	83	1.15	8.81	9.96	9.09	90.1	
O1256-02	OR-02-012023-EPH-2	84	1.1	8.87	9.97	8.66	85.2	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 1/23/2023

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 01/20/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:30
Out Date: 01/21/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC:LB123747

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
O1258-01	WASTE-VOA-2	78	1.12	8.58	9.7	8.62	87.4	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

123747

WorkList Name : %1-012023

WorkList ID : 166715

Department : Wet-Chemistry

Date : 01-20-2023 09:10:27

Due Date	Matrix	Sample	Test	Preservative	Customer	Raw Sample Storage Location	Customer Sample	Collect Date	Method
01/24/2023	Solid	O1229-01	Percent Solids	Cool 4 deg C	PSEG05	N11	OK-02-011923	01/19/2023	Chemtech -SO
01/24/2023	Solid	O1229-02	Percent Solids	Cool 4 deg C	PSEG05	N11	OK-02-011923-EPH-2	01/19/2023	Chemtech -SO
01/26/2023	Solid	O1230-01	Percent Solids	Cool 4 deg C	EART12	N11	BBC	01/19/2023	Chemtech -SO
01/26/2023	Solid	O1231-01	Percent Solids	Cool 4 deg C	EART12	N11	BBC	01/19/2023	Chemtech -SO
01/26/2023	Solid	O1232-01	Percent Solids	Cool 4 deg C	loui01	N11	B-P-17A	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1232-02	Percent Solids	Cool 4 deg C	loui01	N11	B-P-17B	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1232-03	Percent Solids	Cool 4 deg C	loui01	N11	WC-17	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1232-04	Percent Solids	Cool 4 deg C	loui01	N11	B-P-18A	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1232-05	Percent Solids	Cool 4 deg C	loui01	N11	B-P-18B	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1232-06	Percent Solids	Cool 4 deg C	loui01	N11	B-P-19A	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1232-07	Percent Solids	Cool 4 deg C	loui01	N11	B-P-19B	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1232-08	Percent Solids	Cool 4 deg C	loui01	N11	B-P-35A	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1232-09	Percent Solids	Cool 4 deg C	loui01	N11	B-P-35B	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1232-10	Percent Solids	Cool 4 deg C	loui01	N11	DUP01	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1233-02	Percent Solids	Cool 4 deg C	loui01	N11	B-P-34A	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1233-03	Percent Solids	Cool 4 deg C	loui01	N11	B-P-34B	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1233-04	Percent Solids	Cool 4 deg C	loui01	N11	B-P-36A	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1233-05	Percent Solids	Cool 4 deg C	loui01	N11	B-P-36B	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1233-06	Percent Solids	Cool 4 deg C	loui01	N11	B-P-37A	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1233-07	Percent Solids	Cool 4 deg C	loui01	N11	B-P-37B	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1233-08	Percent Solids	Cool 4 deg C	loui01	N11	B-P-38A	01/18/2023	Chemtech -SO

Date/Time 01-20-23 15:45

Date/Time 01-20-23

17:25

Raw Sample Received by: 70 (w2c)

Raw Sample Received by:

JD CSM

Raw Sample Relinquished by:

JD CSM

Raw Sample Relinquished by:

JD CSM

123747

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-012023 WorkList ID : 166715 Department : Wet-Chemistry Date : 01-20-2023 09:10:27

Due Date	Matrix	Sample	Test	Preservative	Customer	Raw Sample Storage Location	Customer Sample	Collect Date	Method
01/26/2023	Solid	O1233-09	Percent Solids	Cool 4 deg C	loui01	N11	B-P38B	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1233-10	Percent Solids	Cool 4 deg C	loui01	N11	WC-38	01/18/2023	Chemtech -SO
01/26/2023	Solid	O1233-11	Percent Solids	Cool 4 deg C	loui01	N11	B-P38C	01/18/2023	Chemtech -SO
01/24/2023	Solid	O1234-01	Percent Solids	Cool 4 deg C	PSEG05	N11	EO-02-11923	01/19/2023	Chemtech -SO
01/24/2023	Solid	O1234-02	Percent Solids	Cool 4 deg C	PSEG05	N11	EO-02-11923	01/19/2023	Chemtech -SO
01/28/2023	Solid	O1235-04	Percent Solids	Cool 4 deg C	ATCE02	N11	12X52	01/18/2023	Chemtech -SO
01/28/2023	Solid	O1235-05	Percent Solids	Cool 4 deg C	ATCE02	N11	12X53	01/18/2023	Chemtech -SO
01/28/2023	Solid	O1235-06	Percent Solids	Cool 4 deg C	ATCE02	N11	12X54	01/18/2023	Chemtech -SO
01/28/2023	Solid	O1235-07	Percent Solids	Cool 4 deg C	ATCE02	N11	12X55	01/18/2023	Chemtech -SO
01/24/2023	Solid	O1237-01	Percent Solids	Cool 4 deg C	PSEG03	N12	COMP-1-2-3A	01/19/2023	Chemtech -SO
01/24/2023	Solid	O1237-02	Percent Solids	Cool 4 deg C	PSEG03	N12	3A	01/19/2023	Chemtech -SO
01/24/2023	Solid	O1238-01	Percent Solids	Cool 4 deg C	PSEG03	N12	RBRB22281-OILY-DEBRIS	01/19/2023	Chemtech -SO
01/26/2023	Solid	O1239-01	Percent Solids	Cool 4 deg C	PSEG03	N12	BORING-3	01/19/2023	Chemtech -SO
01/26/2023	Solid	O1239-03	Percent Solids	Cool 4 deg C	PSEG03	N12	BORING-3-EPH-2	01/19/2023	Chemtech -SO
01/24/2023	Solid	O1240-01	Percent Solids	Cool 4 deg C	PSEG05	N12	TR-05-011923	01/19/2023	Chemtech -SO
01/24/2023	Solid	O1240-02	Percent Solids	Cool 4 deg C	PSEG05	N12	TR-05-011923-EPH-2	01/19/2023	Chemtech -SO
01/27/2023	Solid	O1241-01	Percent Solids	Cool 4 deg C	PSEG03	N11	34326-FRONT	01/20/2023	Chemtech -SO
01/27/2023	Solid	O1241-02	Percent Solids	Cool 4 deg C	PSEG03	N11	34326-BACK	01/20/2023	Chemtech -SO
01/27/2023	Solid	O1241-03	Percent Solids	Cool 4 deg C	PSEG03	N11	34327-FRONT	01/20/2023	Chemtech -SO
01/27/2023	Solid	O1241-04	Percent Solids	Cool 4 deg C	PSEG03	N11	34327-BACK	01/20/2023	Chemtech -SO
01/27/2023	Solid	O1241-05	Percent Solids	Cool 4 deg C	PSEG03	N11	34328-FRONT	01/20/2023	Chemtech -SO

Date/Time 01-20-23 15:45
 Raw Sample Received by: JO (WCC)
 Raw Sample Relinquished by: JO CSM

Date/Time 01-20-23 17:25
 Raw Sample Received by: JDCSM
 Raw Sample Relinquished by: JO (WCC)

123747

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-01/2023 WorkList ID : 166715 Department : Wet-Chemistry Date : 01-20-2023 09:10:27

Due Date	Matrix	Sample	Test	Preservative	Customer	Raw Sample Storage Location	Customer Sample	Collect Date	Method
01/27/2023	Solid	O1241-06	Percent Solids	Cool 4 deg C	PSEG03	N11	34328BACK	01/20/2023	Chemtech -SO
01/27/2023	Solid	O1241-07	Percent Solids	Cool 4 deg C	PSEG03	N11	343269-FRONT	01/20/2023	Chemtech -SO
01/27/2023	Solid	O1241-08	Percent Solids	Cool 4 deg C	PSEG03	N11	34329-BACK	01/20/2023	Chemtech -SO
01/28/2023	Solid	O1243-01	Percent Solids	Cool 4 deg C	ENTE01	N11	TJRC-11823-B4-0-10	01/18/2023	Chemtech -SO
01/28/2023	Solid	O1243-02	Percent Solids	Cool 4 deg C	ENTE01	N11	TJRC-11823-B4-0-10	01/18/2023	Chemtech -SO
01/28/2023	Solid	O1243-03	Percent Solids	Cool 4 deg C	ENTE01	N11	TJRC-11823-B4-10-20	01/18/2023	Chemtech -SO
01/28/2023	Solid	O1243-04	Percent Solids	Cool 4 deg C	ENTE01	N11	TJRC-11823-B4-10-20	01/18/2023	Chemtech -SO
01/29/2023	Solid	O1243-05	Percent Solids	Cool 4 deg C	ENTE01	N11	TJRC-11823-B4-20-30	01/19/2023	Chemtech -SO
01/29/2023	Solid	O1243-06	Percent Solids	Cool 4 deg C	ENTE01	N11	TJRC-11823-B4-20-30	01/19/2023	Chemtech -SO
01/29/2023	Solid	O1243-07	Percent Solids	Cool 4 deg C	ENTE01	N11	TJRC-11823-B4-30-40	01/19/2023	Chemtech -SO
01/29/2023	Solid	O1243-08	Percent Solids	Cool 4 deg C	ENTE01	N11	TJRC-11823-B4-30-40	01/19/2023	Chemtech -SO
01/27/2023	Solid	O1244-01	Percent Solids	Cool 4 deg C	PSEG03	N11	VNJ-223	01/20/2023	Chemtech -SO
01/27/2023	Solid	O1244-02	Percent Solids	Cool 4 deg C	PSEG03	N11	VNJ-223	01/20/2023	Chemtech -SO
01/23/2023	Solid	O1248-05	Percent Solids	Cool 4 deg C	CHEM02	N11	SVOC-GPC-BLANK	01/13/2023	Chemtech -SO
01/23/2023	Solid	O1248-06	Percent Solids	Cool 4 deg C	CHEM02	N11	PEST-GPC-BLANK	01/13/2023	Chemtech -SO
01/23/2023	Solid	O1248-07	Percent Solids	Cool 4 deg C	CHEM02	N11	PEST-GPC-BLANK-SPIKE	01/13/2023	Chemtech -SO
01/23/2023	Solid	O1248-08	Percent Solids	Cool 4 deg C	CHEM02	N11	PCB-GPC-BLANK	01/13/2023	Chemtech -SO
01/23/2023	Solid	O1248-09	Percent Solids	Cool 4 deg C	CHEM02	N11	PCB-GPC-BLANK-SPIKE	01/13/2023	Chemtech -SO
01/23/2023	Solid	O1248-10	Percent Solids	Cool 4 deg C	CHEM02	N11	SVOC-GPC2-BLANK	01/13/2023	Chemtech -SO
01/23/2023	Solid	O1248-11	Percent Solids	Cool 4 deg C	CHEM02	N11	PEST-GPC2-BLANK	01/13/2023	Chemtech -SO
01/23/2023	Solid	O1248-12	Percent Solids	Cool 4 deg C	CHEM02	N11	PEST-GPC2-BLANK-SPIKE	01/13/2023	Chemtech -SO

Date/Time 01/20/23 15:45
 Raw Sample Received by: JP (WC)
 Raw Sample Relinquished by: JDCSM2

Date/Time 01/20/23 17:25
 Raw Sample Received by: JDCSM2
 Raw Sample Relinquished by: JP (WC)

2523747

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-012023 WorkList ID : 166715 Department : Wet-Chemistry Date : 01-20-2023 09:10:27

Due Date	Matrix	Sample	Test	Preservative	Customer	Raw Sample Storage Location	Customer Sample	Collect Date	Method
01/23/2023	Solid	O1248-13	Percent Solids	Cool 4 deg C	CHEM02	N11	PCB-GCP2-BLANK	01/13/2023	Chemtech -SO
01/23/2023	Solid	O1248-14	Percent Solids	Cool 4 deg C	CHEM02	N11	PCB-GCP2-BLANK-SPIKE	01/13/2023	Chemtech -SO
01/25/2023	Solid	O1251-01	Percent Solids	Cool 4 deg C	SOUN03	N11	COMP-1	01/20/2023	Chemtech -SO
01/25/2023	Solid	O1251-03	Percent Solids	Cool 4 deg C	SOUN03	N11	EPH-1	01/20/2023	Chemtech -SO
01/25/2023	Solid	O1251-05	Percent Solids	Cool 4 deg C	SOUN03	N11	TOT-VOC-1	01/20/2023	Chemtech -SO
01/25/2023	Solid	O1251-06	Percent Solids	Cool 4 deg C	SOUN03	N11	TOT-VOC-2	01/20/2023	Chemtech -SO
01/25/2023	Solid	O1251-07	Percent Solids	Cool 4 deg C	SOUN03	N11	COMP-2	01/20/2023	Chemtech -SO
01/25/2023	Solid	O1251-09	Percent Solids	Cool 4 deg C	SOUN03	N11	EPH-2	01/20/2023	Chemtech -SO
01/25/2023	Solid	O1251-11	Percent Solids	Cool 4 deg C	SOUN03	N11	TOT-VOC-3	01/20/2023	Chemtech -SO
01/25/2023	Solid	O1251-12	Percent Solids	Cool 4 deg C	SOUN03	N11	TOT-VOC-4	01/20/2023	Chemtech -SO
01/27/2023	Solid	O1252-01	Percent Solids	Cool 4 deg C	PSEG03	N11	MH-9	01/20/2023	Chemtech -SO
01/27/2023	Solid	O1252-02	Percent Solids	Cool 4 deg C	PSEG03	N11	MH-9-EPH	01/20/2023	Chemtech -SO
01/25/2023	Solid	O1253-01	Percent Solids	Cool 4 deg C	PSEG05	N13	SU-04-012023	01/20/2023	Chemtech -SO
01/25/2023	Solid	O1253-02	Percent Solids	Cool 4 deg C	PSEG05	N13	SU-04-012023-EPH-2	01/20/2023	Chemtech -SO
01/26/2023	Solid	O1254-01	Percent Solids	Cool 4 deg C	PSEG05	N11	HR-04-012023	01/20/2023	Chemtech -SO
01/26/2023	Solid	O1254-02	Percent Solids	Cool 4 deg C	PSEG05	N11	HR-04-012023-EPH-2	01/20/2023	Chemtech -SO
01/27/2023	Solid	O1255-01	Percent Solids	Cool 4 deg C	PSEG03	N11	BORING-1	01/20/2023	Chemtech -SO
01/27/2023	Solid	O1255-03	Percent Solids	Cool 4 deg C	PSEG03	N11	BORING-1-EPH-2	01/20/2023	Chemtech -SO
01/25/2023	Solid	O1256-01	Percent Solids	Cool 4 deg C	PSEG05	N11	OR-02-012023	01/20/2023	Chemtech -SO
01/25/2023	Solid	O1256-02	Percent Solids	Cool 4 deg C	PSEG05	N11	OR-02-012023-EPH-2	01/20/2023	Chemtech -SO
01/23/2023	Solid	O1258-01	Percent Solids	Cool 4 deg C	RMJE02	N11	WASTE-VOA-2	01/20/2023	Chemtech -SO

Date/Time 01-20-23 15:43
Raw Sample Received by: JP (wc)
Raw Sample Relinquished by: JDCSM

Date/Time 01-20-23 17:25
Raw Sample Received by: JDCSM
Raw Sample Relinquished by: JP (wc)

SOP ID:	M3541-ASE Extraction-14		
Clean Up SOP #:	N/A	Extraction Start Date :	01/20/2023
Matrix :	Solid	Extraction Start Time :	12:30
Weigh By:	RJ	Extraction By:	RJ
Balance check:	RJ	Filter By:	RJ
Balance ID:	EX-SC-2	Extraction End Date :	01/20/2023
pH Strip Lot#:	N/A	Extraction End Time :	15:30
		pH Meter ID:	N/A
		Concentration By:	RS
		Hood ID:	3,7
		Supervisor By :	rajesh
Extraction Method:	☐ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☒ Soxhlet		

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6066
Surrogate	1.0ML	100/150 PPM	SP6088
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2293
Baked Na2SO4	N/A	EP2279
Sand	N/A	E2865
Methylene Chloride	N/A	E3459
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial lot# 2200532.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NE VAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
01/20/23	RP (Ept 2023)	CG Suresh Lab
15:35	Preparation Group	Analysis Group

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 01/20/2023

Sample ID	Client Sample ID	Test	g/mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB150378BL	SBLK378	SVOC-PAH	30.01	N/A	ritesh	RUPESH	1			U1-1
PB150378BS	SLCS378	SVOC-PAH	30.02	N/A	ritesh	RUPESH	1			2
O1232-01	B-P-17A	SVOC-TCL BNA -20	30.07	N/A	ritesh	RUPESH	1			3
O1232-02	B-P-17B	SVOC-TCL BNA -20	30.05	N/A	ritesh	RUPESH	1			4
O1232-03	WC-17	SVOC-PAH	30.03	N/A	ritesh	RUPESH	1			5
O1232-04	B-P-18A	SVOC-TCL BNA -20	30.08	N/A	ritesh	RUPESH	1			6
O1232-05	B-P-18B	SVOC-TCL BNA -20	30.06	N/A	ritesh	RUPESH	1			U4-1
O1232-06	B-P-19A	SVOC-TCL BNA -20	30.02	N/A	ritesh	RUPESH	1			2
O1232-07	B-P-19B	SVOC-TCL BNA -20	30.05	N/A	ritesh	RUPESH	1			3
O1232-08	B-P-35A	SVOC-TCL BNA -20	30.08	N/A	ritesh	RUPESH	1			4
O1232-09	B-P-35B	SVOC-TCL BNA -20	30.04	N/A	ritesh	RUPESH	1			5
O1232-10	DUP01	SVOC-TCL BNA -20	30.09	N/A	ritesh	RUPESH	1			6
O1233-02	B-P34A	SVOC-TCL BNA -20	30.01	N/A	ritesh	RUPESH	1			U5-1
O1233-02MS	B-P34AMS	SVOC-TCL BNA -20	30.05	N/A	ritesh	RUPESH	1			2
O1233-02MS D	B-P34AMSD	SVOC-TCL BNA -20	30.07	N/A	ritesh	RUPESH	1			3
O1233-03	B-P34B	SVOC-TCL BNA -20	30.09	N/A	ritesh	RUPESH	1			4
O1233-04	B-P36A	SVOC-TCL BNA -20	30.03	N/A	ritesh	RUPESH	1			5
O1233-05	B-P36B	SVOC-TCL BNA -20	30.01	N/A	ritesh	RUPESH	1			6
O1233-06	B-P37A	SVOC-TCL BNA -20	30.04	N/A	ritesh	RUPESH	1			U6-1
O1233-07	B-P37B	SVOC-TCL BNA -20	30.08	N/A	ritesh	RUPESH	1			2
O1233-08	B-P38A	SVOC-TCL BNA -20	30.10	N/A	ritesh	RUPESH	1			3
O1233-09	B-P38B	SVOC-TCL BNA -20	30.05	N/A	ritesh	RUPESH	1			4
O1233-10	WC-38	SVOC-PAH	30.07	N/A	ritesh	RUPESH	1		Gasoline Smell	5
O1233-11	B-P38C	SVOC-TCL BNA -20	30.04	N/A	ritesh	RUPESH	1		Gasoline Smell	6

* Extracts relinquished on the same date as received.



WORKLIST(Hardcopy Internal Chain)

WorkList Name : O1232S

WorkList ID : 166739

Department : Extraction

Date : 01-20-2023 12:20:59

Due Date	Matrix	Sample	Test	Preservative	Customer	Raw Sample Storage Location	Customer Sample	Collect Date	Method
01/26/2023	Solid	O1232-01	SVOC-TCL BNA -20	Cool 4 deg C	loui01	N11	B-P-17A	01/18/2023	8270E
01/26/2023	Solid	O1232-02	SVOC-TCL BNA -20	Cool 4 deg C	loui01	N11	B-P-17B	01/18/2023	8270E
01/26/2023	Solid	O1232-03	SVOC-PAH	Cool 4 deg C	loui01	N11	WC-17	01/18/2023	8270E
01/26/2023	Solid	O1232-04	SVOC-TCL BNA -20	Cool 4 deg C	loui01	N11	B-P-18A	01/18/2023	8270E
01/26/2023	Solid	O1232-05	SVOC-TCL BNA -20	Cool 4 deg C	loui01	N11	B-P-18B	01/18/2023	8270E
01/26/2023	Solid	O1232-06	SVOC-TCL BNA -20	Cool 4 deg C	loui01	N11	B-P-19A	01/18/2023	8270E
01/26/2023	Solid	O1232-07	SVOC-TCL BNA -20	Cool 4 deg C	loui01	N11	B-P-19B	01/18/2023	8270E
01/26/2023	Solid	O1232-08	SVOC-TCL BNA -20	Cool 4 deg C	loui01	N11	B-P-35A	01/18/2023	8270E
01/26/2023	Solid	O1232-09	SVOC-TCL BNA -20	Cool 4 deg C	loui01	N11	B-P-35B	01/18/2023	8270E
01/26/2023	Solid	O1232-10	SVOC-TCL BNA -20	Cool 4 deg C	loui01	N11	DUP01	01/18/2023	8270E
01/26/2023	Solid	O1233-02	SVOC-TCL BNA -20	Cool 4 deg C	loui01	N11	B-P34A	01/18/2023	8270E
01/26/2023	Solid	O1233-03	SVOC-TCL BNA -20	Cool 4 deg C	loui01	N11	B-P34B	01/18/2023	8270E
01/26/2023	Solid	O1233-04	SVOC-TCL BNA -20	Cool 4 deg C	loui01	N11	B-P36A	01/18/2023	8270E
01/26/2023	Solid	O1233-05	SVOC-TCL BNA -20	Cool 4 deg C	loui01	N11	B-P36B	01/18/2023	8270E
01/26/2023	Solid	O1233-06	SVOC-TCL BNA -20	Cool 4 deg C	loui01	N11	B-P37A	01/18/2023	8270E
01/26/2023	Solid	O1233-07	SVOC-TCL BNA -20	Cool 4 deg C	loui01	N11	B-P37B	01/18/2023	8270E
01/26/2023	Solid	O1233-08	SVOC-TCL BNA -20	Cool 4 deg C	loui01	N11	B-P38A	01/18/2023	8270E
01/26/2023	Solid	O1233-09	SVOC-TCL BNA -20	Cool 4 deg C	loui01	N11	B-P38B	01/18/2023	8270E
01/26/2023	Solid	O1233-10	SVOC-PAH	Cool 4 deg C	loui01	N11	WC-38	01/18/2023	8270E
01/26/2023	Solid	O1233-11	SVOC-TCL BNA -20	Cool 4 deg C	loui01	N11	B-P38C	01/18/2023	8270E

Date/Time 01/20/23 12:25
 Raw Sample Received by: RJ (Sat 12:25)
 Raw Sample Relinquished by: CP SM

Date/Time 01/20/23 12:55
 Raw Sample Received by: CP SM
 Raw Sample Relinquished by: RJ (Sat 12:55)

SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092

(908) 789-8900 Fax: (908) 78-8922

www.chemtech.net

Chemtech Project Number:

01232/33

COC Number:

CLIENT INFORMATION

COMPANY: Louis Berger dba WSP USA Inc.

ADDRESS: 350 Mt. Kemble Ave

CITY: Morristown STATE: NJ ZIP: 07962

ATTENTION: Jonathan Ganz (Jon.Ganz@wsp.com)

PHONE: 212-612-7995

FAX:

PROJECT INFORMATION

PROJECT NAME: HWR1140A PCSMP Ph II SCI

PROJECT #: 31202661.297 Task 02 LOCATION: Staten Island

PROJECT MANAGER: Jon Ganz

E-MAIL: Jon.Ganz@wsp.com

PHONE: 212-612-7995

FAX:

BILLING INFORMATION

BILL TO: Louis Berger

PO# 31202661.297 Task 02

ADDRESS: 350 Mt. Kemble Ave

CITY: Morristown

STATE: NJ ZIP: 07962

ATTENTION: Jon Ganz

PHONE: 212-612-7995

DATA TURNAROUND INFORMATION

TAX: _____ DAYS
HARD COPY: _____ DAYS*
EDD See Contract Rates below DAYS*
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

TCL VOC - 2 days

TCL SVOC - 5 days

PAH - 5 days

TPH GRO/DRO - 3 days

TAL Metals - 5 Days

PCBs and Pesticides - 5 Day

TCLP RCRA Metals - 5 Day

RCRA Characteristics and Paint Filter - 3 Days

DATA DELIVERABLE INFORMATION

- ☐ RESULTS ONLY ☐ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other _____

Level 2

☐ EDD Format

ANALYSIS

TCL VOC (8260C)	TCL SVOC (8270C/625)	TCL Pest (8081A/608)	PCB (3550B, 8082/608)	TAL Metals (7471A and 6010B)	PCBs (8082), PAHs (8270)	TCLP Metals (RCRA 8) EPA 1311/ 6010B	RCRA Char- EPA 9012B/9034, 1030/1010A, 9045C, 9095B	TPH-DRO/GRO (8015B)	Paint Filter Test (EPA 9095B)
1	2	3	4	5	6	7	8	9	

PRESERVATIVES

COMMENTS

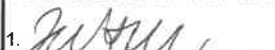
CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles	Preservatives									Comments ← Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	B-P17A	507		X	1/18/23	0950	1	X	X	X	X	X					
2.	B-P17B	508		X	1/18/23	1005	1	X	X	X	X	X					
3.	W017	509	X		1/18/23	1010	1						X	X	X	X	
4.	B-P18A			X	1/18/23	1025		X	X	X	X	X					
5.	B-P18B			X	1/18/23	1045		X	X	X	X	X					
6.	B-P19A			X	1/18/23	1125		X	X	X	X	X					
7.	B-P19B			X	1/18/23	1135		X	X	X	X	X					
8.	B-P35A			X	1/18/23	1225		X	X	X	X	X					
9.	B-P35B			X	1/18/23	1245		X	X	X	X	X					
10.	DUPO1			X				X	X	X	X	X					

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER

DATE/TIME

RECEIVED BY

1. 

1/19/23



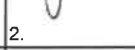
RELINQUISHED BY

DATE/TIME

RECEIVED BY

2. 

1/19/23



RELINQUISHED BY

DATE/TIME

RECEIVED FOR LAB BY

3. 

1-19-23



Conditions of bottles or coolers at receipt:

☐ Compliant☐ Non Compliant☐ Cooler Temp 3.0

MeOH extraction requires an additional 4oz. Jar for percent solid

☐ Ice in Cooler?: _____

Comments:

Page 1 of 3

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ OvernightCHEMTECH: ☐ Picked Up ☐ Overnight

Shipment Complete

☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT

YELLOW - CHEMTECH COPY

PINK - SAMPLER COPY

CHEMTECH CHAIN OF CUSTODY RECORD		284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax: (908) 78-8922 www.chemtech.net		Chemtech Project Number: 01232/33																																						
CLIENT INFORMATION		PROJECT INFORMATION		BILLING INFORMATION																																						
COMPANY: Louis Berger dba WSP USA Inc. ADDRESS: 350 Mt. Kemble Ave CITY: Morristown STATE: NJ ZIP: 07962 ATTENTION: Jonathan Ganz (Jon.Ganz@wsp.com) PHONE: 212-612-7995 FAX:		PROJECT NAME: HWR1140A PCSMP Ph II SCI PROJECT #: 31202661.297 Task 02 LOCATION: Staten Island PROJECT MANAGER: Jon Ganz E-MAIL: Jon.Ganz@wsp.com PHONE: 212-612-7995 FAX:		BILL TO: Louis Berger PO# 31202661.297 Task 02 ADDRESS: 350 Mt. Kemble Ave CITY: Morristown STATE: NJ ZIP: 07962 ATTENTION: Jon Ganz PHONE: 212-612-7995																																						
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		ANALYSIS																																						
FAX: _____ DAYS* HARD COPY: _____ DAYS* EDD See Contract Rates below DAYS* * TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS TCL VOC - 2 days TCL SVOC - 5 days PAH - 5 days TPH GRO/DRO - 3 days TAL Metals - 5 Days PCBs and Pesticides - 5 Day TCLP RCRA Metals - 5 Day RCRA Characteristics and Paint Filter - 3 Days		☐ RESULTS ONLY ☐ USEPA CLP ☐ RESULTS + QC ☐ New York State ASP "B" ☐ New Jersey REDUCED ☐ New York State ASP "A" ☐ New Jersey CLP ☐ Other _____ Level 2 ☐ EDD Format _____		<table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <tr> <th>TCL VOC (8260C)</th> <th>TCL SVOC (8270C/625)</th> <th>TCL Pest (8081A/608)</th> <th>PCB (3550B, 8082/608)</th> <th>TAL Metals (7471A and 6010B)</th> <th>PCBs (8082), PAHs (8270)</th> <th>TCLP Metals (RCRA 8) EPA 1311/6010B</th> <th>RCRA Char- EPA 9012B/9034, 1030/1010A, 9045C, 9095B</th> <th>TPH-DRO/GRO (8015B)</th> <th>Paint Filter Test (EPA 9095B)</th> </tr> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td></td> </tr> </table>		TCL VOC (8260C)	TCL SVOC (8270C/625)	TCL Pest (8081A/608)	PCB (3550B, 8082/608)	TAL Metals (7471A and 6010B)	PCBs (8082), PAHs (8270)	TCLP Metals (RCRA 8) EPA 1311/6010B	RCRA Char- EPA 9012B/9034, 1030/1010A, 9045C, 9095B	TPH-DRO/GRO (8015B)	Paint Filter Test (EPA 9095B)	1	2	3	4	5	6	7	8	9																		
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CHEMTECH CHAIN OF CUSTODY RECORD		284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax: (908) 78-8922 www.chemtech.net		Chemtech Project Number: <u>01232/33</u>																				
CLIENT INFORMATION		PROJECT INFORMATION		BILLING INFORMATION																				
COMPANY: Louis Berger dba WSP USA Inc. ADDRESS: 350 Mt. Kemble Ave CITY: Morristown STATE: NJ ZIP: 07962 ATTENTION: Jonathan Ganz (Jon.Ganz@wsp.com) PHONE: 212-612-7995 FAX:		PROJECT NAME: HWR1140A PCSMP Ph II SCI PROJECT #: 31202661.297 Task 02 LOCATION: Staten Island PROJECT MANAGER: Jon Ganz E-MAIL: Jon.Ganz@wsp.com PHONE: 212-612-7995 FAX:		BILL TO: Louis Berger PO# 31202661.297 Task 02 ADDRESS: 350 Mt. Kemble Ave CITY: Morristown STATE: NJ ZIP: 07962 ATTENTION: Jon Ganz PHONE: 212-612-7995																				
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		ANALYSIS																				
FAX: _____ DAYS HARD COPY: _____ DAYS* EDD See Contract Rates below DAYS* * TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS TCL VOC - 2 days TCL SVOC - 5 days PAH - 5 days TPH GRO/DRO - 3 days TAL Metals - 5 Days PCBs and Pesticides - 5 Day TCLP RCRA Metals - 5 Day RCRA Characteristics and Paint Filter - 3 Days		☐ RESULTS ONLY ☐ USEPA CLP ☐ RESULTS + QC ☐ New York State ASP "B" ☐ New Jersey REDUCED ☐ New York State ASP "A" ☐ New Jersey CLP ☐ Other _____ Level 2 ☐ EDD Format _____		<table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">TCL VOC (8260C)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">TCL SVOC (8270C/625)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">TCL Pest (8081A/608)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">PCB (3550B, 8082/608)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">TAL Metals (7471A and 6010B)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">PCBs (8082), PAHs (8270)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">TCLP Metals (RCRA 8)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">EPA 1311/6010B</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">RCRA Char- EPA 9012B/9034, 1030/1010A, 9045C, 9095B</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH-DRO/GRO (8015B), Paint Filter Test (EPA 9095B)</td> </tr> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td> </tr> </table>		TCL VOC (8260C)	TCL SVOC (8270C/625)	TCL Pest (8081A/608)	PCB (3550B, 8082/608)	TAL Metals (7471A and 6010B)	PCBs (8082), PAHs (8270)	TCLP Metals (RCRA 8)	EPA 1311/6010B	RCRA Char- EPA 9012B/9034, 1030/1010A, 9045C, 9095B	TPH-DRO/GRO (8015B), Paint Filter Test (EPA 9095B)	1	2	3	4	5	6	7	8	9
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1. <u>B-P38C</u>		<u>soil</u>		<table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <tr> <td colspan="2"></td> <td colspan="2"></td> <td rowspan="2"># of Bottles</td> </tr> <tr> <td>DATE</td> <td>TIME</td> <td></td> <td></td> </tr> <tr> <td><u>1/18/23</u></td> <td><u>2350</u></td> <td><u>1</u></td> <td></td> </tr> </table>						# of Bottles	DATE	TIME			<u>1/18/23</u>	<u>2350</u>	<u>1</u>							
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10.																								
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY																								
RELINQUISHED BY SAMPLER 1. <u>[Signature]</u>		DATE/TIME <u>1/19/23</u>		RECEIVED BY <u>[Signature]</u>																				
RELINQUISHED BY 2. <u>[Signature]</u>		DATE/TIME <u>1-19-23</u>		RECEIVED BY <u>[Signature]</u>																				
RELINQUISHED BY 3. <u>[Signature]</u>		DATE/TIME <u>1-19-23</u>		RECEIVED FOR LAB BY <u>[Signature]</u>																				
Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp <u>3.0</u> MeOH extraction requires an additional 4oz. Jar for percent solid Comments:				SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight CHEMTECH: ☐ Picked Up ☐ Overnight																				
Page <u>3</u> of <u>3</u>				Shipment Complete ☐ YES ☐ NO																				
WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY																								



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Maine	2022022
Maryland	296
New Hampshire	255422
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-21-00137
Texas	T104704488-23-16

LOGIN REPORT/SAMPLE TRANSFER
Order ID : O1233 loui01

Order Date : 1/19/2023 1:53:00 PM

Project Mgr :
Client Name : Louis Berger U.S.. Inc., A V

Project Name : NYCDDC Phase II SCI Artl

Report Type : Level 2

Client Contact : Jonathan Ganz

Receive DateTime : 1/19/2023 12:00:00 AM

EDD Type : Excel NY

Invoice Name : Louis Berger U.S.. Inc., A V

Purchase Order : 18:05

Hard Copy Date :
Invoice Contact : Jonathan Ganz

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
O1233-02	B-P34A	Solid	01/18/2023	21:15	VOC-TCLVOA-10		8260D	2 Bus. Days	
O1233-03	B-P34B	Solid	01/18/2023	21:40	VOC-TCLVOA-10		8260D	2 Bus. Days	
O1233-04	B-P36A	Solid	01/18/2023	22:10	VOC-TCLVOA-10		8260D	2 Bus. Days	
O1233-05	B-P36B	Solid	01/18/2023	22:25	VOC-TCLVOA-10		8260D	2 Bus. Days	
O1233-06	B-P37A	Solid	01/18/2023	23:00	VOC-TCLVOA-10		8260D	2 Bus. Days	
O1233-07	B-P37B	Solid	01/18/2023	23:15	VOC-TCLVOA-10		8260D	2 Bus. Days	
O1233-08	B-P38A B-38A	Solid	01/18/2023	23:45	VOC-TCLVOA-10		8260D	2 Bus. Days	
O1233-09	B-P38B	Solid	01/18/2023	23:55	VOC-TCLVOA-10		8260D	2 Bus. Days	
O1233-11	B-P38C	Solid	01/18/2023	23:50					



LOGIN REPORT/SAMPLE TRANSFER

Order ID : O1233 loui01

Order Date : 1/19/2023 1:53:00 PM

Project Mgr :

Client Name : Louis Berger U.S., Inc., A V

Project Name : NYCDDC Phase II SCI Artl

Report Type : Level ■ 2 SB 01/31/2023

Client Contact : Jonathan Ganz

Receive DateTime : 1/19/2023 ~~12:00:00~~ AM

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LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
O1233-12	FB01	Water	01/18/2023	12:05	VOC-TCLVOA-10		8260D		2 Bus. Days
					VOC-TCLVOA-10		8260D		2 Bus. Days

JAN
samplersstored in vault
FRZ #2Relinquished By : celDate / Time : 1/20/23 9:20Received By : Wm D. J. dDate / Time : 1/20/23 9:20

Storage Area : VOA Refrigerator Room