

Cover Page

Order ID : P4718

Project ID : Amtrak Sawtooth Bridges 2024

Client : Portal Partners Tri-Venture

Lab Sample Number

P4718-01
P4718-02
P4718-03
P4718-04
P4718-05

Client Sample Number

WB-307-SB01
WB-307-SB02
WB-307-SB02
WB-307-SW
TB-11042024

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: 11/18/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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 #: P4718

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 Custody

✓

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

✓

QA Review Signature: PATEL VAISHALI

Date: 11/18/2024

LAB CHRONICLE

OrderID:	P4718	OrderDate:	11/5/2024 1:31:00 PM
Client:	Portal Partners Tri-Venture	Project:	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	Location:	L21,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4718-01	WB-307-SB01	SOIL	SVOC-TCL BNA -20	8270E	11/04/24	11/06/24	11/07/24	11/05/24
P4718-02	WB-307-SB02	SOIL	SVOC-TCL BNA -20	8270E	11/04/24	11/06/24	11/07/24	11/05/24
P4718-03	WB-307-SB02	TCLP	TCLP BNA	8270E	11/04/24	11/07/24	11/11/24	11/05/24
P4718-04	WB-307-SW	Water	SVOC-TCL BNA -20	8270E	11/04/24	11/09/24	11/14/24	11/05/24

Hit Summary Sheet SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	WB-307-SB01							
P4718-01	WB-307-SB01	SOIL	2-Bromo dodecane	*	190.000	J 0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	870.000	AB 0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	Benzophenone	*	380.000	J 0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	Butane, 2-methoxy-2-methyl-	*	3,700.000	JB 0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	Dodecane, 2,6,10-trimethyl-	*	550.000	J 0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	n-Hexadecanoic acid	*	550.000	J 0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	Oleic Acid	*	120.000	J 0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	Pentacosane	*	680.000	J 0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	Pentadecane	*	730.000	J 0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	Pentadecane, 7-methyl-	*	130.000	J 0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	Propane, 1,1-dimethoxy-	*	130.000	J 0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	Sulfurous acid, 2-ethylhexyl tride	*	180.000	J 0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	Tetradecane	*	1,700.000	J 0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	trans, cis-3-Ethylbicyclo[4.4.0]de	*	100.000	J 0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	Tridecane	*	700.000	J 0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	Trifluoroacetic acid, pentadecyl e	*	240.000	J 0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	Undecane, 3-methyl-	*	150.000	J 0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	Undecane, 5,5-dimethyl-	*	150.000	J 0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	unknown8.804	*	160.000	J 0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	unknown9.034	*	230.000	J 0	0	ug/Kg
Total Tics :				11,640.00				
Total Concentration:				11,640.00				
Client ID :	WB-307-SB02							
P4718-02	WB-307-SB02	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	790.000	AB 0	0	ug/Kg
P4718-02	WB-307-SB02	SOIL	Benzophenone	*	360.000	J 0	0	ug/Kg
P4718-02	WB-307-SB02	SOIL	Butane, 2-methoxy-2-methyl-	*	3,500.000	JB 0	0	ug/Kg
P4718-02	WB-307-SB02	SOIL	Heptadecyl heptafluorobutyrate	*	210.000	J 0	0	ug/Kg
P4718-02	WB-307-SB02	SOIL	n-Hexadecanoic acid	*	460.000	J 0	0	ug/Kg
P4718-02	WB-307-SB02	SOIL	Propane, 1,1-dimethoxy-	*	120.000	J 0	0	ug/Kg
Total Tics :				5,440.00				
Total Concentration:				5,440.00				
Client ID :	WB-307-SW							
P4718-04	WB-307-SW	WATER	2-Pentanone, 4-hydroxy-4-methyl	*	10.500	AB 0	0	ug/L
P4718-04	WB-307-SW	WATER	Acetic acid, butyl ester	*	3.300	J 0	0	ug/L
P4718-04	WB-307-SW	WATER	Benzophenone	*	5.400	J 0	0	ug/L
P4718-04	WB-307-SW	WATER	Butane, 2-methoxy-2-methyl-	*	250.000	JB 0	0	ug/L



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

Hit Summary Sheet
SW-846

SDG No.: P4718
Client: Portal Partners Tri-Venture

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
P4718-04	WB-307-SW	WATER	n-Hexadecanoic acid	*	3.300	J 0	0	ug/L
			Total Tics :	272.50				
			Total Concentration:	272.50				



QC SUMMARY

Surrogate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P4718-01	WB-307-SB01	2-Fluorophenol	150	135	90		30 (18)	130 (112)
		Phenol-d6	150	134	90		30 (15)	130 (107)
		Nitrobenzene-d5	100	90.3	90		30 (18)	130 (107)
		2-Fluorobiphenyl	100	82.9	83		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	151	101		30 (10)	130 (116)
		Terphenyl-d14	100	80.7	81		30 (10)	130 (105)
P4718-02	WB-307-SB02	2-Fluorophenol	150	119	79		30 (18)	130 (112)
		Phenol-d6	150	119	79		30 (15)	130 (107)
		Nitrobenzene-d5	100	78.5	78		30 (18)	130 (107)
		2-Fluorobiphenyl	100	78.9	79		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	134	89		30 (10)	130 (116)
		Terphenyl-d14	100	81.5	81		30 (10)	130 (105)
P4718-02MS	WB-307-SB02MS	2-Fluorophenol	150	108	72		30 (18)	130 (112)
		Phenol-d6	150	109	73		30 (15)	130 (107)
		Nitrobenzene-d5	100	71.6	72		30 (18)	130 (107)
		2-Fluorobiphenyl	100	71.9	72		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	121	81		30 (10)	130 (116)
		Terphenyl-d14	100	80.3	80		30 (10)	130 (105)
P4718-02MSD	WB-307-SB02MSD	2-Fluorophenol	150	106	70		30 (18)	130 (112)
		Phenol-d6	150	106	71		30 (15)	130 (107)
		Nitrobenzene-d5	100	69.7	70		30 (18)	130 (107)
		2-Fluorobiphenyl	100	71.3	71		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	121	81		30 (10)	130 (116)
		Terphenyl-d14	100	76.8	77		30 (10)	130 (105)
PB164702BL	PB164702BL	2-Fluorophenol	150	137	91		30 (18)	130 (112)
		Phenol-d6	150	134	89		30 (15)	130 (107)
		Nitrobenzene-d5	100	91.0	91		30 (18)	130 (107)
		2-Fluorobiphenyl	100	91.1	91		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	152	101		30 (10)	130 (116)
		Terphenyl-d14	100	101	101		30 (10)	130 (105)
PB164702BS	PB164702BS	2-Fluorophenol	150	125	83		30 (18)	130 (112)
		Phenol-d6	150	122	82		30 (15)	130 (107)
		Nitrobenzene-d5	100	86.5	86		30 (18)	130 (107)
		2-Fluorobiphenyl	100	86.4	86		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	149	99		30 (10)	130 (116)
		Terphenyl-d14	100	97.3	97		30 (10)	130 (105)

Surrogate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P4718-04	WB-307-SW	2-Fluorophenol	150	35.2	23		15 (10)	110 (139)
		Phenol-d6	150	30.7	20		15 (10)	110 (134)
		Nitrobenzene-d5	100	35.6	36		30 (49)	130 (133)
		2-Fluorobiphenyl	100	36.4	36		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	48.6	32		15 (44)	110 (137)
		Terphenyl-d14	100	39.4	39		30 (48)	130 (125)
PB164846BL	PB164846BL	2-Fluorophenol	150	135	90		15 (10)	110 (139)
		Phenol-d6	150	130	87		15 (10)	110 (134)
		Nitrobenzene-d5	100	92.4	92		30 (49)	130 (133)
		2-Fluorobiphenyl	100	93.6	94		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	135	90		15 (44)	110 (137)
		Terphenyl-d14	100	85.1	85		30 (48)	130 (125)
PB164846BS	PB164846BS	2-Fluorophenol	150	119	79		15 (10)	110 (139)
		Phenol-d6	150	116	77		15 (10)	110 (134)
		Nitrobenzene-d5	100	81.8	82		30 (49)	130 (133)
		2-Fluorobiphenyl	100	83.2	83		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	129	86		15 (44)	110 (137)
		Terphenyl-d14	100	102	102		30 (48)	130 (125)
PB164846BSD	PB164846BSD	2-Fluorophenol	150	126	84		15 (10)	110 (139)
		Phenol-d6	150	121	81		15 (10)	110 (134)
		Nitrobenzene-d5	100	86.0	86		30 (49)	130 (133)
		2-Fluorobiphenyl	100	87.5	88		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	132	88		15 (44)	110 (137)
		Terphenyl-d14	100	99.7	100		30 (48)	130 (125)

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	P4718-02MS	Client Sample ID:	WB-307-SB02MS					DataFile:	BF140272.D		
Benzaldehyde	2100	0	440	ug/Kg	21				20 (10)	160 (86)	
Phenol	2100	0	2300	ug/Kg	110				20 (67)	160 (126)	
bis(2-Chloroethyl)ether	2100	0	2200	ug/Kg	105				70 (54)	130 (125)	
2-Chlorophenol	2100	0	2300	ug/Kg	110				70 (79)	130 (107)	
2-Methylphenol	2100	0	2300	ug/Kg	110				70 (66)	130 (122)	
2,2-oxybis(1-Chloropropane)	2100	0	2200	ug/Kg	105				70 (65)	130 (110)	
Acetophenone	2100	0	2100	ug/Kg	100				70 (75)	130 (111)	
3+4-Methylphenols	2100	0	2200	ug/Kg	105				20 (66)	160 (104)	
N-Nitroso-di-n-propylamine	2100	0	2200	ug/Kg	105				70 (59)	130 (119)	
Hexachloroethane	2100	0	2100	ug/Kg	100				20 (65)	160 (117)	
Nitrobenzene	2100	0	2000	ug/Kg	95				70 (70)	130 (119)	
Isophorone	2100	0	2200	ug/Kg	105				70 (76)	130 (122)	
2-Nitrophenol	2100	0	2400	ug/Kg	114				70 (54)	130 (145)	
2,4-Dimethylphenol	2100	0	2700	ug/Kg	129				70 (44)	130 (135)	
bis(2-Chloroethoxy)methane	2100	0	2100	ug/Kg	100				70 (68)	130 (112)	
2,4-Dichlorophenol	2100	0	2200	ug/Kg	105				70 (72)	130 (118)	
Naphthalene	2100	0	2100	ug/Kg	100				70 (72)	130 (110)	
4-Chloroaniline	2100	0	1500	ug/Kg	71				70 (10)	130 (91)	
Hexachlorobutadiene	2100	0	2100	ug/Kg	100				70 (66)	130 (114)	
Caprolactam	2100	0	2400	ug/Kg	114				20 (51)	160 (134)	
4-Chloro-3-methylphenol	2100	0	2200	ug/Kg	105				70 (57)	130 (132)	
2-Methylnaphthalene	2100	0	2200	ug/Kg	105				70 (59)	130 (123)	
Hexachlorocyclopentadiene	4300	0	8500	ug/Kg	198	*			20 (10)	160 (175)	
2,4,6-Trichlorophenol	2100	0	2300	ug/Kg	110				70 (72)	130 (117)	
2,4,5-Trichlorophenol	2100	0	2300	ug/Kg	110				70 (72)	130 (117)	
1,1-Biphenyl	2100	0	2200	ug/Kg	105				70 (75)	130 (113)	
2-Chloronaphthalene	2100	0	2100	ug/Kg	100				70 (67)	130 (118)	
2-Nitroaniline	2100	0	2300	ug/Kg	110				70 (69)	130 (127)	
Dimethylphthalate	2100	0	2300	ug/Kg	110				70 (70)	130 (113)	
Acenaphthylene	2100	0	2400	ug/Kg	114				70 (79)	130 (118)	
2,6-Dinitrotoluene	2100	0	2200	ug/Kg	105				70 (70)	130 (125)	
3-Nitroaniline	2100	0	1800	ug/Kg	86				70 (30)	130 (99)	
Acenaphthene	2100	0	2500	ug/Kg	119				70 (70)	130 (121)	
2,4-Dinitrophenol	4300	0	4900	ug/Kg	114				20 (10)	160 (155)	
4-Nitrophenol	4300	0	5300	ug/Kg	123				20 (45)	160 (133)	
Dibenzofuran	2100	0	2300	ug/Kg	110				70 (72)	130 (110)	
2,4-Dinitrotoluene	2100	0	2400	ug/Kg	114				70 (55)	130 (128)	
Diethylphthalate	2100	0	2300	ug/Kg	110				70 (70)	130 (112)	
4-Chlorophenyl-phenylether	2100	0	2200	ug/Kg	105				70 (71)	130 (108)	
Fluorene	2100	0	2200	ug/Kg	105				70 (68)	130 (116)	
4-Nitroaniline	2100	0	2400	ug/Kg	114				70 (55)	130 (120)	
4,6-Dinitro-2-methylphenol	2100	0	2600	ug/Kg	124				70 (10)	130 (160)	
N-Nitrosodiphenylamine	2100	0	2200	ug/Kg	105				70 (73)	130 (118)	
4-Bromophenyl-phenylether	2100	0	2200	ug/Kg	105				70 (65)	130 (121)	
Hexachlorobenzene	2100	0	2200	ug/Kg	105				70 (67)	130 (118)	
Atrazine	2100	0	3000	ug/Kg	143	*			70 (79)	130 (127)	

() = LABORATORY INHOUSE LIMIT

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Pentachlorophenol	4300	0	4800	ug/Kg	112				20 (47)	160 (128)	
Phenanthrene	2100	0	2200	ug/Kg	105				70 (52)	130 (128)	
Anthracene	2100	0	2300	ug/Kg	110				70 (62)	130 (124)	
Carbazole	2100	0	2200	ug/Kg	105				70 (59)	130 (119)	
Di-n-butylphthalate	2100	0	2300	ug/Kg	110				70 (69)	130 (118)	
Fluoranthene	2100	0	2100	ug/Kg	100				70 (44)	130 (125)	
Pyrene	2100	0	2400	ug/Kg	114				70 (26)	130 (142)	
Butylbenzylphthalate	2100	0	2500	ug/Kg	119				70 (64)	130 (126)	
3,3-Dichlorobenzidine	2100	0	2000	ug/Kg	95				70 (33)	130 (116)	
Benzo(a)anthracene	2100	0	2300	ug/Kg	110				70 (71)	130 (114)	
Chrysene	2100	0	2300	ug/Kg	110				70 (57)	130 (121)	
bis(2-Ethylhexyl)phthalate	2100	0	2300	ug/Kg	110				70 (42)	130 (169)	
Di-n-octyl phthalate	2100	0	2300	ug/Kg	110				70 (23)	130 (175)	
Benzo(b)fluoranthene	2100	0	2400	ug/Kg	114				70 (67)	130 (121)	
Benzo(k)fluoranthene	2100	0	2100	ug/Kg	100				70 (57)	130 (134)	
Benzo(a)pyrene	2100	0	2500	ug/Kg	119				70 (70)	130 (142)	
Indeno(1,2,3-cd)pyrene	2100	0	2100	ug/Kg	100				70 (40)	130 (129)	
Dibenz(a,h)anthracene	2100	0	2100	ug/Kg	100				70 (43)	130 (123)	
Benzo(g,h,i)perylene	2100	0	1800	ug/Kg	86				70 (24)	130 (125)	
1,2,4,5-Tetrachlorobenzene	2100	0	2200	ug/Kg	105				70 (69)	130 (124)	
1,4-Dioxane	2100	0	2000	ug/Kg	95				20 (46)	160 (112)	
2,3,4,6-Tetrachlorophenol	2100	0	2500	ug/Kg	119				70 (69)	130 (112)	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	P4718-02MSD	Client Sample ID:	WB-307-SB02MSD					DataFile:	BF140273.D		
Benzaldehyde	2100	0	440	ug/Kg	21		0		20 (10)	160 (86)	30 (20)
Phenol	2100	0	2200	ug/Kg	105		5		20 (67)	160 (126)	30 (20)
bis(2-Chloroethyl)ether	2100	0	2200	ug/Kg	105		0		70 (54)	130 (125)	30 (20)
2-Chlorophenol	2100	0	2300	ug/Kg	110		0		70 (79)	130 (107)	30 (20)
2-Methylphenol	2100	0	2200	ug/Kg	105		5		70 (66)	130 (122)	30 (20)
2,2-oxybis(1-Chloropropane)	2100	0	2100	ug/Kg	100		5		70 (65)	130 (110)	30 (20)
Acetophenone	2100	0	2100	ug/Kg	100		0		70 (75)	130 (111)	30 (20)
3+4-Methylphenols	2100	0	2200	ug/Kg	105		0		20 (66)	160 (104)	30 (20)
N-Nitroso-di-n-propylamine	2100	0	2100	ug/Kg	100		5		70 (59)	130 (119)	30 (20)
Hexachloroethane	2100	0	2100	ug/Kg	100		0		20 (65)	160 (117)	30 (20)
Nitrobenzene	2100	0	2000	ug/Kg	95		0		70 (70)	130 (119)	30 (20)
Isophorone	2100	0	2100	ug/Kg	100		5		70 (76)	130 (122)	30 (20)
2-Nitrophenol	2100	0	2300	ug/Kg	110		4		70 (54)	130 (145)	30 (20)
2,4-Dimethylphenol	2100	0	2600	ug/Kg	124		4		70 (44)	130 (135)	30 (20)
bis(2-Chloroethoxy)methane	2100	0	2100	ug/Kg	100		0		70 (68)	130 (112)	30 (20)
2,4-Dichlorophenol	2100	0	2200	ug/Kg	105		0		70 (72)	130 (118)	30 (20)
Naphthalene	2100	0	2100	ug/Kg	100		0		70 (72)	130 (110)	30 (20)
4-Chloroaniline	2100	0	1500	ug/Kg	71		0		70 (10)	130 (91)	30 (20)
Hexachlorobutadiene	2100	0	2000	ug/Kg	95		5		70 (66)	130 (114)	30 (20)
Caprolactam	2100	0	2400	ug/Kg	114		0		20 (51)	160 (134)	30 (20)
4-Chloro-3-methylphenol	2100	0	2200	ug/Kg	105		0		70 (57)	130 (132)	30 (20)
2-Methylnaphthalene	2100	0	2200	ug/Kg	105		0		70 (59)	130 (123)	30 (20)
Hexachlorocyclopentadiene	4300	0	8100	ug/Kg	188	*	5		20 (10)	160 (175)	30 (20)
2,4,6-Trichlorophenol	2100	0	2200	ug/Kg	105		5		70 (72)	130 (117)	30 (20)
2,4,5-Trichlorophenol	2100	0	2200	ug/Kg	105		5		70 (72)	130 (117)	30 (20)
1,1-Biphenyl	2100	0	2100	ug/Kg	100		5		70 (75)	130 (113)	30 (20)
2-Chloronaphthalene	2100	0	2100	ug/Kg	100		0		70 (67)	130 (118)	30 (20)
2-Nitroaniline	2100	0	2200	ug/Kg	105		5		70 (69)	130 (127)	30 (20)
Dimethylphthalate	2100	0	2200	ug/Kg	105		5		70 (70)	130 (113)	30 (20)
Acenaphthylene	2100	0	2300	ug/Kg	110		4		70 (79)	130 (118)	30 (20)
2,6-Dinitrotoluene	2100	0	2200	ug/Kg	105		0		70 (70)	130 (125)	30 (20)
3-Nitroaniline	2100	0	1700	ug/Kg	81		6		70 (30)	130 (99)	30 (20)
Acenaphthene	2100	0	2500	ug/Kg	119		0		70 (70)	130 (121)	30 (20)
2,4-Dinitrophenol	4300	0	5000	ug/Kg	116		2		20 (10)	160 (155)	30 (20)
4-Nitrophenol	4300	0	5300	ug/Kg	123		0		20 (45)	160 (133)	30 (20)
Dibenzofuran	2100	0	2200	ug/Kg	105		5		70 (72)	130 (110)	30 (20)
2,4-Dinitrotoluene	2100	0	2300	ug/Kg	110		4		70 (55)	130 (128)	30 (20)
Diethylphthalate	2100	0	2200	ug/Kg	105		5		70 (70)	130 (112)	30 (20)
4-Chlorophenyl-phenylether	2100	0	2100	ug/Kg	100		5		70 (71)	130 (108)	30 (20)
Fluorene	2100	0	2200	ug/Kg	105		0		70 (68)	130 (116)	30 (20)
4-Nitroaniline	2100	0	2300	ug/Kg	110		4		70 (55)	130 (120)	30 (20)
4,6-Dinitro-2-methylphenol	2100	0	2500	ug/Kg	119		4		70 (10)	130 (160)	30 (20)
N-Nitrosodiphenylamine	2100	0	2200	ug/Kg	105		0		70 (73)	130 (118)	30 (20)
4-Bromophenyl-phenylether	2100	0	2200	ug/Kg	105		0		70 (65)	130 (121)	30 (20)
Hexachlorobenzene	2100	0	2100	ug/Kg	100		5		70 (67)	130 (118)	30 (20)
Atrazine	2100	0	2900	ug/Kg	138	*	4		70 (79)	130 (127)	30 (20)

() = LABORATORY INHOUSE LIMIT

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Pentachlorophenol	4300	0	4700	ug/Kg	109		3		20 (47)	160 (128)	30 (20)
Phenanthrene	2100	0	2200	ug/Kg	105		0		70 (52)	130 (128)	30 (20)
Anthracene	2100	0	2300	ug/Kg	110		0		70 (62)	130 (124)	30 (20)
Carbazole	2100	0	2200	ug/Kg	105		0		70 (59)	130 (119)	30 (20)
Di-n-butylphthalate	2100	0	2300	ug/Kg	110		0		70 (69)	130 (118)	30 (20)
Fluoranthene	2100	0	2100	ug/Kg	100		0		70 (44)	130 (125)	30 (20)
Pyrene	2100	0	2300	ug/Kg	110		4		70 (26)	130 (142)	30 (20)
Butylbenzylphthalate	2100	0	2400	ug/Kg	114		4		70 (64)	130 (126)	30 (20)
3,3-Dichlorobenzidine	2100	0	1900	ug/Kg	90		5		70 (33)	130 (116)	30 (20)
Benzo(a)anthracene	2100	0	2200	ug/Kg	105		5		70 (71)	130 (114)	30 (20)
Chrysene	2100	0	2300	ug/Kg	110		0		70 (57)	130 (121)	30 (20)
bis(2-Ethylhexyl)phthalate	2100	0	2200	ug/Kg	105		5		70 (42)	130 (169)	30 (20)
Di-n-octyl phthalate	2100	0	2200	ug/Kg	105		5		70 (23)	130 (175)	30 (20)
Benzo(b)fluoranthene	2100	0	2100	ug/Kg	100		13		70 (67)	130 (121)	30 (20)
Benzo(k)fluoranthene	2100	0	2300	ug/Kg	110		10		70 (57)	130 (134)	30 (20)
Benzo(a)pyrene	2100	0	2400	ug/Kg	114		4		70 (70)	130 (142)	30 (20)
Indeno(1,2,3-cd)pyrene	2100	0	2100	ug/Kg	100		0		70 (40)	130 (129)	30 (20)
Dibenz(a,h)anthracene	2100	0	2100	ug/Kg	100		0		70 (43)	130 (123)	30 (20)
Benzo(g,h,i)perylene	2100	0	1800	ug/Kg	86		0		70 (24)	130 (125)	30 (20)
1,2,4,5-Tetrachlorobenzene	2100	0	2100	ug/Kg	100		5		70 (69)	130 (124)	30 (20)
1,4-Dioxane	2100	0	2000	ug/Kg	95		0		20 (46)	160 (112)	30 (20)
2,3,4,6-Tetrachlorophenol	2100	0	2400	ug/Kg	114		4		70 (69)	130 (112)	30 (20)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

DataFile: BF140263.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	RPD		Limits		RPD
							Qual	Qual	Low	High	
PB164702BS	Benzaldehyde	1700	330	ug/Kg	19		*		20 (10)	160 (133)	
	Phenol	1700	1500	ug/Kg	88				20 (62)	160 (112)	
	bis(2-Chloroethyl)ether	1700	1600	ug/Kg	94				70 (60)	130 (101)	
	2-Chlorophenol	1700	1600	ug/Kg	94				70 (65)	130 (112)	
	2-Methylphenol	1700	1600	ug/Kg	94				70 (61)	130 (108)	
	2,2-oxybis(1-Chloropropane)	1700	1500	ug/Kg	88				70 (51)	130 (100)	
	Acetophenone	1700	1500	ug/Kg	88				70 (66)	130 (98)	
	3+4-Methylphenols	1700	1500	ug/Kg	88				20 (58)	160 (111)	
	N-Nitroso-di-n-propylamine	1700	1500	ug/Kg	88				70 (63)	130 (95)	
	Hexachloroethane	1700	1500	ug/Kg	88				20 (72)	160 (108)	
	Nitrobenzene	1700	1400	ug/Kg	82				70 (57)	130 (101)	
	Isophorone	1700	1600	ug/Kg	94				70 (59)	130 (99)	
	2-Nitrophenol	1700	1700	ug/Kg	100				70 (61)	130 (111)	
	2,4-Dimethylphenol	1700	1900	ug/Kg	112				70 (46)	130 (141)	
	bis(2-Chloroethoxy)methane	1700	1600	ug/Kg	94				70 (66)	130 (97)	
	2,4-Dichlorophenol	1700	1600	ug/Kg	94				70 (62)	130 (107)	
	Naphthalene	1700	1500	ug/Kg	88				70 (62)	130 (100)	
	4-Chloroaniline	1700	730	ug/Kg	43		*		70 (16)	130 (100)	
	Hexachlorobutadiene	1700	1500	ug/Kg	88				70 (53)	130 (98)	
	Caprolactam	1700	1400	ug/Kg	82				20 (67)	160 (110)	
	4-Chloro-3-methylphenol	1700	1600	ug/Kg	94				70 (58)	130 (112)	
	2-Methylnaphthalene	1700	1600	ug/Kg	94				70 (60)	130 (104)	
	Hexachlorocyclopentadiene	3300	6600	ug/Kg	200		*		20 (45)	160 (165)	
	2,4,6-Trichlorophenol	1700	1700	ug/Kg	100				70 (59)	130 (102)	
	2,4,5-Trichlorophenol	1700	1500	ug/Kg	88				70 (61)	130 (98)	
	1,1-Biphenyl	1700	1500	ug/Kg	88				70 (57)	130 (103)	
	2-Chloronaphthalene	1700	1500	ug/Kg	88				70 (58)	130 (99)	
	2-Nitroaniline	1700	1600	ug/Kg	94				70 (66)	130 (101)	
	Dimethylphthalate	1700	1600	ug/Kg	94				70 (61)	130 (99)	
	Acenaphthylene	1700	1600	ug/Kg	94				70 (63)	130 (101)	
	2,6-Dinitrotoluene	1700	1600	ug/Kg	94				70 (61)	130 (104)	
	3-Nitroaniline	1700	960	ug/Kg	56		*		70 (28)	130 (100)	
	Acenaphthene	1700	1700	ug/Kg	100				70 (57)	130 (104)	
	2,4-Dinitrophenol	3300	3100	ug/Kg	94				20 (37)	160 (128)	
	4-Nitrophenol	3300	3500	ug/Kg	106				20 (48)	160 (119)	
	Dibenzofuran	1700	1600	ug/Kg	94				70 (63)	130 (99)	
	2,4-Dinitrotoluene	1700	1600	ug/Kg	94				70 (60)	130 (106)	
	Diethylphthalate	1700	1600	ug/Kg	94				70 (60)	130 (101)	
	4-Chlorophenyl-phenylether	1700	1500	ug/Kg	88				70 (58)	130 (98)	
	Fluorene	1700	1500	ug/Kg	88				70 (61)	130 (101)	
	4-Nitroaniline	1700	1600	ug/Kg	94				70 (64)	130 (103)	
	4,6-Dinitro-2-methylphenol	1700	1700	ug/Kg	100				70 (76)	130 (113)	
	N-Nitrosodiphenylamine	1700	1600	ug/Kg	94				70 (71)	130 (99)	
	4-Bromophenyl-phenylether	1700	1600	ug/Kg	94				70 (66)	130 (102)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

DataFile: BF140263.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB164702BS	Hexachlorobenzene	1700	1600	ug/Kg	94				70 (64)	130 (98)	
	Atrazine	1700	2100	ug/Kg	124				70 (47)	130 (152)	
	Pentachlorophenol	3300	3300	ug/Kg	100				20 (67)	160 (105)	
	Phenanthrene	1700	1600	ug/Kg	94				70 (59)	130 (103)	
	Anthracene	1700	1600	ug/Kg	94				70 (61)	130 (105)	
	Carbazole	1700	1500	ug/Kg	88				70 (61)	130 (99)	
	Di-n-butylphthalate	1700	1600	ug/Kg	94				70 (58)	130 (104)	
	Fluoranthene	1700	1600	ug/Kg	94				70 (57)	130 (107)	
	Pyrene	1700	1600	ug/Kg	94				70 (59)	130 (103)	
	Butylbenzylphthalate	1700	1800	ug/Kg	106				70 (55)	130 (103)	
	3,3-Dichlorobenzidine	1700	1200	ug/Kg	71				70 (42)	130 (91)	
	Benzo(a)anthracene	1700	1600	ug/Kg	94				70 (60)	130 (102)	
	Chrysene	1700	1600	ug/Kg	94				70 (59)	130 (101)	
	bis(2-Ethylhexyl)phthalate	1700	1700	ug/Kg	100				70 (54)	130 (135)	
	Di-n-octyl phthalate	1700	1800	ug/Kg	106				70 (52)	130 (137)	
	Benzo(b)fluoranthene	1700	1700	ug/Kg	100				70 (62)	130 (109)	
	Benzo(k)fluoranthene	1700	1600	ug/Kg	94				70 (62)	130 (109)	
	Benzo(a)pyrene	1700	1700	ug/Kg	100				70 (63)	130 (103)	
	Indeno(1,2,3-cd)pyrene	1700	1700	ug/Kg	100				70 (63)	130 (101)	
	Dibenz(a,h)anthracene	1700	1600	ug/Kg	94				70 (61)	130 (112)	
	Benzo(g,h,i)perylene	1700	1500	ug/Kg	88				70 (70)	130 (108)	
	1,2,4,5-Tetrachlorobenzene	1700	1500	ug/Kg	88				70 (53)	130 (101)	
	1,4-Dioxane	1700	1200	ug/Kg	71				20 (50)	160 (96)	
	2,3,4,6-Tetrachlorophenol	1700	1700	ug/Kg	100				70 (59)	130 (108)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

DataFile: BF140446.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	RPD		Limits		RPD
							Qual	Qual	Low	High	
PB164846BS	Benzaldehyde	50	0	ug/L	0		*		20 (10)	160 (162)	
	Phenol	50	40.0	ug/L	80				20 (66)	160 (118)	
	bis(2-Chloroethyl)ether	50	42.6	ug/L	85				70 (62)	130 (103)	
	2-Chlorophenol	50	43.4	ug/L	87				70 (70)	130 (117)	
	2-Methylphenol	50	41.8	ug/L	84				70 (69)	130 (109)	
	2,2-oxybis(1-Chloropropane)	50	41.0	ug/L	82				70 (65)	130 (100)	
	Acetophenone	50	40.3	ug/L	81				70 (60)	130 (104)	
	3+4-Methylphenols	50	40.3	ug/L	81				20 (67)	160 (106)	
	N-Nitroso-di-n-propylamine	50	40.4	ug/L	81				70 (57)	130 (107)	
	Hexachloroethane	50	41.9	ug/L	84				20 (76)	160 (118)	
	Nitrobenzene	50	39.3	ug/L	79				70 (58)	130 (106)	
	Isophorone	50	41.1	ug/L	82				70 (61)	130 (102)	
	2-Nitrophenol	50	42.9	ug/L	86				70 (70)	130 (115)	
	2,4-Dimethylphenol	50	50.3	ug/L	101				70 (42)	130 (142)	
	bis(2-Chloroethoxy)methane	50	41.0	ug/L	82				70 (58)	130 (109)	
	2,4-Dichlorophenol	50	42.2	ug/L	84				70 (66)	130 (115)	
	Naphthalene	50	40.5	ug/L	81				70 (64)	130 (107)	
	4-Chloroaniline	50	32.4	ug/L	65		*		70 (10)	130 (85)	
	Hexachlorobutadiene	50	40.4	ug/L	81				70 (69)	130 (101)	
	Caprolactam	50	41.6	ug/L	83				20 (58)	160 (128)	
	4-Chloro-3-methylphenol	50	41.8	ug/L	84				70 (65)	130 (114)	
	2-Methylnaphthalene	50	41.1	ug/L	82				70 (64)	130 (107)	
	Hexachlorocyclopentadiene	100	170	ug/L	170		*		20 (36)	160 (160)	
	2,4,6-Trichlorophenol	50	42.2	ug/L	84				70 (61)	130 (110)	
	2,4,5-Trichlorophenol	50	41.3	ug/L	83				70 (70)	130 (106)	
	1,1-Biphenyl	50	41.5	ug/L	83				70 (72)	130 (98)	
	2-Chloronaphthalene	50	40.8	ug/L	82				70 (59)	130 (106)	
	2-Nitroaniline	50	42.8	ug/L	86				70 (73)	130 (114)	
	Dimethylphthalate	50	43.1	ug/L	86				70 (64)	130 (103)	
	Acenaphthylene	50	44.4	ug/L	89				70 (79)	130 (103)	
	2,6-Dinitrotoluene	50	41.5	ug/L	83				70 (64)	130 (110)	
	3-Nitroaniline	50	33.3	ug/L	67		*		70 (28)	130 (100)	
	Acenaphthene	50	47.2	ug/L	94				70 (59)	130 (113)	
	2,4-Dinitrophenol	100	90.8	ug/L	91				20 (36)	160 (166)	
	4-Nitrophenol	100	82.6	ug/L	83				20 (45)	160 (147)	
	Dibenzofuran	50	42.1	ug/L	84				70 (65)	130 (106)	
	2,4-Dinitrotoluene	50	42.2	ug/L	84				70 (60)	130 (115)	
	Diethylphthalate	50	42.3	ug/L	85				70 (63)	130 (105)	
	4-Chlorophenyl-phenylether	50	41.5	ug/L	83				70 (61)	130 (104)	
	Fluorene	50	41.6	ug/L	83				70 (64)	130 (107)	
	4-Nitroaniline	50	40.6	ug/L	81				70 (55)	130 (125)	
	4,6-Dinitro-2-methylphenol	50	48.2	ug/L	96				70 (62)	130 (132)	
	N-Nitrosodiphenylamine	50	43.8	ug/L	88				70 (61)	130 (109)	
	4-Bromophenyl-phenylether	50	43.4	ug/L	87				70 (73)	130 (103)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

DataFile: BF140446.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB164846BS	Hexachlorobenzene	50	43.7	ug/L	87				70 (73)	130 (106)	
	Atrazine	50	36.8	ug/L	74				70 (76)	130 (120)	
	Pentachlorophenol	100	84.8	ug/L	85				20 (47)	160 (114)	
	Phenanthrene	50	43.3	ug/L	87				70 (62)	130 (109)	
	Anthracene	50	45.3	ug/L	91				70 (65)	130 (110)	
	Carbazole	50	42.1	ug/L	84				70 (62)	130 (106)	
	Di-n-butylphthalate	50	44.0	ug/L	88				70 (64)	130 (106)	
	Fluoranthene	50	41.3	ug/L	83				70 (64)	130 (110)	
	Pyrene	50	49.1	ug/L	98				70 (71)	130 (103)	
	Butylbenzylphthalate	50	50.2	ug/L	100				70 (61)	130 (105)	
	3,3-Dichlorobenzidine	50	38.4	ug/L	77				70 (43)	130 (108)	
	Benzo(a)anthracene	50	45.2	ug/L	90				70 (62)	130 (107)	
	Chrysene	50	44.6	ug/L	89				70 (61)	130 (108)	
	bis(2-Ethylhexyl)phthalate	50	48.6	ug/L	97				70 (59)	130 (110)	
	Di-n-octyl phthalate	50	45.1	ug/L	90				70 (52)	130 (139)	
	Benzo(b)fluoranthene	50	40.7	ug/L	81				70 (77)	130 (113)	
	Benzo(k)fluoranthene	50	41.3	ug/L	83				70 (77)	130 (105)	
	Benzo(a)pyrene	50	47.0	ug/L	94				70 (72)	130 (131)	
	Indeno(1,2,3-cd)pyrene	50	50.0	ug/L	100				70 (72)	130 (105)	
	Dibenz(a,h)anthracene	50	49.5	ug/L	99				70 (78)	130 (115)	
	Benzo(g,h,i)perylene	50	44.8	ug/L	90				70 (75)	130 (118)	
	1,2,4,5-Tetrachlorobenzene	50	42.0	ug/L	84				70 (72)	130 (101)	
	1,4-Dioxane	50	34.4	ug/L	69				20 (38)	160 (125)	
	2,3,4,6-Tetrachlorophenol	50	45.4	ug/L	91				70 (63)	130 (116)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

DataFile: BF140447.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	RPD		Low	Limits	
							Qual	Qual		High	RPD
PB164846BSD	Benzaldehyde	50	7.20	ug/L	14	200	*	*	20 (10)	160 (162)	20 (20)
	Phenol	50	43.3	ug/L	87	8			20 (66)	160 (118)	20 (20)
	bis(2-Chloroethyl)ether	50	45.8	ug/L	92	7			70 (62)	130 (103)	20 (20)
	2-Chlorophenol	50	46.9	ug/L	94	8			70 (70)	130 (117)	20 (20)
	2-Methylphenol	50	45.5	ug/L	91	8			70 (69)	130 (109)	20 (20)
	2,2-oxybis(1-Chloropropane)	50	44.4	ug/L	89	8			70 (65)	130 (100)	20 (20)
	Acetophenone	50	43.9	ug/L	88	9			70 (60)	130 (104)	20 (20)
	3+4-Methylphenols	50	45.0	ug/L	90	11			20 (67)	160 (106)	20 (20)
	N-Nitroso-di-n-propylamine	50	44.3	ug/L	89	9			70 (57)	130 (107)	20 (20)
	Hexachloroethane	50	44.8	ug/L	90	7			20 (76)	160 (118)	20 (20)
	Nitrobenzene	50	42.9	ug/L	86	9			70 (58)	130 (106)	20 (20)
	Isophorone	50	44.8	ug/L	90	9			70 (61)	130 (102)	20 (20)
	2-Nitrophenol	50	46.9	ug/L	94	9			70 (70)	130 (115)	20 (20)
	2,4-Dimethylphenol	50	54.8	ug/L	110	9			70 (42)	130 (142)	20 (20)
	bis(2-Chloroethoxy)methane	50	45.0	ug/L	90	9			70 (58)	130 (109)	20 (20)
	2,4-Dichlorophenol	50	45.5	ug/L	91	8			70 (66)	130 (115)	20 (20)
	Naphthalene	50	43.9	ug/L	88	8			70 (64)	130 (107)	20 (20)
	4-Chloroaniline	50	22.3	ug/L	45	37	*	*	70 (10)	130 (85)	20 (20)
	Hexachlorobutadiene	50	43.7	ug/L	87	8			70 (69)	130 (101)	20 (20)
	Caprolactam	50	43.8	ug/L	88	5			20 (58)	160 (128)	20 (20)
	4-Chloro-3-methylphenol	50	44.8	ug/L	90	7			70 (65)	130 (114)	20 (20)
	2-Methylnaphthalene	50	44.8	ug/L	90	9			70 (64)	130 (107)	20 (20)
	Hexachlorocyclopentadiene	100	180	ug/L	180	6	*		20 (36)	160 (160)	20 (20)
	2,4,6-Trichlorophenol	50	45.8	ug/L	92	8			70 (61)	130 (110)	20 (20)
	2,4,5-Trichlorophenol	50	44.3	ug/L	89	7			70 (70)	130 (106)	20 (20)
	1,1-Biphenyl	50	45.0	ug/L	90	8			70 (72)	130 (98)	20 (20)
	2-Chloronaphthalene	50	44.1	ug/L	88	8			70 (59)	130 (106)	20 (20)
	2-Nitroaniline	50	45.2	ug/L	90	5			70 (73)	130 (114)	20 (20)
	Dimethylphthalate	50	46.0	ug/L	92	7			70 (64)	130 (103)	20 (20)
	Acenaphthylene	50	48.2	ug/L	96	8			70 (79)	130 (103)	20 (20)
	2,6-Dinitrotoluene	50	43.2	ug/L	86	4			70 (64)	130 (110)	20 (20)
	3-Nitroaniline	50	28.4	ug/L	57	16	*		70 (28)	130 (100)	20 (20)
	Acenaphthene	50	51.0	ug/L	102	8			70 (59)	130 (113)	20 (20)
	2,4-Dinitrophenol	100	97.0	ug/L	97	7			20 (36)	160 (166)	20 (20)
	4-Nitrophenol	100	87.7	ug/L	88	6			20 (45)	160 (147)	20 (20)
	Dibenzofuran	50	45.4	ug/L	91	8			70 (65)	130 (106)	20 (20)
	2,4-Dinitrotoluene	50	45.6	ug/L	91	8			70 (60)	130 (115)	20 (20)
	Diethylphthalate	50	45.3	ug/L	91	7			70 (63)	130 (105)	20 (20)
	4-Chlorophenyl-phenylether	50	44.6	ug/L	89	7			70 (61)	130 (104)	20 (20)
	Fluorene	50	44.4	ug/L	89	7			70 (64)	130 (107)	20 (20)
	4-Nitroaniline	50	43.8	ug/L	88	8			70 (55)	130 (125)	20 (20)
	4,6-Dinitro-2-methylphenol	50	50.4	ug/L	101	4			70 (62)	130 (132)	20 (20)
	N-Nitrosodiphenylamine	50	45.9	ug/L	92	5			70 (61)	130 (109)	20 (20)
	4-Bromophenyl-phenylether	50	45.1	ug/L	90	4			70 (73)	130 (103)	20 (20)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

DataFile: BF140447.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	RPD		Limits		
							Qual	Qual	Low	High	RPD
PB164846BSD	Hexachlorobenzene	50	45.4	ug/L	91	4			70 (73)	130 (106)	20 (20)
	Atrazine	50	51.5	ug/L	103	33		*	70 (76)	130 (120)	20 (20)
	Pentachlorophenol	100	87.7	ug/L	88	3			20 (47)	160 (114)	20 (20)
	Phenanthrene	50	45.9	ug/L	92	6			70 (62)	130 (109)	20 (20)
	Anthracene	50	47.8	ug/L	96	5			70 (65)	130 (110)	20 (20)
	Carbazole	50	44.7	ug/L	89	6			70 (62)	130 (106)	20 (20)
	Di-n-butylphthalate	50	46.1	ug/L	92	5			70 (64)	130 (106)	20 (20)
	Fluoranthene	50	44.4	ug/L	89	7			70 (64)	130 (110)	20 (20)
	Pyrene	50	49.3	ug/L	99	0			70 (71)	130 (103)	20 (20)
	Butylbenzylphthalate	50	51.6	ug/L	103	3			70 (61)	130 (105)	20 (20)
	3,3-Dichlorobenzidine	50	30.8	ug/L	62	22	*	*	70 (43)	130 (108)	20 (20)
	Benzo(a)anthracene	50	46.6	ug/L	93	3			70 (62)	130 (107)	20 (20)
	Chrysene	50	47.4	ug/L	95	6			70 (61)	130 (108)	20 (20)
	bis(2-Ethylhexyl)phthalate	50	50.2	ug/L	100	3			70 (59)	130 (110)	20 (20)
	Di-n-octyl phthalate	50	47.9	ug/L	96	6			70 (52)	130 (139)	20 (20)
	Benzo(b)fluoranthene	50	40.2	ug/L	80	1			70 (77)	130 (113)	20 (20)
	Benzo(k)fluoranthene	50	49.2	ug/L	98	17			70 (77)	130 (105)	20 (20)
	Benzo(a)pyrene	50	49.9	ug/L	100	6			70 (72)	130 (131)	20 (20)
	Indeno(1,2,3-cd)pyrene	50	52.0	ug/L	104	4			70 (72)	130 (105)	20 (20)
	Dibenz(a,h)anthracene	50	51.3	ug/L	103	4			70 (78)	130 (115)	20 (20)
	Benzo(g,h,i)perylene	50	46.8	ug/L	94	4			70 (75)	130 (118)	20 (20)
	1,2,4,5-Tetrachlorobenzene	50	45.4	ug/L	91	8			70 (72)	130 (101)	20 (20)
	1,4-Dioxane	50	38.4	ug/L	77	11			20 (38)	160 (125)	20 (20)
	2,3,4,6-Tetrachlorophenol	50	47.7	ug/L	95	5			70 (63)	130 (116)	20 (20)

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164702BL

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: P4718

SAS No.: P4718 SDG NO.: P4718

Lab File ID: BF140262.D

Lab Sample ID: PB164702BL

Instrument ID: BNA_F

Date Extracted: 11/06/2024

Matrix: (soil/water) SOIL

Date Analyzed: 11/07/2024

Level: (low/med) LOW

Time Analyzed: 09:28

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB164702BS	PB164702BS	BF140263.D	11/07/2024
WB-307-SB02MS	P4718-02MS	BF140272.D	11/07/2024
WB-307-SB02MSD	P4718-02MSD	BF140273.D	11/07/2024
WB-307-SB01	P4718-01	BF140270.D	11/07/2024
WB-307-SB02	P4718-02	BF140271.D	11/07/2024

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164846BL

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: P4718

SAS No.: P4718 SDG NO.: P4718

Lab File ID: BF140367.D

Lab Sample ID: PB164846BL

Instrument ID: BNA_F

Date Extracted: 11/09/2024

Matrix: (soil/water) Water

Date Analyzed: 11/14/2024

Level: (low/med) LOW

Time Analyzed: 17:28

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB164846BS	PB164846BS	BF140446.D	11/18/2024
PB164846BSD	PB164846BSD	BF140447.D	11/18/2024
WB-307-SW	P4718-04	BF140363.D	11/14/2024

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: PORT06Lab Code: CHEMSAS No.: P4718 SDG NO.: P4718Lab File ID: BF140230.DDFTPP Injection Date: 11/05/2024Instrument ID: BNA_FDFTPP Injection Time: 11:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.4
68	Less than 2.0% of mass 69	0.6 (1.6) 1
69	Mass 69 relative abundance	36.6
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	45.5
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	27.8
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	15.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19 (19) 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	BF140231.D	11/05/2024	12:26
SSTDICC005	SSTDICC005	BF140232.D	11/05/2024	12:52
SSTDICC010	SSTDICC010	BF140233.D	11/05/2024	13:18
SSTDICC020	SSTDICC020	BF140234.D	11/05/2024	13:45
SSTDICCC040	SSTDICCC040	BF140235.D	11/05/2024	14:11
SSTDICC050	SSTDICC050	BF140236.D	11/05/2024	14:37
SSTDICC060	SSTDICC060	BF140237.D	11/05/2024	15:03
SSTDICC080	SSTDICC080	BF140238.D	11/05/2024	15:30



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: PORT06Lab Code: CHEMSAS No.: P4718 SDG NO.: P4718Lab File ID: BF140260.DDFTPP Injection Date: 11/07/2024Instrument ID: BNA_FDFTPP Injection Time: 08:33

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	35.9
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	35.3
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	44.4
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	28.1
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	15.1
442	Greater than 50% of mass 198	98.8
443	15.0 - 24.0% of mass 442	19.4 (19.6) 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	BF140261.D	11/07/2024	08:59
PB164702BL	PB164702BL	BF140262.D	11/07/2024	09:28
PB164702BS	PB164702BS	BF140263.D	11/07/2024	09:54
WB-307-SB01	P4718-01	BF140270.D	11/07/2024	13:07
WB-307-SB02	P4718-02	BF140271.D	11/07/2024	13:33
WB-307-SB02MS	P4718-02MS	BF140272.D	11/07/2024	14:00
WB-307-SB02MSD	P4718-02MSD	BF140273.D	11/07/2024	14:27



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: PORT06Lab Code: CHEMSAS No.: P4718 SDG NO.: P4718Lab File ID: BF140331.DDFTPP Injection Date: 11/13/2024Instrument ID: BNA_FDFTPP Injection Time: 08:35

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.9
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	38
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	48.6
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	6.4
275	10.0 - 60.0% of mass 198	28.3
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	14
442	Greater than 50% of mass 198	88.6
443	15.0 - 24.0% of mass 442	16.7 (18.8) 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	BF140332.D	11/13/2024	09:01
SSTDICC005	SSTDICC005	BF140333.D	11/13/2024	09:27
SSTDICC010	SSTDICC010	BF140334.D	11/13/2024	09:53
SSTDICC020	SSTDICC020	BF140335.D	11/13/2024	10:29
SSTDICC050	SSTDICC050	BF140337.D	11/13/2024	11:21
SSTDICC060	SSTDICC060	BF140338.D	11/13/2024	11:47
SSTDICC080	SSTDICC080	BF140339.D	11/13/2024	12:13
SSTDICCC040	SSTDICCC040	BF140340.D	11/13/2024	12:48



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: PORT06Lab Code: CHEMSAS No.: P4718 SDG NO.: P4718Lab File ID: BF140350.DDFTPP Injection Date: 11/14/2024Instrument ID: BNA_FDFTPP Injection Time: 08:47

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	37.6
68	Less than 2.0% of mass 69	0.7 (1.7) 1
69	Mass 69 relative abundance	38.3
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	48.5
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	27.6
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	13.9
442	Greater than 50% of mass 198	88.9
443	15.0 - 24.0% of mass 442	16 (18) 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	BF140351.D	11/14/2024	09:42
WB-307-SW	P4718-04	BF140363.D	11/14/2024	15:39



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: PORT06Lab Code: CHEMSAS No.: P4718 SDG NO.: P4718Lab File ID: BF140365.DDFTPP Injection Date: 11/14/2024Instrument ID: BNA_FDFTPP Injection Time: 16:35

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.3
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	39.7
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	48.6
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	6.6
275	10.0 - 60.0% of mass 198	28.2
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	12.8
442	Greater than 50% of mass 198	82.7
443	15.0 - 24.0% of mass 442	15.3 (18.4) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140366.D	11/14/2024	17:02
PB164846BL	PB164846BL	BF140367.D	11/14/2024	17:28



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: PORT06Lab Code: CHEMSAS No.: P4718 SDG NO.: P4718Lab File ID: BF140442.DDFTPP Injection Date: 11/18/2024Instrument ID: BNA_FDFTPP Injection Time: 09:18

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	35.3
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	36.9
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	48.2
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	28.7
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	15.3
442	Greater than 50% of mass 198	97.5
443	15.0 - 24.0% of mass 442	18.1 (18.5) 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	BF140443.D	11/18/2024	10:13
PB164846BS	PB164846BS	BF140446.D	11/18/2024	11:32
PB164846BSD	PB164846BSD	BF140447.D	11/18/2024	11:58

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/07/2024

Lab File ID: BF140261.D Time Analyzed: 08:59

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	194677	6.881	715714	8.16	419359	9.92
UPPER LIMIT	389354	7.381	1431430	8.663	838718	10.422
LOWER LIMIT	97338.5	6.381	357857	7.663	209680	9.422
EPA SAMPLE NO.						
01 WB-307-SB01	127578	6.88	477012	8.16	268251	9.92
02 WB-307-SB02	123660	6.88	467420	8.16	268928	9.91
03 WB-307-SB02MS	123564	6.88	474391	8.16	274410	9.92
04 WB-307-SB02MSD	124801	6.88	475239	8.16	277394	9.92
05 PB164702BL	166392	6.88	650819	8.16	391148	9.92
06 PB164702BS	189444	6.88	717811	8.16	420554	9.92

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/07/2024

Lab File ID: BF140261.D Time Analyzed: 08:59

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	752975	11.41	445081	14.069	403199	15.574
UPPER LIMIT	1505950	11.91	890162	14.569	806398	16.074
LOWER LIMIT	376488	10.91	222541	13.569	201600	15.074
EPA SAMPLE NO.						
01 WB-307-SB01	494200	11.40	284643	14.05	292875	15.56
02 WB-307-SB02	499705	11.40	296704	14.05	275946	15.56
03 WB-307-SB02MS	511867	11.41	275517	14.06	287359	15.58
04 WB-307-SB02MSD	516198	11.41	284018	14.07	293574	15.59
05 PB164702BL	728833	11.40	449594	14.06	367483	15.57
06 PB164702BS	766202	11.41	449132	14.06	405153	15.56

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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/14/2024

Lab File ID: BF140351.D Time Analyzed: 09:42

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	138532	6.881	520272	8.16	291630	9.92
UPPER LIMIT	277064	7.381	1040540	8.657	583260	10.416
LOWER LIMIT	69266	6.381	260136	7.657	145815	9.416
EPA SAMPLE NO.						
01 WB-307-SW	137046	6.87	514015	8.15	280819	9.90

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/14/2024

Lab File ID: BF140351.D Time Analyzed: 09:42

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	549011	11.404	316250	14.057	275847	15.557
UPPER LIMIT	1098020	11.904	632500	14.557	551694	16.057
LOWER LIMIT	274506	10.904	158125	13.557	137924	15.057
EPA SAMPLE NO.						
01 WB-307-SW	486241	11.39	241422	14.05	265329	15.56

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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/14/2024

Lab File ID: BF140366.D Time Analyzed: 17:02

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	130579	6.875	484942	8.16	265027	9.91
UPPER LIMIT	261158	7.375	969884	8.657	530054	10.41
LOWER LIMIT	65289.5	6.375	242471	7.657	132514	9.41
EPA SAMPLE NO.						
01 PB164846BL	127444	6.87	481597	8.15	267971	9.90

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/14/2024

Lab File ID: BF140366.D Time Analyzed: 17:02

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	494420	11.398	287889	14.062	258896	15.592
UPPER LIMIT	988840	11.898	575778	14.562	517792	16.092
LOWER LIMIT	247210	10.898	143945	13.562	129448	15.092
EPA SAMPLE NO.						
01 PB164846BL	519861	11.39	353605	14.06	317877	15.59

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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/18/2024

Lab File ID: BF140443.D Time Analyzed: 10:13

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	140634	6.875	521097	8.16	286394	9.92
UPPER LIMIT	281268	7.375	1042190	8.657	572788	10.416
LOWER LIMIT	70317	6.375	260549	7.657	143197	9.416
EPA SAMPLE NO.						
01 PB164846BS	165160	6.88	638782	8.16	347317	9.92
02 PB164846BSD	145420	6.88	559684	8.16	308958	9.92

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/18/2024

Lab File ID: BF140443.D Time Analyzed: 10:13

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	525142	11.404	270046	14.074	249102	15.604
UPPER LIMIT	1050280	11.904	540092	14.574	498204	16.104
LOWER LIMIT	262571	10.904	135023	13.574	124551	15.104
EPA SAMPLE NO.						
01 PB164846BS	636734	11.40	331814	14.06	309689	15.56
02 PB164846BSD	581243	11.40	325114	14.05	284093	15.55

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB01	SDG No.:	P4718
Lab Sample ID:	P4718-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	78
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
BF140270.D	1	11/06/24 09:45	11/07/24 13:07	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	230	UQ	230	420	ug/Kg
108-95-2	Phenol	110	U	110	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	110	U	110	220	ug/Kg
95-57-8	2-Chlorophenol	110	U	110	220	ug/Kg
95-48-7	2-Methylphenol	100	U	100	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	120	U	120	220	ug/Kg
98-86-2	Acetophenone	110	U	110	220	ug/Kg
65794-96-9	3+4-Methylphenols	100	U	100	420	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	51.6	U	51.6	100	ug/Kg
67-72-1	Hexachloroethane	110	U	110	220	ug/Kg
98-95-3	Nitrobenzene	120	U	120	220	ug/Kg
78-59-1	Isophorone	110	U	110	220	ug/Kg
88-75-5	2-Nitrophenol	120	U	120	220	ug/Kg
105-67-9	2,4-Dimethylphenol	120	U	120	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	110	U	110	220	ug/Kg
120-83-2	2,4-Dichlorophenol	96.7	U	96.7	220	ug/Kg
91-20-3	Naphthalene	110	U	110	220	ug/Kg
106-47-8	4-Chloroaniline	110	UQ	110	220	ug/Kg
87-68-3	Hexachlorobutadiene	110	U	110	220	ug/Kg
105-60-2	Caprolactam	110	U	110	420	ug/Kg
59-50-7	4-Chloro-3-methylphenol	99.3	U	99.3	220	ug/Kg
91-57-6	2-Methylnaphthalene	110	U	110	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	200	UQ	200	420	ug/Kg
88-06-2	2,4,6-Trichlorophenol	91.4	U	91.4	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	94.8	U	94.8	220	ug/Kg
92-52-4	1,1-Biphenyl	110	U	110	220	ug/Kg
91-58-7	2-Chloronaphthalene	110	U	110	220	ug/Kg
88-74-4	2-Nitroaniline	120	U	120	220	ug/Kg
131-11-3	Dimethylphthalate	100	U	100	220	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB01	SDG No.:	P4718
Lab Sample ID:	P4718-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	78
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
BF140270.D	1	11/06/24 09:45	11/07/24 13:07	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	110	U	110	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	110	U	110	220	ug/Kg
99-09-2	3-Nitroaniline	110	UQ	110	220	ug/Kg
83-32-9	Acenaphthene	100	U	100	220	ug/Kg
51-28-5	2,4-Dinitrophenol	310	U	310	420	ug/Kg
100-02-7	4-Nitrophenol	150	U	150	420	ug/Kg
132-64-9	Dibenzofuran	110	U	110	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	110	U	110	220	ug/Kg
84-66-2	Diethylphthalate	100	U	100	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	110	U	110	220	ug/Kg
86-73-7	Fluorene	110	U	110	220	ug/Kg
100-01-6	4-Nitroaniline	140	U	140	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	150	U	150	420	ug/Kg
86-30-6	n-Nitrosodiphenylamine	100	U	100	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	100	U	100	220	ug/Kg
118-74-1	Hexachlorobenzene	110	U	110	220	ug/Kg
1912-24-9	Atrazine	120	U	120	220	ug/Kg
87-86-5	Pentachlorophenol	99.0	U	99.0	420	ug/Kg
85-01-8	Phenanthrene	110	U	110	220	ug/Kg
120-12-7	Anthracene	110	U	110	220	ug/Kg
86-74-8	Carbazole	100	U	100	220	ug/Kg
84-74-2	Di-n-butylphthalate	110	U	110	220	ug/Kg
206-44-0	Fluoranthene	100	U	100	220	ug/Kg
129-00-0	Pyrene	110	U	110	220	ug/Kg
85-68-7	Butylbenzylphthalate	120	U	120	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	130	U	130	420	ug/Kg
56-55-3	Benzo(a)anthracene	100	U	100	220	ug/Kg
218-01-9	Chrysene	100	U	100	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	120	U	120	220	ug/Kg
117-84-0	Di-n-octyl phthalate	140	U	140	420	ug/Kg
205-99-2	Benzo(b)fluoranthene	100	U	100	220	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB01	SDG No.:	P4718
Lab Sample ID:	P4718-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	78
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
BF140270.D	1	11/06/24 09:45	11/07/24 13:07	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	110	U	110	220	ug/Kg
50-32-8	Benzo(a)pyrene	120	U	120	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	100	U	100	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	100	U	100	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	100	U	100	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	110	U	110	220	ug/Kg
123-91-1	1,4-Dioxane	140	U	140	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	95.7	U	95.7	220	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	135		30 (18) - 130 (112)	90%	SPK: 150
13127-88-3	Phenol-d6	134		30 (15) - 130 (107)	90%	SPK: 150
4165-60-0	Nitrobenzene-d5	90.3		30 (18) - 130 (107)	90%	SPK: 100
321-60-8	2-Fluorobiphenyl	82.9		30 (20) - 130 (109)	83%	SPK: 100
118-79-6	2,4,6-Tribromophenol	151		30 (10) - 130 (116)	101%	SPK: 150
1718-51-0	Terphenyl-d14	80.7		30 (10) - 130 (105)	81%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	128000	6.875
1146-65-2	Naphthalene-d8	477000	8.157
15067-26-2	Acenaphthene-d10	268000	9.916
1517-22-2	Phenanthrene-d10	494000	11.404
1719-03-5	Chrysene-d12	285000	14.051
1520-96-3	Perylene-d12	293000	15.563

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	3700	JB	2.16	ug/Kg
004744-10-9	Propane, 1,1-dimethoxy-	130	J	2.27	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	870	AB	5.10	ug/Kg
066660-43-3	trans, cis-3-Ethylbicyclo[4.4.0]de	100	J	8.45	ug/Kg
1000309-19-6	Sulfurous acid, 2-ethylhexyl tride	180	J	8.57	ug/Kg
000629-50-5	Tridecane	700	J	8.74	ug/Kg
	unknown8.804	160	J	8.80	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB01	SDG No.:	P4718
Lab Sample ID:	P4718-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	78
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
BF140270.D	1	11/06/24 09:45	11/07/24 13:07	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
017312-73-1	Undecane, 5,5-dimethyl-	150	J		8.84	ug/Kg
	unknown9.034	230	J		9.03	ug/Kg
013187-99-0	2-Bromo dodecane	190	J		9.11	ug/Kg
001002-43-3	Undecane, 3-methyl-	150	J		9.15	ug/Kg
003891-98-3	Dodecane, 2,6,10-trimethyl-	550	J		9.18	ug/Kg
000629-59-4	Tetradecane	1700	J		9.31	ug/Kg
000629-99-2	Pentacosane	680	J		9.63	ug/Kg
000629-62-9	Pentadecane	730	J		9.84	ug/Kg
006165-40-8	Pentadecane, 7-methyl-	130	J		10.3	ug/Kg
000119-61-9	Benzophenone	380	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	550	J		11.9	ug/Kg
000112-80-1	Oleic Acid	120	J		12.6	ug/Kg
959010-23-2	Trifluoroacetic acid, pentadecyl e	240	J		13.9	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\BF110724\
Data File : BF140270.D
Acq On : 07 Nov 2024 13:07
Operator : RC/JU
Sample : P4718-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB01

Quant Time: Nov 07 13:36:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 16:47:56 2024
Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	127578	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	477012	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	268251	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	494200	20.000	ng	0.00
76) Chrysene-d12	14.051	240	284643	20.000	ng	-0.01
86) Perylene-d12	15.563	264	292875	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	1041303	135.263	ng	0.00
7) Phenol-d6	6.498	99	1329491	134.265	ng	0.00
23) Nitrobenzene-d5	7.434	82	866808	90.346	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	400726	151.131	ng	0.00
45) 2-Fluorobiphenyl	9.234	172	1391908	82.855	ng	0.00
79) Terphenyl-d14	12.992	244	1402027	80.687	ng	0.00

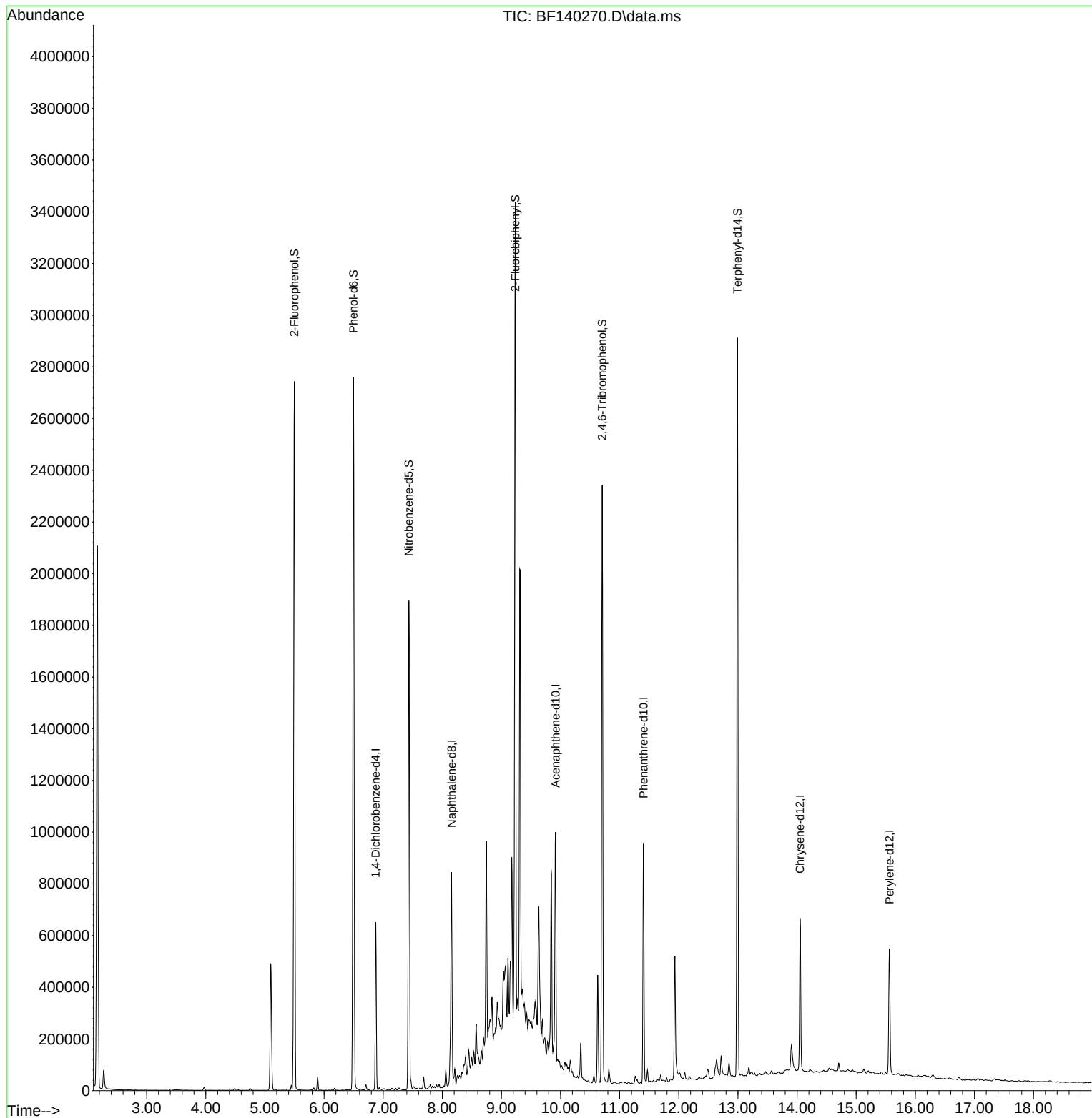
Target Compounds	Qvalue

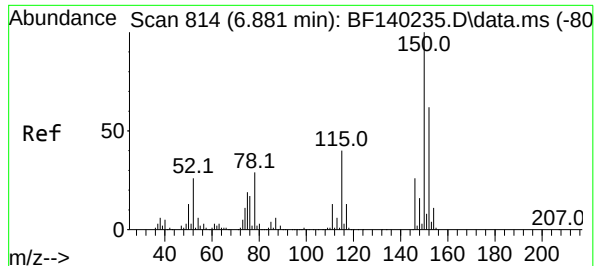
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140270.D
Acq On : 07 Nov 2024 13:07
Operator : RC/JU
Sample : P4718-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB01

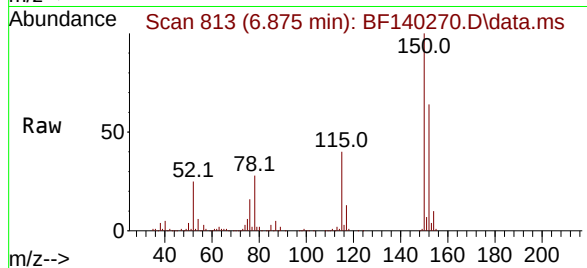
Quant Time: Nov 07 13:36:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 16:47:56 2024
Response via : Initial Calibration



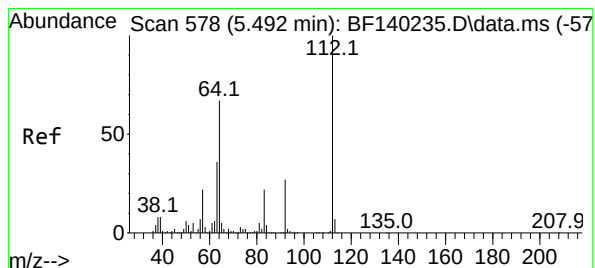
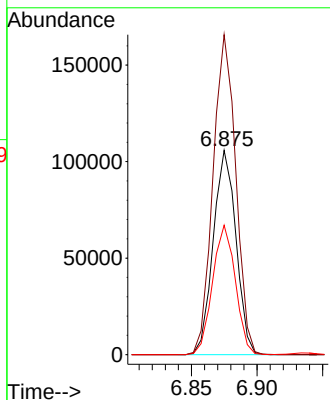
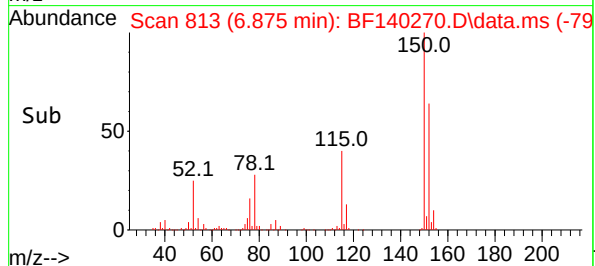


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 814
Delta R.T. -0.006 min
Lab File: BF140270.D
Acq: 07 Nov 2024 13:07

Instrument :
BNA_F
ClientSampleId :
WB-307-SB01

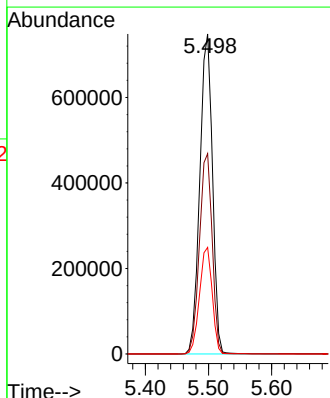
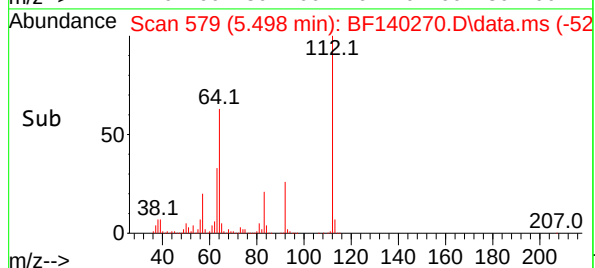
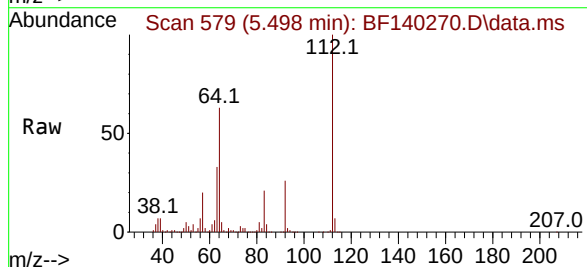


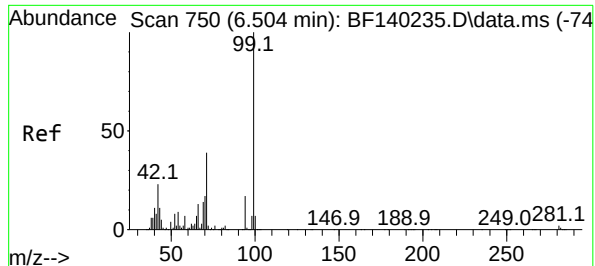
Tgt Ion:152 Resp: 127578
Ion Ratio Lower Upper
152 100
150 156.6 129.4 194.2
115 63.4 51.5 77.3



#5
2-Fluorophenol
Concen: 135.263 ng
RT: 5.498 min Scan# 579
Delta R.T. 0.006 min
Lab File: BF140270.D
Acq: 07 Nov 2024 13:07

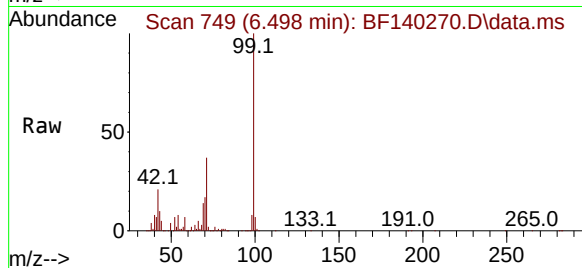
Tgt Ion:112 Resp: 1041303
Ion Ratio Lower Upper
112 100
64 62.6 53.4 80.2
63 33.3 28.9 43.3



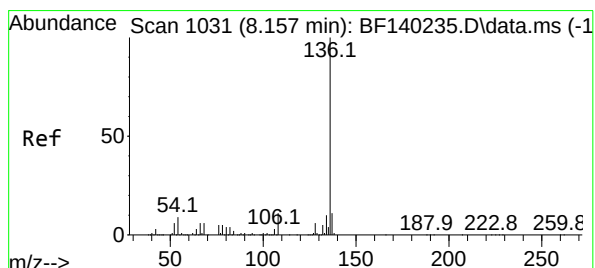
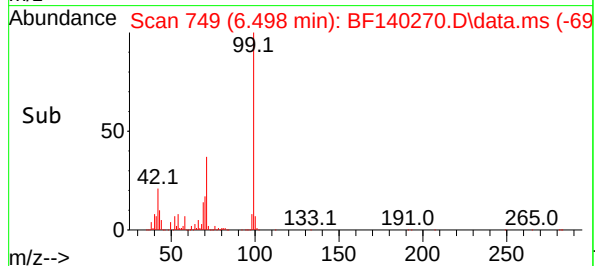
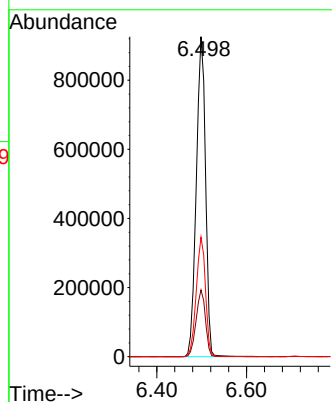


#7
Phenol-d6
Concen: 134.265 ng
RT: 6.498 min Scan# 749
Delta R.T. -0.006 min
Lab File: BF140270.D
Acq: 07 Nov 2024 13:07

Instrument :
BNA_F
ClientSampleId :
WB-307-SB01

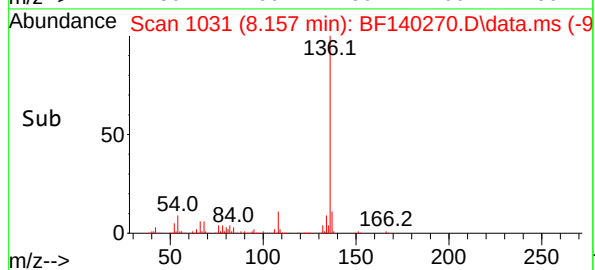
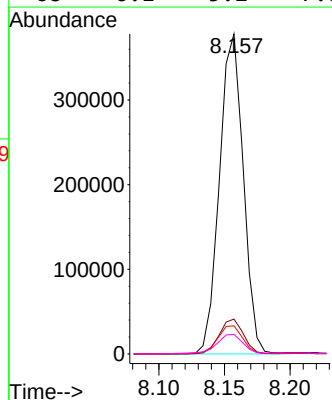
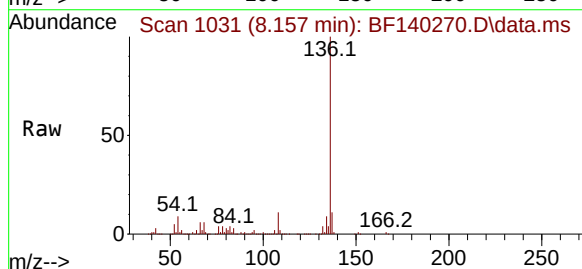


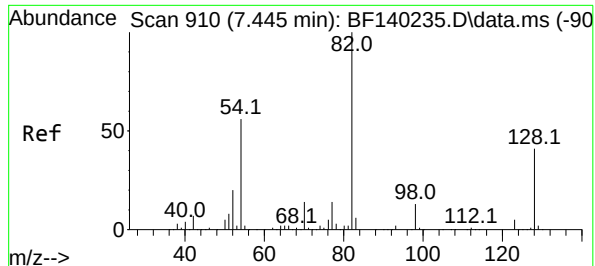
Tgt Ion: 99 Resp: 1329491
Ion Ratio Lower Upper
99 100
42 20.8 18.2 27.2
71 37.4 30.9 46.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1031
Delta R.T. 0.000 min
Lab File: BF140270.D
Acq: 07 Nov 2024 13:07

Tgt Ion: 136 Resp: 477012
Ion Ratio Lower Upper
136 100
137 10.9 9.0 13.6
54 8.8 7.7 11.5
68 6.1 5.2 7.8





#23

Nitrobenzene-d5

Concen: 90.346 ng

RT: 7.434 min Scan# 90

Delta R.T. -0.012 min

Lab File: BF140270.D

Acq: 07 Nov 2024 13:07

Instrument :

BNA_F

ClientSampleId :

WB-307-SB01

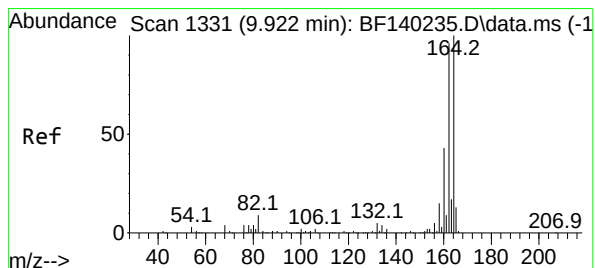
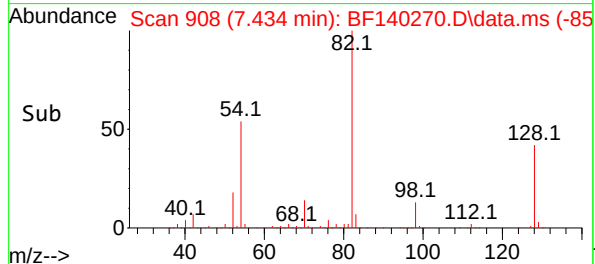
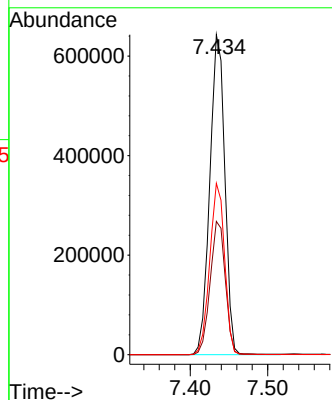
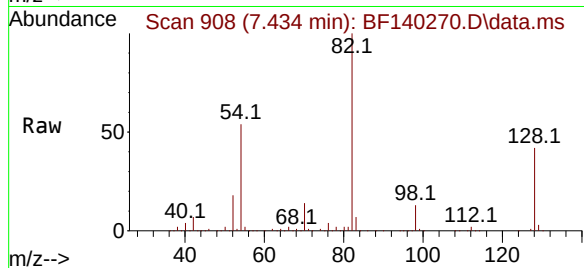
Tgt Ion: 82 Resp: 866808

Ion Ratio Lower Upper

82 100

128 41.6 32.8 49.2

54 53.6 44.3 66.5



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.916 min Scan# 1330

Delta R.T. -0.006 min

Lab File: BF140270.D

Acq: 07 Nov 2024 13:07

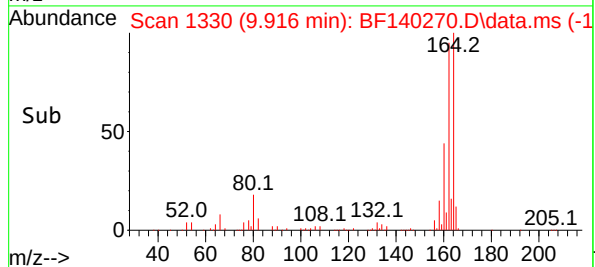
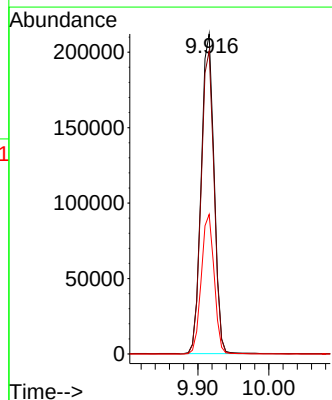
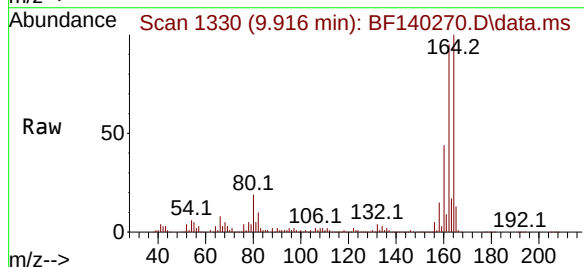
Tgt Ion:164 Resp: 268251

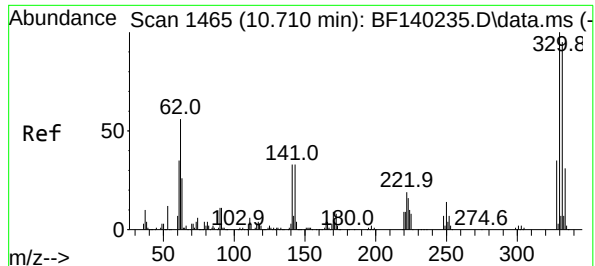
Ion Ratio Lower Upper

164 100

162 94.7 77.0 115.4

160 43.6 34.1 51.1





#42

2,4,6-Tribromophenol

Concen: 151.131 ng

RT: 10.704 min Scan# 1464

Delta R.T. -0.006 min

Lab File: BF140270.D

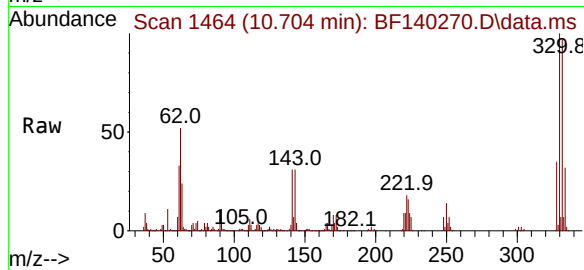
Acq: 07 Nov 2024 13:07

Instrument :

BNA_F

ClientSampleId :

WB-307-SB01



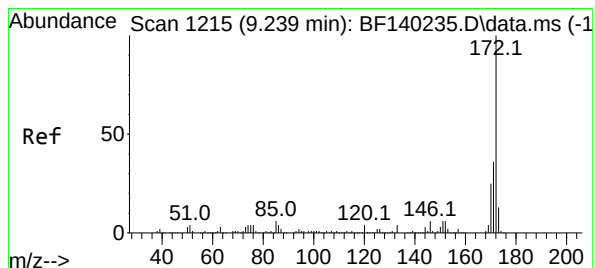
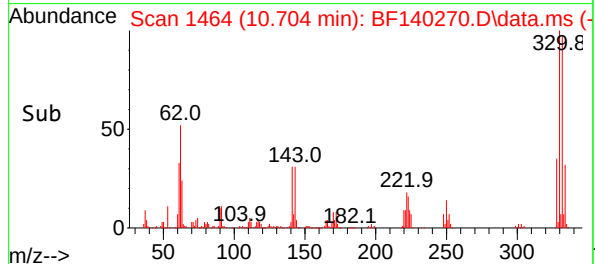
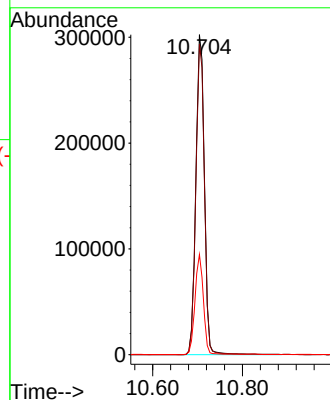
Tgt Ion:330 Resp: 400726

Ion Ratio Lower Upper

330 100

332 96.9 76.4 114.6

141 30.7 27.0 40.4



#45

2-Fluorobiphenyl

Concen: 82.855 ng

RT: 9.234 min Scan# 1214

Delta R.T. -0.006 min

Lab File: BF140270.D

Acq: 07 Nov 2024 13:07

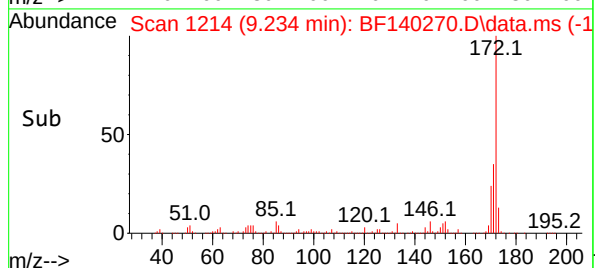
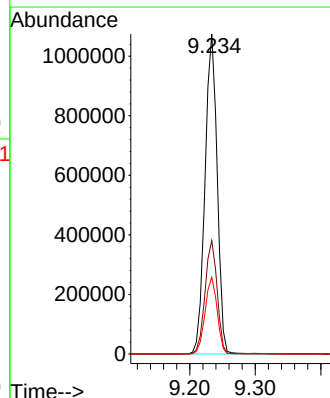
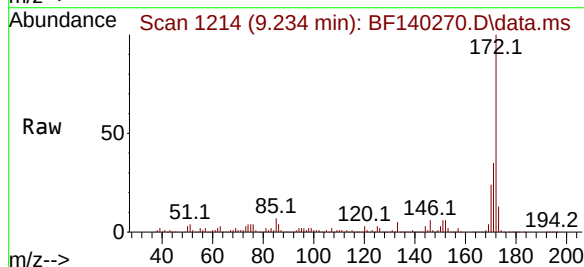
Tgt Ion:172 Resp: 1391908

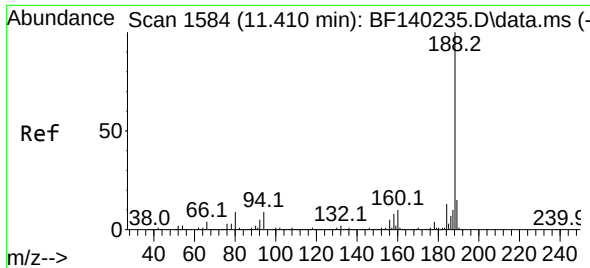
Ion Ratio Lower Upper

172 100

171 35.4 28.8 43.2

170 24.0 19.6 29.4

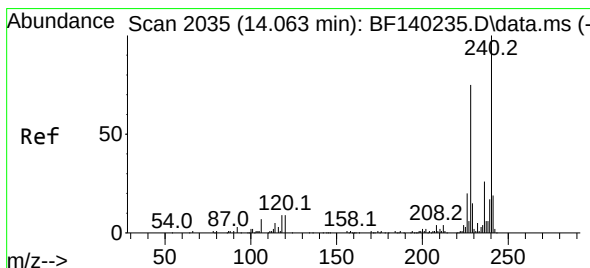
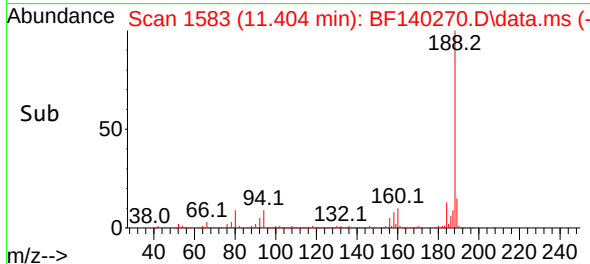
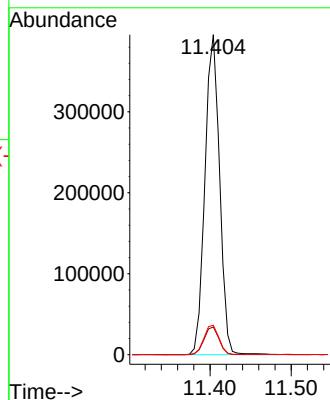
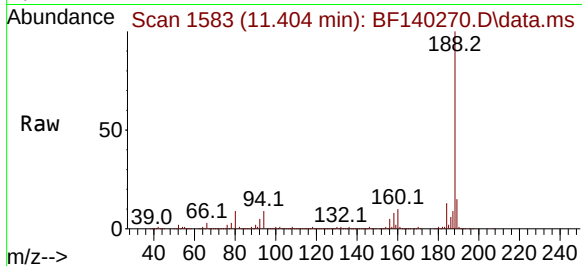




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF140270.D
Acq: 07 Nov 2024 13:07

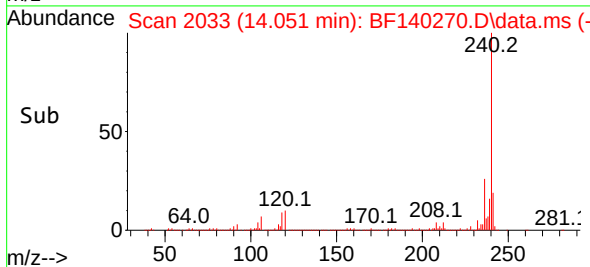
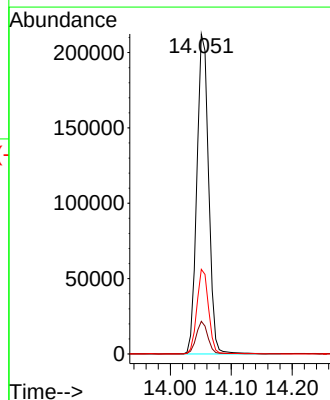
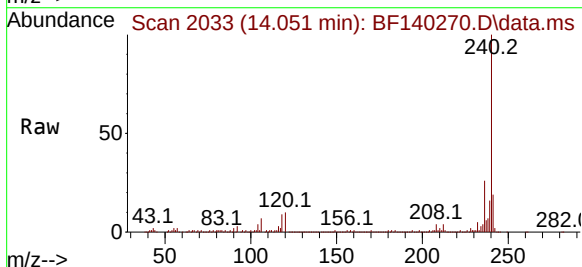
Instrument :
BNA_F
ClientSampleId :
WB-307-SB01

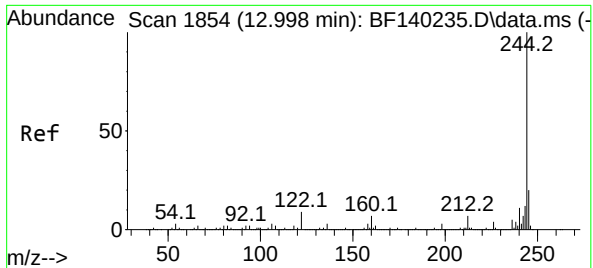
Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.9	10.3
80	9.2	7.5	11.3



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. -0.012 min
Lab File: BF140270.D
Acq: 07 Nov 2024 13:07

Tgt Ion	Ratio	Lower	Upper
240	100		
120	10.2	7.5	11.3
236	26.5	20.9	31.3





#79

Terphenyl-d14

Concen: 80.687 ng

RT: 12.992 min Scan# 1853

Delta R.T. -0.006 min

Lab File: BF140270.D

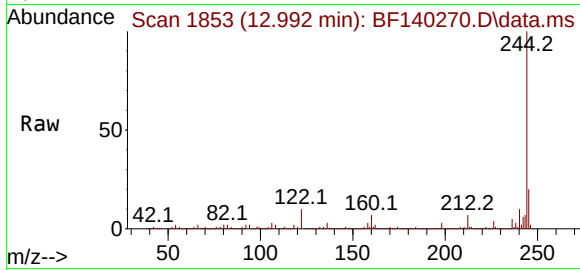
Acq: 07 Nov 2024 13:07

Instrument :

BNA_F

ClientSampleId :

WB-307-SB01



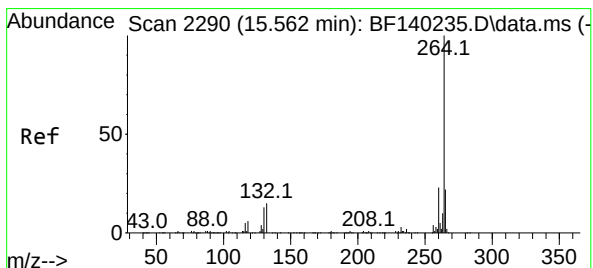
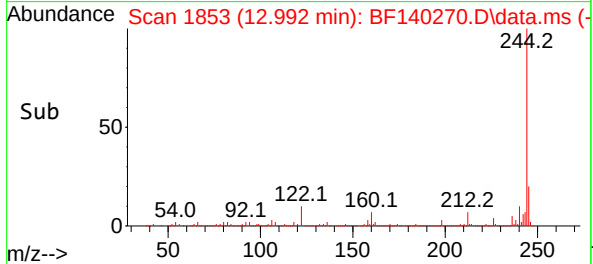
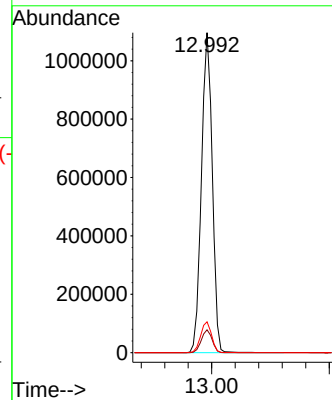
Tgt Ion:244 Resp: 1402027

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

122 9.6 7.6 11.4



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.563 min Scan# 2290

Delta R.T. 0.000 min

Lab File: BF140270.D

Acq: 07 Nov 2024 13:07

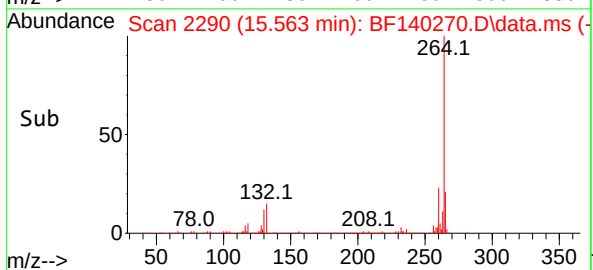
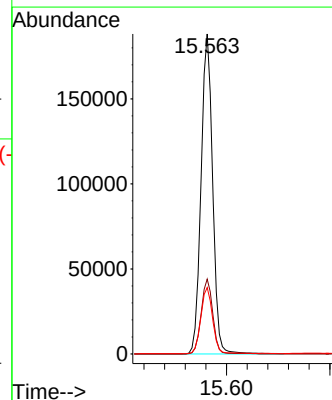
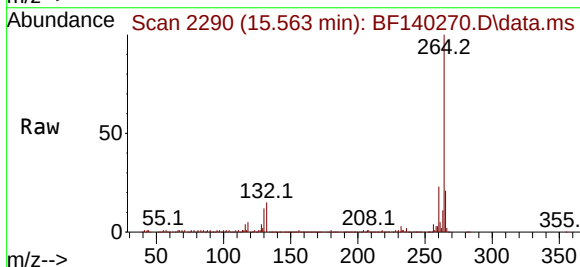
Tgt Ion:264 Resp: 292875

Ion Ratio Lower Upper

264 100

260 23.4 18.8 28.2

265 20.7 17.3 25.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
 Data File : BF140270.D
 Acq On : 07 Nov 2024 13:07
 Operator : RC/JU
 Sample : P4718-01
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WB-307-SB01

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-BF110524.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140270.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.163	5	12	25	rVB	2100890	3432553	83.67%	8.019%
2	2.275	25	31	44	rVB2	72810	123318	3.01%	0.288%
3	5.099	496	511	523	rBV	490571	809578	19.73%	1.891%
4	5.498	573	579	584	rBV	2736606	3802445	92.69%	8.884%
5	5.893	641	646	652	rVB	50474	62994	1.54%	0.147%
6	6.498	742	749	766	rVB	2755059	3987136	97.19%	9.315%
7	6.875	808	813	819	rVB	647987	790786	19.28%	1.848%
8	7.434	897	908	913	rBV	1892479	2571715	62.69%	6.008%
9	7.687	946	951	957	rVB	43233	58209	1.42%	0.136%
10	8.057	1010	1014	1020	rBV	60266	78887	1.92%	0.184%
11	8.157	1020	1031	1035	rBV	827389	1252741	30.54%	2.927%
12	8.210	1037	1040	1044	rVB2	54185	65387	1.59%	0.153%
13	8.257	1044	1048	1051	rBV4	30018	56271	1.37%	0.131%
14	8.369	1063	1067	1068	rBV3	31038	42937	1.05%	0.100%
15	8.392	1068	1071	1075	rVB2	66781	88509	2.16%	0.207%
16	8.445	1075	1080	1084	rBV4	94239	149514	3.64%	0.349%
17	8.534	1092	1095	1098	rBV3	52877	64660	1.58%	0.151%
18	8.575	1098	1102	1112	rBV	153982	262957	6.41%	0.614%
19	8.663	1113	1117	1119	rBV2	46835	63386	1.55%	0.148%
20	8.698	1119	1123	1125	rBV	78089	110427	2.69%	0.258%
21	8.745	1126	1131	1135	rVV	798920	1024930	24.98%	2.395%
22	8.804	1135	1141	1144	rVV4	89374	236590	5.77%	0.553%
23	8.839	1144	1147	1151	rVB	161506	218052	5.32%	0.509%
24	8.928	1159	1162	1166	rBV3	98436	143109	3.49%	0.334%
25	9.034	1176	1180	1182	rBV2	220782	336096	8.19%	0.785%
26	9.110	1190	1193	1197	rBV	228895	266714	6.50%	0.623%
27	9.151	1197	1200	1201	rBV	205170	211700	5.16%	0.495%
28	9.175	1201	1204	1208	rVB	607448	752282	18.34%	1.758%
29	9.234	1208	1214	1218	rBV	3140733	4102373	100.00%	9.584%
30	9.269	1218	1220	1223	rVB	45016	42877	1.05%	0.100%
31	9.310	1223	1227	1232	rBV	1709349	2349158	57.26%	5.488%
32	9.634	1277	1282	1289	rVV2	495829	928547	22.63%	2.169%
33	9.692	1289	1292	1295	rVB	89102	104375	2.54%	0.244%
34	9.781	1304	1307	1310	rBV3	47374	68301	1.66%	0.160%
35	9.839	1313	1317	1322	rVV	723515	995440	24.26%	2.326%
36	9.916	1325	1330	1334	rVB	883652	1168856	28.49%	2.731%

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140270.D
Acq On : 07 Nov 2024 13:07
Operator : RC/JU
Sample : P4718-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB01

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-BF110524.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	10.163	1369	1372	1377	rVB4	46122	62923	1.53%	0.147%
38	10.339	1397	1402	1407	rVB	132524	173998	4.24%	0.407%
39	10.563	1436	1440	1446	rVB	28037	41949	1.02%	0.098%
40	10.628	1446	1451	1458	rVV	417207	525180	12.80%	1.227%
41	10.704	1458	1464	1478	rVV	2315349	3041924	74.15%	7.107%
42	10.816	1479	1483	1492	rVB	53615	93274	2.27%	0.218%
43	11.263	1555	1559	1563	rBV2	28562	46680	1.14%	0.109%
44	11.404	1577	1583	1590	rBV	929867	1184906	28.88%	2.768%
45	11.469	1590	1594	1598	rVB2	47675	61763	1.51%	0.144%
46	11.933	1667	1673	1684	rBV	478874	762182	18.58%	1.781%
47	12.492	1763	1768	1774	rVB4	36368	73369	1.79%	0.171%
48	12.639	1786	1793	1802	rBV2	64412	166262	4.05%	0.388%
49	12.716	1802	1806	1818	rVB	75681	124366	3.03%	0.291%
50	12.851	1824	1829	1836	rVB	50199	85327	2.08%	0.199%
51	12.992	1847	1853	1858	rBV	2856046	3658449	89.18%	8.547%
52	13.904	2003	2008	2022	rVB2	97592	232375	5.66%	0.543%
53	14.051	2028	2033	2045	rVB	591954	832279	20.29%	1.944%
54	14.704	2141	2144	2151	rVB	30503	41084	1.00%	0.096%
55	15.563	2284	2290	2302	rVB	486848	770568	18.78%	1.800%

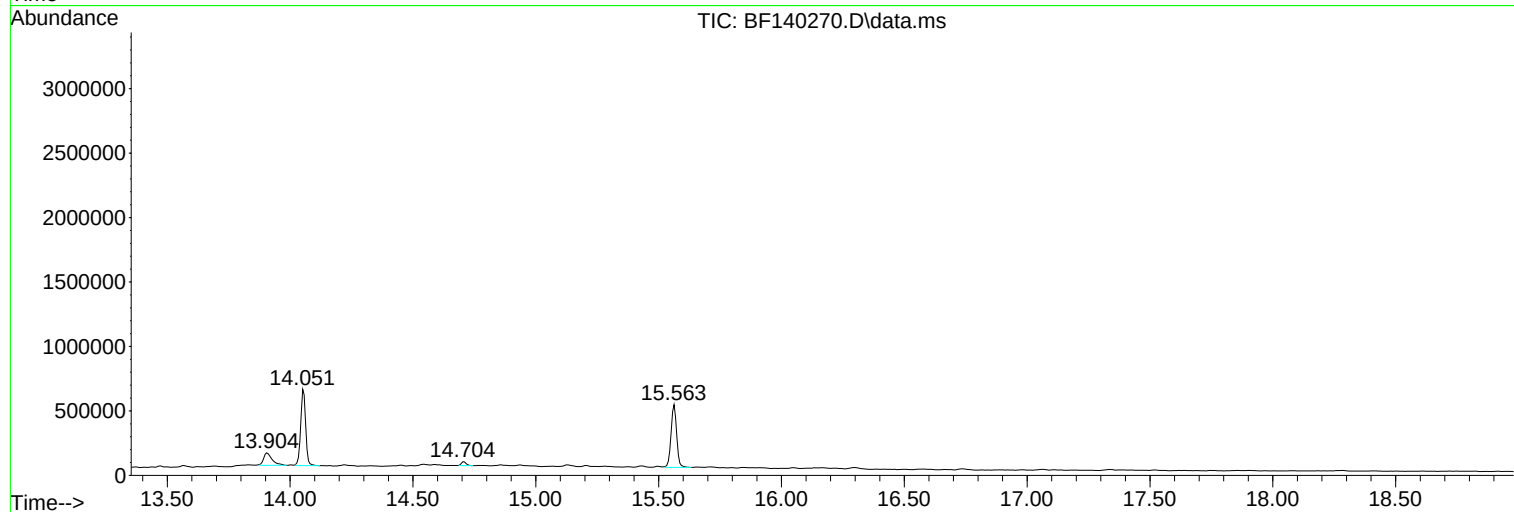
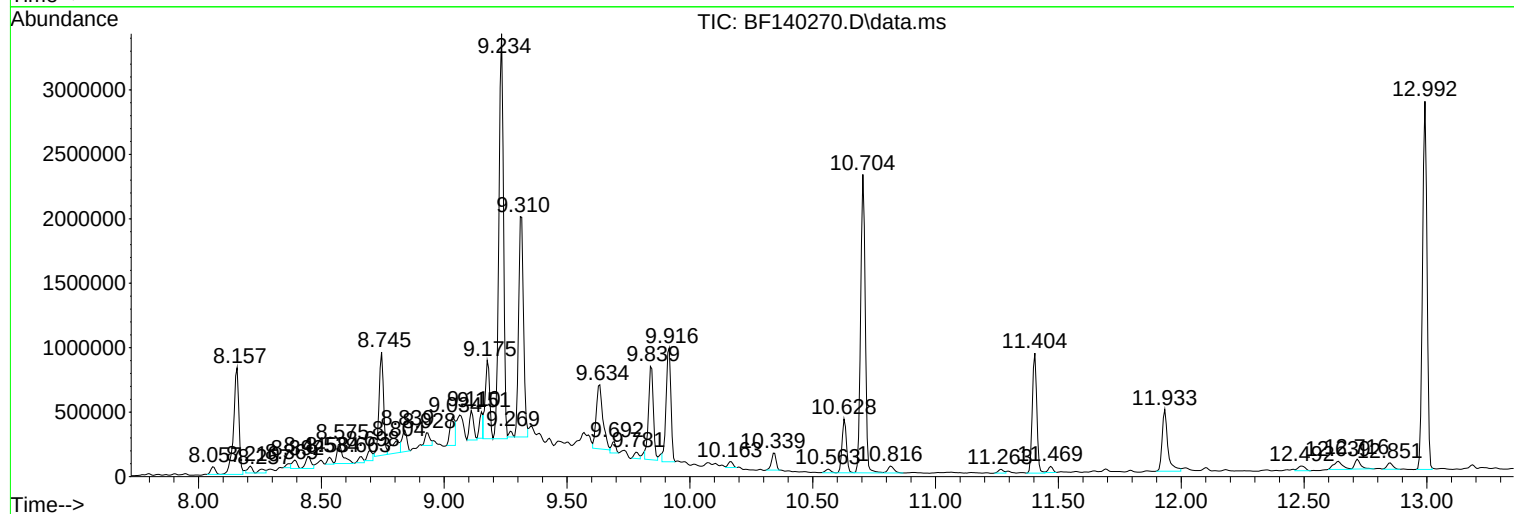
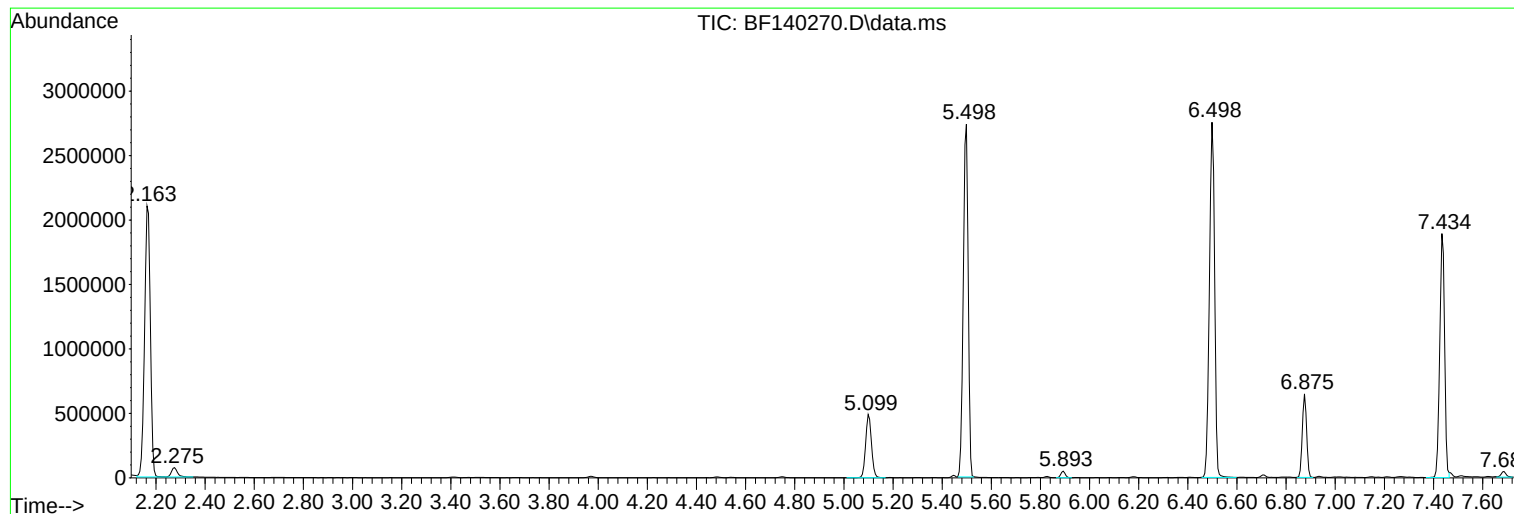
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140270.D
Acq On : 07 Nov 2024 13:07
Operator : RC/JU
Sample : P4718-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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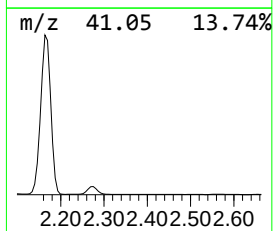
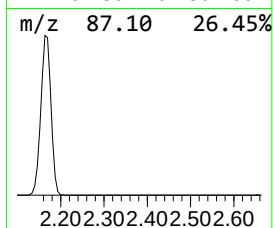
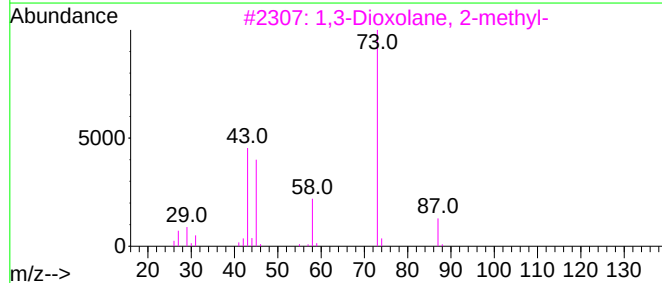
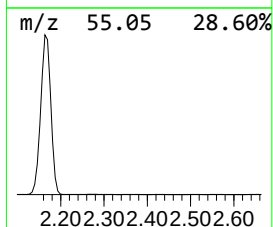
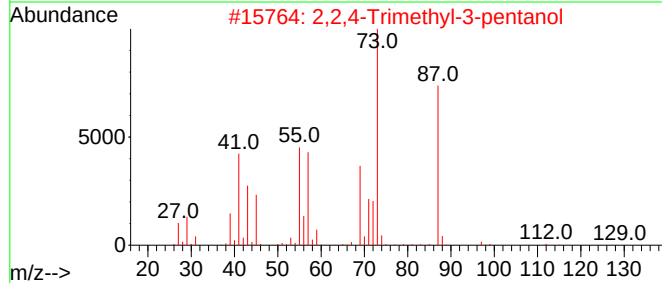
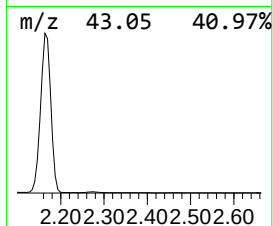
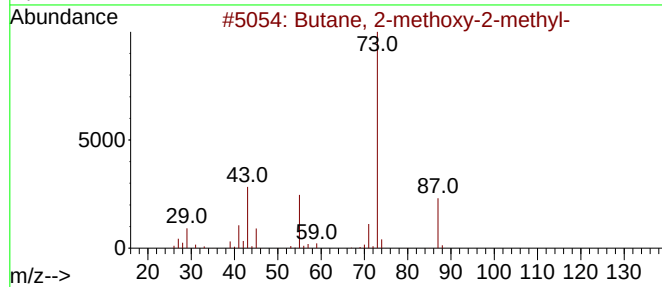
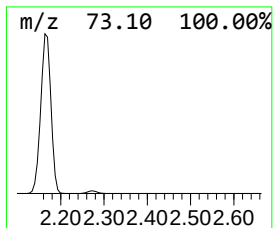
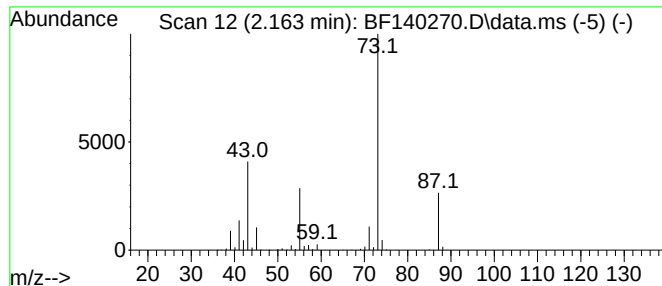
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.163	86.81 ng	3432550	1,4-Dichlorobenzene-d4	6.875

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2			2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3			1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	23
4			Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	22
5			Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17



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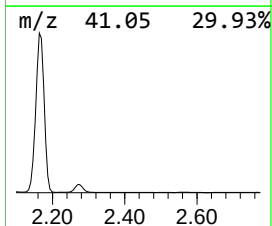
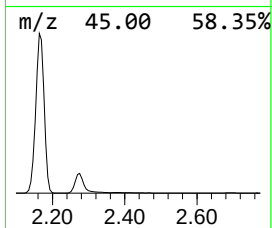
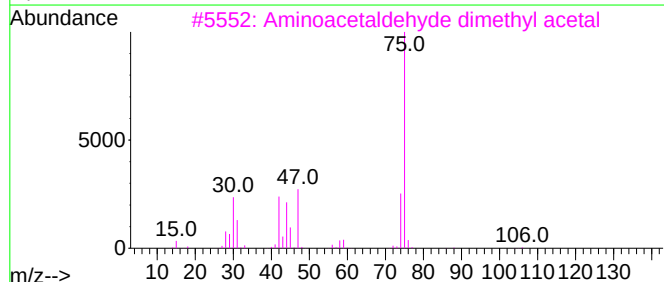
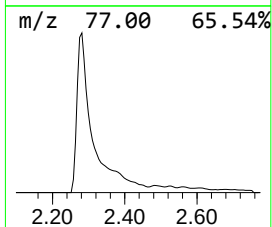
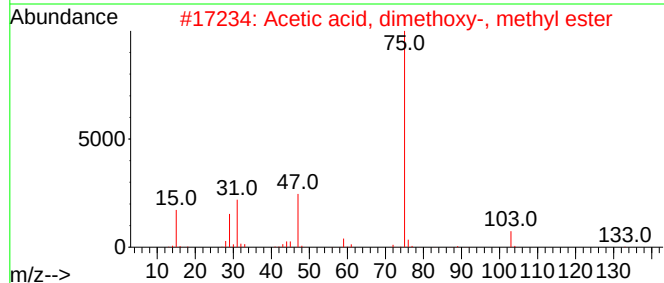
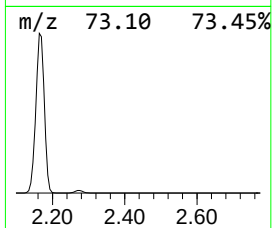
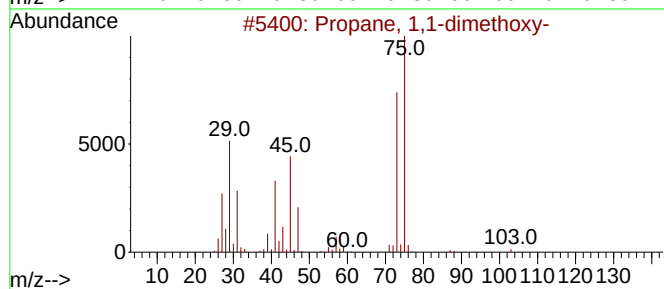
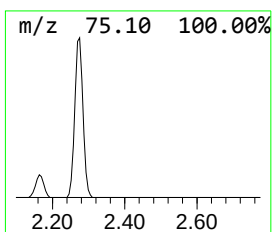
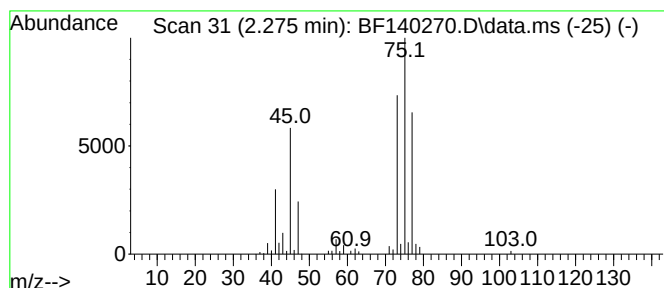
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 Propane, 1,1-dimethoxy- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.275	3.12 ng	123318	1,4-Dichlorobenzene-d4	6.875

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Propane, 1,1-dimethoxy-	104	C5H12O2	004744-10-9	59
2			Acetic acid, dimethoxy-, methyl ...	134	C5H10O4	000089-91-8	38
3			Aminoacetaldehyde dimethyl acetal	105	C4H11NO2	022483-09-6	23
4			Ethanethioamide	75	C2H5NS	000062-55-5	9
5			Ethanol, 2-methoxy-	76	C3H8O2	000109-86-4	9



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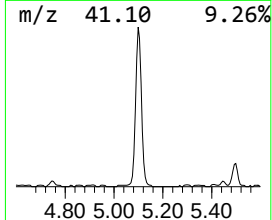
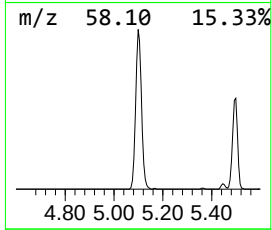
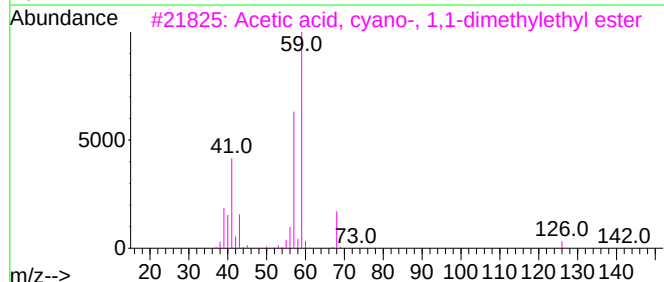
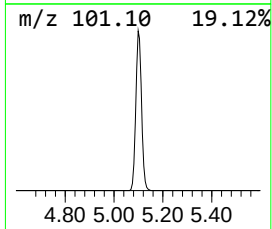
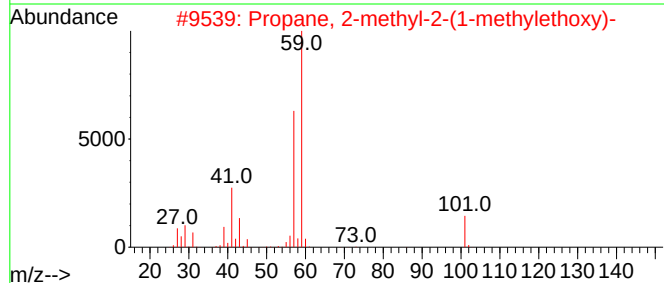
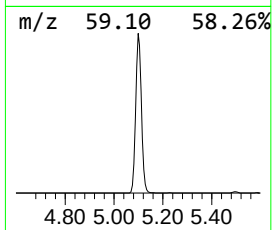
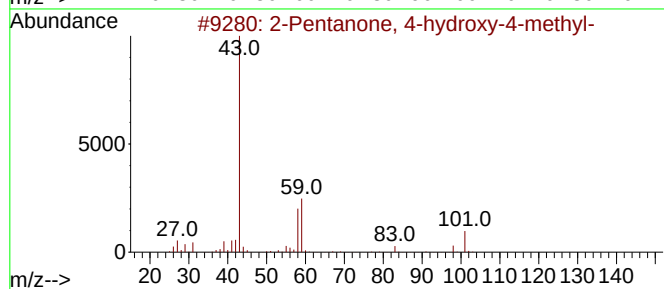
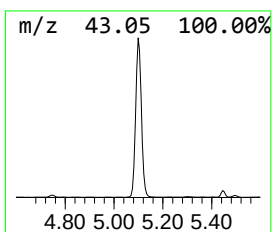
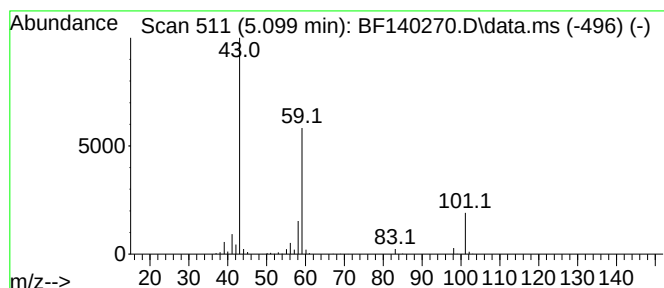
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.099	20.48 ng	809578	1,4-Dichlorobenzene-d4	6.875

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2		Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	23
3		Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
4		1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
5		2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9



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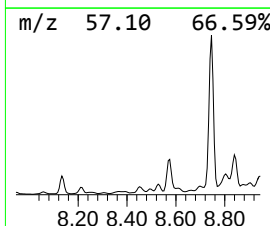
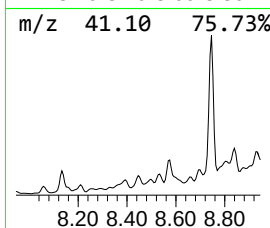
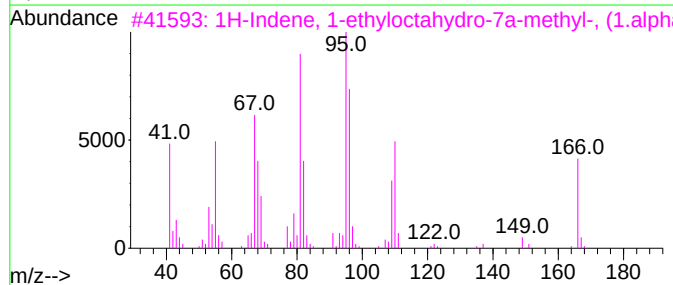
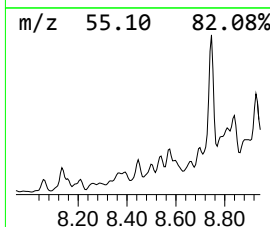
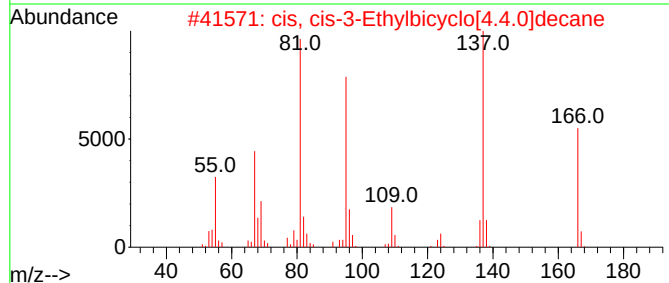
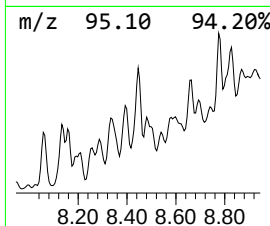
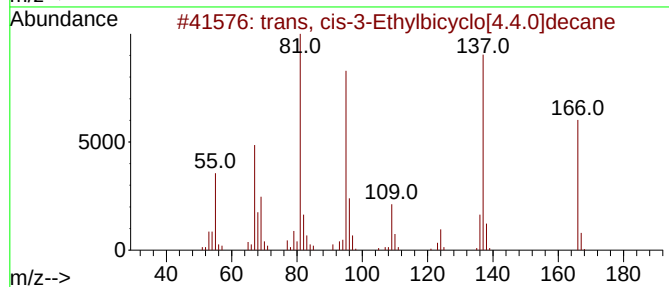
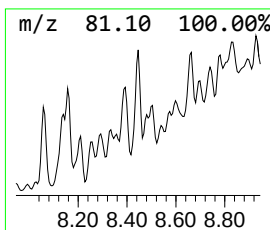
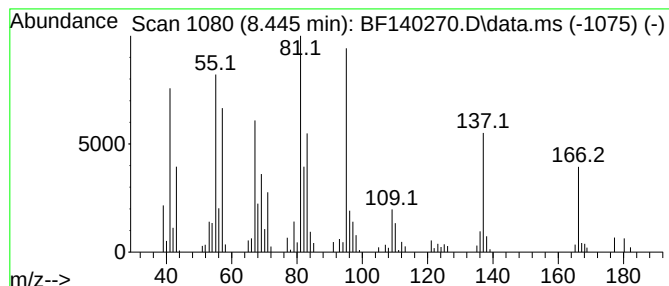
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TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 trans, cis-3-Ethylbicyclo[4... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.445	2.39 ng	149514	Naphthalene-d8	8.157

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			trans, cis-3-Ethylbicyclo[4.4.0]...	166	C12H22	066660-43-3	90
2			cis, cis-3-Ethylbicyclo[4.4.0]de...	166	C12H22	066660-42-2	81
3			1H-Indene, 1-ethyloctahydro-7a-m...	166	C12H22	056324-71-1	70
4			cis, cis-2-Ethylbicyclo[4.4.0]de...	166	C12H22	066660-40-0	62
5			trans, cis-2-Ethylbicyclo[4.4.0]...	166	C12H22	066660-39-7	62



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
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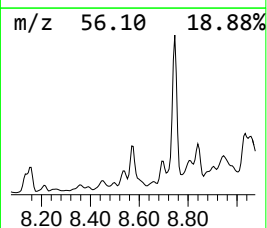
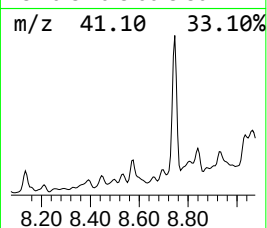
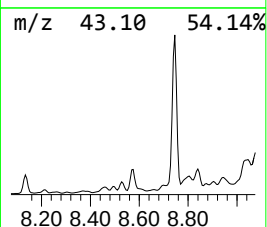
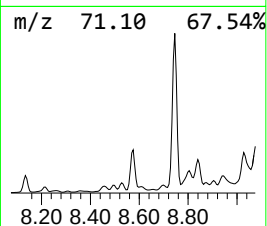
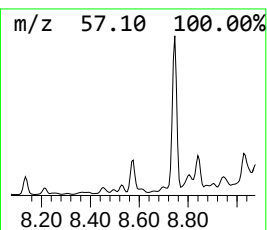
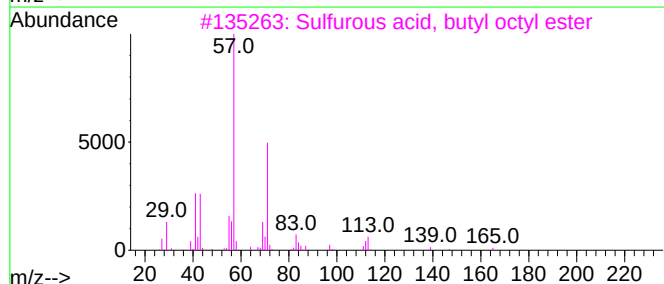
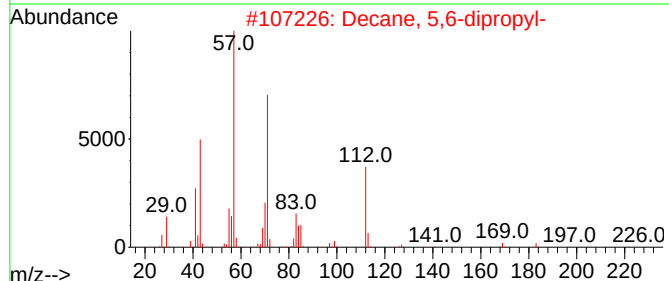
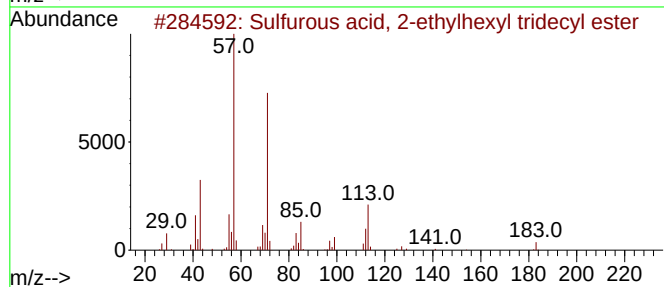
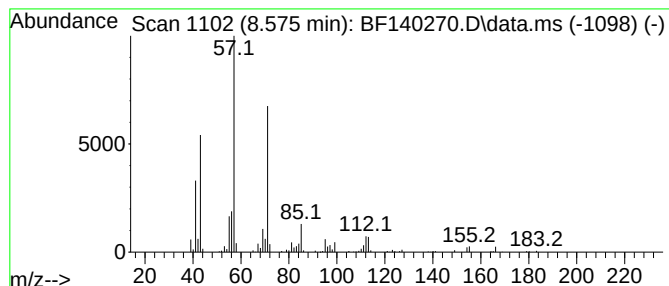
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Sulfurous acid, 2-ethylhexy... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.575	4.20 ng	262957	Naphthalene-d8	8.157

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Sulfurous acid, 2-ethylhexyl tri...	376	C21H44O3S	1000309-19-6	78
2			Decane, 5,6-dipropyl-	226	C16H34	119209-20-0	72
3			Sulfurous acid, butyl octyl ester	250	C12H26O3S	1000309-17-5	72
4			Sulfurous acid, dodecyl 2-ethylh...	362	C20H42O3S	1000309-19-5	72
5			Heptadecane, 2,6-dimethyl-	268	C19H40	054105-67-8	64



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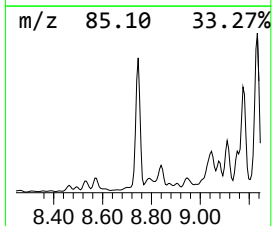
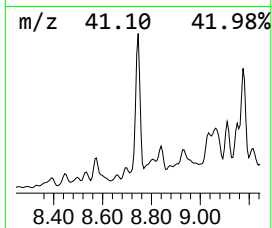
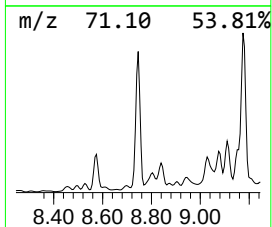
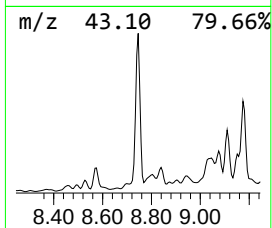
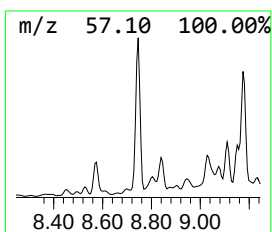
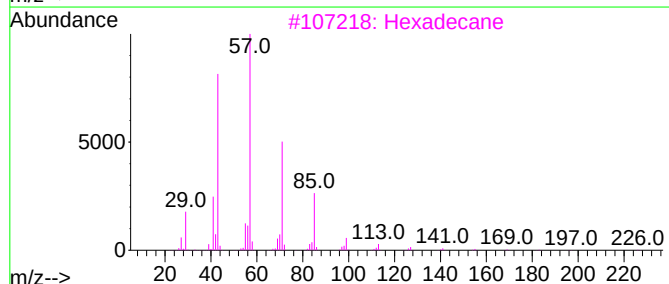
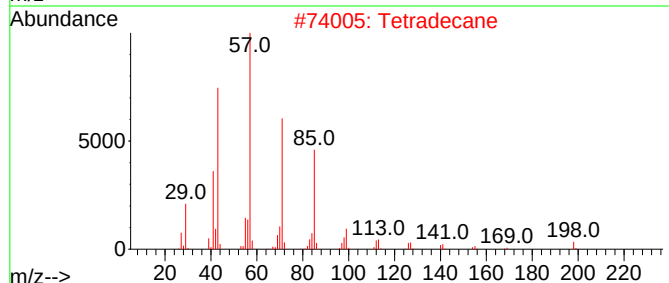
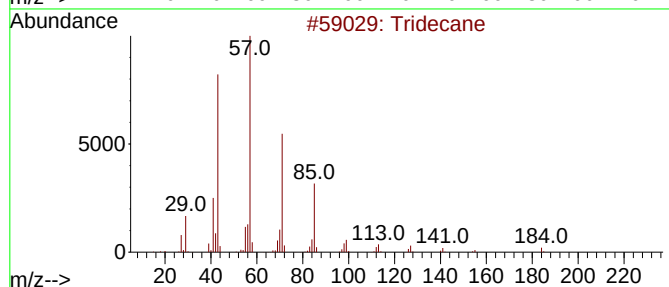
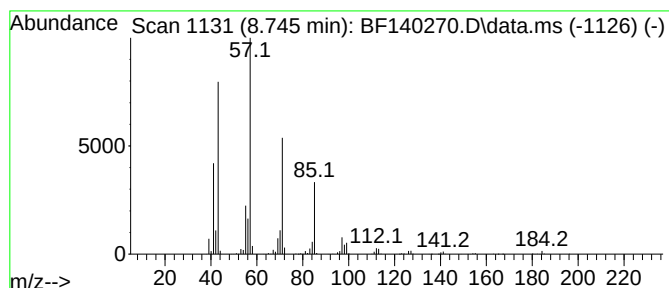
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TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 6 Tridecane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.745	16.36 ng	1024930	Naphthalene-d8	8.157

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Tridecane	184	C13H28	000629-50-5	91
2			Tetradecane	198	C14H30	000629-59-4	86
3			Hexadecane	226	C16H34	000544-76-3	86
4			Decane, 2,3,5-trimethyl-	184	C13H28	062238-11-3	78
5			Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	74



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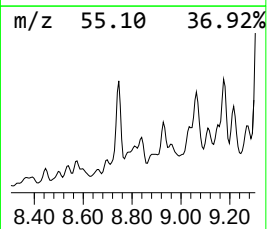
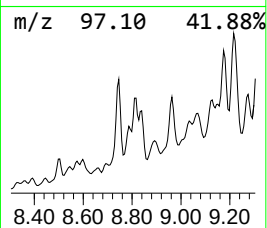
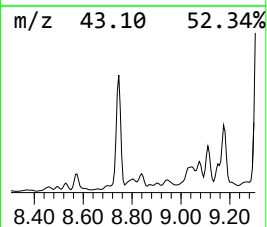
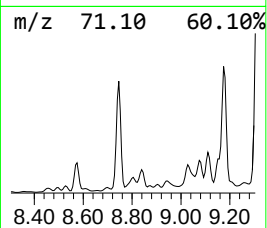
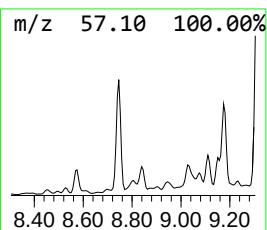
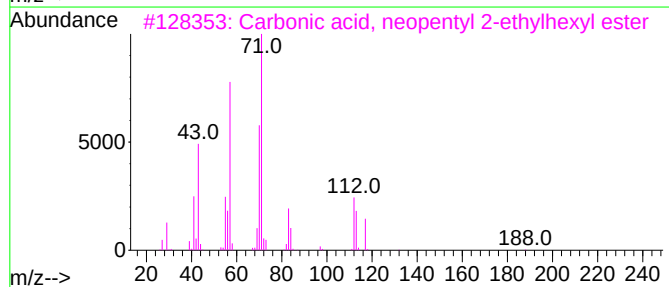
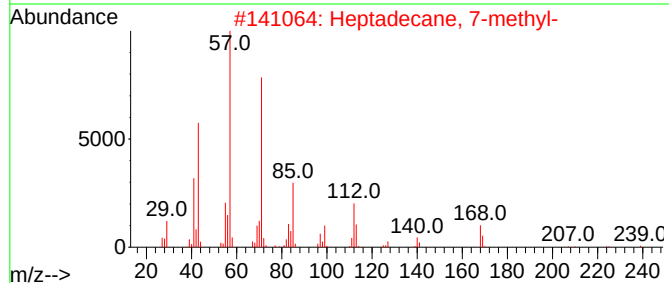
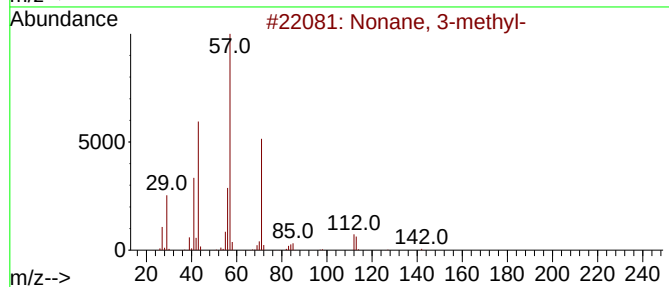
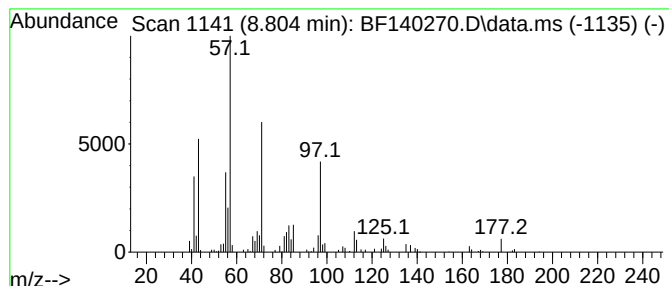
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 unknown8.804 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.804	3.78 ng	236590	Naphthalene-d8	8.157

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Nonane, 3-methyl-	142	C10H22	005911-04-6	47
2			Heptadecane, 7-methyl-	254	C18H38	020959-33-5	43
3			Carbonic acid, neopentyl 2-ethyl...	244	C14H28O3	1000357-85-7	38
4			6-Methyl-2-heptanol, 2-methylpro...	200	C12H24O2	1000447-36-7	38
5			Octane, 3,5-dimethyl-	142	C10H22	015869-93-9	38



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
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Acq On : 07 Nov 2024 13:07
Operator : RC/JU
Sample : P4718-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

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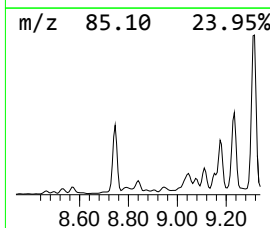
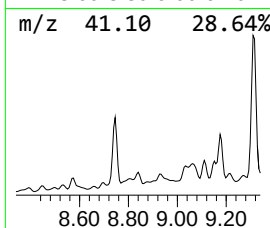
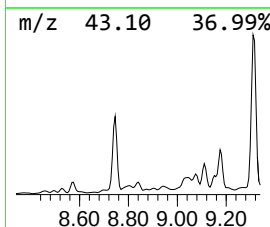
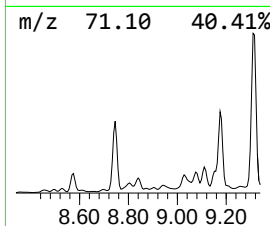
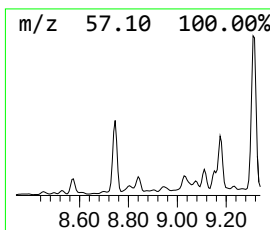
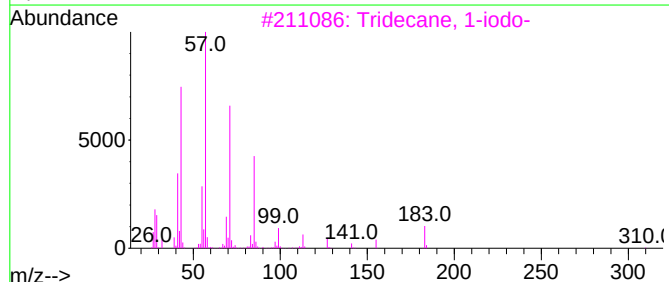
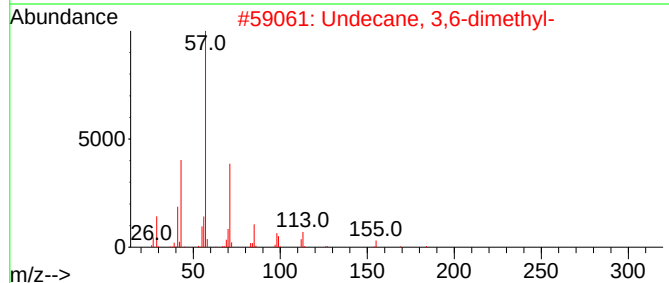
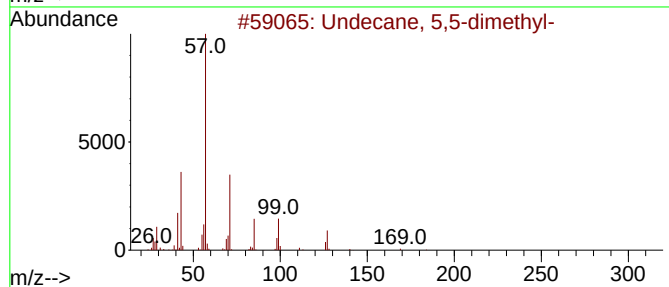
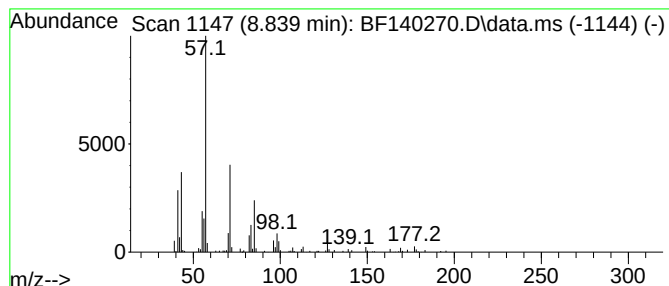
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Undecane, 5,5-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.839	3.48 ng	218052	Naphthalene-d8	8.157

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Undecane, 5,5-dimethyl-	184	C13H28	017312-73-1	64
2			Undecane, 3,6-dimethyl-	184	C13H28	017301-28-9	53
3			Tridecane, 1-iodo-	310	C13H27I	035599-77-0	53
4			Nonane, 3,7-dimethyl-	156	C11H24	017302-32-8	53
5			Dodecane, 6-methyl-	184	C13H28	006044-71-9	53



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
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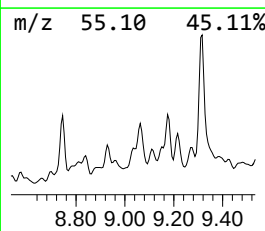
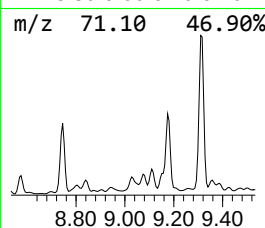
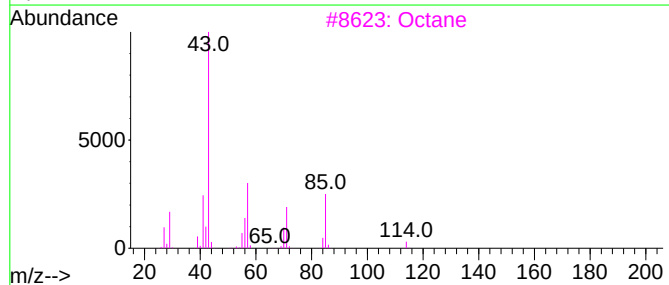
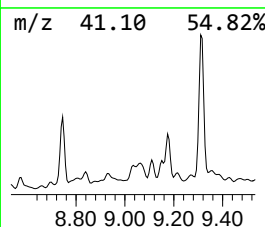
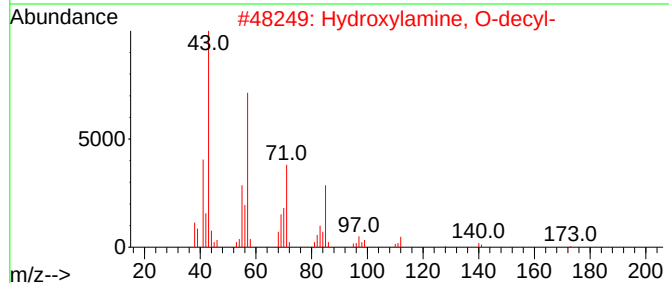
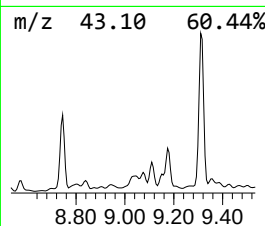
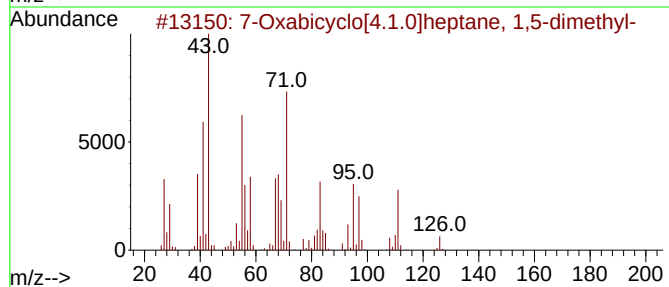
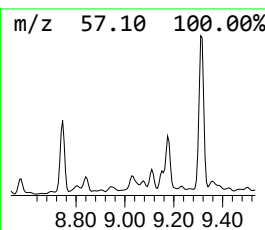
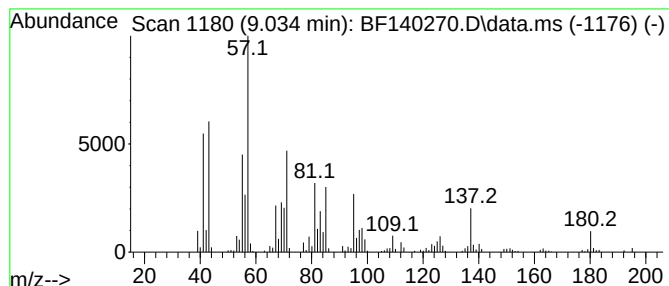
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 unknown9.034 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.034	5.37 ng	336096	Naphthalene-d8	8.157

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			7-Oxabicyclo[4.1.0]heptane, 1,5-...	126	C8H14O	162239-52-3	45
2			Hydroxylamine, O-decyl-	173	C10H23NO	029812-79-1	43
3			Octane	114	C8H18	000111-65-9	43
4			Carbonic acid, dodecyl vinyl ester	256	C15H28O3	1000382-54-8	43
5			Hexane, 3,3-dimethyl-	114	C8H18	000563-16-6	38



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
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Sample : P4718-01
Misc :
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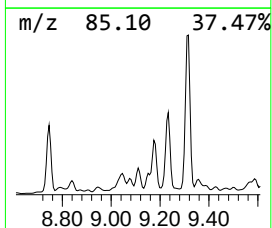
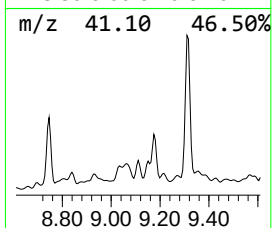
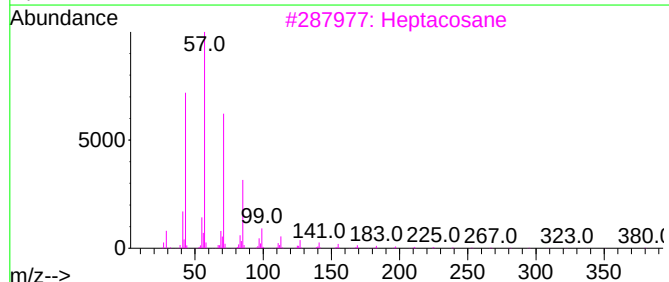
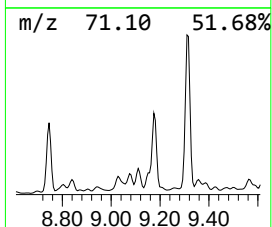
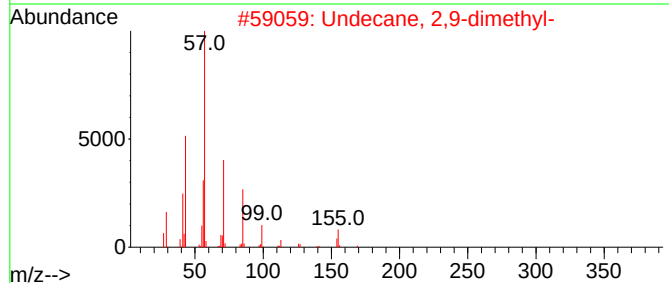
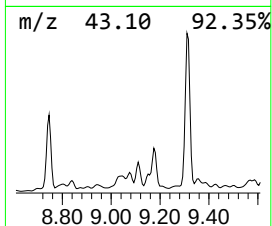
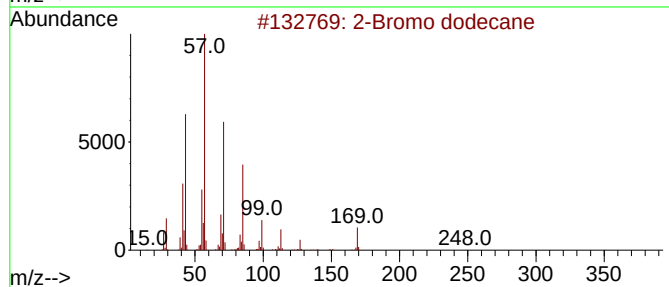
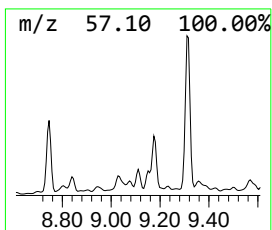
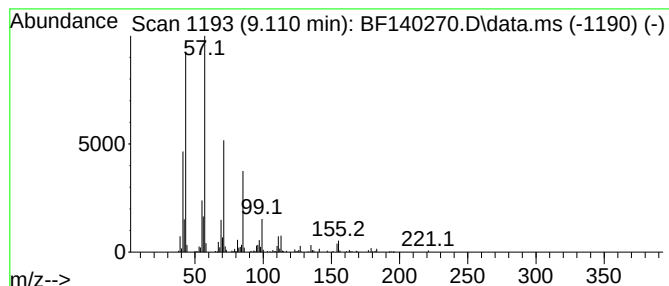
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 2-Bromo dodecane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.	
9.110	4.56 ng	266714	Acenaphthene-d10	9.916	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Bromo dodecane	248	C12H25Br	013187-99-0	86
2	Undecane, 2,9-dimethyl-	184	C13H28	017301-26-7	80
3	Heptacosane	380	C27H56	000593-49-7	80
4	1-Iodoundecane	282	C11H23I	004282-44-4	72
5	Octacosane	394	C28H58	000630-02-4	72



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
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Acq On : 07 Nov 2024 13:07
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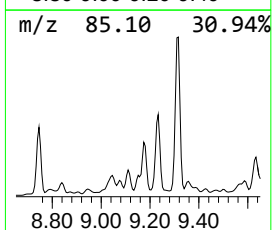
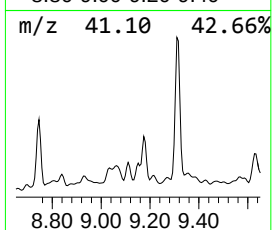
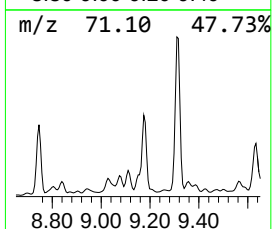
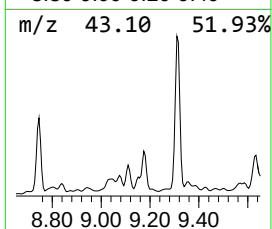
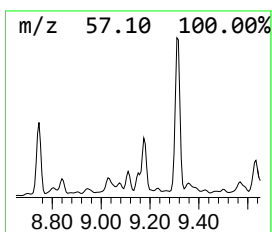
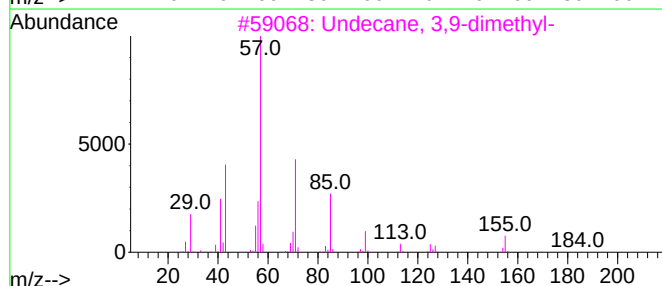
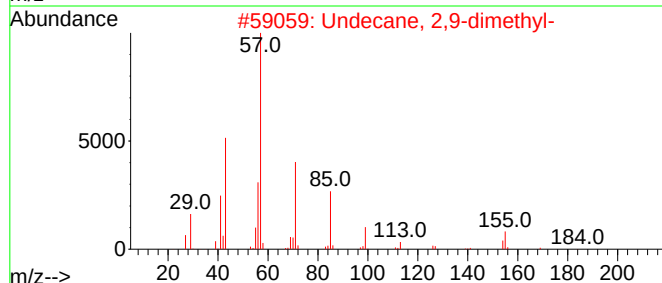
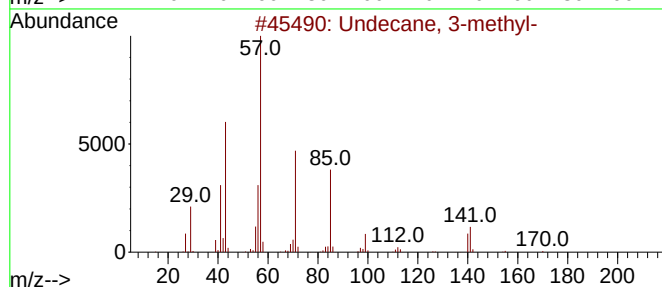
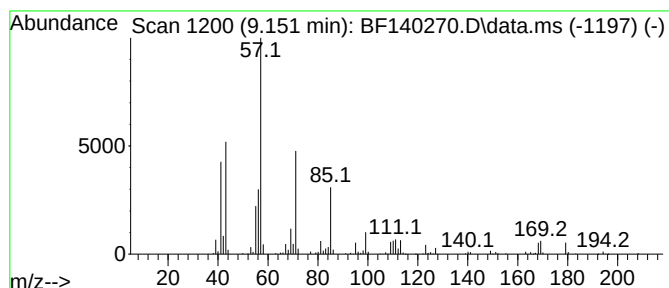
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TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 11 Undecane, 3-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.151	3.62 ng	211700	Acenaphthene-d10	9.916

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 3-methyl-	170	C12H26	001002-43-3	74	
2	Undecane, 2,9-dimethyl-	184	C13H28	017301-26-7	64	
3	Undecane, 3,9-dimethyl-	184	C13H28	017301-31-4	64	
4	Dodecane, 1-iodo-	296	C12H25I	004292-19-7	64	
5	Undecane, 5-methyl-	170	C12H26	001632-70-8	58	



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140270.D
Acq On : 07 Nov 2024 13:07
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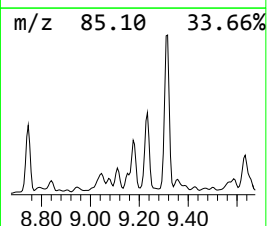
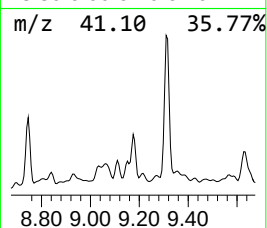
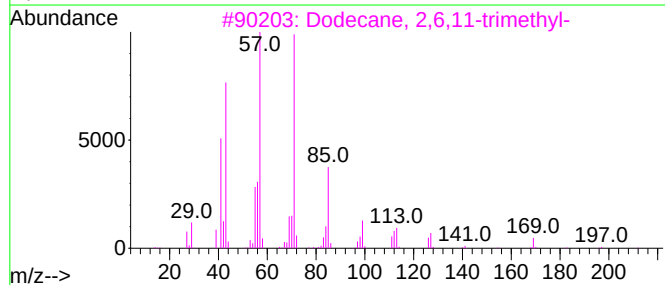
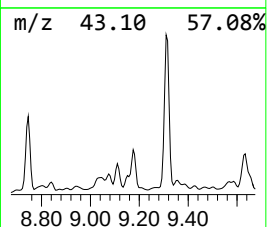
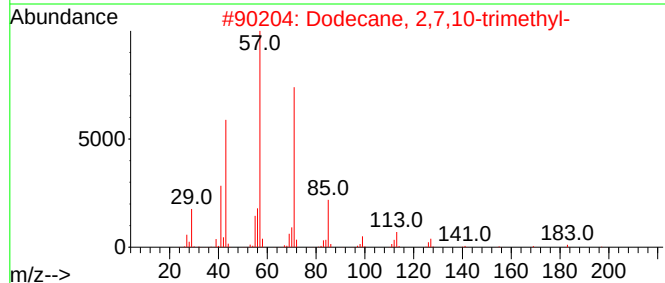
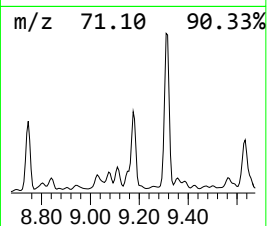
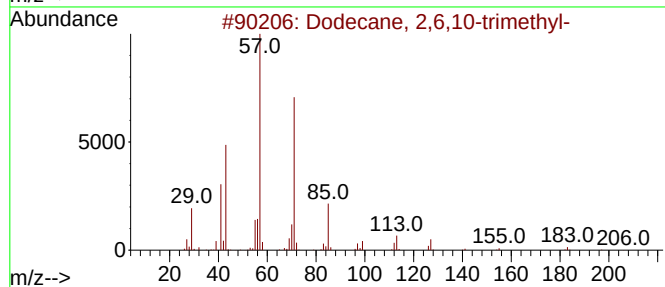
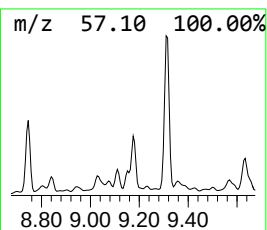
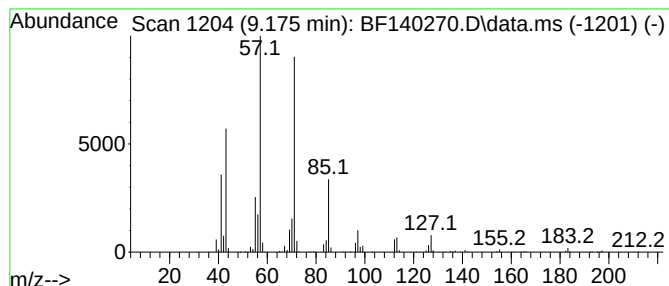
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 Dodecane, 2,6,10-trimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.175	12.87 ng	752282	Acenaphthene-d10	9.916

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Dodecane, 2,6,10-trimethyl-	212	C15H32	003891-98-3	86
2		Dodecane, 2,7,10-trimethyl-	212	C15H32	074645-98-0	86
3		Dodecane, 2,6,11-trimethyl-	212	C15H32	031295-56-4	80
4		Sulfurous acid, pentyl tetradecy...	348	C19H40O3S	1010309-14-7	72
5		Sulfurous acid, hexyl pentyl ester	236	C11H24O3S	1000309-14-1	59



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
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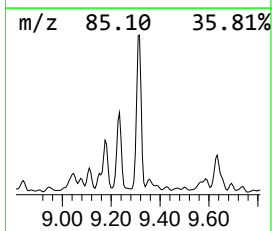
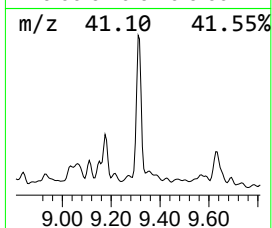
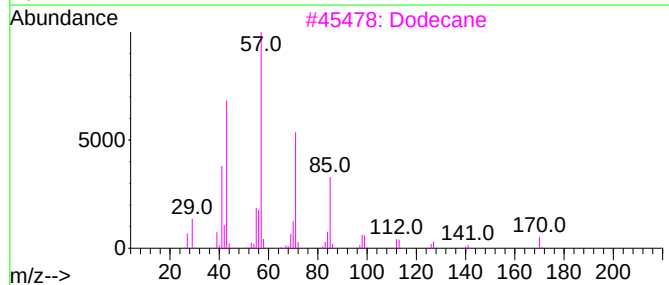
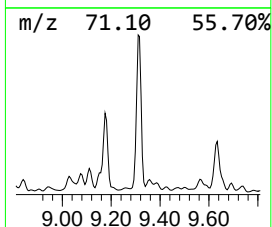
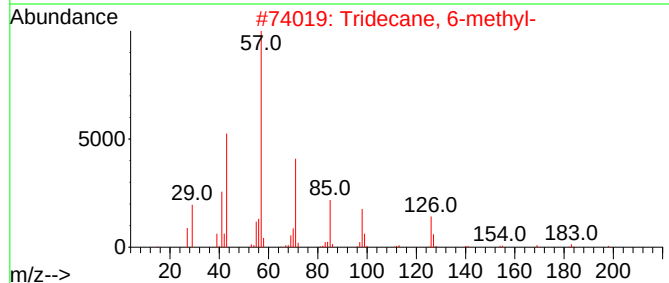
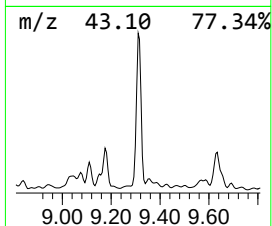
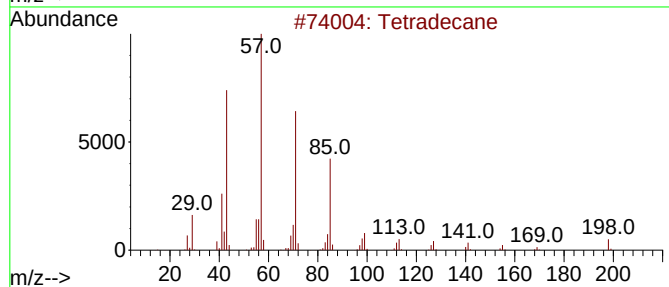
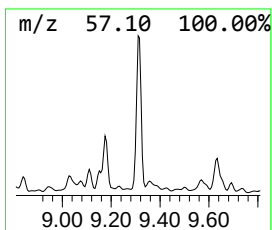
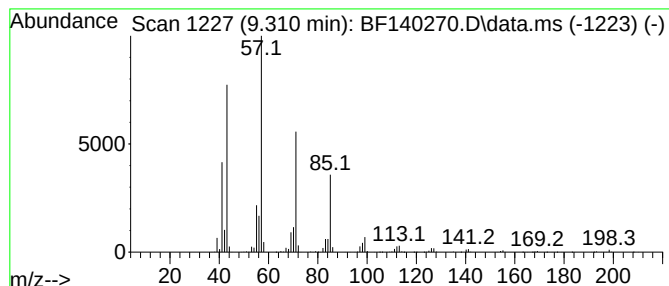
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TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 13 Tetradecane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.310	40.20 ng	2349160	Acenaphthene-d10	9.916

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Tetradecane	198	C14H30	000629-59-4	95
2		Tridecane, 6-methyl-	198	C14H30	013287-21-3	91
3		Dodecane	170	C12H26	000112-40-3	90
4		Hexadecane	226	C16H34	000544-76-3	90
5		Tridecane, 7-methyl-	198	C14H30	026730-14-3	81



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140270.D
Acq On : 07 Nov 2024 13:07
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Misc :
ALS Vial : 11 Sample Multiplier: 1

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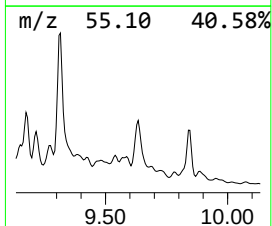
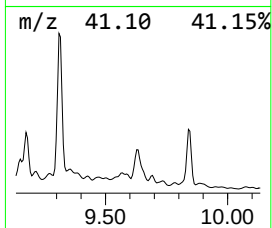
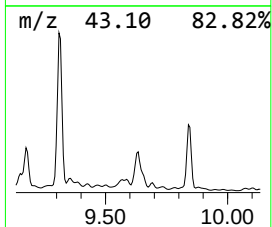
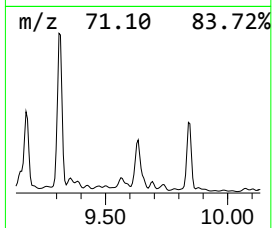
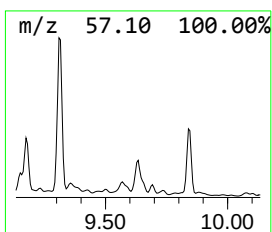
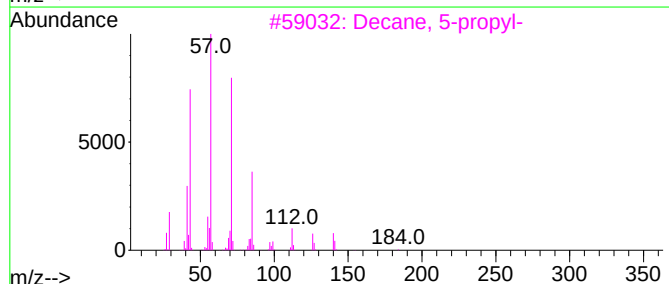
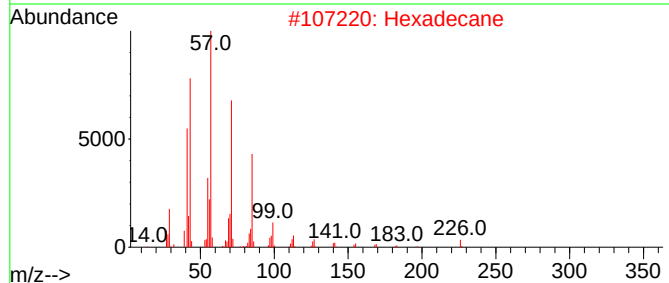
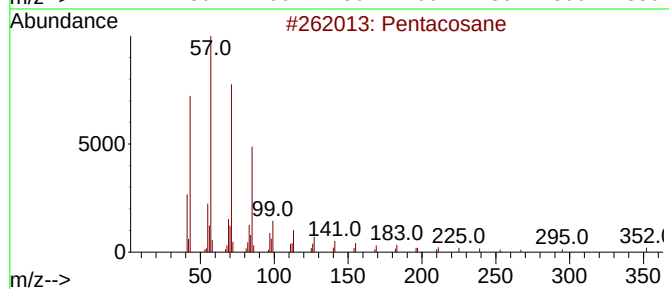
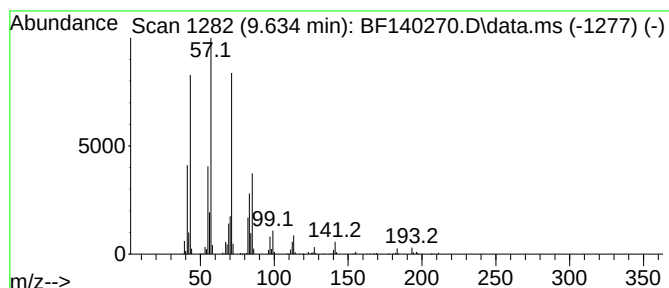
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Pentacosane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.634	15.89 ng	928547	Acenaphthene-d10	9.916

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Pentacosane	352	C25H52	000629-99-2	86
2		Hexadecane	226	C16H34	000544-76-3	83
3		Decane, 5-propyl-	184	C13H28	017312-62-8	81
4		Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	80
5		2,6,10-Trimethyltridecane	226	C16H34	003891-99-4	80



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140270.D
Acq On : 07 Nov 2024 13:07
Operator : RC/JU
Sample : P4718-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB01

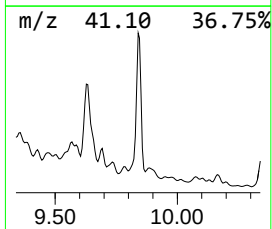
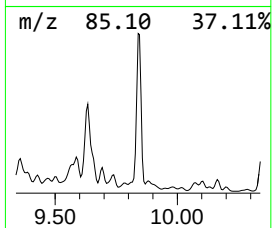
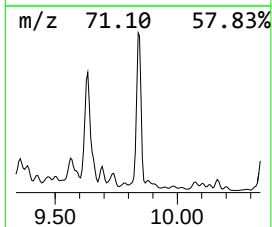
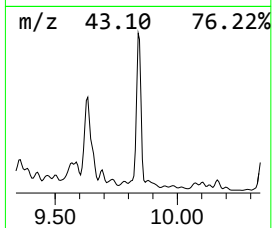
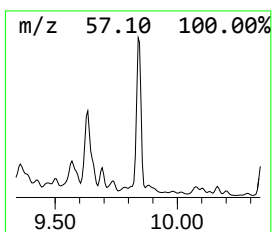
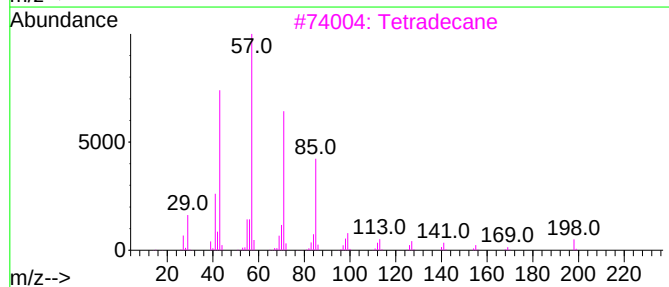
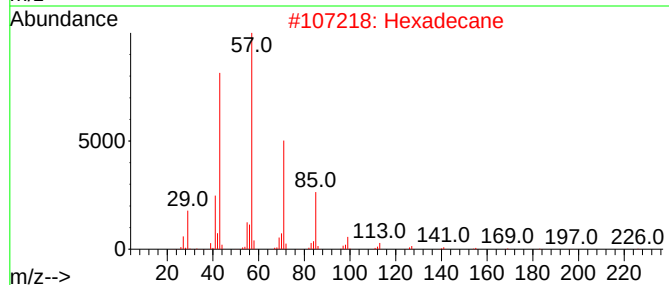
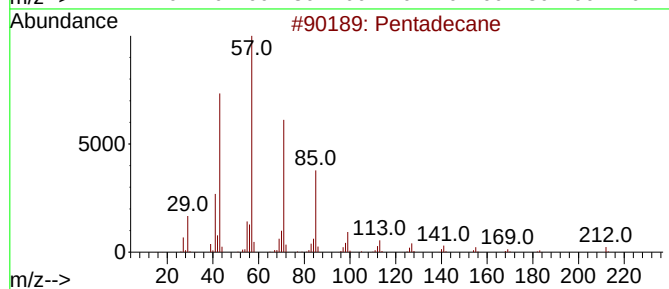
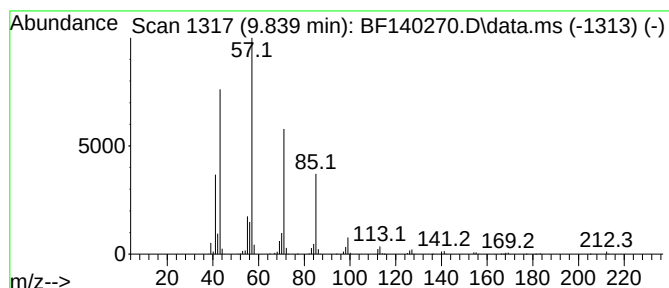
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Pentadecane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.839	17.03 ng	995440	Acenaphthene-d10	9.916

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Pentadecane	212	C15H32	000629-62-9	94
2		Hexadecane	226	C16H34	000544-76-3	90
3		Tetradecane	198	C14H30	000629-59-4	90
4		Tridecane	184	C13H28	000629-50-5	90
5		Tridecane, 1-iodo-	310	C13H27I	035599-77-0	78



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
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Acq On : 07 Nov 2024 13:07
Operator : RC/JU
Sample : P4718-01
Misc :
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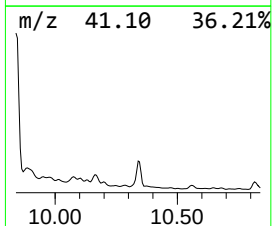
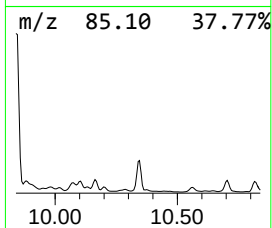
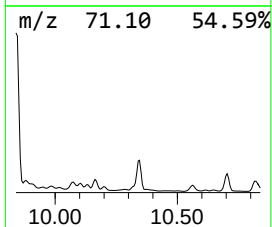
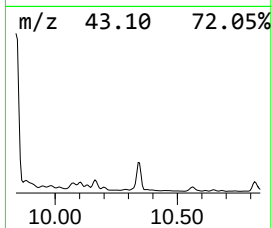
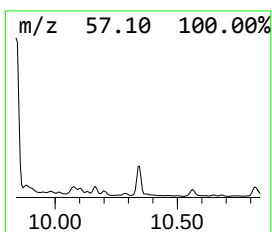
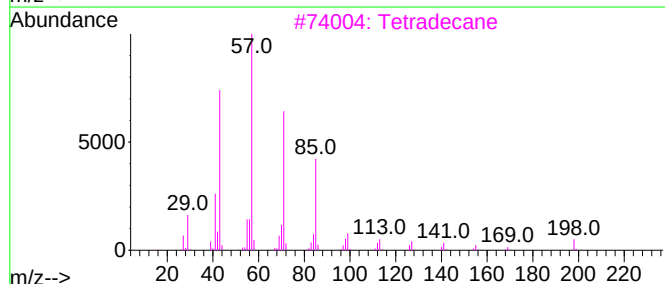
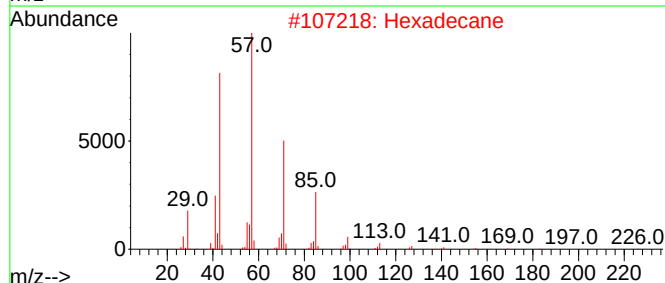
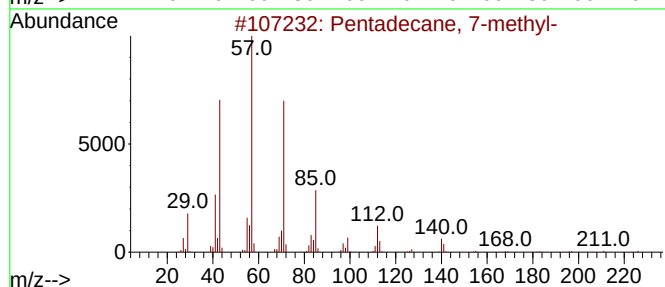
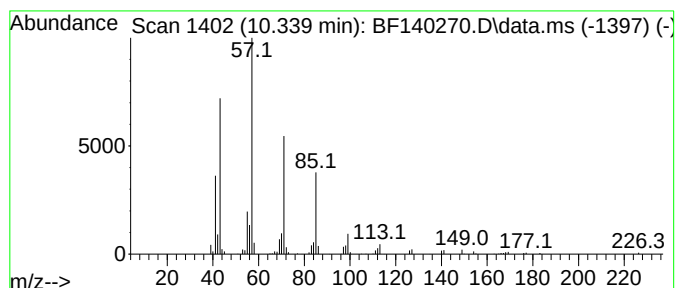
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 Pentadecane, 7-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.	
10.339	2.98 ng	173998	Acenaphthene-d10	9.916	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecane, 7-methyl-	226	C16H34	006165-40-8	91
2	Hexadecane	226	C16H34	000544-76-3	90
3	Tetradecane	198	C14H30	000629-59-4	86
4	Pentadecane	212	C15H32	000629-62-9	86
5	Nonadecane	268	C19H40	000629-92-5	80



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140270.D
Acq On : 07 Nov 2024 13:07
Operator : RC/JU
Sample : P4718-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

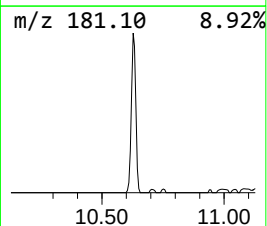
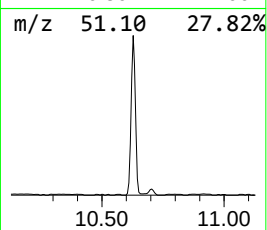
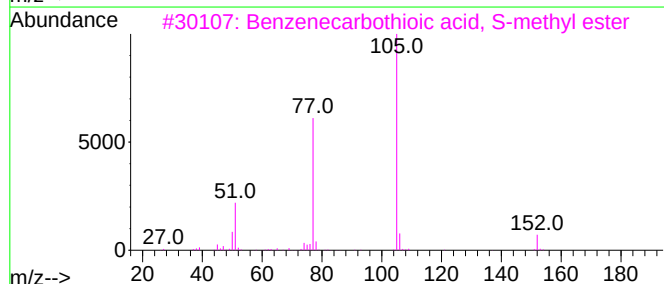
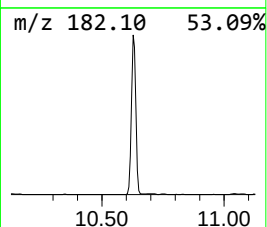
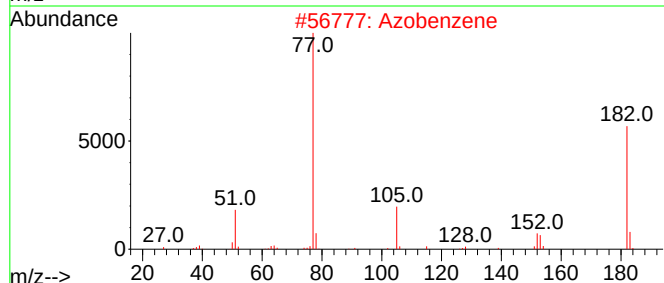
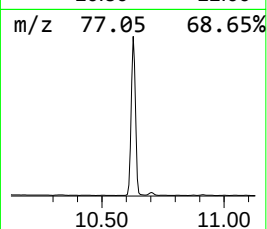
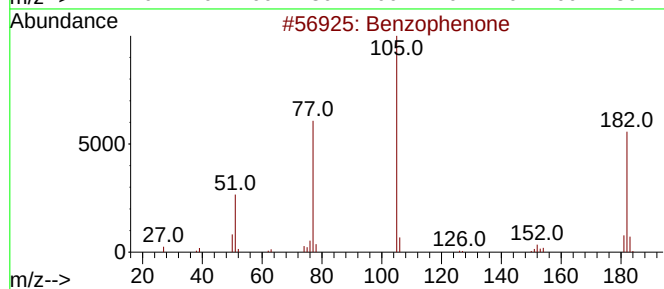
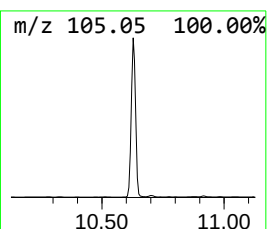
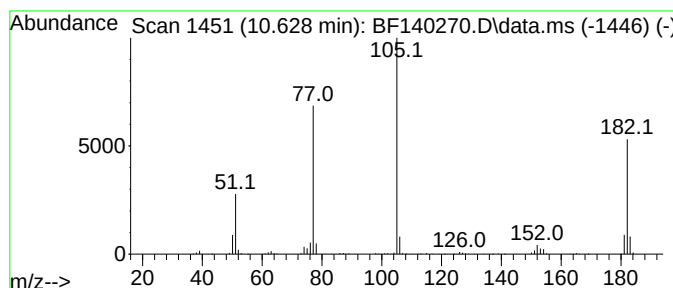
Instrument :
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ClientSampleId :
WB-307-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 Benzophenone Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.	
10.628	8.99 ng	525180	Acenaphthene-d10	9.916	
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	58
4	Pentafluoroethyl phenyl ketone	224	C9H5F5O	000394-52-5	47
5	Ethanone, 2,2,2-trifluoro-1-phenyl-	174	C8H5F3O	000434-45-7	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
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Acq On : 07 Nov 2024 13:07
Operator : RC/JU
Sample : P4718-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

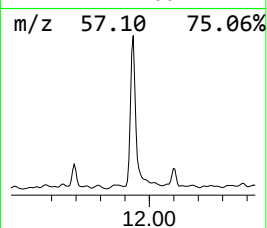
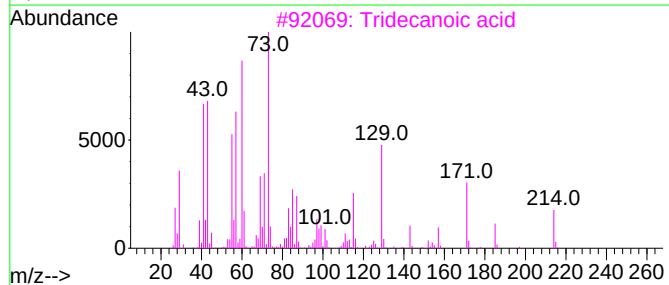
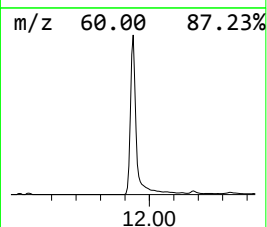
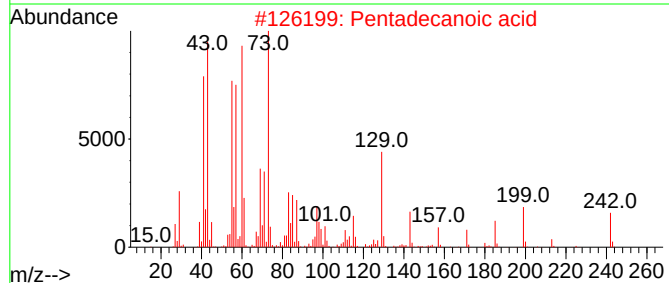
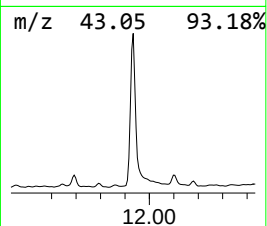
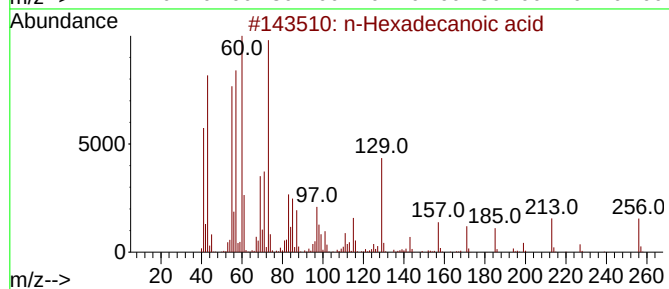
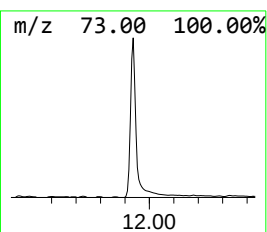
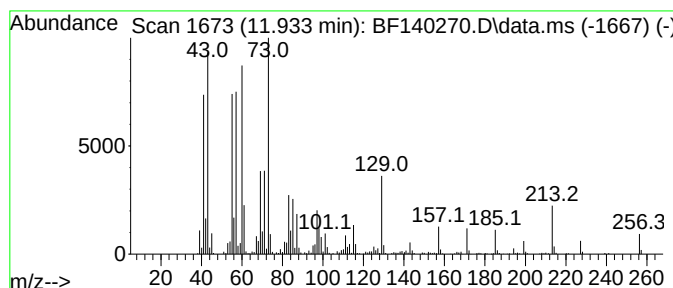
Instrument :
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ClientSampleId :
WB-307-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 n-Hexadecanoic acid Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD		R.T.	
11.933	12.86 ng	762182	Phenanthrene-d10		11.404	
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	91
3	Tridecanoic acid		214	C13H26O2	000638-53-9	90
4	Tetradecanoic acid		228	C14H28O2	000544-63-8	89
5	8-Methylnonanoic acid		172	C10H20O2	005963-14-4	55



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140270.D
Acq On : 07 Nov 2024 13:07
Operator : RC/JU
Sample : P4718-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

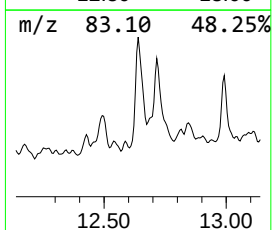
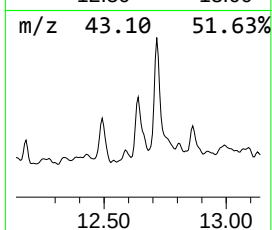
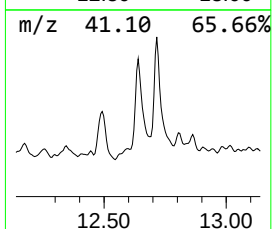
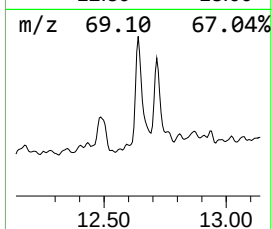
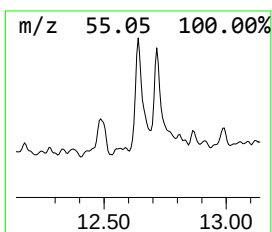
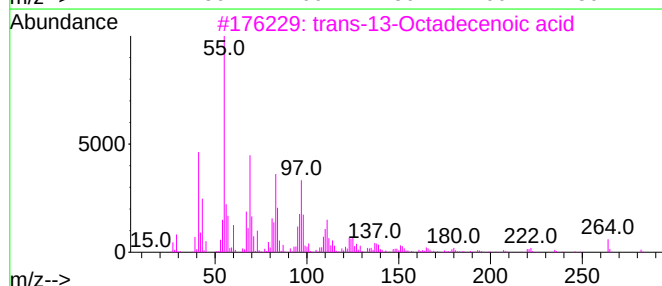
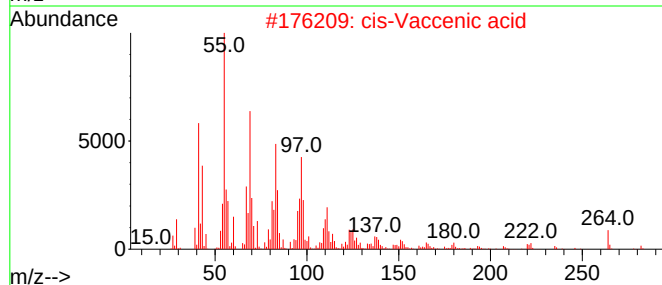
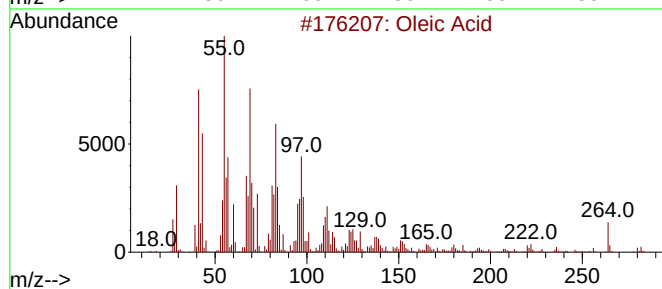
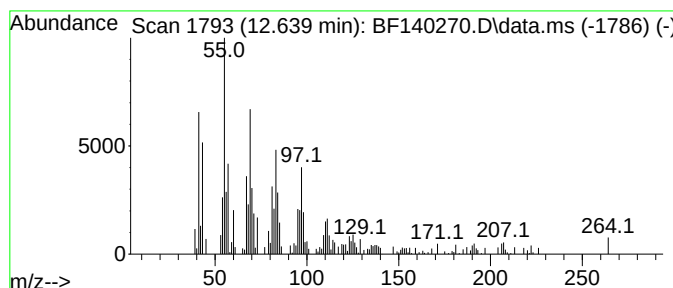
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Oleic Acid Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.	
12.639	2.81 ng	166262	Phenanthrene-d10	11.404	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oleic Acid	282	C18H34O2	000112-80-1	91
2	cis-Vaccenic acid	282	C18H34O2	000506-17-2	90
3	trans-13-Octadecenoic acid	282	C18H34O2	000693-71-0	87
4	cis-7-Hexadecenoic acid	254	C16H30O2	002416-19-5	87
5	cis-13-Octadecenoic acid	282	C18H34O2	013126-39-1	83



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
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Acq On : 07 Nov 2024 13:07
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Misc :
ALS Vial : 11 Sample Multiplier: 1

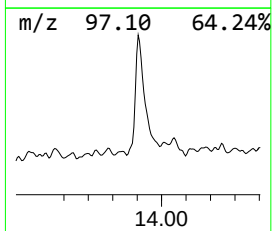
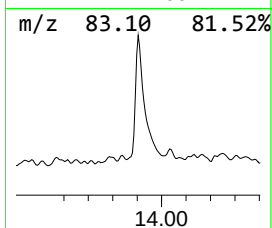
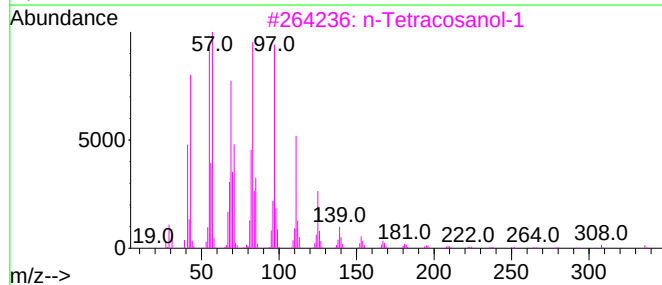
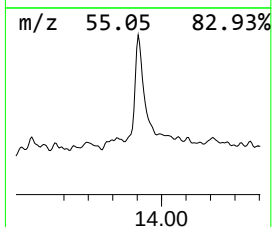
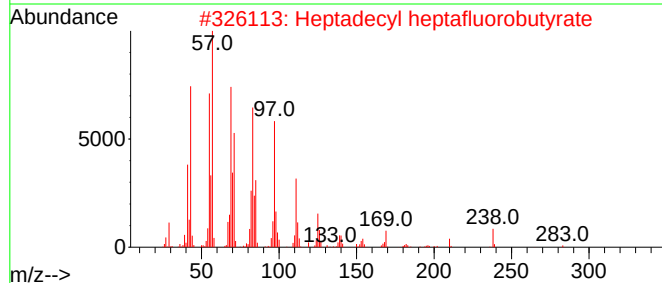
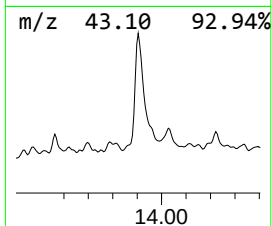
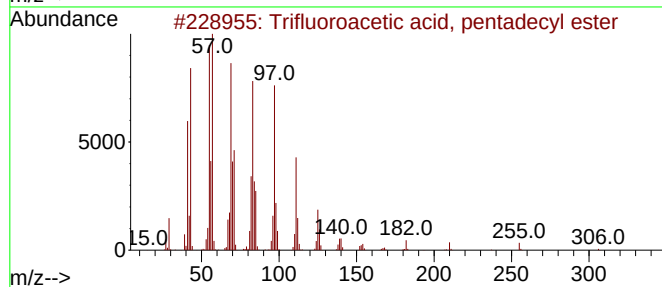
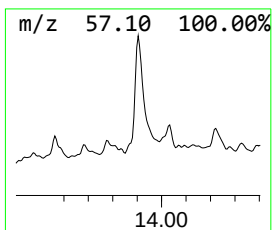
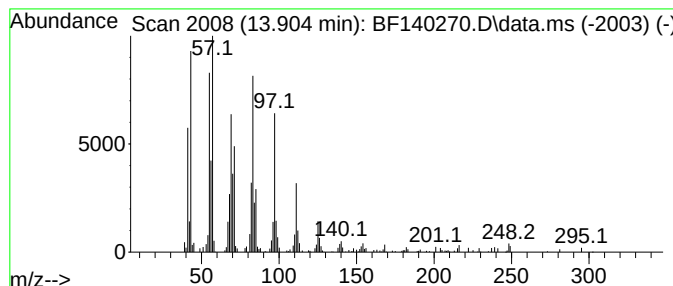
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 Trifluoroacetic acid, penta... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.	
13.904	5.58 ng	232375	Chrysene-d12	14.051	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Trifluoroacetic acid, pentadecyl...	324	C17H31F3O2	959010-23-2	94
2	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	94
3	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
4	Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	94
5	Behenic alcohol	326	C22H46O	000661-19-8	94



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140270.D
Acq On : 07 Nov 2024 13:07
Operator : RC/JU
Sample : P4718-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
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ClientSampleId :
WB-307-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.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
Butane, 2-metho...	2.163	86.8	ng	3432550	1	6.875	790786	20.0
Propane, 1,1-di...	2.275	3.1	ng	123318	1	6.875	790786	20.0
2-Pentanone, 4-...	5.099	20.5	ng	809578	1	6.875	790786	20.0
trans, cis-3-Et...	8.445	2.4	ng	149514	2	8.157	1252740	20.0
Sulfurous acid,...	8.575	4.2	ng	262957	2	8.157	1252740	20.0
Tridecane	8.745	16.4	ng	1024930	2	8.157	1252740	20.0
unknown8.804	8.804	3.8	ng	236590	2	8.157	1252740	20.0
Undecane, 5,5-d...	8.839	3.5	ng	218052	2	8.157	1252740	20.0
unknown9.034	9.034	5.4	ng	336096	2	8.157	1252740	20.0
2-Bromo dodecane	9.110	4.6	ng	266714	3	9.916	1168860	20.0
Undecane, 3-met...	9.151	3.6	ng	211700	3	9.916	1168860	20.0
Dodecane, 2,6,1...	9.175	12.9	ng	752282	3	9.916	1168860	20.0
Tetradecane	9.310	40.2	ng	2349160	3	9.916	1168860	20.0
Pentacosane	9.634	15.9	ng	928547	3	9.916	1168860	20.0
Pentadecane	9.839	17.0	ng	995440	3	9.916	1168860	20.0
Pentadecane, 7-...	10.339	3.0	ng	173998	3	9.916	1168860	20.0
Benzophenone	10.628	9.0	ng	525180	3	9.916	1168860	20.0
n-Hexadecanoic ...	11.933	12.9	ng	762182	4	11.404	1184910	20.0
Oleic Acid	12.639	2.8	ng	166262	4	11.404	1184910	20.0
Trifluoroacetic...	13.904	5.6	ng	232375	5	14.051	832279	20.0

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02	SDG No.:	P4718
Lab Sample ID:	P4718-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	77.6
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
BF140271.D	1	11/06/24 09:45	11/07/24 13:33	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	230	UQ	230	420	ug/Kg
108-95-2	Phenol	110	U	110	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	110	U	110	220	ug/Kg
95-57-8	2-Chlorophenol	110	U	110	220	ug/Kg
95-48-7	2-Methylphenol	100	U	100	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	120	U	120	220	ug/Kg
98-86-2	Acetophenone	110	U	110	220	ug/Kg
65794-96-9	3+4-Methylphenols	100	U	100	420	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	51.8	U	51.8	100	ug/Kg
67-72-1	Hexachloroethane	110	U	110	220	ug/Kg
98-95-3	Nitrobenzene	120	U	120	220	ug/Kg
78-59-1	Isophorone	110	U	110	220	ug/Kg
88-75-5	2-Nitrophenol	120	U	120	220	ug/Kg
105-67-9	2,4-Dimethylphenol	120	U	120	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	110	U	110	220	ug/Kg
120-83-2	2,4-Dichlorophenol	97.0	U	97.0	220	ug/Kg
91-20-3	Naphthalene	110	U	110	220	ug/Kg
106-47-8	4-Chloroaniline	110	UQ	110	220	ug/Kg
87-68-3	Hexachlorobutadiene	110	U	110	220	ug/Kg
105-60-2	Caprolactam	110	U	110	420	ug/Kg
59-50-7	4-Chloro-3-methylphenol	99.6	U	99.6	220	ug/Kg
91-57-6	2-Methylnaphthalene	110	U	110	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	200	UQ	200	420	ug/Kg
88-06-2	2,4,6-Trichlorophenol	91.8	U	91.8	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	95.1	U	95.1	220	ug/Kg
92-52-4	1,1-Biphenyl	110	U	110	220	ug/Kg
91-58-7	2-Chloronaphthalene	110	U	110	220	ug/Kg
88-74-4	2-Nitroaniline	120	U	120	220	ug/Kg
131-11-3	Dimethylphthalate	110	U	110	220	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02	SDG No.:	P4718
Lab Sample ID:	P4718-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	77.6
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
BF140271.D	1	11/06/24 09:45	11/07/24 13:33	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	110	U	110	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	110	U	110	220	ug/Kg
99-09-2	3-Nitroaniline	110	UQ	110	220	ug/Kg
83-32-9	Acenaphthene	100	U	100	220	ug/Kg
51-28-5	2,4-Dinitrophenol	310	U	310	420	ug/Kg
100-02-7	4-Nitrophenol	150	U	150	420	ug/Kg
132-64-9	Dibenzofuran	110	U	110	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	110	U	110	220	ug/Kg
84-66-2	Diethylphthalate	100	U	100	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	110	U	110	220	ug/Kg
86-73-7	Fluorene	110	U	110	220	ug/Kg
100-01-6	4-Nitroaniline	140	U	140	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	150	U	150	420	ug/Kg
86-30-6	n-Nitrosodiphenylamine	100	U	100	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	100	U	100	220	ug/Kg
118-74-1	Hexachlorobenzene	110	U	110	220	ug/Kg
1912-24-9	Atrazine	120	U	120	220	ug/Kg
87-86-5	Pentachlorophenol	99.3	U	99.3	420	ug/Kg
85-01-8	Phenanthrene	110	U	110	220	ug/Kg
120-12-7	Anthracene	110	U	110	220	ug/Kg
86-74-8	Carbazole	100	U	100	220	ug/Kg
84-74-2	Di-n-butylphthalate	110	U	110	220	ug/Kg
206-44-0	Fluoranthene	110	U	110	220	ug/Kg
129-00-0	Pyrene	110	U	110	220	ug/Kg
85-68-7	Butylbenzylphthalate	120	U	120	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	130	U	130	420	ug/Kg
56-55-3	Benzo(a)anthracene	100	U	100	220	ug/Kg
218-01-9	Chrysene	100	U	100	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	120	U	120	220	ug/Kg
117-84-0	Di-n-octyl phthalate	140	U	140	420	ug/Kg
205-99-2	Benzo(b)fluoranthene	100	U	100	220	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02	SDG No.:	P4718
Lab Sample ID:	P4718-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	77.6
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
BF140271.D	1	11/06/24 09:45	11/07/24 13:33	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	110	U	110	220	ug/Kg
50-32-8	Benzo(a)pyrene	120	U	120	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	100	U	100	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	100	U	100	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	100	U	100	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	110	U	110	220	ug/Kg
123-91-1	1,4-Dioxane	140	U	140	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	96.0	U	96.0	220	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	119		30 (18) - 130 (112)	79%	SPK: 150
13127-88-3	Phenol-d6	119		30 (15) - 130 (107)	79%	SPK: 150
4165-60-0	Nitrobenzene-d5	78.5		30 (18) - 130 (107)	78%	SPK: 100
321-60-8	2-Fluorobiphenyl	78.9		30 (20) - 130 (109)	79%	SPK: 100
118-79-6	2,4,6-Tribromophenol	134		30 (10) - 130 (116)	89%	SPK: 150
1718-51-0	Terphenyl-d14	81.5		30 (10) - 130 (105)	81%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	124000	6.875			
1146-65-2	Naphthalene-d8	467000	8.157			
15067-26-2	Acenaphthene-d10	269000	9.91			
1517-22-2	Phenanthrene-d10	500000	11.404			
1719-03-5	Chrysene-d12	297000	14.051			
1520-96-3	Perylene-d12	276000	15.557			

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	3500	JB		2.15	ug/Kg
004744-10-9	Propane, 1,1-dimethoxy-	120	J		2.26	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	790	AB		5.09	ug/Kg
000119-61-9	Benzophenone	360	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	460	J		11.9	ug/Kg
959085-66-6	Heptadecyl heptafluorobutyrate	210	J		13.9	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02	SDG No.:	P4718
Lab Sample ID:	P4718-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	77.6
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
BF140271.D	1	11/06/24 09:45	11/07/24 13:33	PB164702

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\BF110724\
Data File : BF140271.D
Acq On : 07 Nov 2024 13:33
Operator : RC/JU
Sample : P4718-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

Quant Time: Nov 07 14:06:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 16:47:56 2024
Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	123660	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	467420	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	268928	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	499705	20.000	ng	0.00
76) Chrysene-d12	14.051	240	296704	20.000	ng	-0.01
86) Perylene-d12	15.557	264	275946	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	888696	119.097	ng	0.00
7) Phenol-d6	6.498	99	1140564	118.835	ng	0.00
23) Nitrobenzene-d5	7.434	82	737853	78.484	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	355130	133.597	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	1329473	78.940	ng	0.00
79) Terphenyl-d14	12.992	244	1475896	81.486	ng	0.00

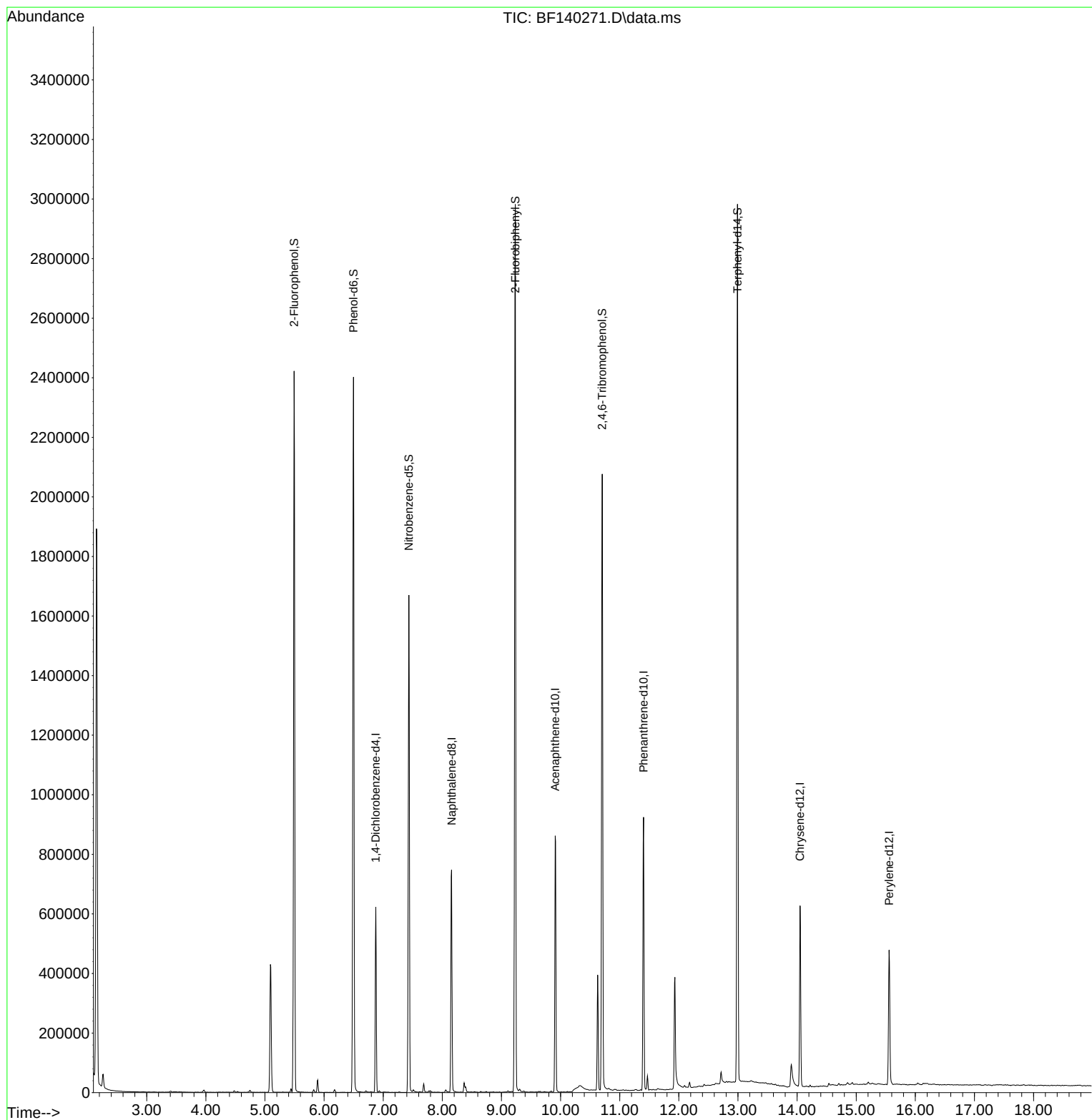
Target Compounds	Qvalue

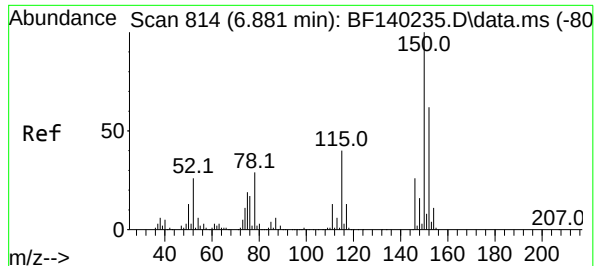
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140271.D
Acq On : 07 Nov 2024 13:33
Operator : RC/JU
Sample : P4718-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

Quant Time: Nov 07 14:06:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 16:47:56 2024
Response via : Initial Calibration

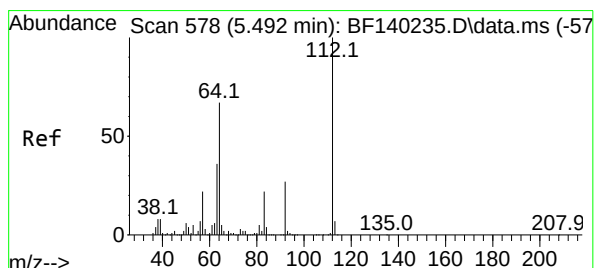
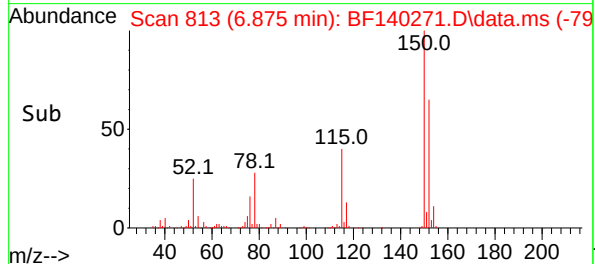
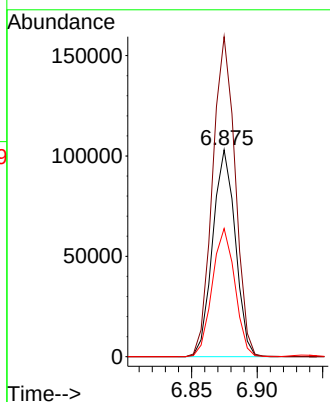
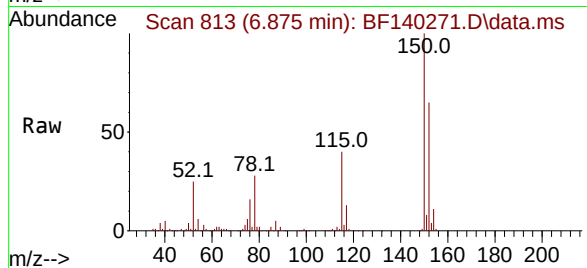




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 814
Delta R.T. -0.006 min
Lab File: BF140271.D
Acq: 07 Nov 2024 13:33

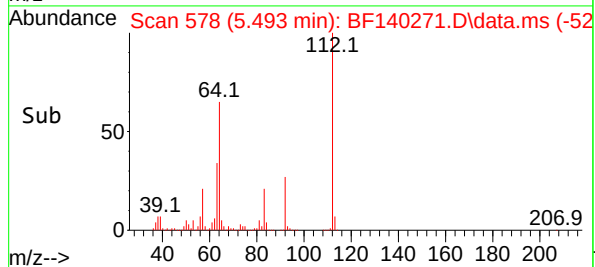
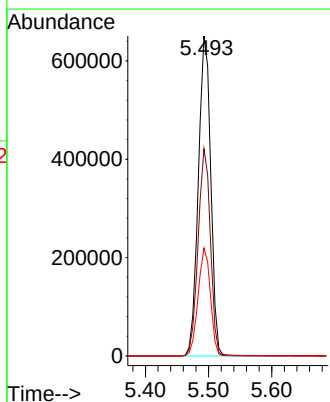
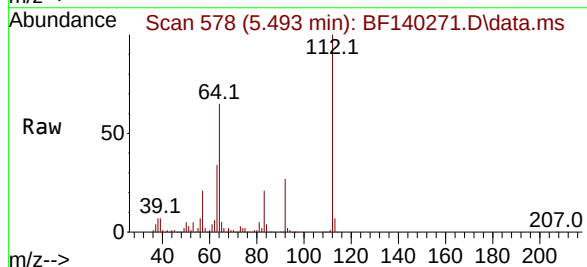
Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

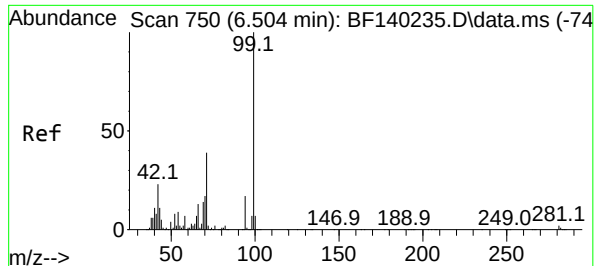
Tgt Ion:152 Resp: 123660
Ion Ratio Lower Upper
152 100
150 154.6 129.4 194.2
115 61.9 51.5 77.3



#5
2-Fluorophenol
Concen: 119.097 ng
RT: 5.493 min Scan# 578
Delta R.T. 0.000 min
Lab File: BF140271.D
Acq: 07 Nov 2024 13:33

Tgt Ion:112 Resp: 888696
Ion Ratio Lower Upper
112 100
64 64.8 53.4 80.2
63 33.7 28.9 43.3

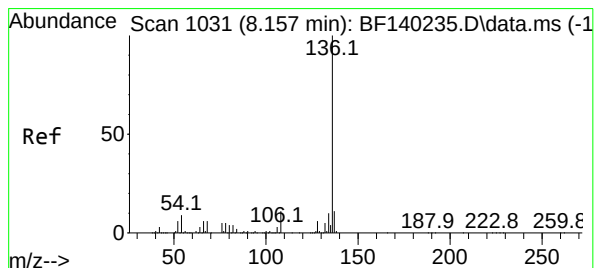
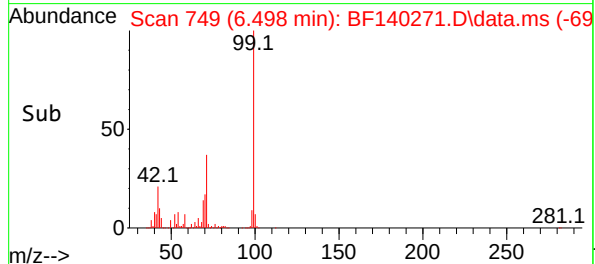
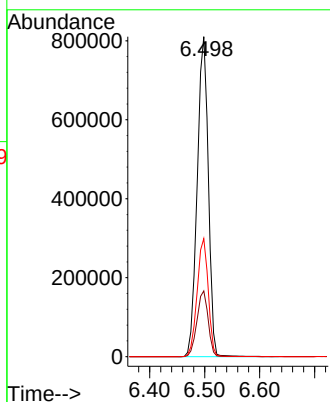
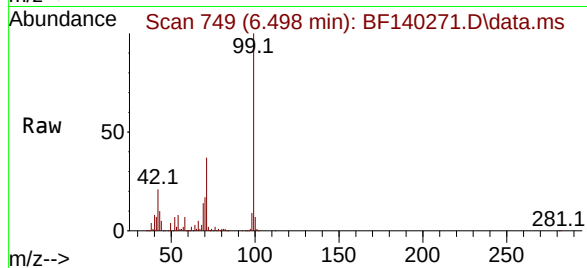




#7
Phenol-d6
Concen: 118.835 ng
RT: 6.498 min Scan# 74
Delta R.T. -0.006 min
Lab File: BF140271.D
Acq: 07 Nov 2024 13:33

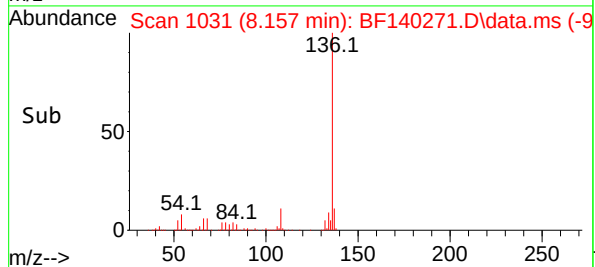
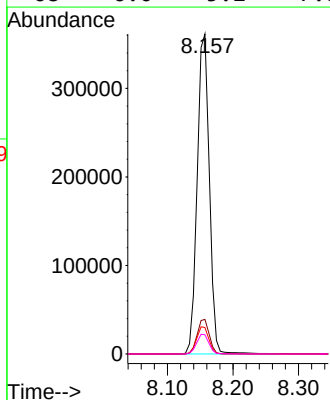
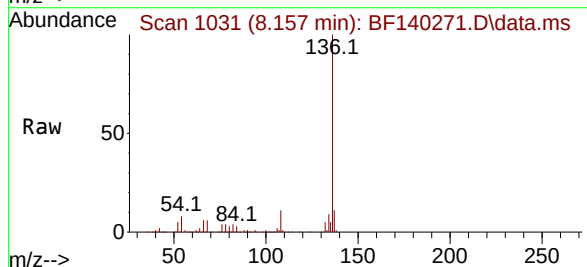
Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

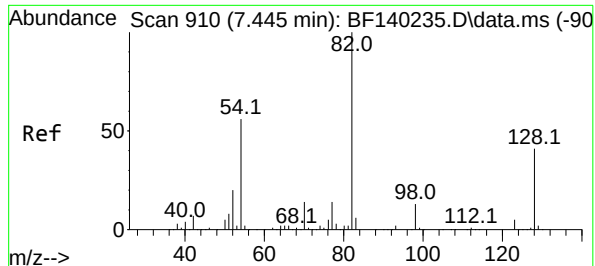
Tgt Ion: 99 Resp: 1140564
Ion Ratio Lower Upper
99 100
42 20.5 18.2 27.2
71 36.9 30.9 46.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1031
Delta R.T. 0.000 min
Lab File: BF140271.D
Acq: 07 Nov 2024 13:33

Tgt Ion: 136 Resp: 467420
Ion Ratio Lower Upper
136 100
137 10.8 9.0 13.6
54 8.2 7.7 11.5
68 6.0 5.2 7.8





#23

Nitrobenzene-d5

Concen: 78.484 ng

RT: 7.434 min Scan# 90

Delta R.T. -0.012 min

Lab File: BF140271.D

Acq: 07 Nov 2024 13:33

Instrument :

BNA_F

ClientSampleId :

WB-307-SB02

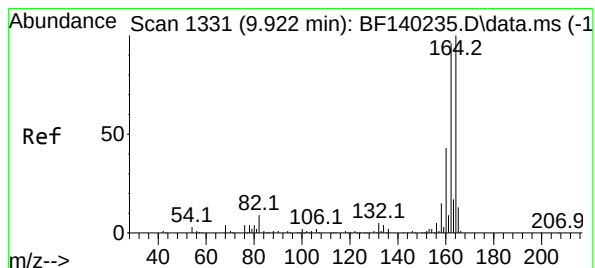
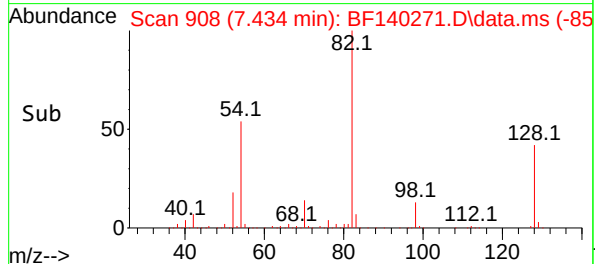
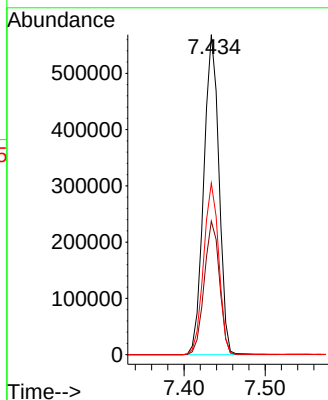
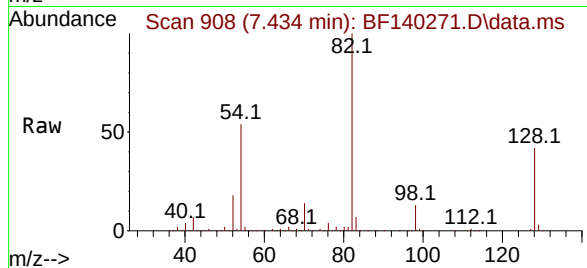
Tgt Ion: 82 Resp: 737853

Ion Ratio Lower Upper

82 100

128 41.7 32.8 49.2

54 53.6 44.3 66.5



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.910 min Scan# 1329

Delta R.T. -0.012 min

Lab File: BF140271.D

Acq: 07 Nov 2024 13:33

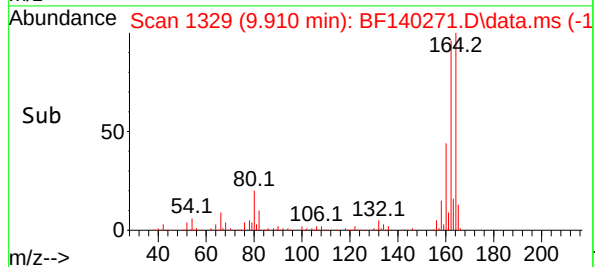
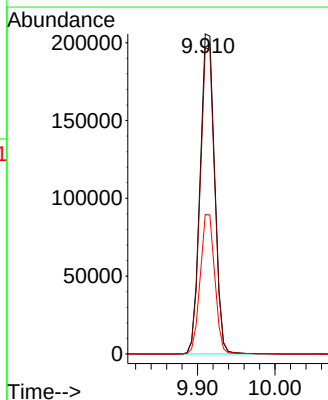
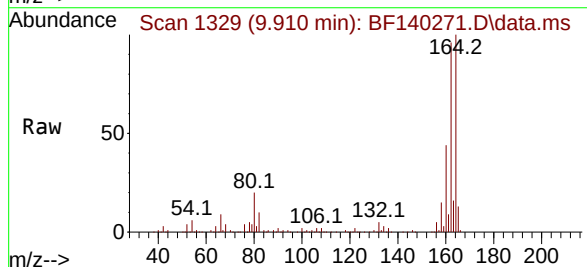
Tgt Ion:164 Resp: 268928

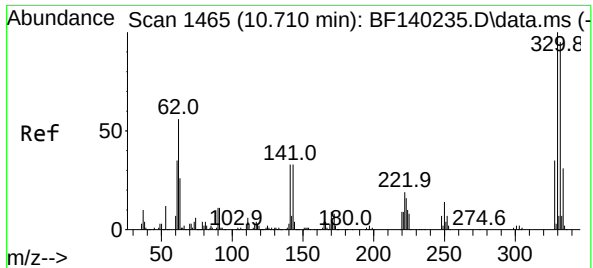
Ion Ratio Lower Upper

164 100

162 95.6 77.0 115.4

160 43.6 34.1 51.1

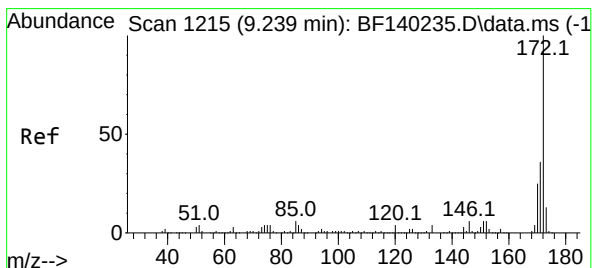
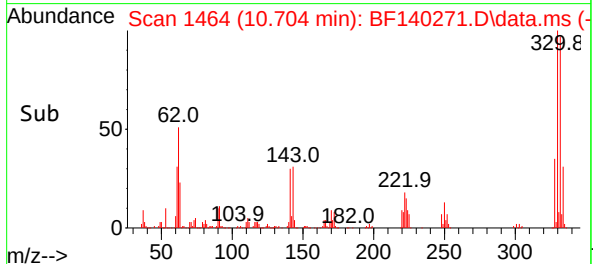
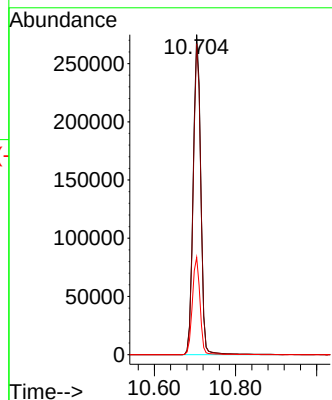
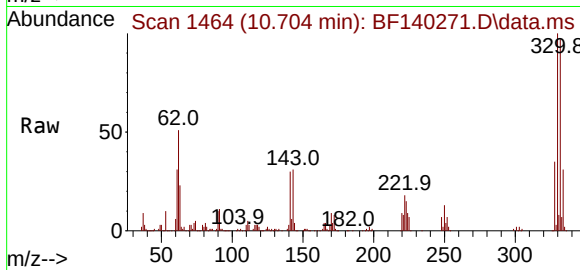




#42
2,4,6-Tribromophenol
Concen: 133.597 ng
RT: 10.704 min Scan# 1464
Delta R.T. -0.006 min
Lab File: BF140271.D
Acq: 07 Nov 2024 13:33

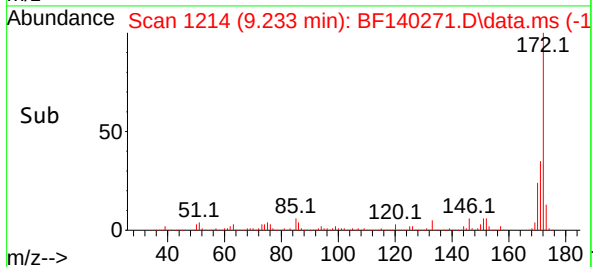
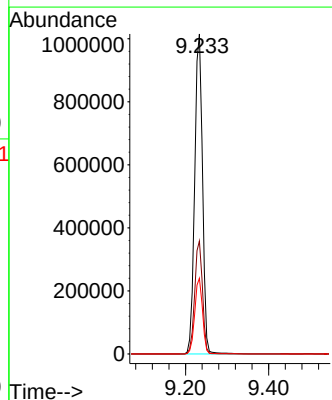
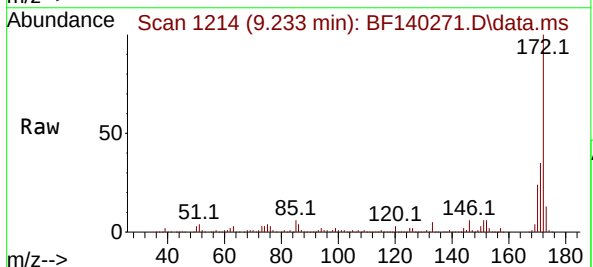
Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

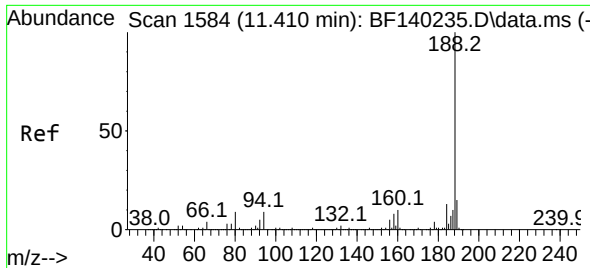
Tgt Ion:330 Resp: 355130
Ion Ratio Lower Upper
330 100
332 96.9 76.4 114.6
141 30.6 27.0 40.4



#45
2-Fluorobiphenyl
Concen: 78.940 ng
RT: 9.233 min Scan# 1214
Delta R.T. -0.006 min
Lab File: BF140271.D
Acq: 07 Nov 2024 13:33

Tgt Ion:172 Resp: 1329473
Ion Ratio Lower Upper
172 100
171 35.3 28.8 43.2
170 23.7 19.6 29.4

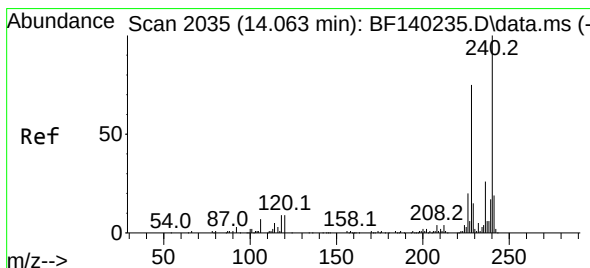
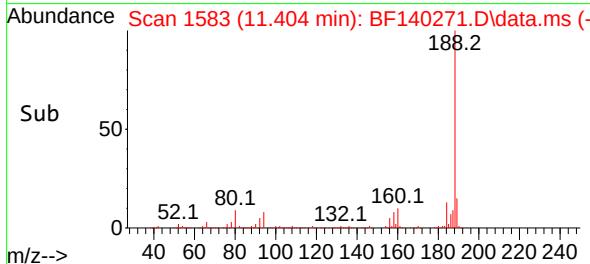
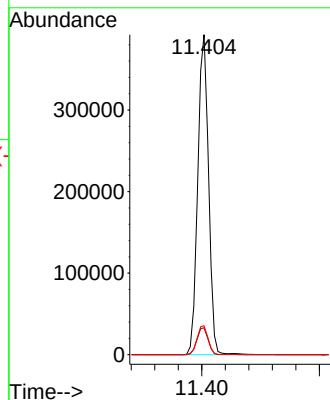
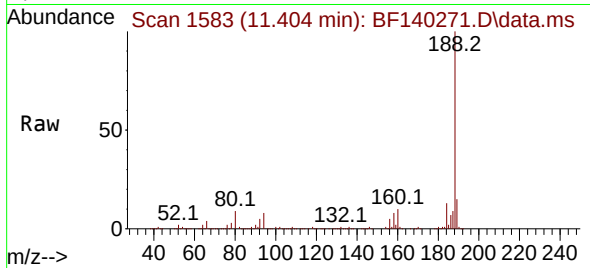




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF140271.D
Acq: 07 Nov 2024 13:33

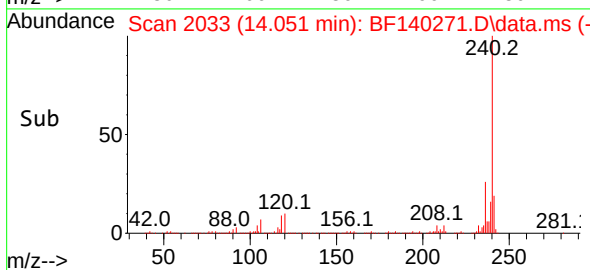
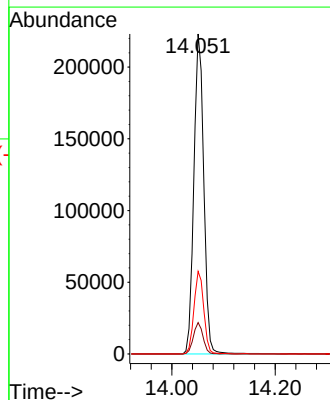
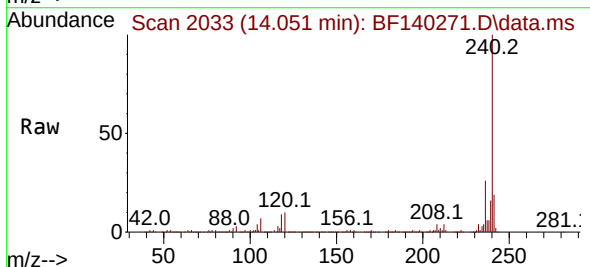
Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

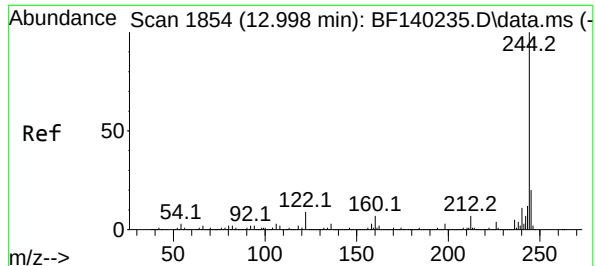
Tgt Ion:188 Resp: 499705
Ion Ratio Lower Upper
188 100
94 8.4 6.9 10.3
80 9.1 7.5 11.3



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. -0.012 min
Lab File: BF140271.D
Acq: 07 Nov 2024 13:33

Tgt Ion:240 Resp: 296704
Ion Ratio Lower Upper
240 100
120 9.8 7.5 11.3
236 25.8 20.9 31.3





#79

Terphenyl-d14

Concen: 81.486 ng

RT: 12.992 min Scan# 1853

Delta R.T. -0.006 min

Lab File: BF140271.D

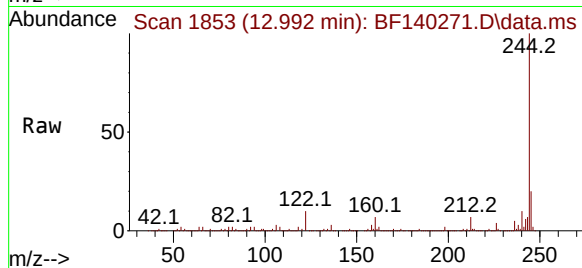
Acq: 07 Nov 2024 13:33

Instrument :

BNA_F

ClientSampleId :

WB-307-SB02



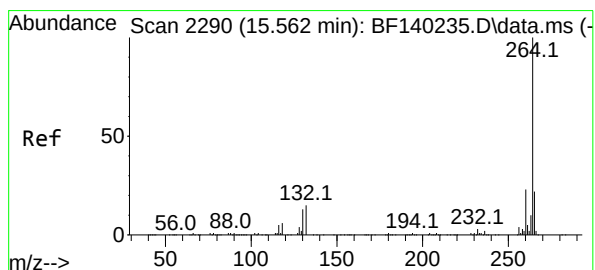
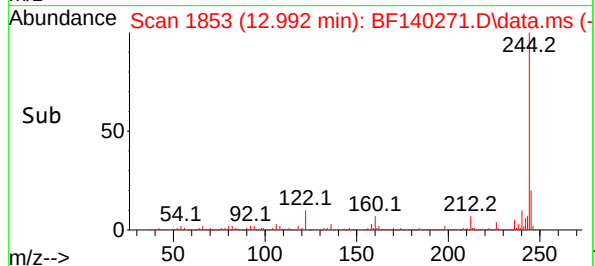
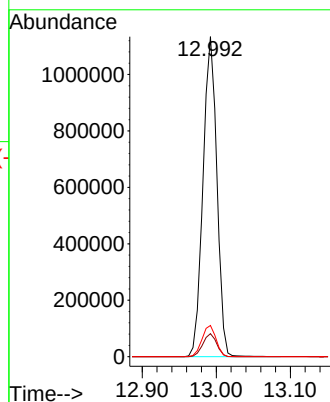
Tgt Ion:244 Resp: 1475896

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

122 9.7 7.6 11.4



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.557 min Scan# 2289

Delta R.T. -0.006 min

Lab File: BF140271.D

Acq: 07 Nov 2024 13:33

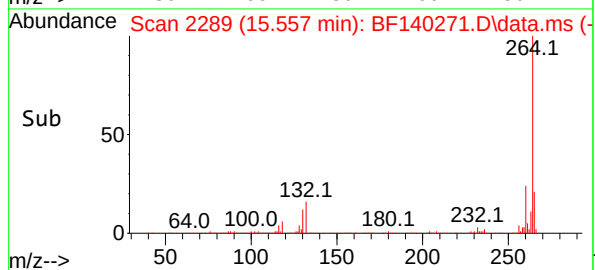
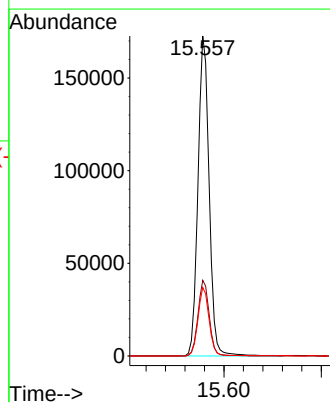
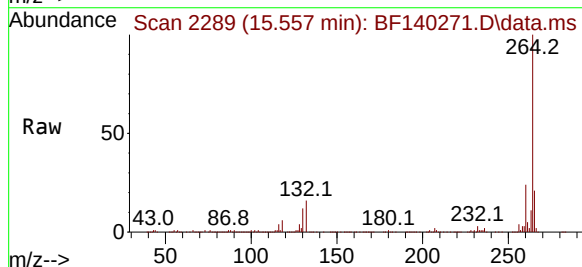
Tgt Ion:264 Resp: 275946

Ion Ratio Lower Upper

264 100

260 23.7 18.8 28.2

265 21.4 17.3 25.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140271.D
Acq On : 07 Nov 2024 13:33
Operator : RC/JU
Sample : P4718-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

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-BF110524.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140271.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.152	4	10	24	rVB	1870938	3034273	78.12%	10.047%
2	2.263	24	29	45	rVB	52128	106866	2.75%	0.354%
3	5.093	499	510	525	rBV	429344	693416	17.85%	2.296%
4	5.493	572	578	583	rBV	2420566	3262416	83.99%	10.802%
5	5.893	641	646	654	rVB	41202	52420	1.35%	0.174%
6	6.498	742	749	754	rBV	2400763	3383033	87.10%	11.201%
7	6.875	808	813	818	rBV	621523	747533	19.25%	2.475%
8	7.434	902	908	913	rBV	1669482	2161700	55.65%	7.158%
9	8.157	1025	1031	1046	rVB	746699	970018	24.97%	3.212%
10	8.369	1063	1067	1070	rBV	31261	44488	1.15%	0.147%
11	9.233	1207	1214	1219	rBV	2979779	3884222	100.00%	12.861%
12	9.910	1324	1329	1342	rVB	860195	1115525	28.72%	3.694%
13	10.322	1375	1399	1401	rBV2	21139	106099	2.73%	0.351%
14	10.628	1446	1451	1458	rBV	386506	472958	12.18%	1.566%
15	10.704	1458	1464	1479	rBV	2067895	2676150	68.90%	8.861%
16	11.404	1577	1583	1589	rBV	916856	1170394	30.13%	3.875%
17	11.469	1590	1594	1598	rVB3	47286	57221	1.47%	0.189%
18	11.933	1667	1673	1696	rBV	374933	633879	16.32%	2.099%
19	12.716	1802	1806	1817	rBV2	39006	75230	1.94%	0.249%
20	12.992	1847	1853	1858	rBV	2946491	3836198	98.76%	12.702%
21	13.904	2002	2008	2027	rBV	73524	193068	4.97%	0.639%
22	14.051	2028	2033	2042	rVB	606825	802585	20.66%	2.657%
23	15.557	2283	2289	2300	rBV	451949	722116	18.59%	2.391%

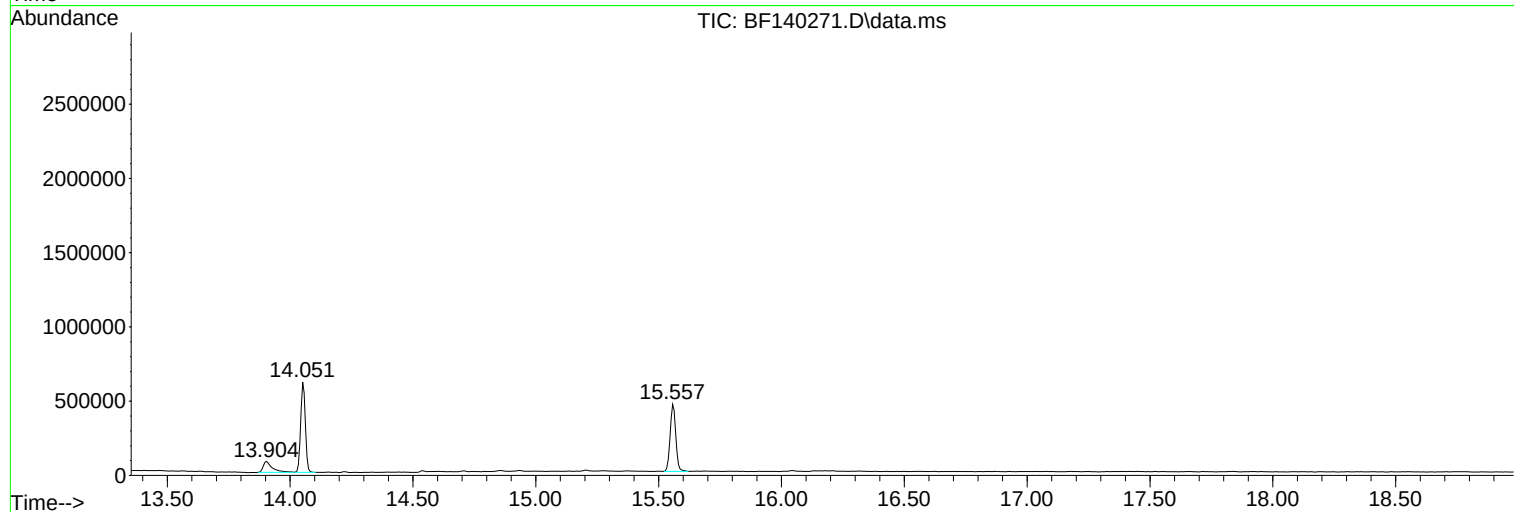
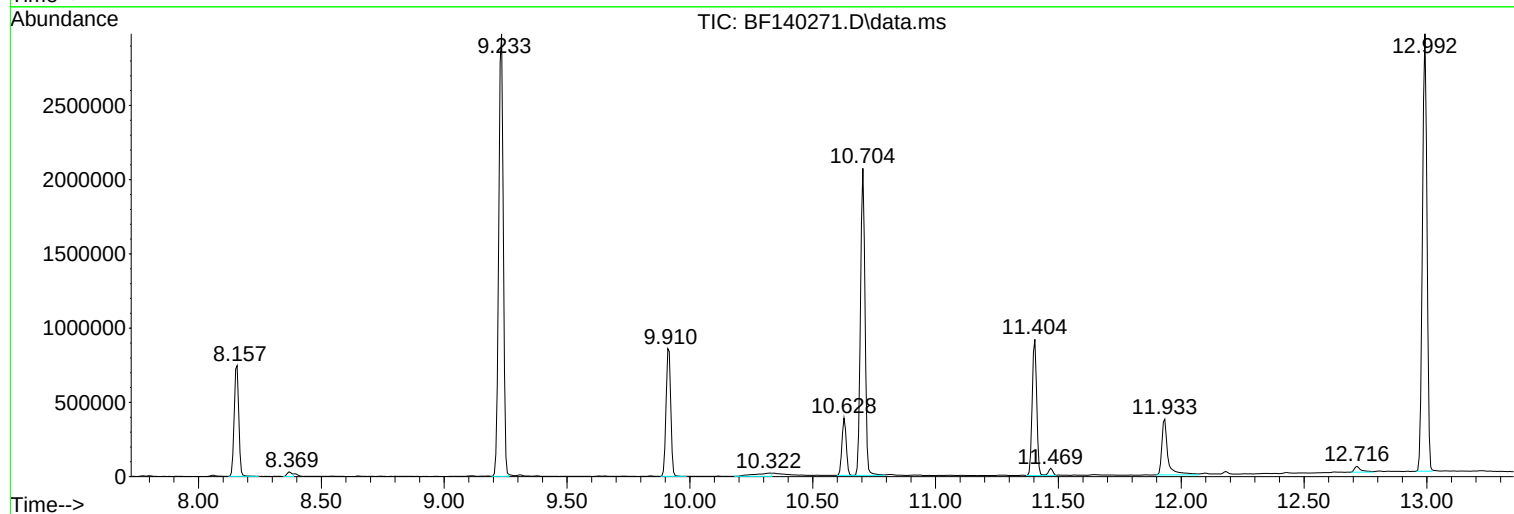
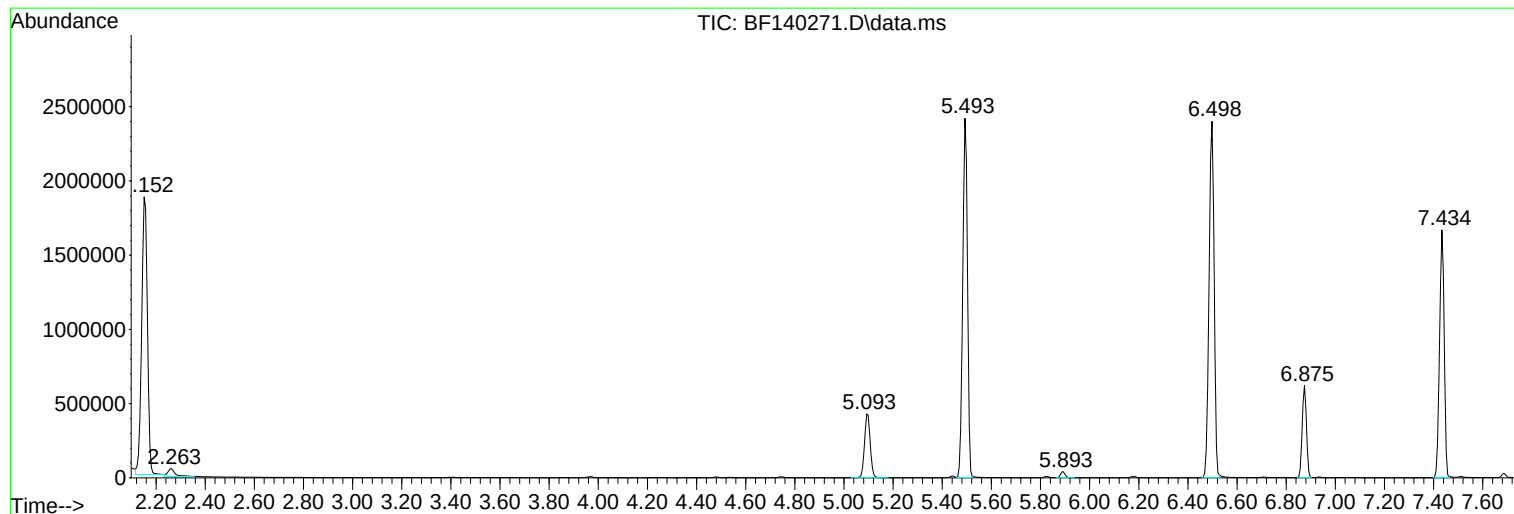
Sum of corrected areas: 30201808

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140271.D
Acq On : 07 Nov 2024 13:33
Operator : RC/JU
Sample : P4718-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.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\BF110724\
Data File : BF140271.D
Acq On : 07 Nov 2024 13:33
Operator : RC/JU
Sample : P4718-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

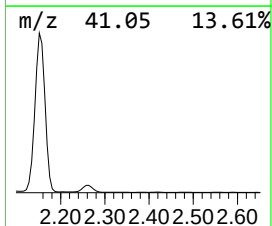
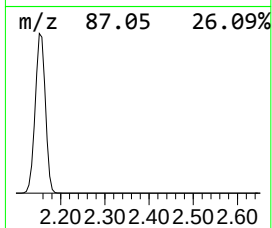
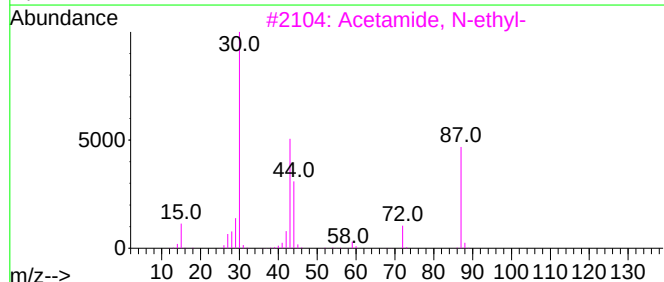
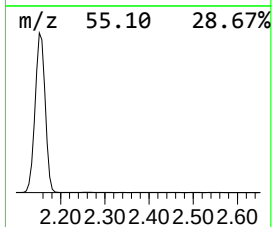
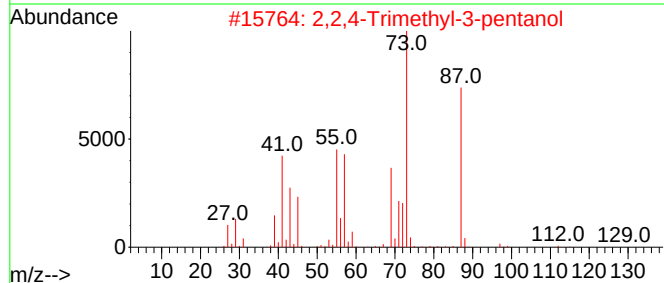
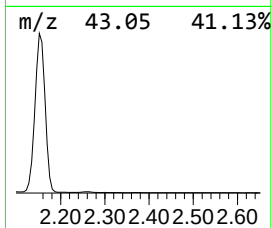
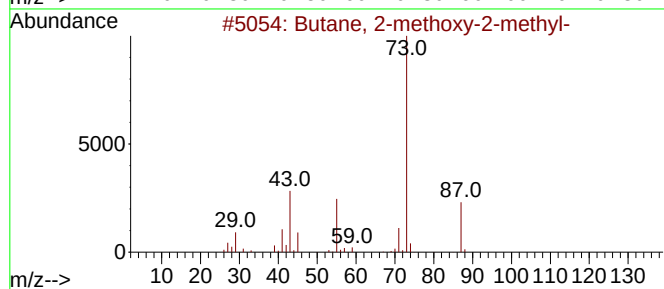
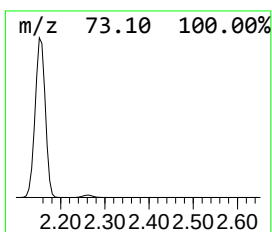
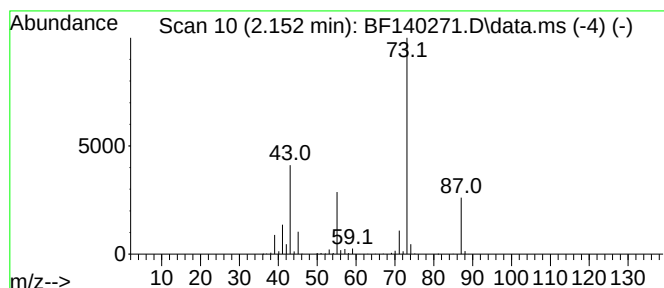
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.152	81.18 ng	3034270	1,4-Dichlorobenzene-d4	6.875

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2			2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3			Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	27
4			1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
5			Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140271.D
Acq On : 07 Nov 2024 13:33
Operator : RC/JU
Sample : P4718-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

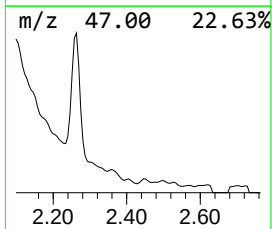
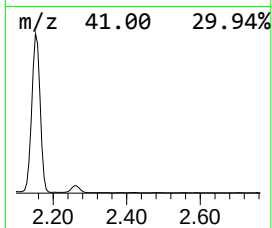
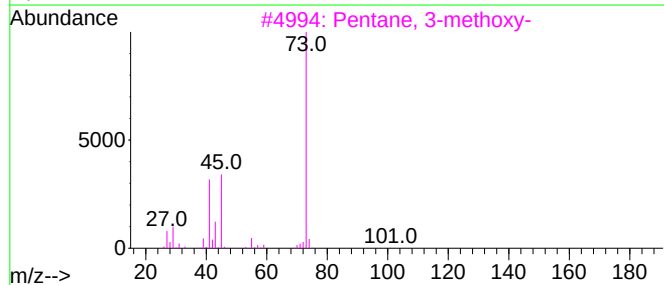
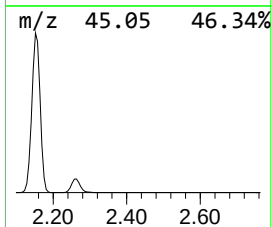
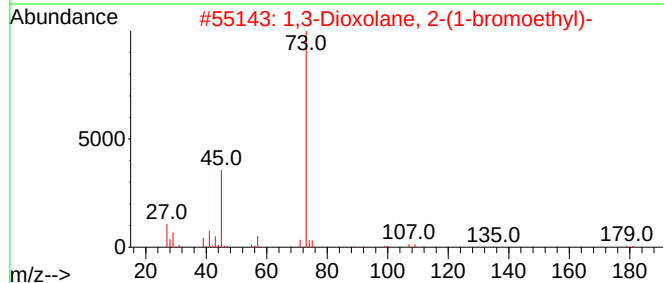
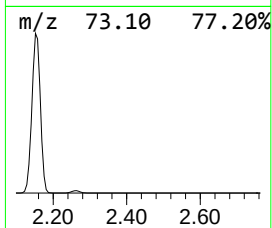
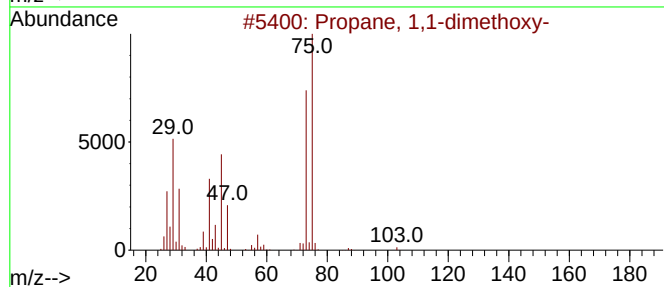
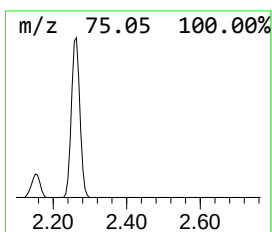
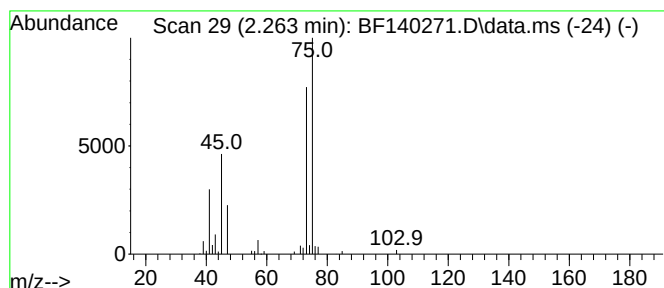
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 Propane, 1,1-dimethoxy- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.263	2.86 ng	106866	1,4-Dichlorobenzene-d4	6.875

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Propane, 1,1-dimethoxy-	104	C5H12O2	004744-10-9	83
2			1,3-Dioxolane, 2-(1-bromoethyl)-	180	C5H9BrO2	005267-73-2	27
3			Pentane, 3-methoxy-	102	C6H14O	036839-67-5	27
4			Methane, isothiocyanato-	73	C2H3NS	000556-61-6	9
5			1-Cyclohexyl-3-ethoxy-butan-2-one	198	C12H22O2	074897-69-1	9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140271.D
Acq On : 07 Nov 2024 13:33
Operator : RC/JU
Sample : P4718-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

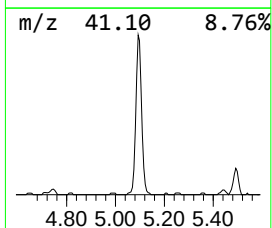
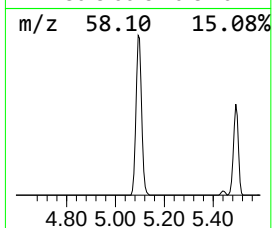
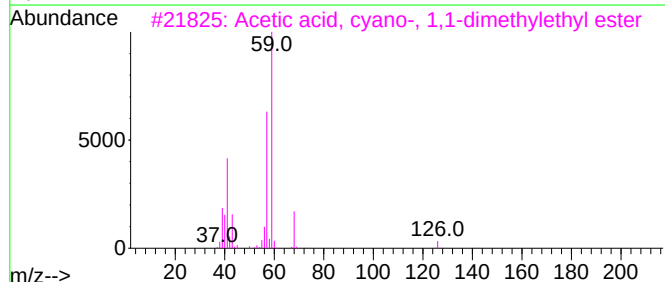
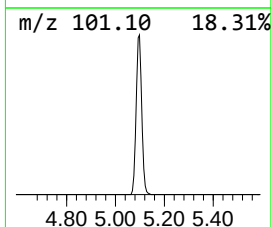
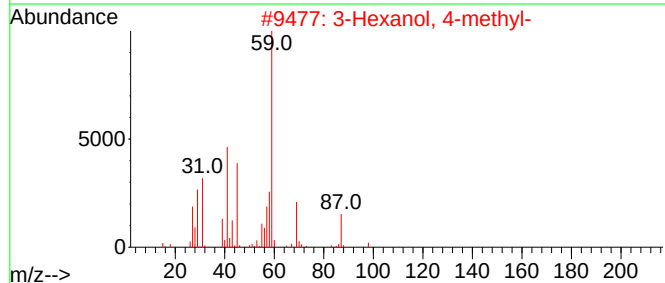
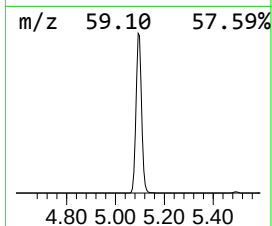
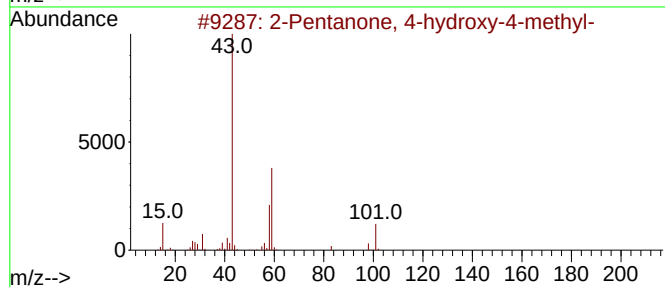
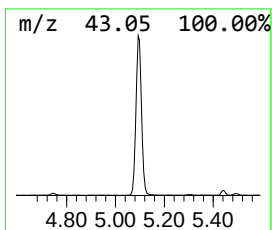
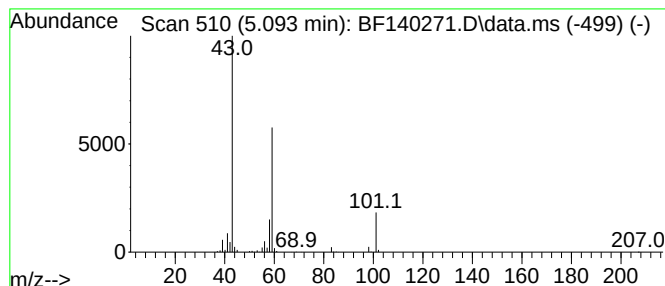
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.093	18.55 ng	693416	1,4-Dichlorobenzene-d4	6.875

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2			3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
3			Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
4			1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5			2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140271.D
Acq On : 07 Nov 2024 13:33
Operator : RC/JU
Sample : P4718-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

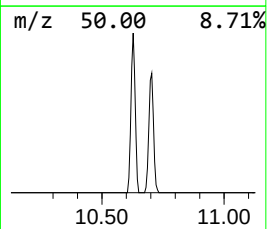
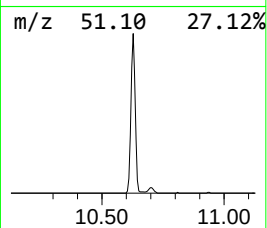
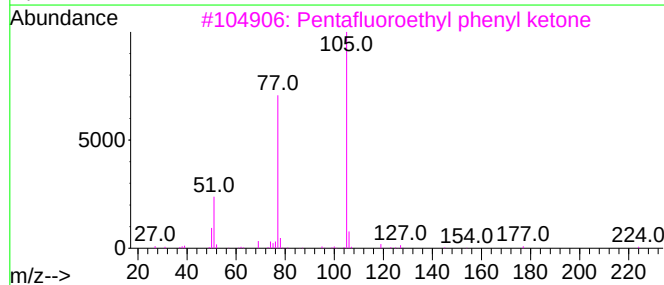
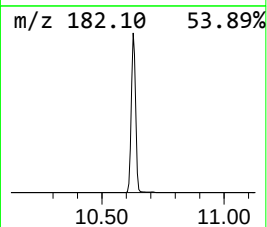
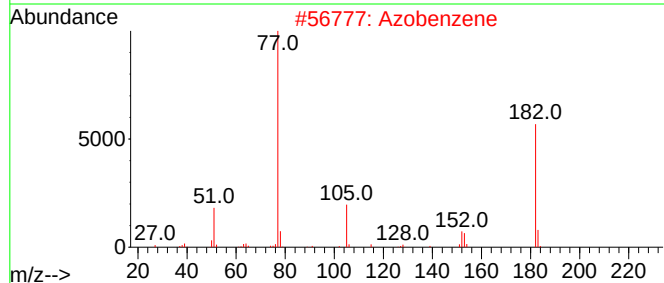
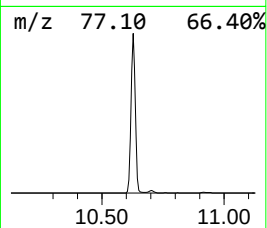
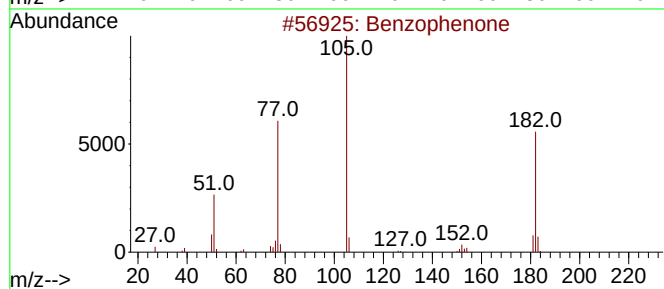
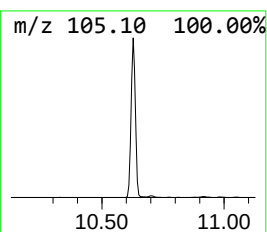
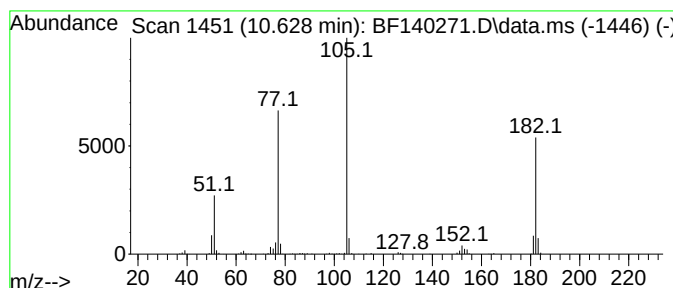
Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 Benzophenone Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.	
10.628	8.48 ng	472958	Acenaphthene-d10	9.910	
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	Pentafluoroethyl phenyl ketone	224	C9H5F5O	000394-52-5	47
4	Benzilamide	227	C14H13NO2	004746-87-6	47
5	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140271.D
Acq On : 07 Nov 2024 13:33
Operator : RC/JU
Sample : P4718-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

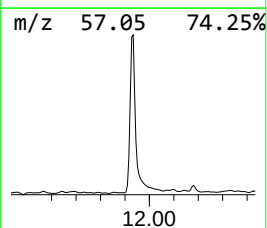
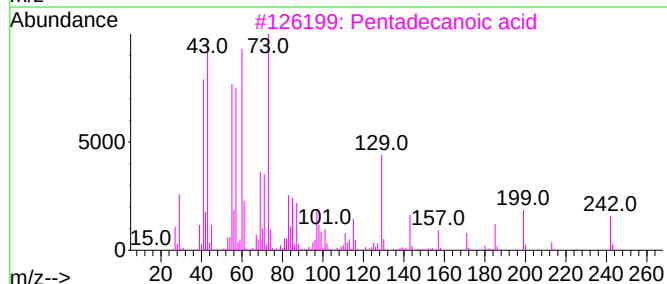
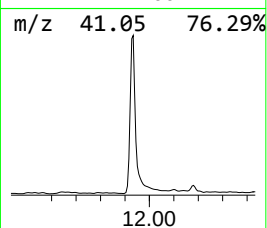
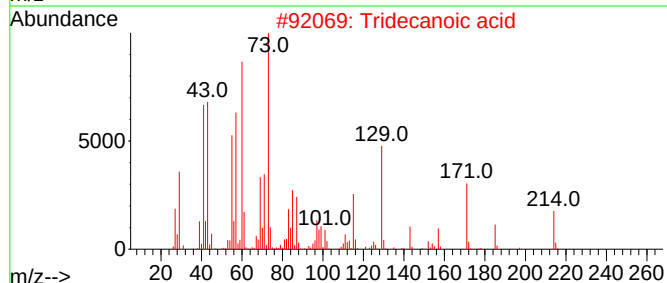
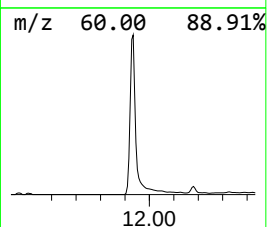
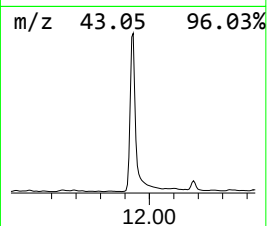
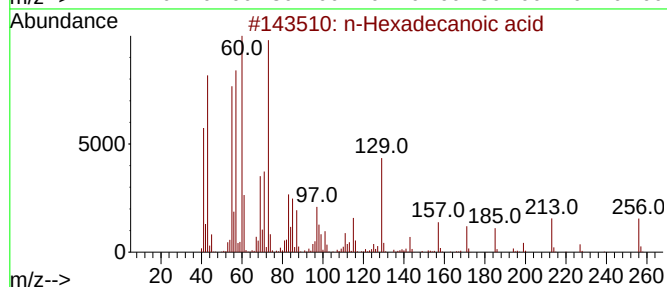
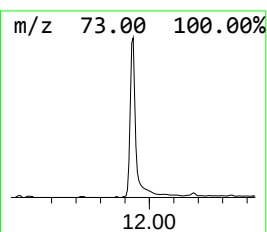
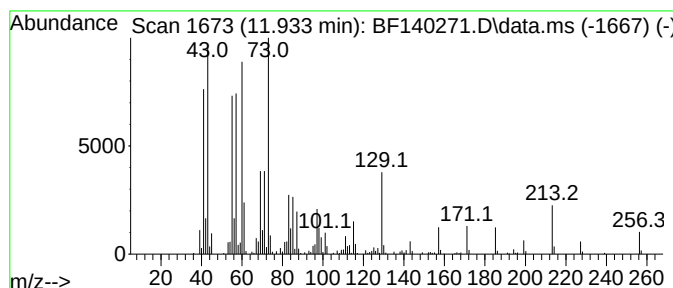
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.933	10.83 ng	633879	Phenanthrene-d10	11.404

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	95
3			Pentadecanoic acid	242	C15H30O2	001002-84-2	91
4			Tetradecanoic acid	228	C14H28O2	000544-63-8	80
5			Dodecanoic acid	200	C12H24O2	000143-07-7	74



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140271.D
Acq On : 07 Nov 2024 13:33
Operator : RC/JU
Sample : P4718-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

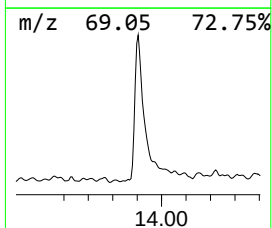
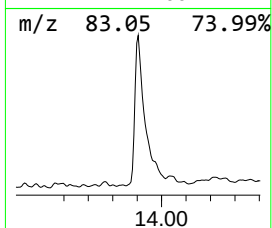
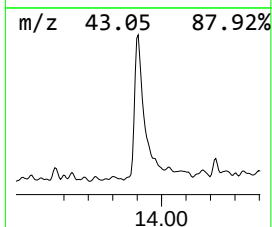
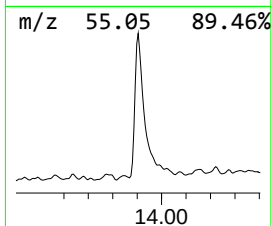
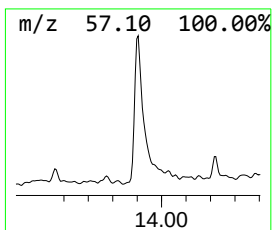
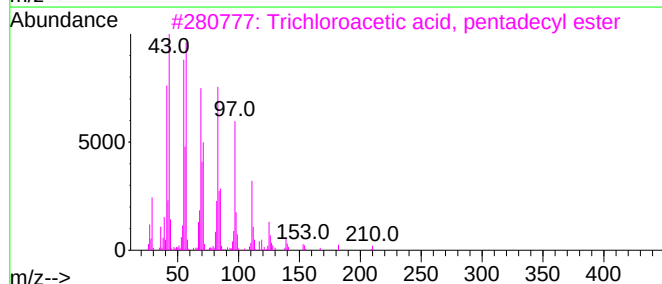
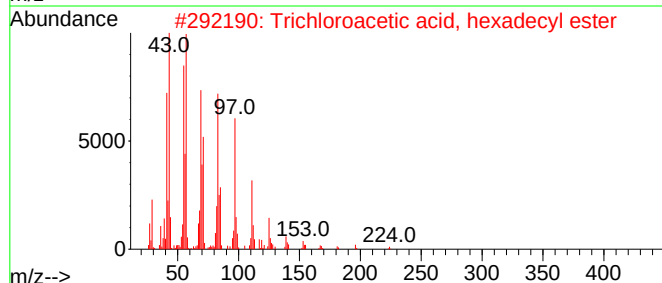
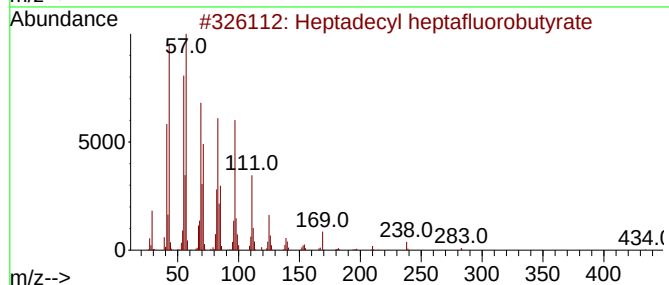
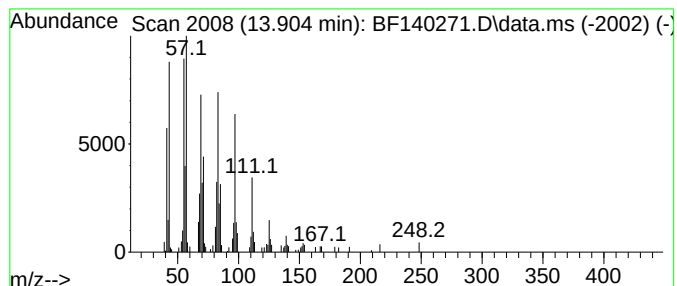
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Heptadecyl heptafluorobutyrate Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	4.81 ng	193068	Chrysene-d12	14.051

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	95
2		Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	94
3		Trichloroacetic acid, pentadecyl...	372	C17H31Cl3O2	074339-53-0	94
4		1-Heneicosanol	312	C21H44O	015594-90-8	93
5		Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	93



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140271.D
Acq On : 07 Nov 2024 13:33
Operator : RC/JU
Sample : P4718-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.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
Butane, 2-metho...	2.152	81.2	ng	3034270	1	6.875	747533	20.0
Propane, 1,1-di...	2.263	2.9	ng	106866	1	6.875	747533	20.0
2-Pentanone, 4-...	5.093	18.6	ng	693416	1	6.875	747533	20.0
Benzophenone	10.628	8.5	ng	472958	3	9.910	1115530	20.0
n-Hexadecanoic ...	11.933	10.8	ng	633879	4	11.404	1170390	20.0
Heptadecyl hept...	13.904	4.8	ng	193068	5	14.051	802585	20.0

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SW	SDG No.:	P4718
Lab Sample ID:	P4718-04	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	450 Units: mL	Final Vol:	500 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140363.D	1	11/09/24 08:38	11/14/24 15:39	PB164846

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.40	UQ	4.40	11.1	ug/L
108-95-2	Phenol	1.00	U	1.00	5.60	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.30	U	1.30	5.60	ug/L
95-57-8	2-Chlorophenol	0.79	U	0.79	5.60	ug/L
95-48-7	2-Methylphenol	1.30	U	1.30	5.60	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.50	U	1.50	5.60	ug/L
98-86-2	Acetophenone	1.20	U	1.20	5.60	ug/L
65794-96-9	3+4-Methylphenols	1.30	U	1.30	11.1	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.60	U	1.60	2.80	ug/L
67-72-1	Hexachloroethane	1.10	U	1.10	5.60	ug/L
98-95-3	Nitrobenzene	1.40	U	1.40	5.60	ug/L
78-59-1	Isophorone	1.30	U	1.30	5.60	ug/L
88-75-5	2-Nitrophenol	2.20	U	2.20	5.60	ug/L
105-67-9	2,4-Dimethylphenol	1.70	U	1.70	5.60	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.10	U	1.10	5.60	ug/L
120-83-2	2,4-Dichlorophenol	0.98	U	0.98	5.60	ug/L
91-20-3	Naphthalene	1.10	U	1.10	5.60	ug/L
106-47-8	4-Chloroaniline	1.40	UQ	1.40	5.60	ug/L
87-68-3	Hexachlorobutadiene	1.40	U	1.40	5.60	ug/L
105-60-2	Caprolactam	1.80	U	1.80	11.1	ug/L
59-50-7	4-Chloro-3-methylphenol	0.93	U	0.93	5.60	ug/L
91-57-6	2-Methylnaphthalene	1.30	U	1.30	5.60	ug/L
77-47-4	Hexachlorocyclopentadiene	5.60	UQ	5.60	11.1	ug/L
88-06-2	2,4,6-Trichlorophenol	0.99	U	0.99	5.60	ug/L
95-95-4	2,4,5-Trichlorophenol	1.10	U	1.10	5.60	ug/L
92-52-4	1,1-Biphenyl	1.00	U	1.00	5.60	ug/L
91-58-7	2-Chloronaphthalene	1.10	U	1.10	5.60	ug/L
88-74-4	2-Nitroaniline	1.60	U	1.60	5.60	ug/L
131-11-3	Dimethylphthalate	1.00	U	1.00	5.60	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SW	SDG No.:	P4718
Lab Sample ID:	P4718-04	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	450 Units: mL	Final Vol:	500 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140363.D	1	11/09/24 08:38	11/14/24 15:39	PB164846

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.20	U	1.20	5.60	ug/L
606-20-2	2,6-Dinitrotoluene	1.40	U	1.40	5.60	ug/L
99-09-2	3-Nitroaniline	1.50	UQ	1.50	5.60	ug/L
83-32-9	Acenaphthene	0.90	U	0.90	5.60	ug/L
51-28-5	2,4-Dinitrophenol	7.10	U	7.10	11.1	ug/L
100-02-7	4-Nitrophenol	2.20	U	2.20	11.1	ug/L
132-64-9	Dibenzofuran	1.00	U	1.00	5.60	ug/L
121-14-2	2,4-Dinitrotoluene	1.70	U	1.70	5.60	ug/L
84-66-2	Diethylphthalate	1.20	U	1.20	5.60	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.10	U	1.10	5.60	ug/L
86-73-7	Fluorene	1.10	U	1.10	5.60	ug/L
100-01-6	4-Nitroaniline	2.30	U	2.30	5.60	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.40	U	3.40	11.1	ug/L
86-30-6	n-Nitrosodiphenylamine	0.99	U	0.99	5.60	ug/L
101-55-3	4-Bromophenyl-phenylether	1.10	U	1.10	5.60	ug/L
118-74-1	Hexachlorobenzene	1.30	U	1.30	5.60	ug/L
1912-24-9	Atrazine	1.40	U	1.40	5.60	ug/L
87-86-5	Pentachlorophenol	2.10	U	2.10	11.1	ug/L
85-01-8	Phenanthrene	0.99	U	0.99	5.60	ug/L
120-12-7	Anthracene	1.20	U	1.20	5.60	ug/L
86-74-8	Carbazole	1.30	U	1.30	5.60	ug/L
84-74-2	Di-n-butylphthalate	1.60	U	1.60	5.60	ug/L
206-44-0	Fluoranthene	1.40	U	1.40	5.60	ug/L
129-00-0	Pyrene	1.20	U	1.20	5.60	ug/L
85-68-7	Butylbenzylphthalate	2.30	U	2.30	5.60	ug/L
91-94-1	3,3-Dichlorobenzidine	1.40	UQ	1.40	11.1	ug/L
56-55-3	Benzo(a)anthracene	1.00	U	1.00	5.60	ug/L
218-01-9	Chrysene	0.96	U	0.96	5.60	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	2.10	U	2.10	5.60	ug/L
117-84-0	Di-n-octyl phthalate	2.80	U	2.80	11.1	ug/L
205-99-2	Benzo(b)fluoranthene	1.30	U	1.30	5.60	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SW	SDG No.:	P4718
Lab Sample ID:	P4718-04	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	450 Units: mL	Final Vol:	500 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140363.D	1	11/09/24 08:38	11/14/24 15:39	PB164846

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.30	U	1.30	5.60	ug/L
50-32-8	Benzo(a)pyrene	1.90	U	1.90	5.60	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.10	U	1.10	5.60	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.30	U	1.30	5.60	ug/L
191-24-2	Benzo(g,h,i)perylene	1.30	U	1.30	5.60	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.20	U	1.20	5.60	ug/L
123-91-1	1,4-Dioxane	1.40	U	1.40	5.60	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.88	U	0.88	5.60	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	35.2		15 (10) - 110 (139)	23%	SPK: 150
13127-88-3	Phenol-d6	30.7		15 (10) - 110 (134)	20%	SPK: 150
4165-60-0	Nitrobenzene-d5	35.6		30 (49) - 130 (133)	36%	SPK: 100
321-60-8	2-Fluorobiphenyl	36.4		30 (52) - 130 (132)	36%	SPK: 100
118-79-6	2,4,6-Tribromophenol	48.6		15 (44) - 110 (137)	32%	SPK: 150
1718-51-0	Terphenyl-d14	39.4		30 (48) - 130 (125)	39%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	137000	6.869			
1146-65-2	Naphthalene-d8	514000	8.151			
15067-26-2	Acenaphthene-d10	281000	9.904			
1517-22-2	Phenanthrene-d10	486000	11.392			
1719-03-5	Chrysene-d12	241000	14.045			
1520-96-3	Perylene-d12	265000	15.562			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	250	JB		2.16	ug/L
000123-86-4	Acetic acid, butyl ester	3.30	J		4.74	ug/L
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	10.5	AB		5.09	ug/L
000119-61-9	Benzophenone	5.40	J		10.6	ug/L
000057-10-3	n-Hexadecanoic acid	3.30	J		11.9	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SW	SDG No.:	P4718
Lab Sample ID:	P4718-04	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	450 Units: mL	Final Vol:	500 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140363.D	1	11/09/24 08:38	11/14/24 15:39	PB164846

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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\BF111424\
Data File : BF140363.D
Acq On : 14 Nov 2024 15:39
Operator : RC/JU
Sample : P4718-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SW

Quant Time: Nov 14 18:19:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	137046	20.000	ng	-0.01
21) Naphthalene-d8	8.151	136	514015	20.000	ng	0.00
39) Acenaphthene-d10	9.904	164	280819	20.000	ng	-0.01
64) Phenanthrene-d10	11.392	188	486241	20.000	ng	-0.01
76) Chrysene-d12	14.045	240	241422	20.000	ng	0.00
86) Perylene-d12	15.562	264	265329	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.492	112	564887	70.376	ng	0.00
7) Phenol-d6	6.492	99	668570	61.479	ng	-0.01
23) Nitrobenzene-d5	7.433	82	702982	71.257	ng	0.00
42) 2,4,6-Tribromophenol	10.698	330	271410	97.192	ng	0.00
45) 2-Fluorobiphenyl	9.227	172	1271885	72.809	ng	0.00
79) Terphenyl-d14	12.980	244	1095780	78.785	ng	0.00

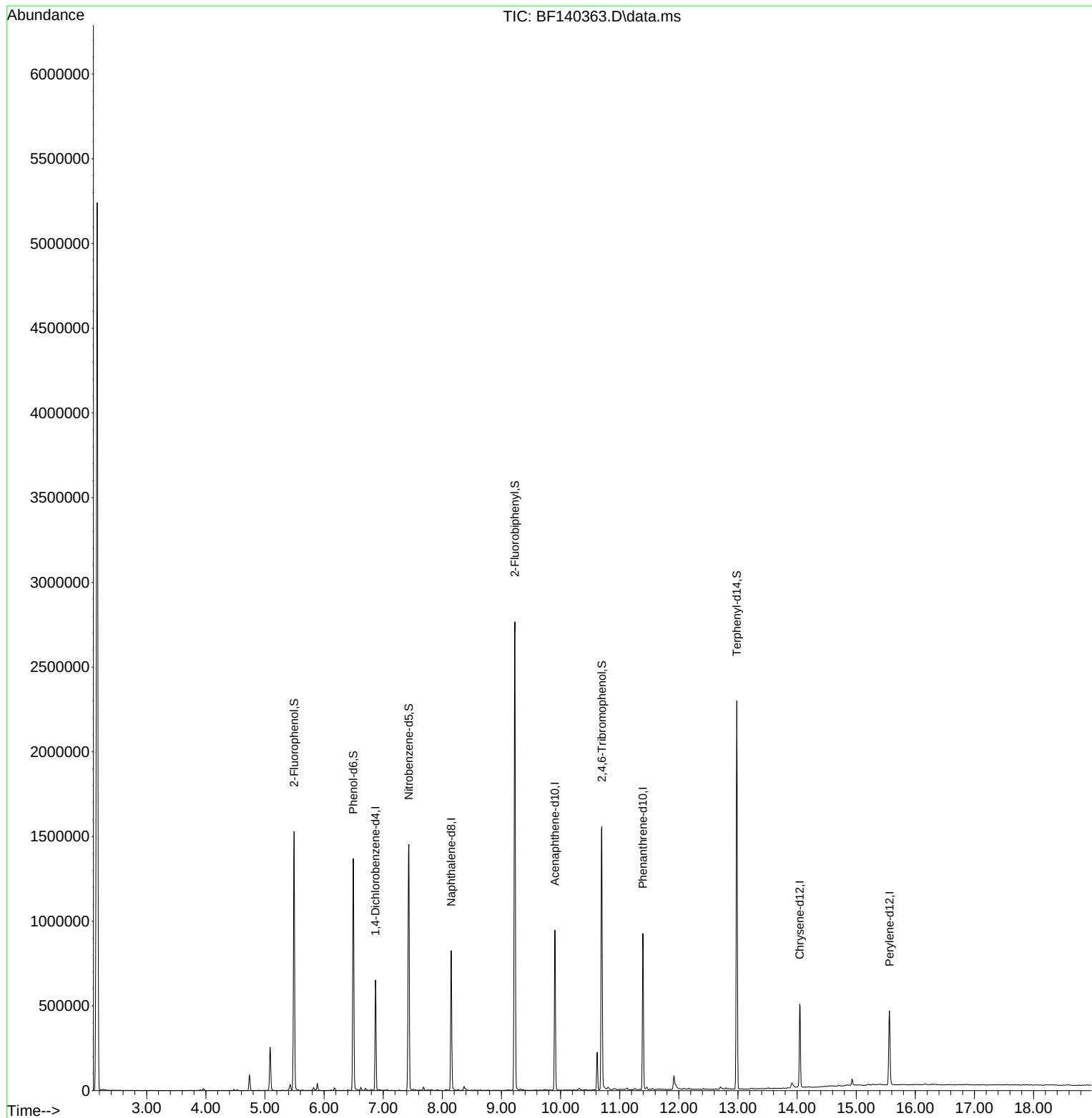
Target Compounds	Qvalue

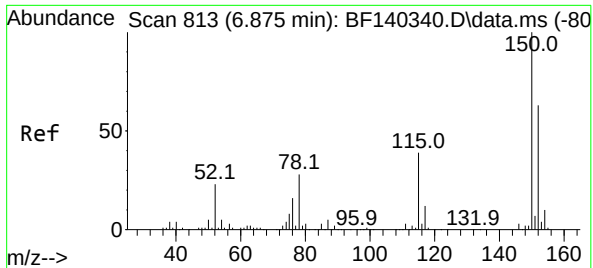
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140363.D
Acq On : 14 Nov 2024 15:39
Operator : RC/JU
Sample : P4718-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SW

Quant Time: Nov 14 18:19:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

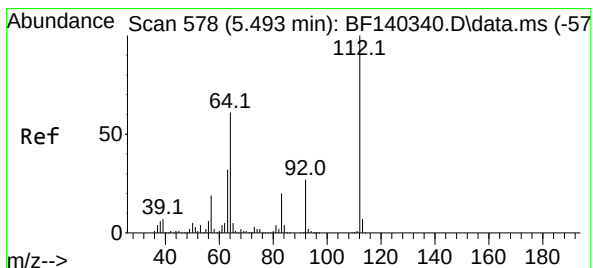
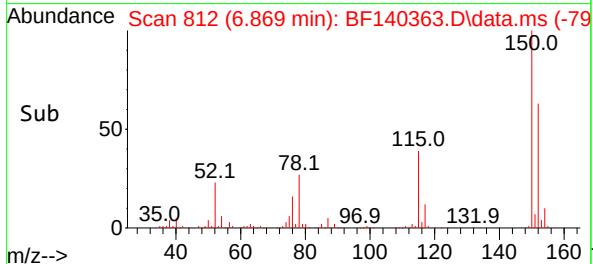
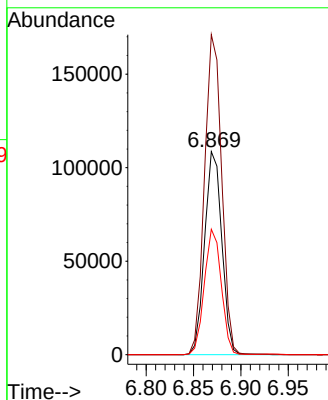
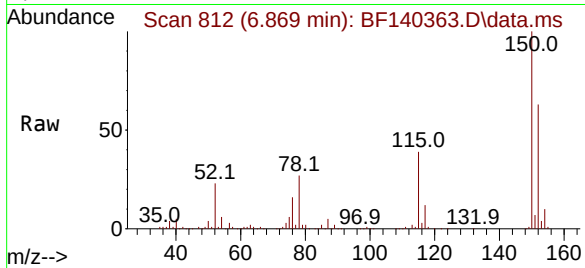




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 813
Delta R.T. -0.012 min
Lab File: BF140363.D
Acq: 14 Nov 2024 15:39

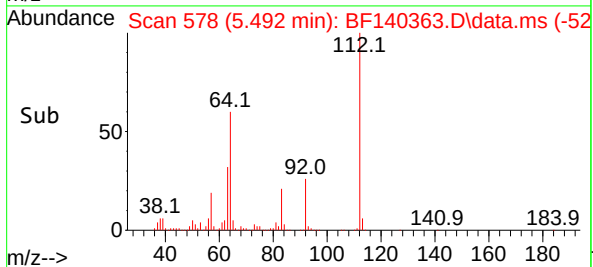
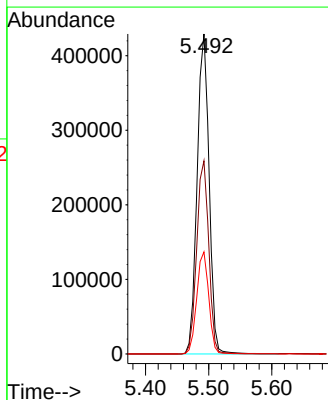
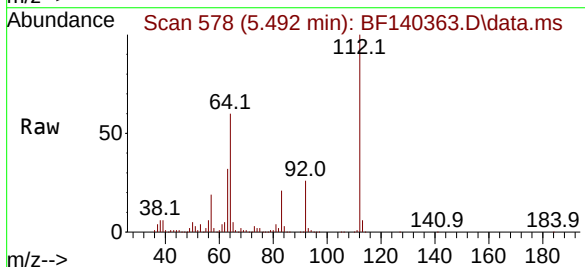
Instrument :
BNA_F
ClientSampleId :
WB-307-SW

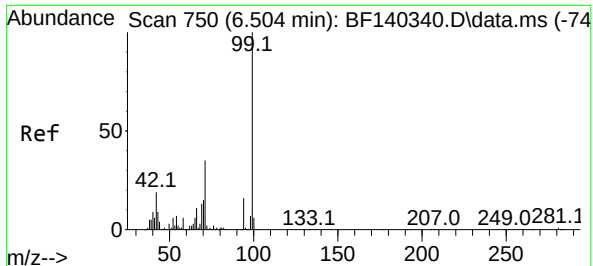
Tgt Ion:152 Resp: 137046
Ion Ratio Lower Upper
152 100
150 157.7 127.4 191.0
115 61.8 47.4 71.2



#5
2-Fluorophenol
Concen: 70.376 ng
RT: 5.492 min Scan# 578
Delta R.T. -0.000 min
Lab File: BF140363.D
Acq: 14 Nov 2024 15:39

Tgt Ion:112 Resp: 564887
Ion Ratio Lower Upper
112 100
64 60.4 49.2 73.8
63 31.9 25.6 38.4

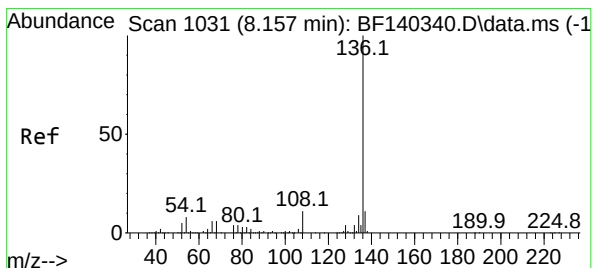
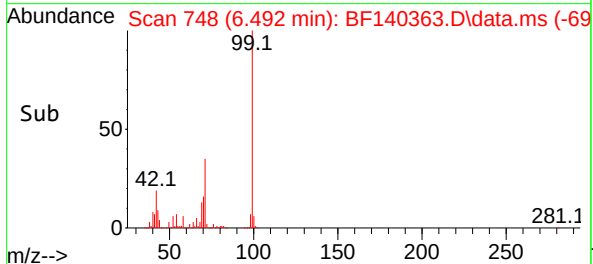
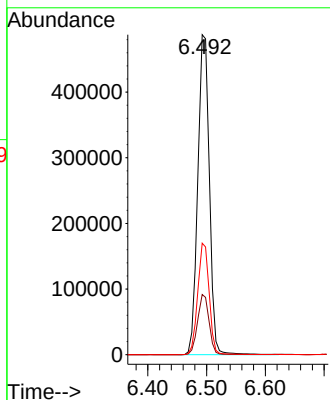
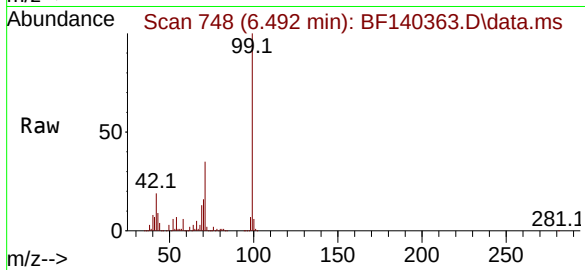




#7
Phenol-d6
Concen: 61.479 ng
RT: 6.492 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF140363.D
Acq: 14 Nov 2024 15:39

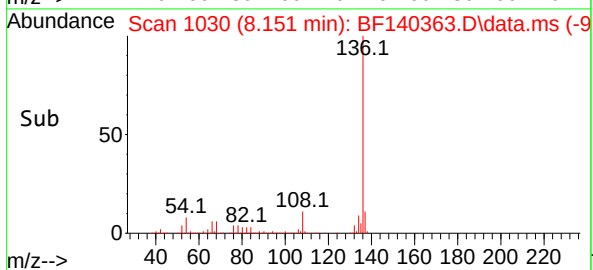
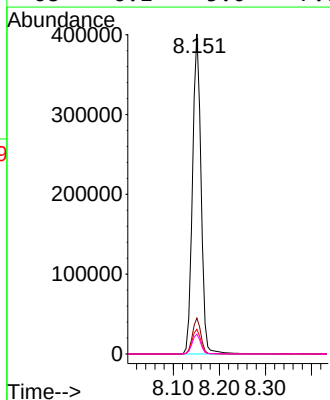
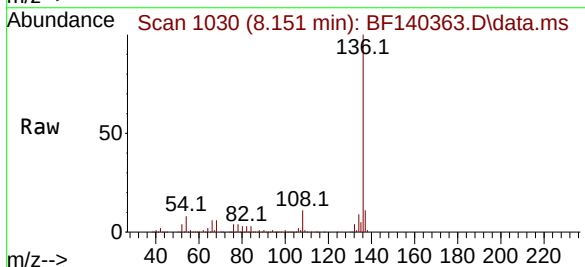
Instrument :
BNA_F
ClientSampleId :
WB-307-SW

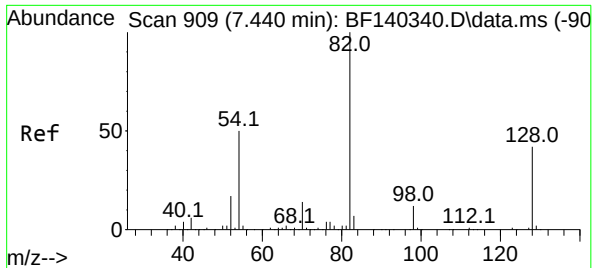
Tgt Ion: 99 Resp: 668570
Ion Ratio Lower Upper
99 100
42 18.8 15.1 22.7
71 34.9 27.9 41.9



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140363.D
Acq: 14 Nov 2024 15:39

Tgt Ion: 136 Resp: 514015
Ion Ratio Lower Upper
136 100
137 11.2 8.7 13.1
54 7.7 6.5 9.7
68 6.1 5.0 7.6





#23

Nitrobenzene-d5

Concen: 71.257 ng

RT: 7.433 min Scan# 90

Delta R.T. -0.006 min

Lab File: BF140363.D

Acq: 14 Nov 2024 15:39

Instrument :

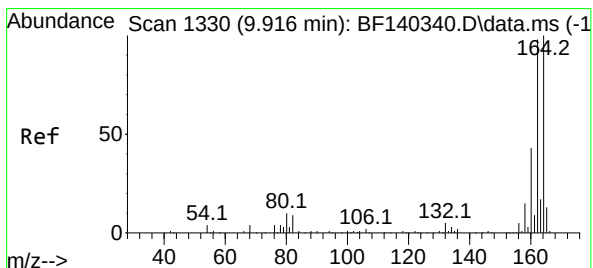
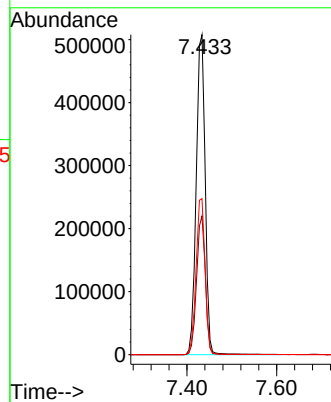
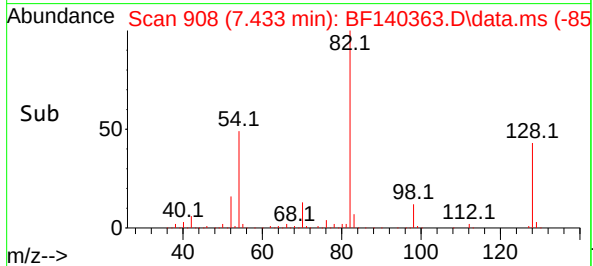
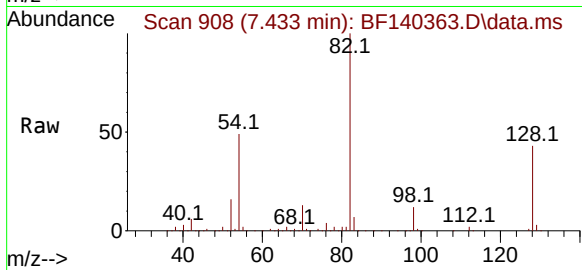
BNA_F

ClientSampleId :

WB-307-SW

Tgt Ion: 82 Resp: 702982

Ion	Ratio	Lower	Upper
82	100		
128	43.3	33.3	49.9
54	48.8	39.8	59.8



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.904 min Scan# 1328

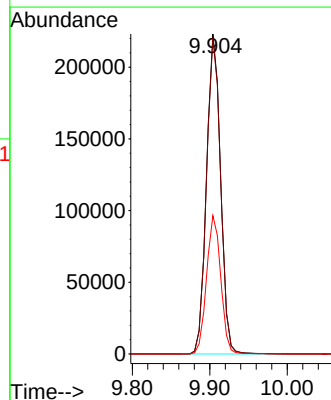
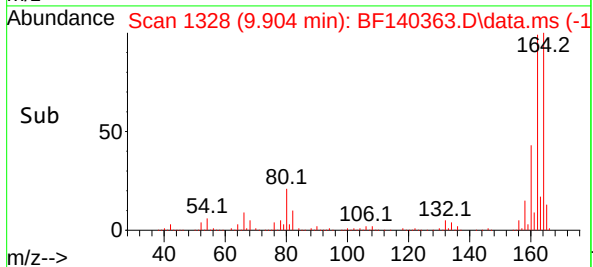
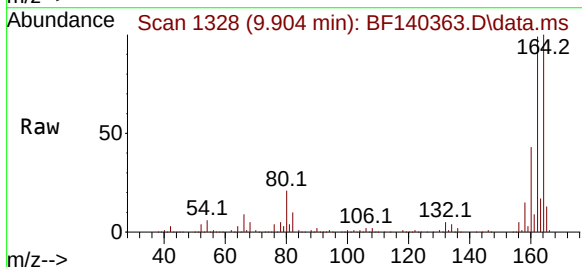
Delta R.T. -0.012 min

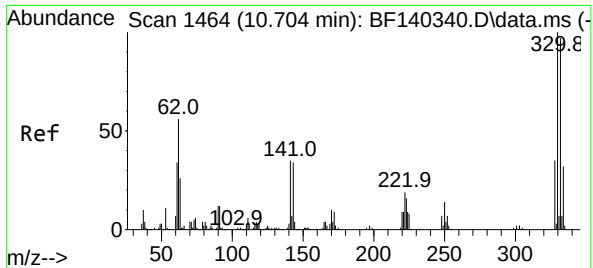
Lab File: BF140363.D

Acq: 14 Nov 2024 15:39

Tgt Ion: 164 Resp: 280819

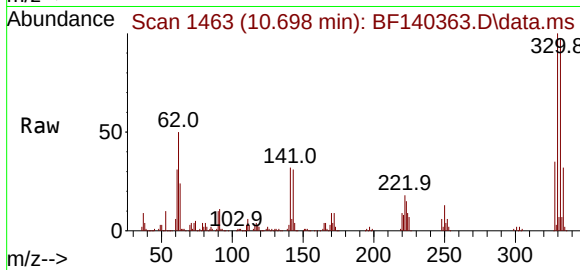
Ion	Ratio	Lower	Upper
164	100		
162	98.7	79.8	119.8
160	43.2	35.4	53.0



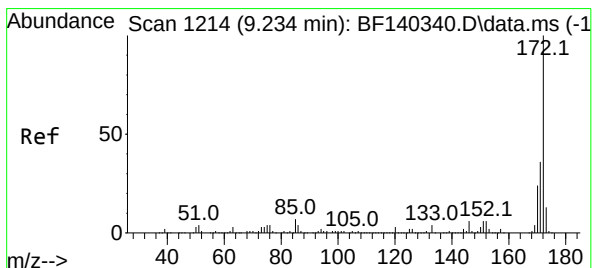
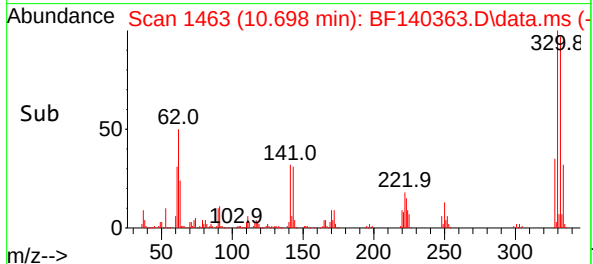
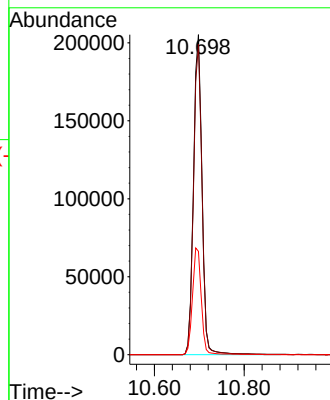


#42
2,4,6-Tribromophenol
Concen: 97.192 ng
RT: 10.698 min Scan# 1463
Delta R.T. -0.006 min
Lab File: BF140363.D
Acq: 14 Nov 2024 15:39

Instrument :
BNA_F
ClientSampleId :
WB-307-SW

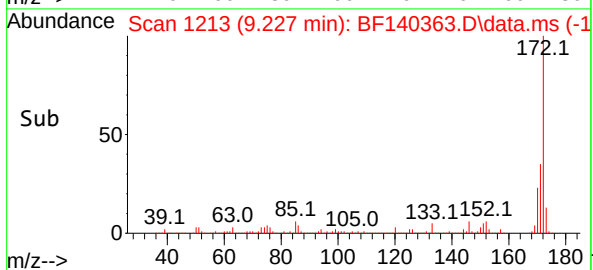
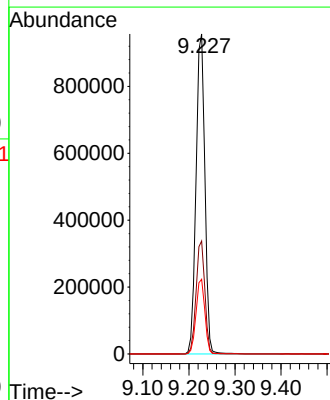
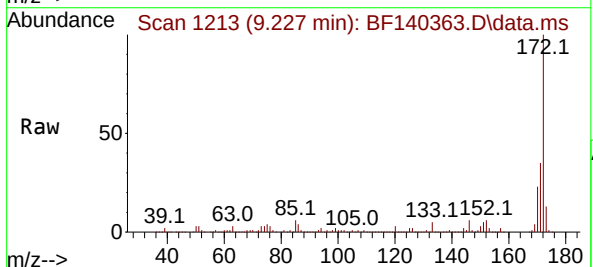


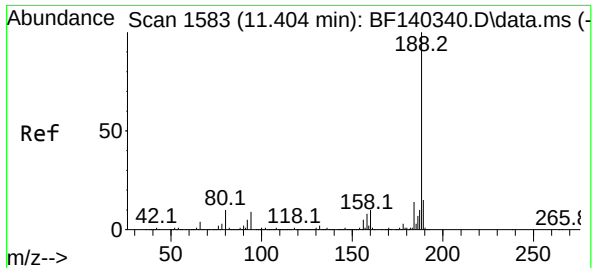
Tgt Ion:330 Resp: 271410
Ion Ratio Lower Upper
330 100
332 96.8 75.9 113.9
141 34.4 26.9 40.3



#45
2-Fluorobiphenyl
Concen: 72.809 ng
RT: 9.227 min Scan# 1213
Delta R.T. -0.006 min
Lab File: BF140363.D
Acq: 14 Nov 2024 15:39

Tgt Ion:172 Resp: 1271885
Ion Ratio Lower Upper
172 100
171 35.3 28.5 42.7
170 23.4 19.1 28.7

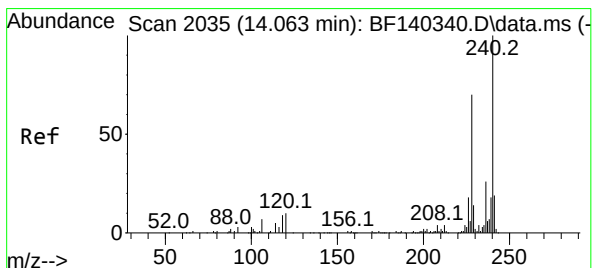
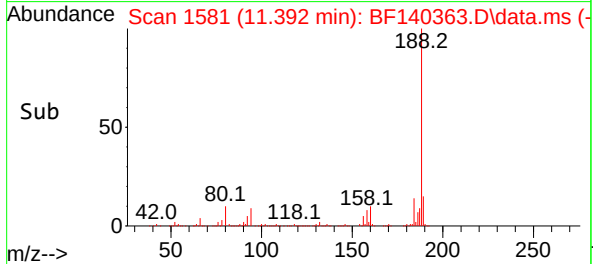
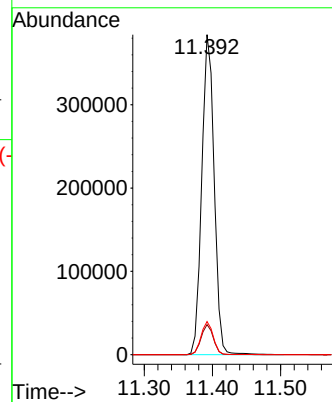
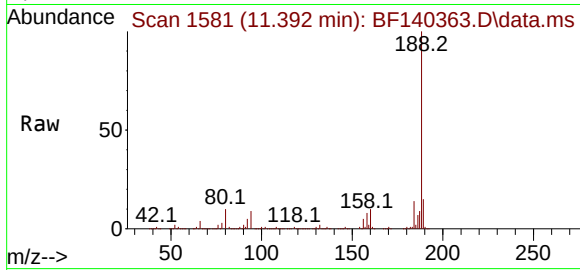




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF140363.D
Acq: 14 Nov 2024 15:39

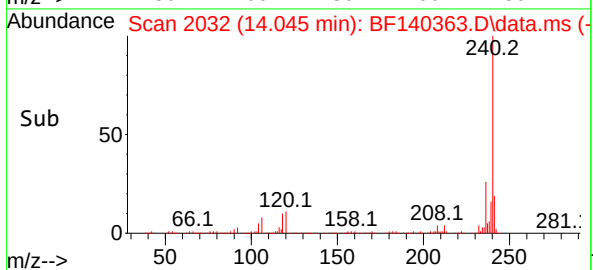
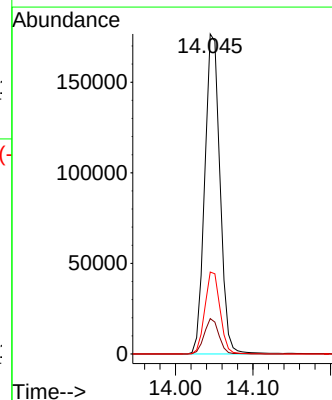
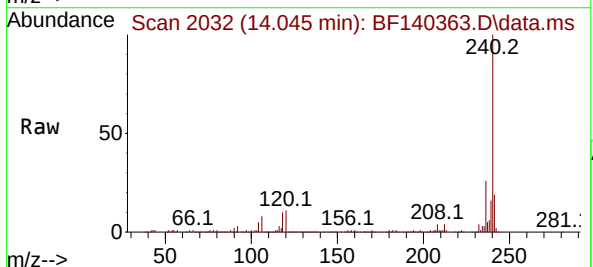
Instrument :
BNA_F
ClientSampleId :
WB-307-SW

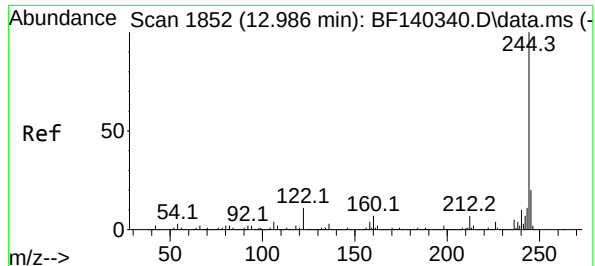
Tgt Ion:188 Resp: 486241
Ion Ratio Lower Upper
188 100
94 9.4 7.6 11.4
80 10.3 8.0 12.0



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140363.D
Acq: 14 Nov 2024 15:39

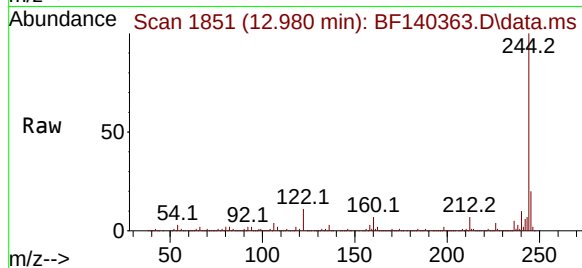
Tgt Ion:240 Resp: 241422
Ion Ratio Lower Upper
240 100
120 11.1 8.8 13.2
236 25.6 20.9 31.3



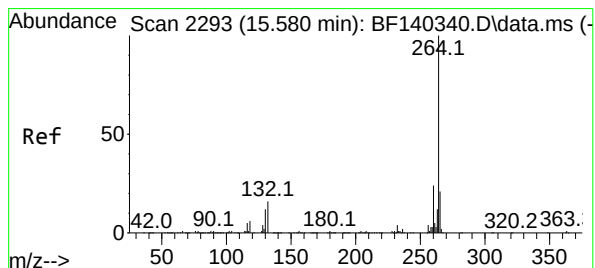
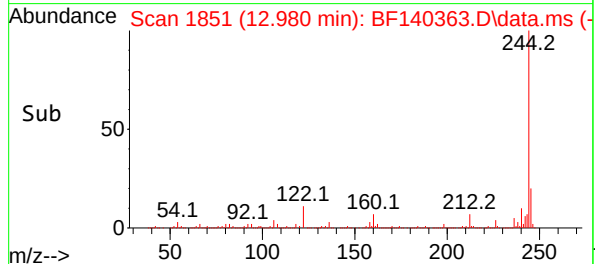
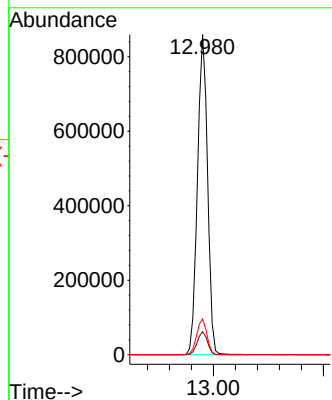


#79
Terphenyl-d14
Concen: 78.785 ng
RT: 12.980 min Scan# 1851
Delta R.T. -0.006 min
Lab File: BF140363.D
Acq: 14 Nov 2024 15:39

Instrument :
BNA_F
ClientSampleId :
WB-307-SW

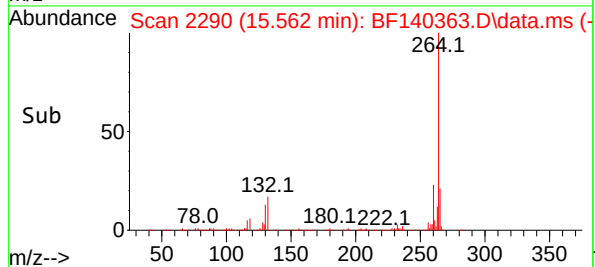
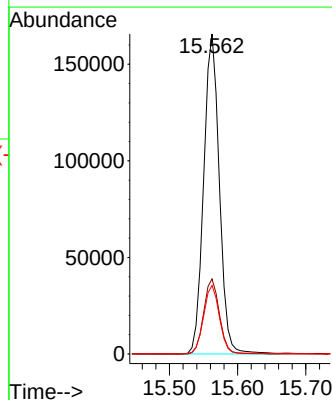
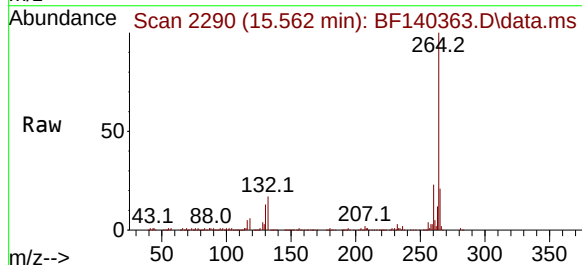


Tgt Ion:244 Resp: 1095780
Ion Ratio Lower Upper
244 100
212 7.2 5.8 8.8
122 11.1 8.8 13.2



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.562 min Scan# 2290
Delta R.T. 0.006 min
Lab File: BF140363.D
Acq: 14 Nov 2024 15:39

Tgt Ion:264 Resp: 265329
Ion Ratio Lower Upper
264 100
260 23.4 19.2 28.8
265 21.4 17.1 25.7



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140363.D
Acq On : 14 Nov 2024 15:39
Operator : RC/JU
Sample : P4718-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SW

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

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-BF111324.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140363.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.163	3	12	18	rBV	5236869	9048173	100.00%	29.872%
2	4.740	444	450	457	rBV	88229	120895	1.34%	0.399%
3	5.087	500	509	524	rVB	255818	384092	4.24%	1.268%
4	5.492	571	578	589	rBV	1528568	2030789	22.44%	6.704%
5	6.492	740	748	766	rBV	1369975	1893398	20.93%	6.251%
6	6.869	807	812	820	rBV	650115	813239	8.99%	2.685%
7	7.433	901	908	913	rBV	1453141	1996894	22.07%	6.593%
8	8.151	1024	1030	1043	rVB	824229	1051528	11.62%	3.472%
9	9.227	1206	1213	1223	rBV	2764542	3689213	40.77%	12.180%
10	9.904	1323	1328	1338	rBV	944831	1188638	13.14%	3.924%
11	10.621	1444	1450	1457	rBV	220028	288895	3.19%	0.954%
12	10.698	1457	1463	1477	rBV	1554445	2153215	23.80%	7.109%
13	11.392	1576	1581	1588	rBV	921943	1162704	12.85%	3.839%
14	11.916	1665	1670	1685	rBV3	77066	174248	1.93%	0.575%
15	12.980	1845	1851	1856	rBV	2292241	2908373	32.14%	9.602%
16	14.045	2025	2032	2043	rVB	491224	677917	7.49%	2.238%
17	15.562	2284	2290	2303	rBV	436909	708047	7.83%	2.338%

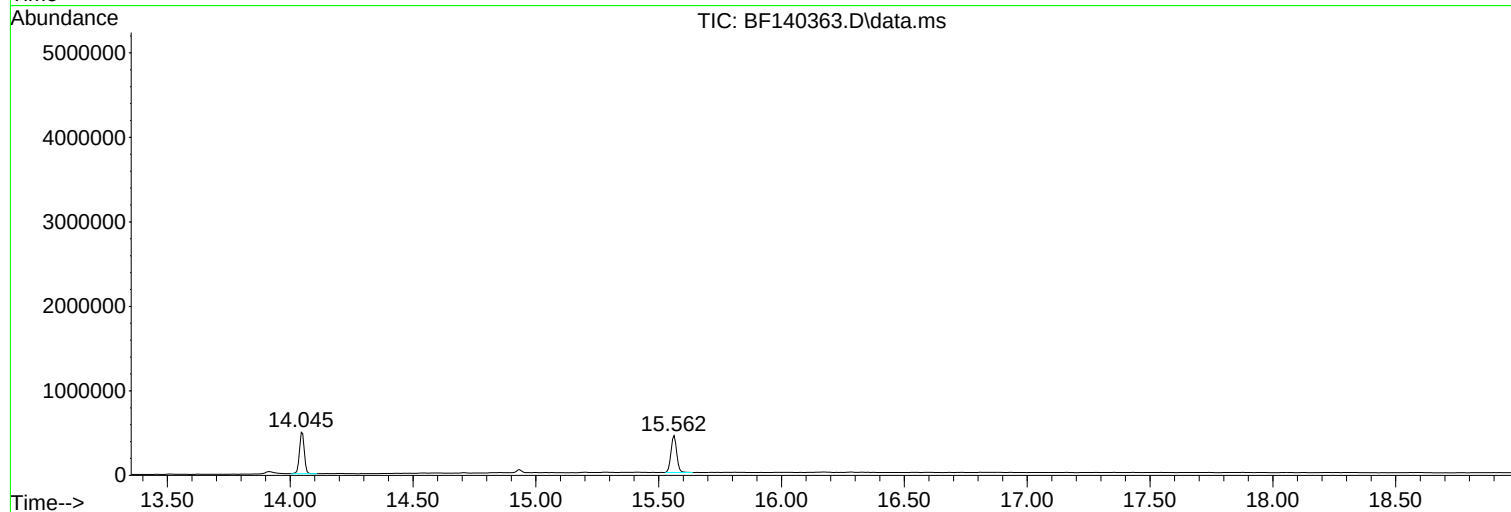
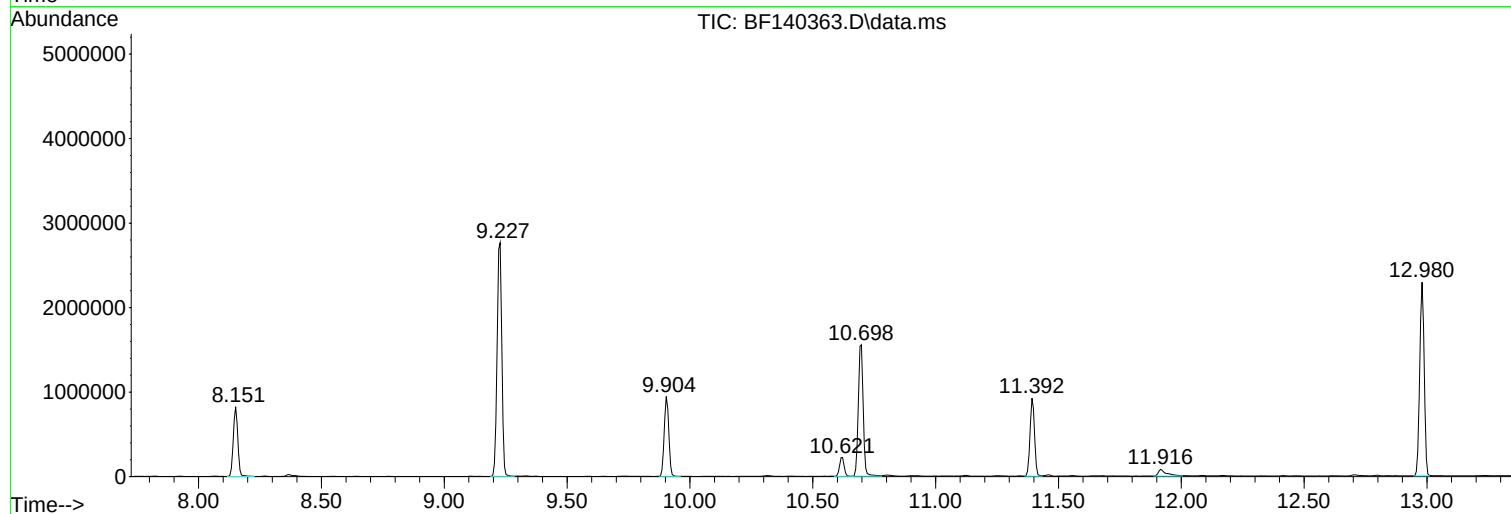
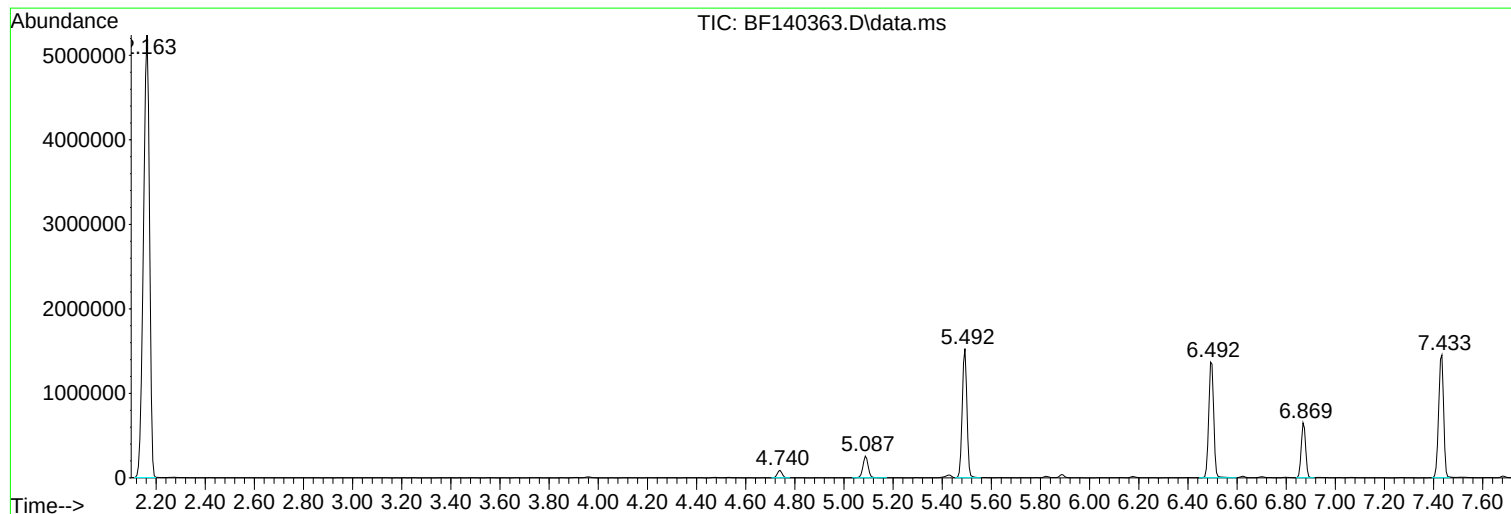
Sum of corrected areas: 30290258

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140363.D
Acq On : 14 Nov 2024 15:39
Operator : RC/JU
Sample : P4718-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.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\BF111424\
Data File : BF140363.D
Acq On : 14 Nov 2024 15:39
Operator : RC/JU
Sample : P4718-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SW

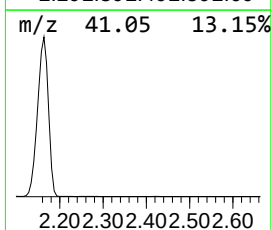
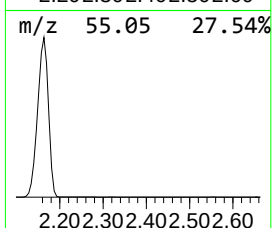
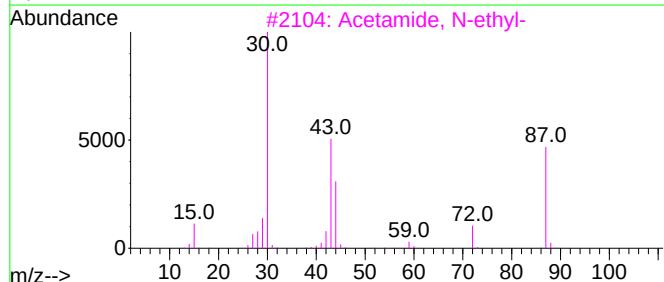
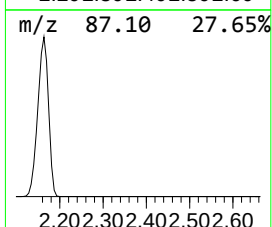
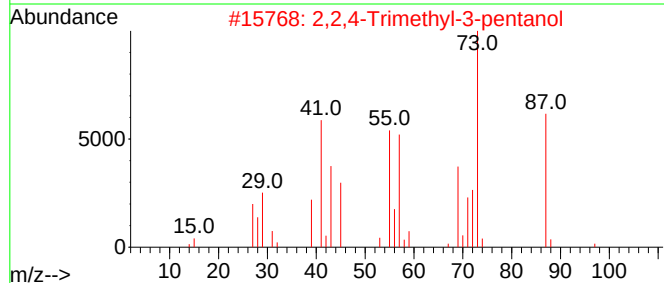
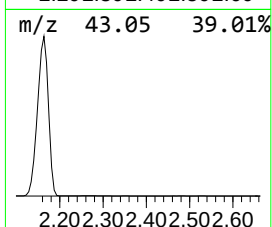
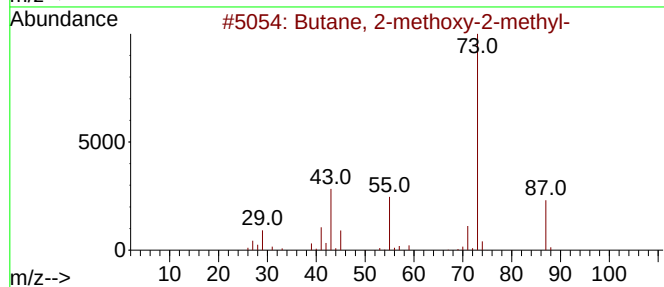
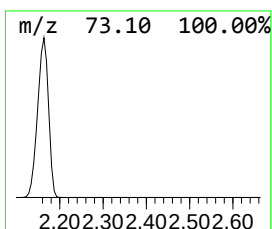
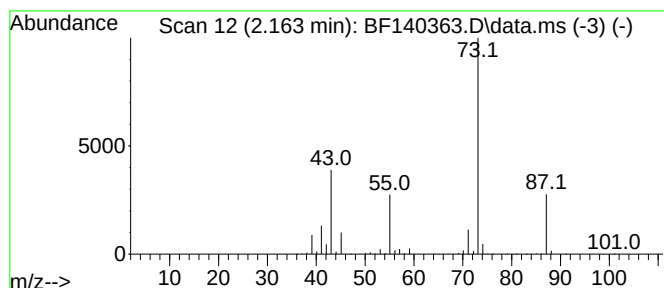
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.163	222.52 ng	9048170	1,4-Dichlorobenzene-d4	6.869

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2			2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3			Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	27
4			Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17
5			Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140363.D
Acq On : 14 Nov 2024 15:39
Operator : RC/JU
Sample : P4718-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SW

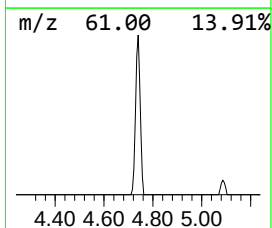
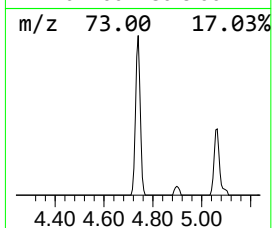
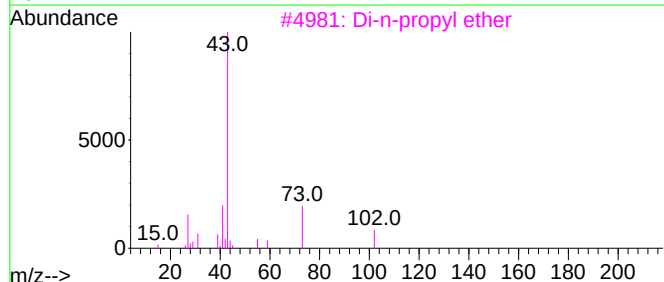
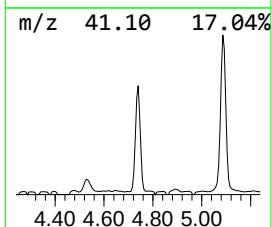
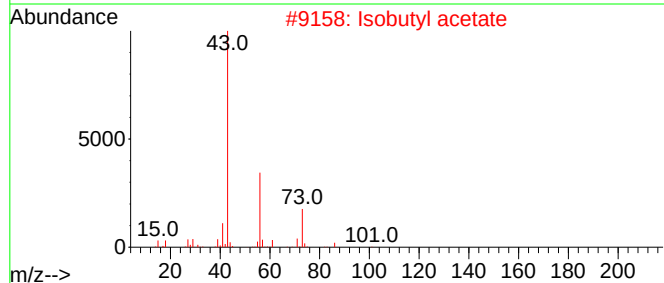
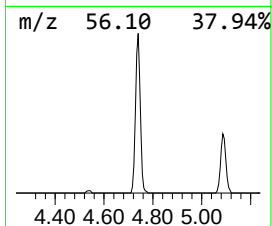
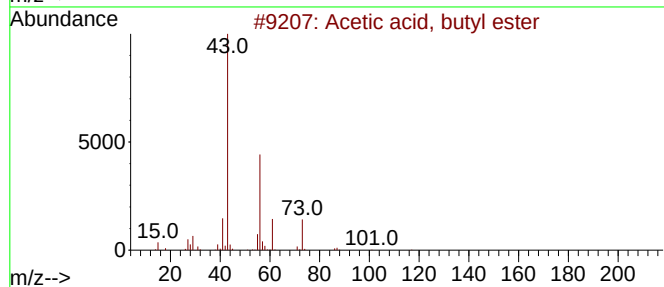
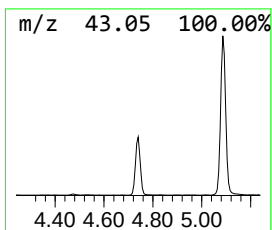
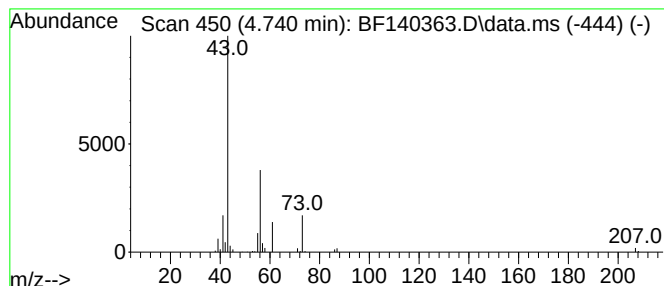
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 Acetic acid, butyl ester Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.740	2.97 ng	120895	1,4-Dichlorobenzene-d4	6.869

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetic acid, butyl ester	116	C6H12O2	000123-86-4	78
2	Isobutyl acetate	116	C6H12O2	000110-19-0	39
3	Di-n-propyl ether	102	C6H14O	000111-43-3	16
4	Isobutylamine	73	C4H11N	000078-81-9	9
5	Acetic acid, hexyl ester	144	C8H16O2	000142-92-7	9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140363.D
Acq On : 14 Nov 2024 15:39
Operator : RC/JU
Sample : P4718-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SW

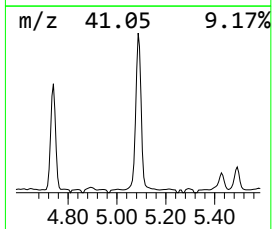
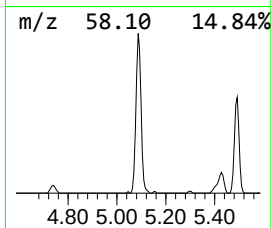
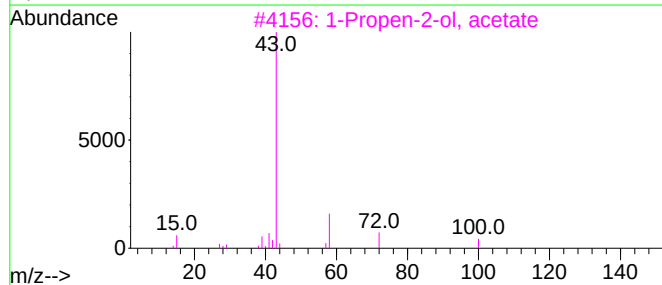
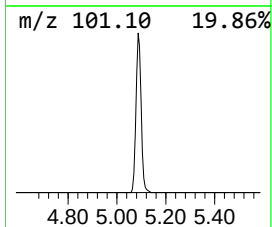
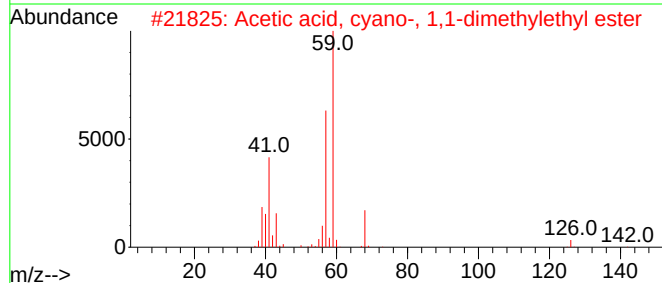
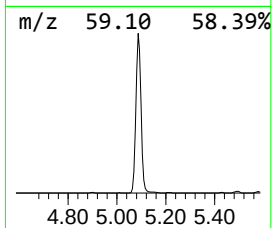
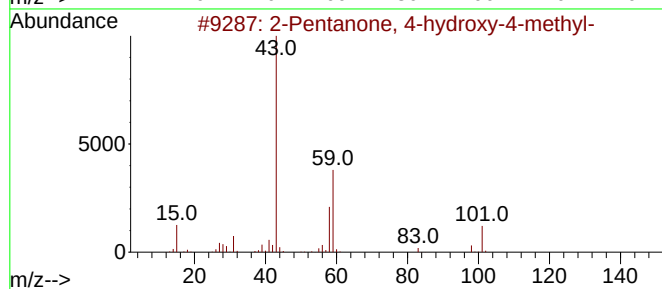
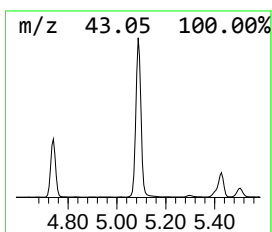
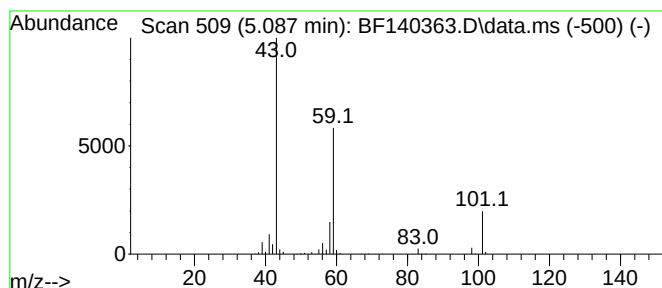
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.087	9.45 ng	384092	1,4-Dichlorobenzene-d4	6.869

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56		
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23		
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10		
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9		
5	3-Hexanol, 4-ethyl-	130	C8H18O	019780-44-0	9		



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140363.D
Acq On : 14 Nov 2024 15:39
Operator : RC/JU
Sample : P4718-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SW

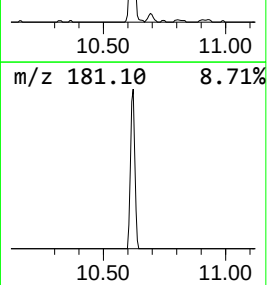
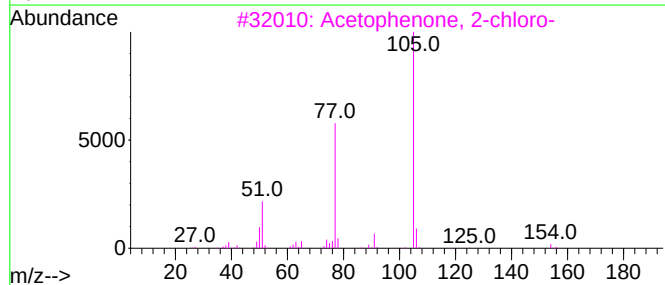
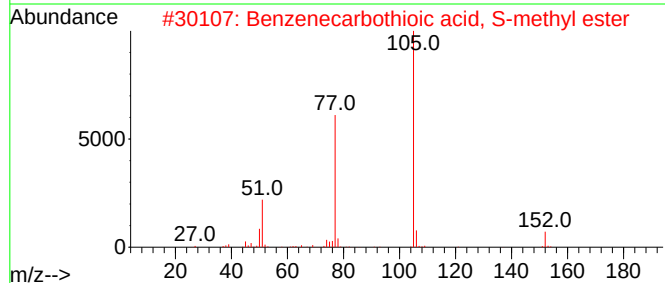
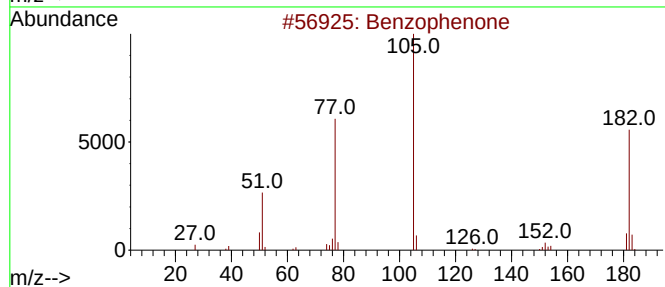
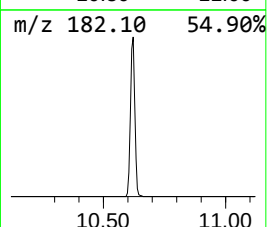
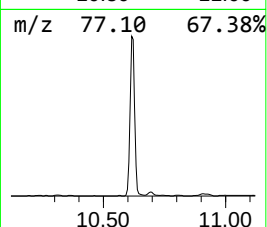
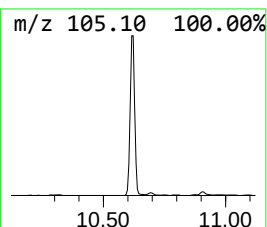
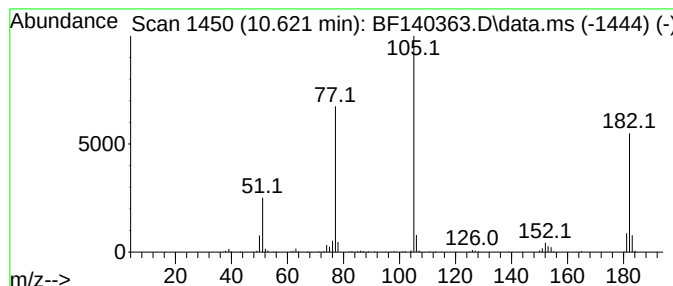
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.621	4.86 ng	288895	Acenaphthene-d10	9.904

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			Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
4			2-Chloro-1-phenyl-1-propanone	168	C9H9ClO	006084-17-9	47
5			N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140363.D
Acq On : 14 Nov 2024 15:39
Operator : RC/JU
Sample : P4718-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SW

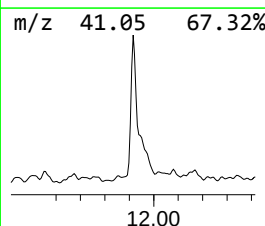
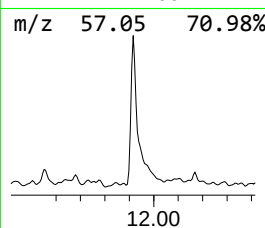
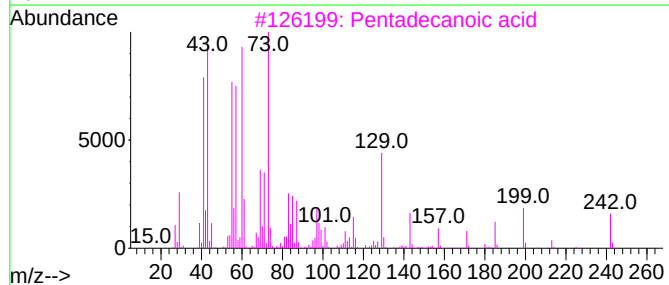
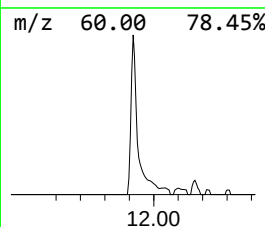
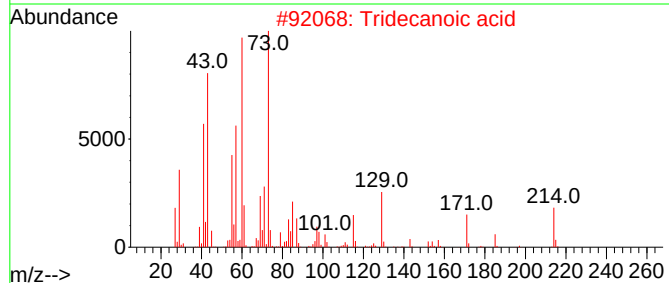
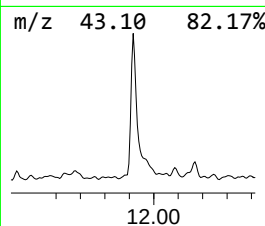
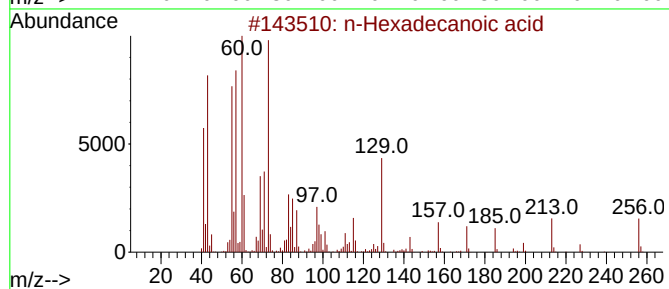
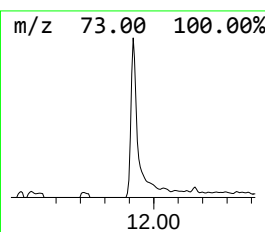
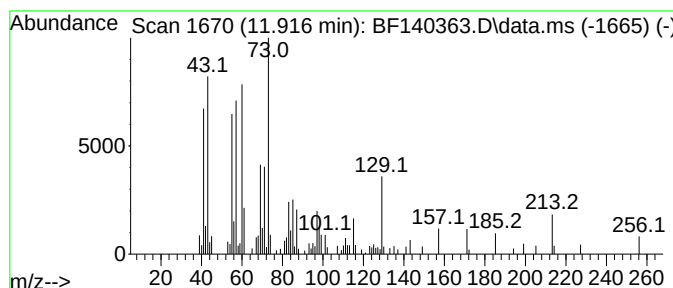
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.916	3.00 ng	174248	Phenanthrene-d10	11.392

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	93
3			Pentadecanoic acid	242	C15H30O2	001002-84-2	91
4			Tetradecanoic acid	228	C14H28O2	000544-63-8	86
5			n-Decanoic acid	172	C10H20O2	000334-48-5	46



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140363.D
Acq On : 14 Nov 2024 15:39
Operator : RC/JU
Sample : P4718-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.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
Butane, 2-metho...	2.163	222.5	ng	9048170	1	6.869	813239	20.0
Acetic acid, bu...	4.740	3.0	ng	120895	1	6.869	813239	20.0
2-Pentanone, 4-...	5.087	9.4	ng	384092	1	6.869	813239	20.0
Benzophenone	10.621	4.9	ng	288895	3	9.904	1188640	20.0
n-Hexadecanoic ...	11.916	3.0	ng	174248	4	11.392	1162700	20.0



CALIBRATION SUMMARY

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718
 Instrument ID: BNA_F Calibration Date(s): 11/05/2024 11/05/2024
 Calibration Time(s): 12:26 15:30

LAB FILE ID:		RRF2.5 = BF140231.D			RRF005 = BF140232.D		RRF010 = BF140233.D	
		RRF020 = BF140234.D			RRF040 = BF140235.D		RRF050 = BF140236.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.359	1.298	1.261	1.159	1.138	1.207	8.3
Benzaldehyde		1.159	1.137	1.085	0.949	0.839	0.956	18.5
Phenol-d6		1.765	1.679	1.604	1.495	1.462	1.552	8.7
Phenol		1.863	1.779	1.752	1.593	1.575	1.649	9.2
bis(2-Chloroethyl) ether		1.417	1.354	1.285	1.209	1.201	1.252	8.6
2-Chlorophenol		1.441	1.385	1.311	1.214	1.187	1.263	9.4
2-Methylphenol		1.155	1.105	1.086	1.028	1.005	1.053	6.1
2,2-oxybis(1-Chloropropane)		2.305	2.213	2.143	1.958	1.910	2.027	9.7
Acetophenone		0.564	0.535	0.512	0.474	0.461	0.496	8.4
3+4-Methylphenols		1.503	1.446	1.403	1.277	1.240	1.323	9.7
n-Nitroso-di-n-propylamine	1.035	1.117	1.062	1.015	0.949	0.923	0.990	8.0
Nitrobenzene-d5		0.435	0.420	0.415	0.392	0.387	0.402	5.2
Hexachloroethane		0.612	0.603	0.576	0.533	0.524	0.556	7.4
Nitrobenzene		0.452	0.442	0.436	0.414	0.407	0.422	5.0
Isophorone		0.754	0.722	0.699	0.675	0.659	0.693	5.1
2-Nitrophenol		0.160	0.167	0.170	0.171	0.167	0.168	2.5
2,4-Dimethylphenol		0.240	0.237	0.234	0.224	0.221	0.228	3.9
bis(2-Chloroethoxy) methane		0.459	0.441	0.428	0.400	0.390	0.415	6.9
2,4-Dichlorophenol		0.297	0.299	0.291	0.278	0.270	0.283	4.7
Naphthalene		1.206	1.119	1.071	0.992	0.956	1.033	9.9
4-Chloroaniline		0.372	0.367	0.354	0.330	0.322	0.340	7.1
Hexachlorobutadiene		0.251	0.241	0.238	0.222	0.218	0.229	6.2
Caprolactam		0.090	0.087	0.088	0.085	0.084	0.086	2.9
4-Chloro-3-methylphenol		0.337	0.326	0.319	0.312	0.303	0.315	4.3
2-Methylnaphthalene		0.772	0.743	0.702	0.644	0.626	0.674	9.6
Hexachlorocyclopentadiene		0.124	0.145	0.169	0.183	0.177	0.164	13.3
2,4,6-Trichlorophenol		0.377	0.369	0.363	0.361	0.354	0.363	2.2
2-Fluorobiphenyl		1.481	1.381	1.312	1.183	1.148	1.253	11.3
2,4,5-Trichlorophenol		0.391	0.398	0.396	0.373	0.374	0.381	4.0
1,1-Biphenyl		1.663	1.590	1.521	1.376	1.342	1.446	10.0
2-Chloronaphthalene		1.195	1.171	1.135	1.050	1.036	1.088	7.2
2-Nitroaniline		0.357	0.372	0.371	0.369	0.363	0.364	2.0
Dimethylphthalate		1.363	1.310	1.262	1.191	1.182	1.232	6.7
Acenaphthylene		1.730	1.668	1.618	1.486	1.465	1.540	8.6

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718
 Instrument ID: BNA_F Calibration Date(s): 11/05/2024 11/05/2024
 Calibration Time(s): 12:26 15:30

LAB FILE ID:		RRF2.5 = BF140231.D			RRF005 = BF140232.D		RRF010 = BF140233.D	
		RRF020 = BF140234.D			RRF040 = BF140235.D		RRF050 = BF140236.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2,6-Dinitrotoluene		0.302	0.297	0.299	0.286	0.286	0.290	3.6
3-Nitroaniline		0.294	0.286	0.282	0.269	0.267	0.273	5.8
Acenaphthene		1.204	1.153	1.134	1.059	1.055	1.093	6.6
2,4-Dinitrophenol			0.071	0.101	0.128	0.135	0.120	23.2
4-Nitrophenol		0.160	0.178	0.196	0.203	0.206	0.192	8.8
Dibenzofuran		1.773	1.683	1.603	1.467	1.424	1.528	10.6
2,4-Dinitrotoluene		0.384	0.385	0.388	0.374	0.373	0.376	3.2
Diethylphthalate		1.360	1.319	1.271	1.185	1.170	1.224	7.7
4-Chlorophenyl-phenylether		0.715	0.673	0.638	0.581	0.573	0.613	10.3
Fluorene		1.446	1.345	1.267	1.154	1.127	1.216	11.6
4-Nitroaniline		0.278	0.276	0.282	0.270	0.267	0.271	3.5
4,6-Dinitro-2-methylphenol			0.080	0.100	0.110	0.112	0.105	12.6
n-Nitrosodiphenylamine		0.646	0.608	0.600	0.551	0.543	0.575	7.5
2,4,6-Tribromophenol		0.199	0.200	0.197	0.194	0.197	0.198	1.4
4-Bromophenyl-phenylether		0.230	0.219	0.223	0.209	0.208	0.215	4.1
Hexachlorobenzene		0.261	0.255	0.251	0.237	0.235	0.245	4.3
Atrazine		0.204	0.189	0.155	0.156	0.127	0.157	18.5
Pentachlorophenol		0.105	0.121	0.133	0.138	0.139	0.132	10.6
Phenanthrene		1.082	1.044	1.004	0.915	0.885	0.954	9.3
Anthracene		1.071	1.014	0.984	0.894	0.881	0.936	9.3
Carbazole		0.973	0.919	0.901	0.822	0.805	0.855	8.9
Di-n-butylphthalate		1.119	1.096	1.062	0.975	0.961	1.012	7.9
Fluoranthene		1.157	1.101	1.044	0.950	0.928	0.998	10.5
Pyrene		1.851	1.733	1.728	1.590	1.572	1.651	7.5
Terphenyl-d14		1.383	1.309	1.258	1.159	1.164	1.221	8.2
Butylbenzylphthalate		0.580	0.596	0.613	0.597	0.601	0.595	2.9
3,3-Dichlorobenzidine		0.387	0.409	0.410	0.417	0.406	0.403	2.6
Benzo (a) anthracene		1.386	1.344	1.345	1.232	1.232	1.284	5.7
Chrysene		1.320	1.264	1.206	1.154	1.177	1.202	5.8
Bis (2-ethylhexyl) phthalate		0.868	0.858	0.858	0.819	0.825	0.833	3.8
Di-n-octyl phthalate		1.201	1.234	1.283	1.267	1.265	1.254	2.5
Benzo (b) fluoranthene		1.300	1.184	1.214	1.245	1.125	1.210	6.0
Benzo (k) fluoranthene		1.214	1.230	1.206	1.027	1.085	1.110	9.5
Benzo (a) pyrene		1.023	0.999	1.022	0.993	0.975	0.997	2.2
Indeno (1,2,3-cd) pyrene		1.107	1.110	1.213	1.195	1.172	1.174	4.1

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718
 Instrument ID: BNA_F Calibration Date(s): 11/05/2024 11/05/2024
 Calibration Time(s): 12:26 15:30

LAB FILE ID:		RRF2.5 = BF140231.D		RRF005 = BF140232.D		RRF010 = BF140233.D		
		RRF020 = BF140234.D		RRF040 = BF140235.D		RRF050 = BF140236.D		
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Dibenzo (a,h) anthracene		0.917	0.923	0.998	0.979	0.968	0.966	3.4
Benzo (g,h,i) perylene		0.949	0.941	1.017	0.994	0.977	0.985	3.1
1,2,4,5-Tetrachlorobenzene		0.657	0.619	0.600	0.562	0.559	0.586	7.2
1,4-Dioxane		0.613	0.582	0.576	0.550	0.526	0.555	6.6
2,3,4,6-Tetrachlorophenol		0.323	0.324	0.321	0.305	0.309	0.313	3.3

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-BF110524.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Tue Nov 05 16:47:56 2024
 Response Via : Initial Calibration

Calibration Files

2.5 =BF140231.D 5 =BF140232.D 10 =BF140233.D 20 =BF140234.D 40 =BF140235.D 50 =BF140236.D 60 =BF140237.D 80 =BF140238.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.613	0.582	0.576	0.550	0.526	0.527	0.511	0.555	6.64	
3)	Pyridine	1.464	1.445	1.402	1.340	1.296	1.298	1.233	1.354	6.33	
4)	n-Nitrosodimet...	0.799	0.792	0.802	0.780	0.767	0.786	0.746	0.782	2.52	
5) S	2-Fluorophenol	1.359	1.298	1.261	1.159	1.138	1.151	1.083	1.207	8.29	
6)	Aniline	1.609	1.513	1.499	1.365	1.316	1.298	1.218	1.402	9.99	
7) S	Phenol-d6	1.765	1.679	1.604	1.495	1.462	1.468	1.392	1.552	8.66	
8)	2-Chlorophenol	1.441	1.385	1.311	1.214	1.187	1.182	1.121	1.263	9.38	
9)	Benzaldehyde	1.159	1.137	1.085	0.949	0.839	0.823	0.701	0.956	18.46	
10) C	Phenol	1.863	1.779	1.752	1.593	1.575	1.544	1.434	1.649	9.23	
11)	bis(2-Chloroet...	1.417	1.354	1.285	1.209	1.201	1.201	1.100	1.252	8.57	
12)	1,3-Dichlorobe...	1.690	1.605	1.555	1.413	1.387	1.388	1.322	1.480	9.22	
13) C	1,4-Dichlorobe...	1.720	1.636	1.551	1.423	1.393	1.401	1.322	1.492	9.78	
14)	1,2-Dichlorobe...	1.622	1.553	1.494	1.309	1.291	1.286	1.201	1.394	11.49	
15)	Benzyl Alcohol	1.282	1.280	1.258	1.182	1.147	1.154	1.075	1.197	6.59	
16)	2,2'-oxybis(1-...	2.305	2.213	2.143	1.958	1.910	1.898	1.764	2.027	9.65	
17)	2-Methylphenol	1.155	1.105	1.086	1.028	1.005	1.022	0.973	1.053	6.05	
18)	Hexachloroethane	0.612	0.603	0.576	0.533	0.524	0.537	0.507	0.556	7.37	
19) P	n-Nitroso-di-n...	1.035	1.117	1.062	1.015	0.949	0.923	0.936	0.886	0.990	8.01
20)	3+4-Methylphenols	1.503	1.446	1.403	1.277	1.240	1.242	1.150	1.323	9.73	
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.564	0.535	0.512	0.474	0.461	0.472	0.453	0.496	8.43	
23) S	Nitrobenzene-d5	0.435	0.420	0.415	0.392	0.387	0.391	0.377	0.402	5.21	
24)	Nitrobenzene	0.452	0.442	0.436	0.414	0.407	0.407	0.396	0.422	5.04	
25)	Isophorone	0.754	0.722	0.699	0.675	0.659	0.680	0.660	0.693	5.05	
26) C	2-Nitrophenol	0.160	0.167	0.170	0.171	0.167	0.173	0.168	0.168	2.47	
27)	2,4-Dimethylph...	0.240	0.237	0.234	0.224	0.221	0.227	0.216	0.228	3.88	
28)	bis(2-Chloroet...	0.459	0.441	0.428	0.400	0.390	0.399	0.383	0.415	6.93	
29) C	2,4-Dichloroph...	0.297	0.299	0.291	0.278	0.270	0.277	0.266	0.283	4.67	
30)	1,2,4-Trichlor...	0.373	0.362	0.349	0.328	0.318	0.327	0.314	0.339	6.72	
31)	Naphthalene	1.206	1.119	1.071	0.992	0.956	0.965	0.921	1.033	9.94	
32)	Benzoic acid		0.136	0.161	0.193	0.207	0.211	0.216	0.187	17.07	
33)	4-Chloroaniline	0.372	0.367	0.354	0.330	0.322	0.323	0.311	0.340	7.13	
34) C	Hexachlorobuta...	0.251	0.241	0.238	0.222	0.218	0.223	0.212	0.229	6.22	
35)	Caprolactam	0.090	0.087	0.088	0.085	0.084	0.086	0.082	0.086	2.94	
36) C	4-Chloro-3-met...	0.337	0.326	0.319	0.312	0.303	0.307	0.298	0.315	4.33	
37)	2-Methylnaphth...	0.772	0.743	0.702	0.644	0.626	0.627	0.605	0.674	9.64	
38)	1-Methylnaphth...	0.765	0.720	0.691	0.634	0.612	0.619	0.583	0.661	10.00	

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF110524.M

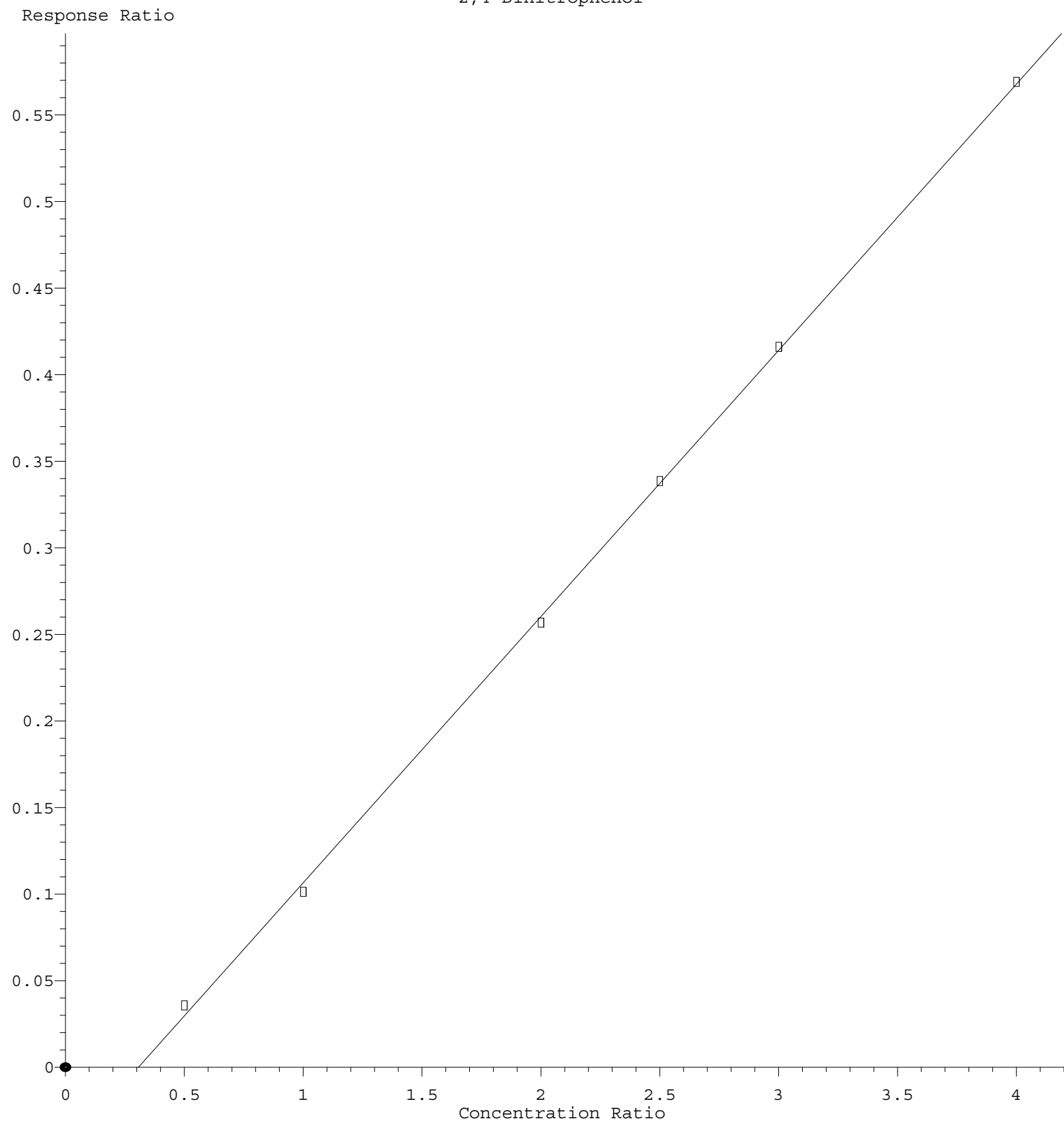
39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.657	0.619	0.600	0.562	0.559	0.562	0.538	0.586	7.15	
41) P	Hexachlorocycl...	0.124	0.145	0.169	0.183	0.177	0.181	0.169	0.164	13.27	
42) S	2,4,6-Tribromo...	0.199	0.200	0.197	0.194	0.197	0.202	0.195	0.198	1.40	
43) C	2,4,6-Trichlor...	0.377	0.369	0.363	0.361	0.354	0.356	0.359	0.363	2.16	
44)	2,4,5-Trichlor...	0.391	0.398	0.396	0.373	0.374	0.383	0.355	0.381	4.02	
45) S	2-Fluorobiphenyl	1.481	1.381	1.312	1.183	1.148	1.166	1.097	1.253	11.27	
46)	1,1'-Biphenyl	1.663	1.590	1.521	1.376	1.342	1.347	1.281	1.446	10.02	
47)	2-Chloronaphth...	1.195	1.171	1.135	1.050	1.036	1.040	0.990	1.088	7.17	
48)	2-Nitroaniline	0.357	0.372	0.371	0.369	0.363	0.364	0.352	0.364	1.99	
49)	Acenaphthylene	1.730	1.668	1.618	1.486	1.465	1.452	1.364	1.540	8.62	
50)	Dimethylphthalate	1.363	1.310	1.262	1.191	1.182	1.180	1.135	1.232	6.65	
51)	2,6-Dinitrotol...	0.302	0.297	0.299	0.286	0.286	0.284	0.272	0.290	3.57	
52) C	Acenaphthene	1.204	1.153	1.134	1.059	1.055	1.041	1.003	1.093	6.60	
53)	3-Nitroaniline	0.294	0.286	0.282	0.269	0.267	0.262	0.248	0.273	5.83	
54) P	2,4-Dinitrophenol		0.071	0.101	0.128	0.135	0.139	0.142	0.120	23.23	
55)	Dibenzofuran	1.773	1.683	1.603	1.467	1.424	1.421	1.324	1.528	10.59	
56) P	4-Nitrophenol	0.160	0.178	0.196	0.203	0.206	0.201	0.197	0.192	8.78	
57)	2,4-Dinitrotol...	0.384	0.385	0.388	0.374	0.373	0.374	0.352	0.376	3.23	
58)	Fluorene	1.446	1.345	1.267	1.154	1.127	1.115	1.059	1.216	11.55	
59)	2,3,4,6-Tetrac...	0.323	0.324	0.321	0.305	0.309	0.308	0.298	0.313	3.26	
60)	Diethylphthalate	1.360	1.319	1.271	1.185	1.170	1.165	1.097	1.224	7.72	
61)	4-Chlorophenyl...	0.715	0.673	0.638	0.581	0.573	0.569	0.542	0.613	10.33	
62)	4-Nitroaniline	0.278	0.276	0.282	0.270	0.267	0.270	0.254	0.271	3.45	
63)	Azobenzene	1.460	1.373	1.319	1.219	1.200	1.190	1.122	1.269	9.38	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...		0.080	0.100	0.110	0.112	0.116	0.113	0.105	12.60	
66) c	n-Nitrosodiphe...	0.646	0.608	0.600	0.551	0.543	0.549	0.530	0.575	7.48	
67)	4-Bromophenyl-...	0.230	0.219	0.223	0.209	0.208	0.212	0.207	0.215	4.15	
68)	Hexachlorobenzene	0.261	0.255	0.251	0.237	0.235	0.242	0.237	0.245	4.26	
69)	Atrazine	0.204	0.189	0.155	0.156	0.127	0.138	0.133	0.157	18.48	
70) C	Pentachlorophenol	0.105	0.121	0.133	0.138	0.139	0.144	0.142	0.132	10.59	
71)	Phenanthrene	1.082	1.044	1.004	0.915	0.885	0.902	0.849	0.954	9.28	
72)	Anthracene	1.071	1.014	0.984	0.894	0.881	0.876	0.832	0.936	9.34	
73)	Carbazole	0.973	0.919	0.901	0.822	0.805	0.809	0.759	0.855	8.93	
74)	Di-n-butylphth...	1.119	1.096	1.062	0.975	0.961	0.966	0.907	1.012	7.87	
75) C	Fluoranthene	1.157	1.101	1.044	0.950	0.928	0.935	0.870	0.998	10.48	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.507	0.466	0.380	0.490	0.365	0.249	0.281	0.391	25.96	
78)	Pyrene	1.851	1.733	1.728	1.590	1.572	1.596	1.490	1.651	7.49	
79) S	Terphenyl-d14	1.383	1.309	1.258	1.159	1.164	1.180	1.093	1.221	8.25	
80)	Butylbenzylpht...	0.580	0.596	0.613	0.597	0.601	0.612	0.564	0.595	2.95	
81)	Benzo(a)anthra...	1.386	1.344	1.345	1.232	1.232	1.254	1.193	1.284	5.71	
82)	3,3'-Dichlorob...	0.387	0.409	0.410	0.417	0.406	0.401	0.392	0.403	2.57	
83)	Chrysene	1.320	1.264	1.206	1.154	1.177	1.180	1.113	1.202	5.81	
84)	Bis(2-ethylhex...	0.868	0.858	0.858	0.819	0.825	0.830	0.775	0.833	3.82	
85) c	Di-n-octyl pht...	1.201	1.234	1.283	1.267	1.265	1.291	1.240	1.254	2.52	

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF110524.M

86) I	Perylene-d12	-----ISTD-----	
87)	Indeno(1,2,3-c...	1.107 1.110 1.213 1.195 1.172 1.230 1.191 1.174	4.11
88)	Benzo(b)fluora...	1.300 1.184 1.214 1.245 1.125 1.286 1.115 1.210	6.05
89)	Benzo(k)fluora...	1.214 1.230 1.206 1.027 1.085 0.975 1.034 1.110	9.46
90) C	Benzo(a)pyrene	1.023 0.999 1.022 0.993 0.975 1.006 0.964 0.997	2.23
91)	Dibenzo(a,h)an...	0.917 0.923 0.998 0.979 0.968 1.000 0.976 0.966	3.44
92)	Benzo(g,h,i)pe...	0.949 0.941 1.017 0.994 0.977 1.017 1.002 0.985	3.13

(#) = Out of Range

2,4-Dinitrophenol



Response = $1.539 \times 10^{-1} \times \text{Amt} - 4.717 \times 10^{-2}$
 Coef of Det (r^2) = 0.999580 Curve Fit: Linear
 Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF110524.M
 Calibration Table Last Updated: Tue Nov 05 16:47:56 2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110524\
Data File : BF140231.D
Acq On : 05 Nov 2024 12:26
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Nov 05 16:04:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 15:55:36 2024
Response via : Initial Calibration

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

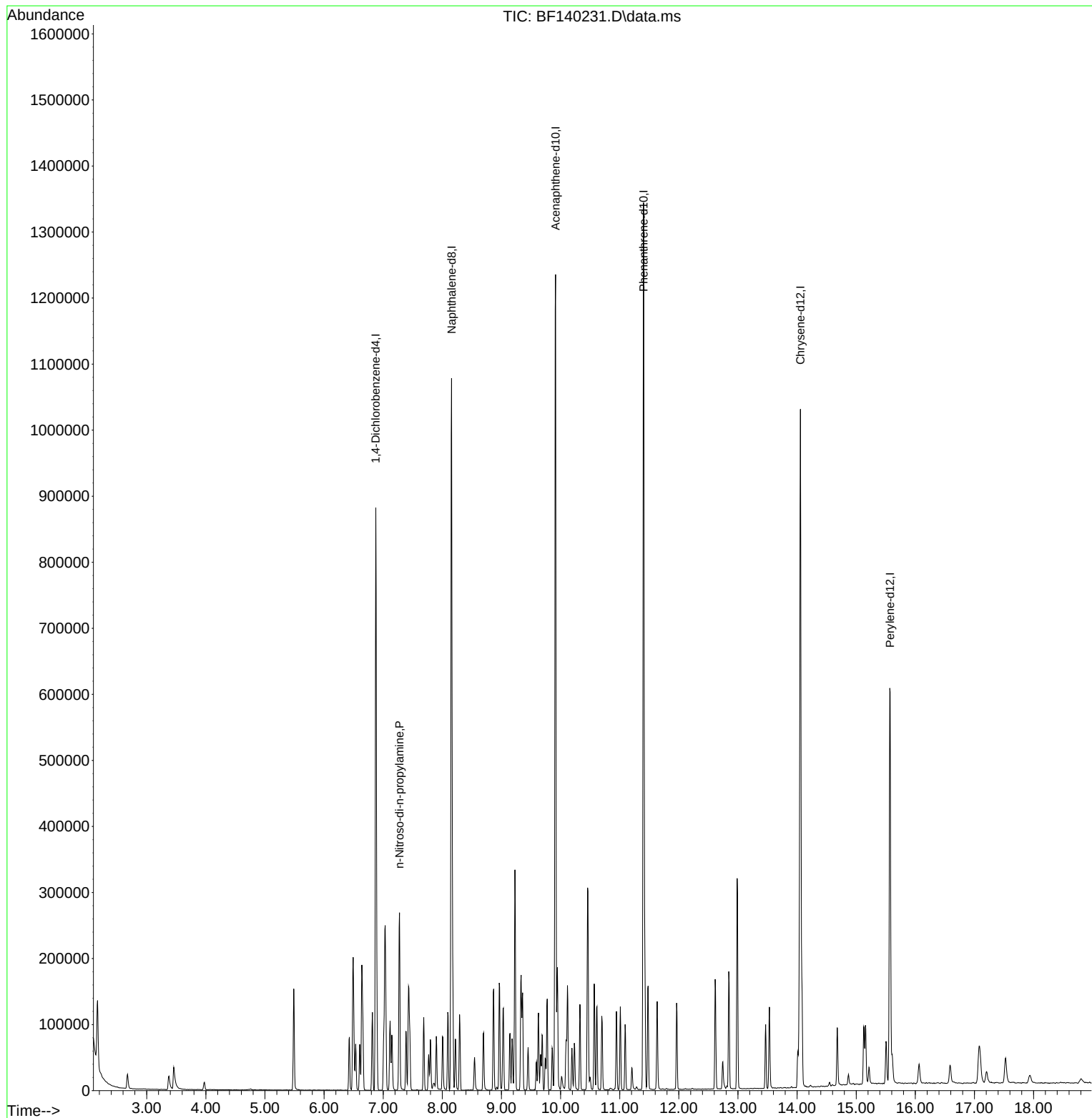
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	169994	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	642367	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	390405	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	693037	20.000	ng	0.00
76) Chrysene-d12	14.057	240	449357	20.000	ng	0.00
86) Perylene-d12	15.574	264	370150	20.000	ng	0.01
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						Qvalue
19) n-Nitroso-di-n-propyla...	7.275	70	21993	2.613	ng	98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110524\
Data File : BF140231.D
Acq On : 05 Nov 2024 12:26
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Nov 05 16:04:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 15:55:36 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110524\
 Data File : BF140232.D
 Acq On : 05 Nov 2024 12:52
 Operator : RC/JU
 Sample : SSTDICC005
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC005

Quant Time: Nov 05 16:05:12 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 15:55:36 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	166612	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	633777	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	371519	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	675726	20.000	ng	0.00
76) Chrysene-d12	14.057	240	440779	20.000	ng	0.00
86) Perylene-d12	15.562	264	369484	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	113220	11.261	ng	0.00
7) Phenol-d6	6.487	99	147074	11.373	ng	-0.02
23) Nitrobenzene-d5	7.428	82	137719	10.804	ng	-0.02
42) 2,4,6-Tribromophenol	10.698	330	37004	10.077	ng	-0.01
45) 2-Fluorobiphenyl	9.228	172	275075	11.823	ng	-0.01
79) Terphenyl-d14	12.986	244	304890	11.331	ng	-0.01
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.669	88	25542	5.526	ng	99
3) Pyridine	3.440	79	60966	5.406	ng	99
4) n-Nitrosodimethylamine	3.363	42	33282	5.111	ng	# 96
6) Aniline	6.534	93	67005	5.735	ng	98
8) 2-Chlorophenol	6.657	128	60035	5.707	ng	94
9) Benzaldehyde	6.428	77	48266	6.059	ng	96
10) Phenol	6.504	94	77615	5.651	ng	93
11) bis(2-Chloroethyl)ether	6.604	93	59042	5.659	ng	99
12) 1,3-Dichlorobenzene	6.816	146	70377	5.709	ng	99
13) 1,4-Dichlorobenzene	6.892	146	71647	5.763	ng	98
14) 1,2-Dichlorobenzene	7.045	146	67578	5.820	ng	97
15) Benzyl Alcohol	7.010	79	53385	5.355	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.145	45	96009	5.685	ng	98
17) 2-Methylphenol	7.116	107	48094	5.481	ng	99
18) Hexachloroethane	7.386	117	25475	5.501	ng	97
19) n-Nitroso-di-n-propyla...	7.275	70	46525	5.640	ng	100
20) 3+4-Methylphenols	7.269	107	62607	5.681	ng	93
22) Acetophenone	7.275	105	89338	5.685	ng	# 97
24) Nitrobenzene	7.451	77	71621	5.355	ng	99
25) Isophorone	7.686	82	119458	5.442	ng	99
26) 2-Nitrophenol	7.769	139	25340	4.763	ng	99
27) 2,4-Dimethylphenol	7.798	122	38041	5.255	ng	98
28) bis(2-Chloroethoxy)met...	7.898	93	72777	5.541	ng	96
29) 2,4-Dichlorophenol	8.004	162	47065	5.256	ng	99
30) 1,2,4-Trichlorobenzene	8.092	180	59052	5.503	ng	99
31) Naphthalene	8.175	128	191018	5.837	ng	98
33) 4-Chloroaniline	8.222	127	59005	5.476	ng	99
34) Hexachlorobutadiene	8.292	225	39831	5.484	ng	100
35) Caprolactam	8.551	113	14213	5.218	ng	97
36) 4-Chloro-3-methylphenol	8.698	107	53339	5.350	ng	98
37) 2-Methylnaphthalene	8.869	142	122302	5.726	ng	99
38) 1-Methylnaphthalene	8.963	142	121198	5.789	ng	99
40) 1,2,4,5-Tetrachloroben...	9.033	216	61028	5.611	ng	99
41) Hexachlorocyclopentadiene	9.022	237	11506	3.775	ng	99
43) 2,4,6-Trichlorophenol	9.145	196	34991	5.192	ng	97
44) 2,4,5-Trichlorophenol	9.180	196	36304	5.123	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110524\
 Data File : BF140232.D
 Acq On : 05 Nov 2024 12:52
 Operator : RC/JU
 Sample : SSTDICC005
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC005

Quant Time: Nov 05 16:05:12 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 15:55:36 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) 1,1'-Biphenyl	9.328	154	154417	5.750	ng	98
47) 2-Chloronaphthalene	9.357	162	110964	5.490	ng	98
48) 2-Nitroaniline	9.451	65	33158	4.906	ng	100
49) Acenaphthylene	9.775	152	160677	5.615	ng	99
50) Dimethylphthalate	9.628	163	126555	5.531	ng	98
51) 2,6-Dinitrotoluene	9.692	165	28015	5.209	ng	98
52) Acenaphthene	9.945	154	111840	5.510	ng	99
53) 3-Nitroaniline	9.857	138	27313	5.393	ng	98
55) Dibenzofuran	10.116	168	164665	5.802	ng	99
56) 4-Nitrophenol	10.016	139	14822	4.163	ng	99
57) 2,4-Dinitrotoluene	10.092	165	35682	5.113	ng	96
58) Fluorene	10.463	166	134275	5.943	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.233	232	29985	5.165	ng	97
60) Diethylphthalate	10.327	149	126272	5.554	ng	100
61) 4-Chlorophenyl-phenyle...	10.457	204	66377	5.830	ng	95
62) 4-Nitroaniline	10.469	138	25854	5.137	ng	98
63) Azobenzene	10.616	77	135576	5.752	ng	98
66) n-Nitrosodiphenylamine	10.569	169	109166	5.617	ng	99
67) 4-Bromophenyl-phenylether	10.945	248	38865	5.341	ng	97
68) Hexachlorobenzene	11.010	284	44138	5.322	ng	98
69) Atrazine	11.092	200	34413	6.472	ng	98
70) Pentachlorophenol	11.204	266	17820	4.001	ng	98
71) Phenanthrene	11.427	178	182820	5.669	ng	99
72) Anthracene	11.480	178	180850	5.719	ng	98
73) Carbazole	11.633	167	164314	5.687	ng	99
74) Di-n-butylphthalate	11.963	149	189064	5.528	ng	99
75) Fluoranthene	12.616	202	195471	5.797	ng	100
77) Benzidine	12.739	184	55905	6.487	ng	99
78) Pyrene	12.845	202	203999	5.605	ng	98
80) Butylbenzylphthalate	13.468	149	63884	4.875	ng	97
81) Benzo(a)anthracene	14.045	228	152702	5.398	ng	98
82) 3,3'-Dichlorobenzidine	14.010	252	42666	4.803	ng	98
83) Chrysene	14.080	228	145493	5.492	ng	98
84) Bis(2-ethylhexyl)phtha...	14.033	149	95669	5.209	ng	98
85) Di-n-octyl phthalate	14.674	149	132302	4.786	ng	99
87) Indeno(1,2,3-cd)pyrene	17.062	276	102265	4.715	ng	98
88) Benzo(b)fluoranthene	15.121	252	120060	5.372	ng	98
89) Benzo(k)fluoranthene	15.151	252	112119	5.467	ng	99
90) Benzo(a)pyrene	15.498	252	94454	5.126	ng	100
91) Dibenzo(a,h)anthracene	17.086	278	84741	4.749	ng	99
92) Benzo(g,h,i)perylene	17.515	276	87630	4.814	ng	98

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

[illegible]

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110524\
 Data File : BF140233.D
 Acq On : 05 Nov 2024 13:18
 Operator : RC/JU
 Sample : SSTDICC010
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC010

Quant Time: Nov 05 16:06:01 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 15:55:36 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	169955	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	642615	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	380981	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	690845	20.000	ng	0.00
76) Chrysene-d12	14.057	240	446944	20.000	ng	0.00
86) Perylene-d12	15.563	264	379108	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	220591	21.510	ng	0.00
7) Phenol-d6	6.493	99	285438	21.639	ng	-0.01
23) Nitrobenzene-d5	7.434	82	270000	20.890	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	76087	20.205	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	526071	22.049	ng	-0.01
79) Terphenyl-d14	12.986	244	585234	21.450	ng	-0.01
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.669	88	49437	10.485	ng	99
3) Pyridine	3.434	79	122761	10.671	ng	99
4) n-Nitrosodimethylamine	3.363	42	67275	10.128	ng	99
6) Aniline	6.534	93	128537	10.785	ng	99
8) 2-Chlorophenol	6.657	128	117681	10.967	ng	96
9) Benzaldehyde	6.428	77	96640	11.893	ng	99
10) Phenol	6.504	94	151147	10.789	ng	95
11) bis(2-Chloroethyl)ether	6.604	93	115044	10.810	ng	99
12) 1,3-Dichlorobenzene	6.816	146	136347	10.843	ng	99
13) 1,4-Dichlorobenzene	6.893	146	139034	10.963	ng	99
14) 1,2-Dichlorobenzene	7.045	146	131990	11.143	ng	97
15) Benzyl Alcohol	7.010	79	108748	10.694	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.145	45	188076	10.918	ng	99
17) 2-Methylphenol	7.116	107	93875	10.487	ng	98
18) Hexachloroethane	7.387	117	51249	10.849	ng	94
19) n-Nitroso-di-n-propyla...	7.275	70	90280	10.728	ng	98
20) 3+4-Methylphenols	7.269	107	122859	10.928	ng	95
22) Acetophenone	7.281	105	171813	10.784	ng	93
24) Nitrobenzene	7.451	77	142088	10.477	ng	100
25) Isophorone	7.687	82	232088	10.428	ng	100
26) 2-Nitrophenol	7.769	139	53595	9.934	ng	99
27) 2,4-Dimethylphenol	7.798	122	76264	10.391	ng	97
28) bis(2-Chloroethoxy)met...	7.898	93	141799	10.647	ng	99
29) 2,4-Dichlorophenol	8.010	162	96095	10.584	ng	98
30) 1,2,4-Trichlorobenzene	8.098	180	116262	10.686	ng	99
31) Naphthalene	8.175	128	359545	10.835	ng	99
32) Benzoic acid	7.869	122	43854	7.274	ng	98
33) 4-Chloroaniline	8.222	127	117951	10.797	ng	98
34) Hexachlorobutadiene	8.292	225	77330	10.500	ng	99
35) Caprolactam	8.557	113	28056	10.158	ng	88
36) 4-Chloro-3-methylphenol	8.698	107	104783	10.365	ng	96
37) 2-Methylnaphthalene	8.869	142	238693	11.022	ng	99
38) 1-Methylnaphthalene	8.969	142	231470	10.904	ng	100
40) 1,2,4,5-Tetrachloroben...	9.034	216	117977	10.578	ng	99
41) Hexachlorocyclopentadiene	9.022	237	27651	8.847	ng	96
43) 2,4,6-Trichlorophenol	9.145	196	70295	10.171	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110524\
 Data File : BF140233.D
 Acq On : 05 Nov 2024 13:18
 Operator : RC/JU
 Sample : SSTDICC010
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC010

Quant Time: Nov 05 16:06:01 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 15:55:36 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.181	196	75869	10.440	ng	98
46) 1,1'-Biphenyl	9.334	154	302847	10.997	ng	99
47) 2-Chloronaphthalene	9.357	162	223034	10.761	ng	98
48) 2-Nitroaniline	9.451	65	70833	10.219	ng	99
49) Acenaphthylene	9.775	152	317743	10.828	ng	99
50) Dimethylphthalate	9.628	163	249467	10.632	ng	99
51) 2,6-Dinitrotoluene	9.692	165	56583	10.259	ng	99
52) Acenaphthene	9.945	154	219665	10.554	ng	98
53) 3-Nitroaniline	9.863	138	54572	10.508	ng	99
54) 2,4-Dinitrophenol	9.969	184	13606	10.773	ng	93
55) Dibenzofuran	10.116	168	320619	11.016	ng	100
56) 4-Nitrophenol	10.016	139	33945	9.296	ng	99
57) 2,4-Dinitrotoluene	10.092	165	73382	10.253	ng	100
58) Fluorene	10.463	166	256207	11.059	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.233	232	61750	10.373	ng	99
60) Diethylphthalate	10.333	149	251297	10.778	ng	99
61) 4-Chlorophenyl-phenyle...	10.457	204	128176	10.978	ng	97
62) 4-Nitroaniline	10.469	138	52502	10.173	ng	98
63) Azobenzene	10.616	77	261630	10.824	ng	99
65) 4,6-Dinitro-2-methylph...	10.504	198	27797	7.661	ng	99
66) n-Nitrosodiphenylamine	10.569	169	210031	10.570	ng	100
67) 4-Bromophenyl-phenylether	10.945	248	75749	10.182	ng	97
68) Hexachlorobenzene	11.010	284	88163	10.397	ng	98
69) Atrazine	11.098	200	65321	12.016	ng	98
70) Pentachlorophenol	11.204	266	41649	9.147	ng	98
71) Phenanthrene	11.428	178	360612	10.938	ng	98
72) Anthracene	11.480	178	350419	10.839	ng	99
73) Carbazole	11.633	167	317282	10.741	ng	100
74) Di-n-butylphthalate	11.963	149	378459	10.824	ng	100
75) Fluoranthene	12.616	202	380442	11.036	ng	99
77) Benzidine	12.739	184	104047	11.907	ng	99
78) Pyrene	12.845	202	387191	10.492	ng	98
80) Butylbenzylphthalate	13.469	149	133189	10.023	ng	98
81) Benzo(a)anthracene	14.045	228	300246	10.468	ng	99
82) 3,3'-Dichlorobenzidine	14.010	252	91304	10.137	ng	98
83) Chrysene	14.080	228	282479	10.517	ng	99
84) Bis(2-ethylhexyl)phtha...	14.033	149	191810	10.299	ng	99
85) Di-n-octyl phthalate	14.668	149	275674	9.834	ng	99
87) Indeno(1,2,3-cd)pyrene	17.062	276	210372	9.453	ng	99
88) Benzo(b)fluoranthene	15.121	252	224465	9.789	ng	99
89) Benzo(k)fluoranthene	15.151	252	233221	11.084	ng	98
90) Benzo(a)pyrene	15.498	252	189383	10.017	ng	100
91) Dibenzo(a,h)anthracene	17.080	278	175018	9.559	ng	99
92) Benzo(g,h,i)perylene	17.515	276	178404	9.552	ng	99

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

[illegible]

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110524\
 Data File : BF140234.D
 Acq On : 05 Nov 2024 13:45
 Operator : RC/JU
 Sample : SSTDICC020
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC020

Quant Time: Nov 05 16:06:51 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 15:55:36 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	172055	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	645909	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	373381	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	664825	20.000	ng	0.00
76) Chrysene-d12	14.057	240	412642	20.000	ng	0.00
86) Perylene-d12	15.551	264	363394	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	433943	41.797	ng	0.00
7) Phenol-d6	6.498	99	551873	41.326	ng	0.00
23) Nitrobenzene-d5	7.434	82	535735	41.238	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	147398	39.938	ng	0.00
45) 2-Fluorobiphenyl	9.234	172	979583	41.893	ng	0.00
79) Terphenyl-d14	12.992	244	1038356	41.221	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.663	88	99025	20.746	ng	98
3) Pyridine	3.422	79	241250	20.714	ng	99
4) n-Nitrosodimethylamine	3.369	42	138062	20.532	ng	99
6) Aniline	6.540	93	257880	21.374	ng	99
8) 2-Chlorophenol	6.657	128	225504	20.759	ng	99
9) Benzaldehyde	6.428	77	186643	22.690	ng	99
10) Phenol	6.510	94	301412	21.252	ng	94
11) bis(2-Chloroethyl)ether	6.610	93	221028	20.515	ng	99
12) 1,3-Dichlorobenzene	6.816	146	267524	21.015	ng	99
13) 1,4-Dichlorobenzene	6.893	146	266836	20.783	ng	100
14) 1,2-Dichlorobenzene	7.045	146	257015	21.433	ng	99
15) Benzyl Alcohol	7.010	79	216423	21.023	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.151	45	368653	21.139	ng	99
17) 2-Methylphenol	7.122	107	186921	20.627	ng	98
18) Hexachloroethane	7.387	117	99144	20.731	ng	95
19) n-Nitroso-di-n-propyla...	7.281	70	174577	20.492	ng	98
20) 3+4-Methylphenols	7.275	107	241377	21.209	ng	94
22) Acetophenone	7.281	105	330679	20.649	ng	# 96
24) Nitrobenzene	7.457	77	281924	20.681	ng	98
25) Isophorone	7.692	82	451202	20.170	ng	100
26) 2-Nitrophenol	7.769	139	109507	20.195	ng	97
27) 2,4-Dimethylphenol	7.804	122	150911	20.457	ng	96
28) bis(2-Chloroethoxy)met...	7.904	93	276697	20.670	ng	99
29) 2,4-Dichlorophenol	8.010	162	187987	20.599	ng	99
30) 1,2,4-Trichlorobenzene	8.098	180	225612	20.630	ng	99
31) Naphthalene	8.181	128	691496	20.732	ng	99
32) Benzoic acid	7.887	122	103754	17.121	ng	99
33) 4-Chloroaniline	8.222	127	228830	20.840	ng	99
34) Hexachlorobutadiene	8.292	225	153685	20.762	ng	99
35) Caprolactam	8.575	113	56716	20.429	ng	95
36) 4-Chloro-3-methylphenol	8.698	107	206111	20.284	ng	99
37) 2-Methylnaphthalene	8.869	142	453289	20.824	ng	100
38) 1-Methylnaphthalene	8.969	142	446421	20.923	ng	100
40) 1,2,4,5-Tetrachloroben...	9.034	216	224209	20.512	ng	99
41) Hexachlorocyclopentadiene	9.022	237	63080	20.594	ng	98
43) 2,4,6-Trichlorophenol	9.145	196	135701	20.034	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110524\
 Data File : BF140234.D
 Acq On : 05 Nov 2024 13:45
 Operator : RC/JU
 Sample : SSTDICC020
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC020

Quant Time: Nov 05 16:06:51 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 15:55:36 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	147945	20.773	ng	98
46) 1,1'-Biphenyl	9.334	154	567855	21.040	ng	99
47) 2-Chloronaphthalene	9.357	162	423730	20.860	ng	99
48) 2-Nitroaniline	9.451	65	138378	20.370	ng	100
49) Acenaphthylene	9.775	152	604059	21.005	ng	100
50) Dimethylphthalate	9.633	163	471181	20.490	ng	99
51) 2,6-Dinitrotoluene	9.698	165	111731	20.671	ng	98
52) Acenaphthene	9.951	154	423437	20.759	ng	98
53) 3-Nitroaniline	9.863	138	105330	20.695	ng	97
54) 2,4-Dinitrophenol	9.969	184	37832	19.300	ng	# 84
55) Dibenzofuran	10.122	168	598372	20.978	ng	100
56) 4-Nitrophenol	10.016	139	73196	20.454	ng	99
57) 2,4-Dinitrotoluene	10.098	165	144849	20.651	ng	98
58) Fluorene	10.463	166	473026	20.833	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	119839	20.540	ng	99
60) Diethylphthalate	10.333	149	474686	20.773	ng	100
61) 4-Chlorophenyl-phenyle...	10.457	204	238080	20.806	ng	97
62) 4-Nitroaniline	10.475	138	105419	20.843	ng	99
63) Azobenzene	10.616	77	492408	20.787	ng	99
65) 4,6-Dinitro-2-methylph...	10.510	198	66287	18.984	ng	95
66) n-Nitrosodiphenylamine	10.575	169	398846	20.858	ng	99
67) 4-Bromophenyl-phenylether	10.945	248	148317	20.717	ng	99
68) Hexachlorobenzene	11.010	284	167183	20.487	ng	98
69) Atrazine	11.098	200	103143	19.716	ng	99
70) Pentachlorophenol	11.204	266	88701	20.243	ng	97
71) Phenanthrene	11.428	178	667577	21.041	ng	99
72) Anthracene	11.480	178	654429	21.035	ng	99
73) Carbazole	11.633	167	598904	21.068	ng	99
74) Di-n-butylphthalate	11.963	149	706033	20.982	ng	100
75) Fluoranthene	12.622	202	694279	20.927	ng	99
77) Benzidine	12.739	184	156645	19.416	ng	99
78) Pyrene	12.851	202	713125	20.931	ng	99
80) Butylbenzylphthalate	13.469	149	252851	20.610	ng	99
81) Benzo(a)anthracene	14.045	228	555009	20.958	ng	98
82) 3,3'-Dichlorobenzidine	14.004	252	169024	20.325	ng	99
83) Chrysene	14.080	228	497583	20.065	ng	99
84) Bis(2-ethylhexyl)phtha...	14.033	149	354006	20.588	ng	99
85) Di-n-octyl phthalate	14.663	149	529422	20.456	ng	100
87) Indeno(1,2,3-cd)pyrene	17.057	276	440956	20.672	ng	100
88) Benzo(b)fluoranthene	15.116	252	440979	20.062	ng	99
89) Benzo(k)fluoranthene	15.145	252	438390	21.735	ng	99
90) Benzo(a)pyrene	15.486	252	371386	20.493	ng	99
91) Dibenzo(a,h)anthracene	17.074	278	362633	20.663	ng	99
92) Benzo(g,h,i)perylene	17.509	276	369416	20.635	ng	99

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

[illegible]

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110524\
 Data File : BF140235.D
 Acq On : 05 Nov 2024 14:11
 Operator : RC/JU
 Sample : SSTDICCC040
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICCC040

Quant Time: Nov 05 16:07:41 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 15:55:36 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	201300	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	739114	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	424404	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	741987	20.000	ng	0.00
76) Chrysene-d12	14.063	240	448378	20.000	ng	0.00
86) Perylene-d12	15.562	264	424484	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.492	112	932970	76.807	ng	0.00
7) Phenol-d6	6.504	99	1203719	77.043	ng	0.00
23) Nitrobenzene-d5	7.445	82	1157828	77.884	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	328851	78.391	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	2008505	75.569	ng	0.00
79) Terphenyl-d14	12.998	244	2078512	75.938	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.669	88	221368	39.639	ng	100
3) Pyridine	3.428	79	539515	39.593	ng	100
4) n-Nitrosodimethylamine	3.393	42	313834	39.892	ng	100
6) Aniline	6.545	93	549541	38.931	ng	100
8) 2-Chlorophenol	6.663	128	488589	38.443	ng	100
9) Benzaldehyde	6.428	77	382096	39.702	ng	100
10) Phenol	6.522	94	641151	38.639	ng	100
11) bis(2-Chloroethyl)ether	6.616	93	486877	38.624	ng	100
12) 1,3-Dichlorobenzene	6.822	146	568767	38.189	ng	100
13) 1,4-Dichlorobenzene	6.898	146	573058	38.150	ng	100
14) 1,2-Dichlorobenzene	7.051	146	527138	37.573	ng	100
15) Benzyl Alcohol	7.016	79	475780	39.503	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.151	45	788093	38.624	ng	100
17) 2-Methylphenol	7.128	107	413733	39.023	ng	100
18) Hexachloroethane	7.392	117	214636	38.360	ng	100
19) n-Nitroso-di-n-propyla...	7.292	70	382128	38.338	ng	100
20) 3+4-Methylphenols	7.281	107	514005	38.602	ng	100
22) Acetophenone	7.287	105	701041	38.256	ng	100
24) Nitrobenzene	7.463	77	612281	39.252	ng	100
25) Isophorone	7.698	82	997249	38.959	ng	100
26) 2-Nitrophenol	7.775	139	252459	40.686	ng	100
27) 2,4-Dimethylphenol	7.804	122	330723	39.178	ng	100
28) bis(2-Chloroethoxy)met...	7.904	93	591584	38.620	ng	100
29) 2,4-Dichlorophenol	8.016	162	411115	39.367	ng	100
30) 1,2,4-Trichlorobenzene	8.098	180	484648	38.728	ng	100
31) Naphthalene	8.181	128	1465665	38.402	ng	100
32) Benzoic acid	7.928	122	285770	41.211	ng	100
33) 4-Chloroaniline	8.228	127	487566	38.804	ng	100
34) Hexachlorobutadiene	8.298	225	328083	38.733	ng	100
35) Caprolactam	8.610	113	125350	39.457	ng	100
36) 4-Chloro-3-methylphenol	8.704	107	461679	39.706	ng	100
37) 2-Methylnaphthalene	8.869	142	952065	38.221	ng	100
38) 1-Methylnaphthalene	8.969	142	936784	38.369	ng	100
40) 1,2,4,5-Tetrachloroben...	9.039	216	477398	38.424	ng	100
41) Hexachlorocyclopentadiene	9.022	237	155401	44.636	ng	100
43) 2,4,6-Trichlorophenol	9.151	196	306499	39.809	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110524\
 Data File : BF140235.D
 Acq On : 05 Nov 2024 14:11
 Operator : RC/JU
 Sample : SSTDICCC040
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICCC040

Quant Time: Nov 05 16:07:41 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 15:55:36 2024
 Response via : Initial Calibration

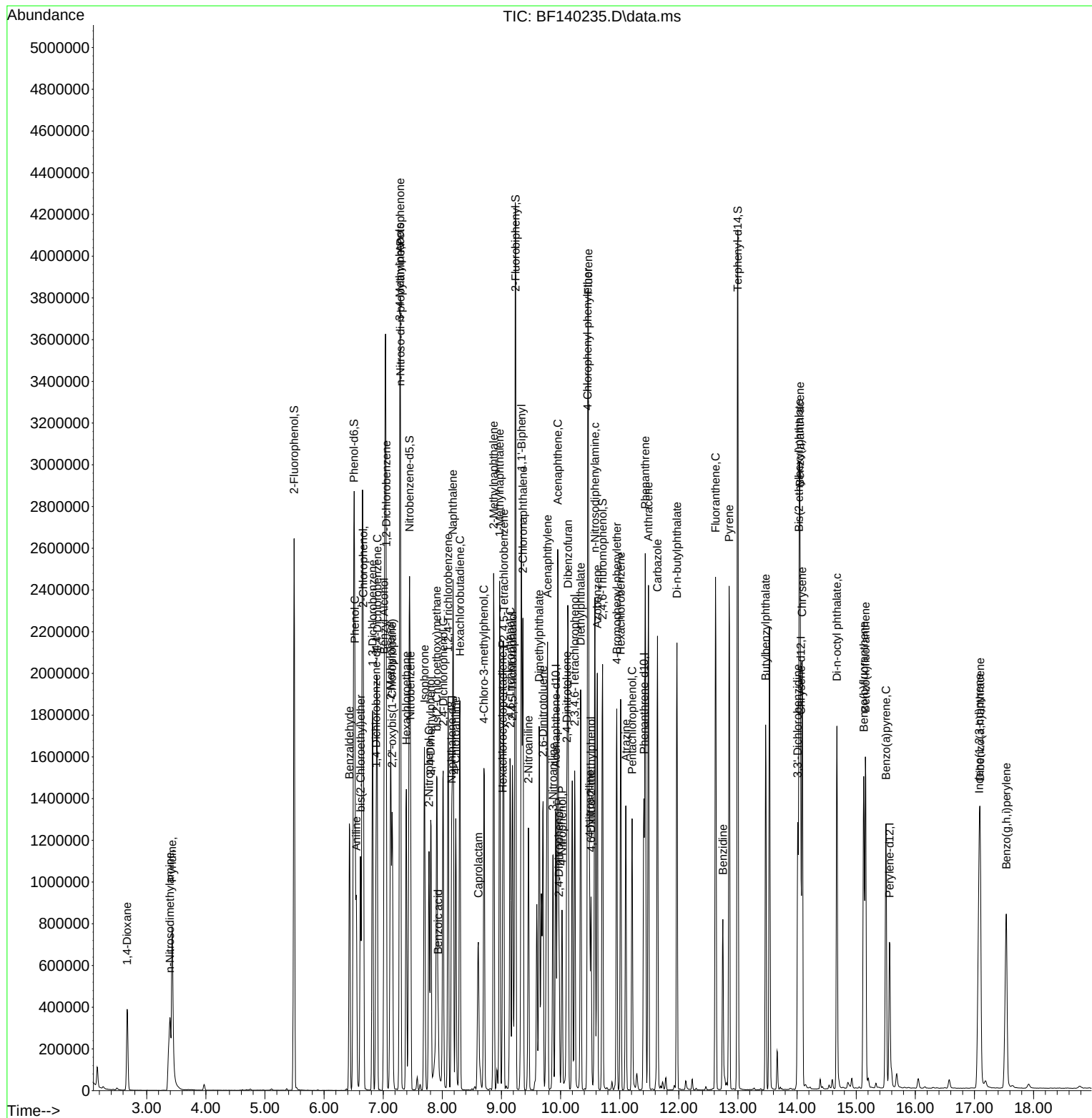
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	316737	39.126	ng	100
46) 1,1'-Biphenyl	9.339	154	1167873	38.070	ng	100
47) 2-Chloronaphthalene	9.363	162	891580	38.615	ng	100
48) 2-Nitroaniline	9.457	65	312804	40.511	ng	100
49) Acenaphthylene	9.780	152	1261736	38.599	ng	100
50) Dimethylphthalate	9.639	163	1010651	38.667	ng	100
51) 2,6-Dinitrotoluene	9.704	165	243054	39.561	ng	100
52) Acenaphthene	9.951	154	898486	38.752	ng	100
53) 3-Nitroaniline	9.875	138	227936	39.400	ng	100
54) 2,4-Dinitrophenol	9.975	184	108966	39.501	ng	100
55) Dibenzofuran	10.127	168	1245474	38.415	ng	100
56) 4-Nitrophenol	10.028	139	172375	42.377	ng	100
57) 2,4-Dinitrotoluene	10.104	165	317622	39.839	ng	100
58) Fluorene	10.469	166	979791	37.965	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	258822	39.028	ng	100
60) Diethylphthalate	10.339	149	1006201	38.739	ng	100
61) 4-Chlorophenyl-phenyle...	10.457	204	493246	37.922	ng	100
62) 4-Nitroaniline	10.492	138	229397	39.902	ng	100
63) Azobenzene	10.622	77	1034313	38.414	ng	100
65) 4,6-Dinitro-2-methylph...	10.516	198	162780	41.771	ng	100
66) n-Nitrosodiphenylamine	10.580	169	817000	38.283	ng	100
67) 4-Bromophenyl-phenylether	10.951	248	309696	38.761	ng	100
68) Hexachlorobenzene	11.016	284	351085	38.549	ng	100
69) Atrazine	11.104	200	231662	39.677	ng	100
70) Pentachlorophenol	11.210	266	204837	41.885	ng	100
71) Phenanthrene	11.433	178	1357899	38.348	ng	100
72) Anthracene	11.486	178	1326144	38.193	ng	100
73) Carbazole	11.639	167	1219377	38.434	ng	100
74) Di-n-butylphthalate	11.969	149	1447372	38.540	ng	100
75) Fluoranthene	12.621	202	1409323	38.063	ng	100
77) Benzidine	12.745	184	438973	50.073	ng	100
78) Pyrene	12.851	202	1425552	38.506	ng	100
80) Butylbenzylphthalate	13.468	149	535390	40.162	ng	100
81) Benzo(a)anthracene	14.051	228	1104611	38.388	ng	100
82) 3,3'-Dichlorobenzidine	14.010	252	373765	41.363	ng	100
83) Chrysene	14.086	228	1034634	38.396	ng	100
84) Bis(2-ethylhexyl)phtha...	14.033	149	734105	39.291	ng	100
85) Di-n-octyl phthalate	14.674	149	1136607	40.417	ng	100
87) Indeno(1,2,3-cd)pyrene	17.080	276	1014754	40.725	ng	100
88) Benzo(b)fluoranthene	15.127	252	1056855	41.161	ng	100
89) Benzo(k)fluoranthene	15.157	252	871802	37.002	ng	100
90) Benzo(a)pyrene	15.504	252	842886	39.816	ng	100
91) Dibenzo(a,h)anthracene	17.098	278	830761	40.525	ng	100
92) Benzo(g,h,i)perylene	17.539	276	844017	40.360	ng	100

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110524\
Data File : BF140235.D
Acq On : 05 Nov 2024 14:11
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Nov 05 16:07:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 15:55:36 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110524\
 Data File : BF140236.D
 Acq On : 05 Nov 2024 14:37
 Operator : RC/JU
 Sample : SSTDICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDICC050

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/06/2024

Supervised By :mohammad ahmed 11/06/2024

Quant Time: Nov 05 16:08:29 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Nov 05 15:55:36 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	191267	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	704633	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	400668	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	706355	20.000	ng	0.00
76) Chrysene-d12	14.063	240	414179	20.000	ng	0.00
86) Perylene-d12	15.568	264	413813	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	1087870	94.257	ng	0.00
7) Phenol-d6	6.510	99	1398138	94.181	ng	0.00
23) Nitrobenzene-d5	7.445	82	1362891	96.164	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	395367	99.830	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	2300668	91.690	ng	0.00
79) Terphenyl-d14	12.998	244	2410293	95.330	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.663	88	251379	47.374	ng	99
3) Pyridine	3.428	79	619596	47.855	ng	99
4) n-Nitrosodimethylamine	3.393	42	366611	49.044	ng	98
6) Aniline	6.545	93	629145	46.909	ng	100
8) 2-Chlorophenol	6.669	128	567354	46.982	ng	97
9) Benzaldehyde	6.428	77	401278	43.882	ng	99
10) Phenol	6.522	94	753287	47.778	ng	99
11) bis(2-Chloroethyl)ether	6.616	93	574259	47.946	ng	100
12) 1,3-Dichlorobenzene	6.822	146	663180	46.863	ng	100
13) 1,4-Dichlorobenzene	6.898	146	666201	46.677	ng	100
14) 1,2-Dichlorobenzene	7.051	146	617459	46.320	ng	99
15) Benzyl Alcohol	7.022	79	548388	47.919	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.151	45	913475	47.118	ng	99
17) 2-Methylphenol	7.128	107	480339	47.682	ng	99
18) Hexachloroethane	7.392	117	250522	47.122	ng	99
19) n-Nitroso-di-n-propyla...	7.298	70	441208	46.587	ng	98
20) 3+4-Methylphenols	7.281	107	592825	46.857	ng	95
22) Acetophenone	7.292	105	812202	46.490	ng	95
24) Nitrobenzene	7.463	77	716391	48.173	ng	100
25) Isophorone	7.698	82	1160774	47.566	ng	100
26) 2-Nitrophenol	7.775	139	294047	49.707	ng	97
27) 2,4-Dimethylphenol	7.810	122	389731	48.427	ng	98
28) bis(2-Chloroethoxy)met...	7.910	93	686655	47.020	ng	99
29) 2,4-Dichlorophenol	8.016	162	475638	47.774	ng	99
30) 1,2,4-Trichlorobenzene	8.098	180	559810	46.924	ng	100
31) Naphthalene	8.181	128	1684351	46.291	ng	100
32) Benzoic acid	7.939	122	364495m	55.136	ng	
33) 4-Chloroaniline	8.228	127	566905	47.326	ng	99
34) Hexachlorobutadiene	8.298	225	383464	47.487	ng	100
35) Caprolactam	8.616	113	148595	49.063	ng	97
36) 4-Chloro-3-methylphenol	8.710	107	533391	48.119	ng	99
37) 2-Methylnaphthalene	8.869	142	1102535	46.428	ng	99
38) 1-Methylnaphthalene	8.969	142	1078000	46.314	ng	100
40) 1,2,4,5-Tetrachloroben...	9.039	216	560341	47.772	ng	100
41) Hexachlorocyclopentadiene	9.022	237	177651	54.050	ng	100
43) 2,4,6-Trichlorophenol	9.151	196	354951	48.833	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110524\
 Data File : BF140236.D
 Acq On : 05 Nov 2024 14:37
 Operator : RC/JU
 Sample : SSTDICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDICC050

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/06/2024

Supervised By :mohammad ahmed 11/06/2024

Quant Time: Nov 05 16:08:29 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Nov 05 15:55:36 2024

Response via : Initial Calibration

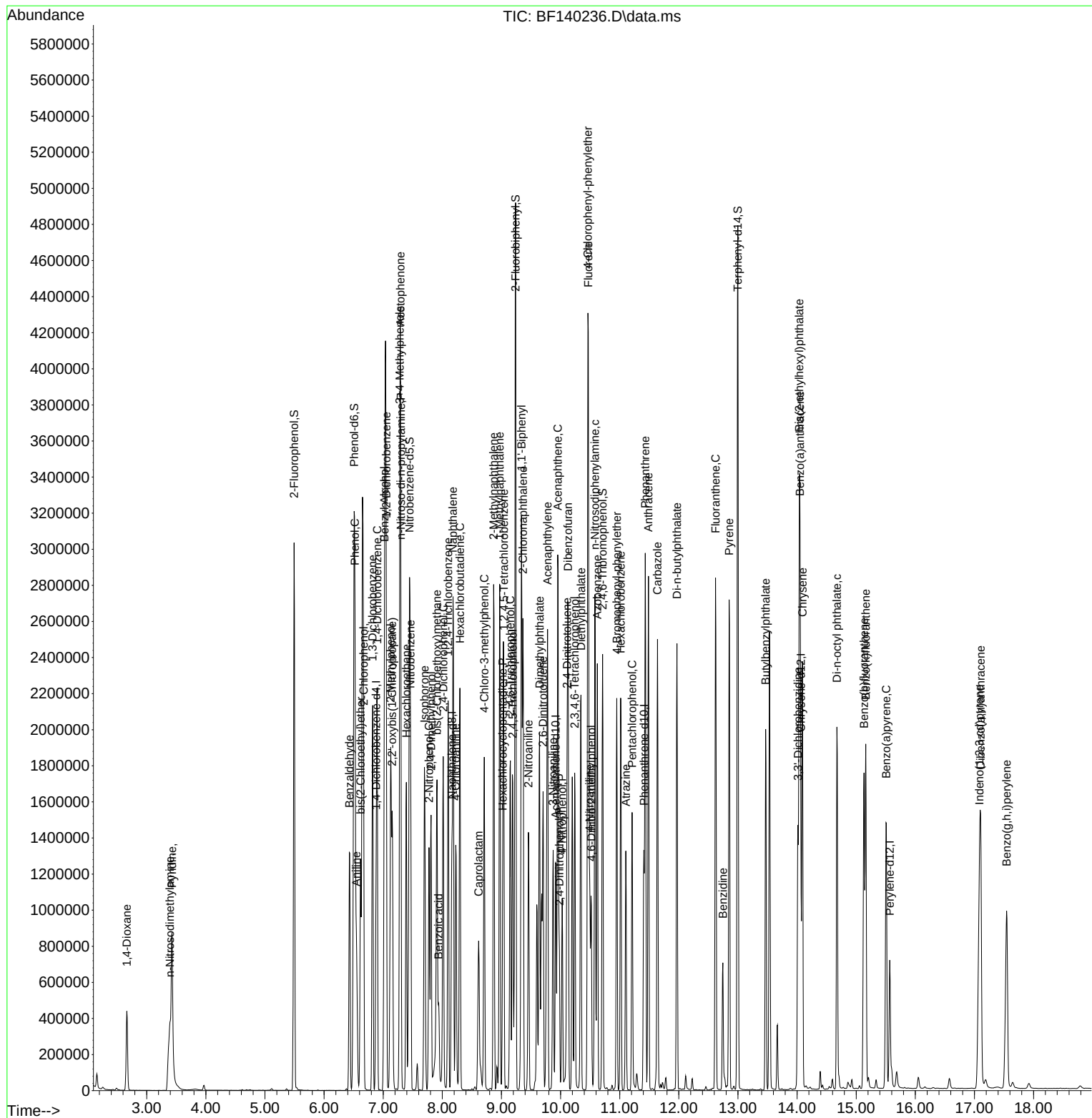
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	374740	49.033	ng	98
46) 1,1'-Biphenyl	9.339	154	1343825	46.401	ng	99
47) 2-Chloronaphthalene	9.363	162	1037538	47.599	ng	100
48) 2-Nitroaniline	9.457	65	363600	49.879	ng	99
49) Acenaphthylene	9.781	152	1467454	47.552	ng	100
50) Dimethylphthalate	9.645	163	1184161	47.989	ng	100
51) 2,6-Dinitrotoluene	9.704	165	286579	49.408	ng	99
52) Acenaphthene	9.951	154	1056679	48.275	ng	99
53) 3-Nitroaniline	9.875	138	267853	49.043	ng	100
54) 2,4-Dinitrophenol	9.980	184	135635	50.129	ng	90
55) Dibenzofuran	10.128	168	1426668	46.611	ng	99
56) 4-Nitrophenol	10.028	139	206577	53.794	ng	98
57) 2,4-Dinitrotoluene	10.110	165	373240	49.588	ng	99
58) Fluorene	10.469	166	1128891	46.333	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	309472	49.430	ng	98
60) Diethylphthalate	10.345	149	1172239	47.806	ng	99
61) 4-Chlorophenyl-phenyle...	10.463	204	574398	46.777	ng	98
62) 4-Nitroaniline	10.492	138	266984	49.191	ng	100
63) Azobenzene	10.622	77	1201951	47.285	ng	100
65) 4,6-Dinitro-2-methylph...	10.522	198	197108	53.132	ng	96
66) n-Nitrosodiphenylamine	10.580	169	958670	47.188	ng	99
67) 4-Bromophenyl-phenylether	10.951	248	367228	48.280	ng	100
68) Hexachlorobenzene	11.016	284	415114	47.879	ng	100
69) Atrazine	11.104	200	223757	40.257	ng	99
70) Pentachlorophenol	11.210	266	245274	52.683	ng	98
71) Phenanthrene	11.433	178	1563197	46.372	ng	100
72) Anthracene	11.486	178	1555121	47.047	ng	100
73) Carbazole	11.639	167	1421225	47.056	ng	100
74) Di-n-butylphthalate	11.969	149	1696138	47.443	ng	100
75) Fluoranthene	12.621	202	1639320	46.508	ng	100
77) Benzidine	12.745	184	377913	46.668	ng	100
78) Pyrene	12.851	202	1627613	47.594	ng	100
80) Butylbenzylphthalate	13.469	149	622157	50.524	ng	100
81) Benzo(a)anthracene	14.051	228	1275487	47.986	ng	100
82) 3,3'-Dichlorobenzidine	14.016	252	420080	50.327	ng	99
83) Chrysene	14.092	228	1218930	48.971	ng	100
84) Bis(2-ethylhexyl)phtha...	14.039	149	854076	49.487	ng	99
85) Di-n-octyl phthalate	14.674	149	1310054	50.431	ng	100
87) Indeno(1,2,3-cd)pyrene	17.086	276	1212009	49.896	ng	100
88) Benzo(b)fluoranthene	15.133	252	1163683	46.490	ng	100
89) Benzo(k)fluoranthene	15.163	252	1122240	48.860	ng	100
90) Benzo(a)pyrene	15.510	252	1008660	48.875	ng	100
91) Dibenzo(a,h)anthracene	17.104	278	1001042	50.091	ng	99
92) Benzo(g,h,i)perylene	17.545	276	1010770	49.580	ng	99

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :mohammad ahmed 11/06/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110524\
 Data File : BF140237.D
 Acq On : 05 Nov 2024 15:03
 Operator : RC/JU
 Sample : SSTDICC060
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC060

Quant Time: Nov 05 16:09:19 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 15:55:36 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	187804	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	684182	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	389440	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	668545	20.000	ng	0.00
76) Chrysene-d12	14.063	240	387632	20.000	ng	0.00
86) Perylene-d12	15.562	264	389692	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	1296648	114.418	ng	0.00
7) Phenol-d6	6.510	99	1654255	113.488	ng	0.00
23) Nitrobenzene-d5	7.445	82	1604122	116.569	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	471104	122.383	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	2724284	111.703	ng	0.00
79) Terphenyl-d14	12.998	244	2744132	115.967	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.669	88	297087	57.021	ng	100
3) Pyridine	3.434	79	731256	57.521	ng	99
4) n-Nitrosodimethylamine	3.404	42	442704	60.316	ng	99
6) Aniline	6.545	93	731513	55.547	ng	94
8) 2-Chlorophenol	6.669	128	665689	56.141	ng	99
9) Benzaldehyde	6.434	77	463884	51.664	ng	99
10) Phenol	6.528	94	869995	56.198	ng	95
11) bis(2-Chloroethyl)ether	6.622	93	676600	57.533	ng	98
12) 1,3-Dichlorobenzene	6.822	146	781851	56.268	ng	99
13) 1,4-Dichlorobenzene	6.898	146	789615	56.344	ng	99
14) 1,2-Dichlorobenzene	7.051	146	724385	55.343	ng	99
15) Benzyl Alcohol	7.022	79	650104	57.855	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.157	45	1069466	56.181	ng	99
17) 2-Methylphenol	7.128	107	575947	58.227	ng	100
18) Hexachloroethane	7.392	117	302379	57.925	ng	97
19) n-Nitroso-di-n-propyla...	7.298	70	527285	56.703	ng	99
20) 3+4-Methylphenols	7.286	107	699944	56.344	ng	98
22) Acetophenone	7.292	105	969684	57.164	ng	99
24) Nitrobenzene	7.469	77	835593	57.869	ng	98
25) Isophorone	7.704	82	1395796	58.907	ng	100
26) 2-Nitrophenol	7.775	139	355080	61.819	ng	98
27) 2,4-Dimethylphenol	7.810	122	465488	59.570	ng	98
28) bis(2-Chloroethoxy)met...	7.910	93	819842	57.818	ng	100
29) 2,4-Dichlorophenol	8.016	162	568685	58.828	ng	99
30) 1,2,4-Trichlorobenzene	8.098	180	670528	57.884	ng	99
31) Naphthalene	8.186	128	1981135	56.075	ng	100
32) Benzoic acid	7.951	122	433149	67.479	ng	98
33) 4-Chloroaniline	8.233	127	663940	57.083	ng	99
34) Hexachlorobutadiene	8.298	225	456993	58.284	ng	99
35) Caprolactam	8.622	113	175832	59.792	ng	94
36) 4-Chloro-3-methylphenol	8.710	107	631091	58.634	ng	99
37) 2-Methylnaphthalene	8.875	142	1286445	55.792	ng	99
38) 1-Methylnaphthalene	8.975	142	1270579	56.219	ng	100
40) 1,2,4,5-Tetrachloroben...	9.039	216	656406	57.575	ng	99
41) Hexachlorocyclopentadiene	9.028	237	211296	66.140	ng	100
43) 2,4,6-Trichlorophenol	9.151	196	415949	58.875	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110524\
 Data File : BF140237.D
 Acq On : 05 Nov 2024 15:03
 Operator : RC/JU
 Sample : SSTDICC060
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC060

Quant Time: Nov 05 16:09:19 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 15:55:36 2024
 Response via : Initial Calibration

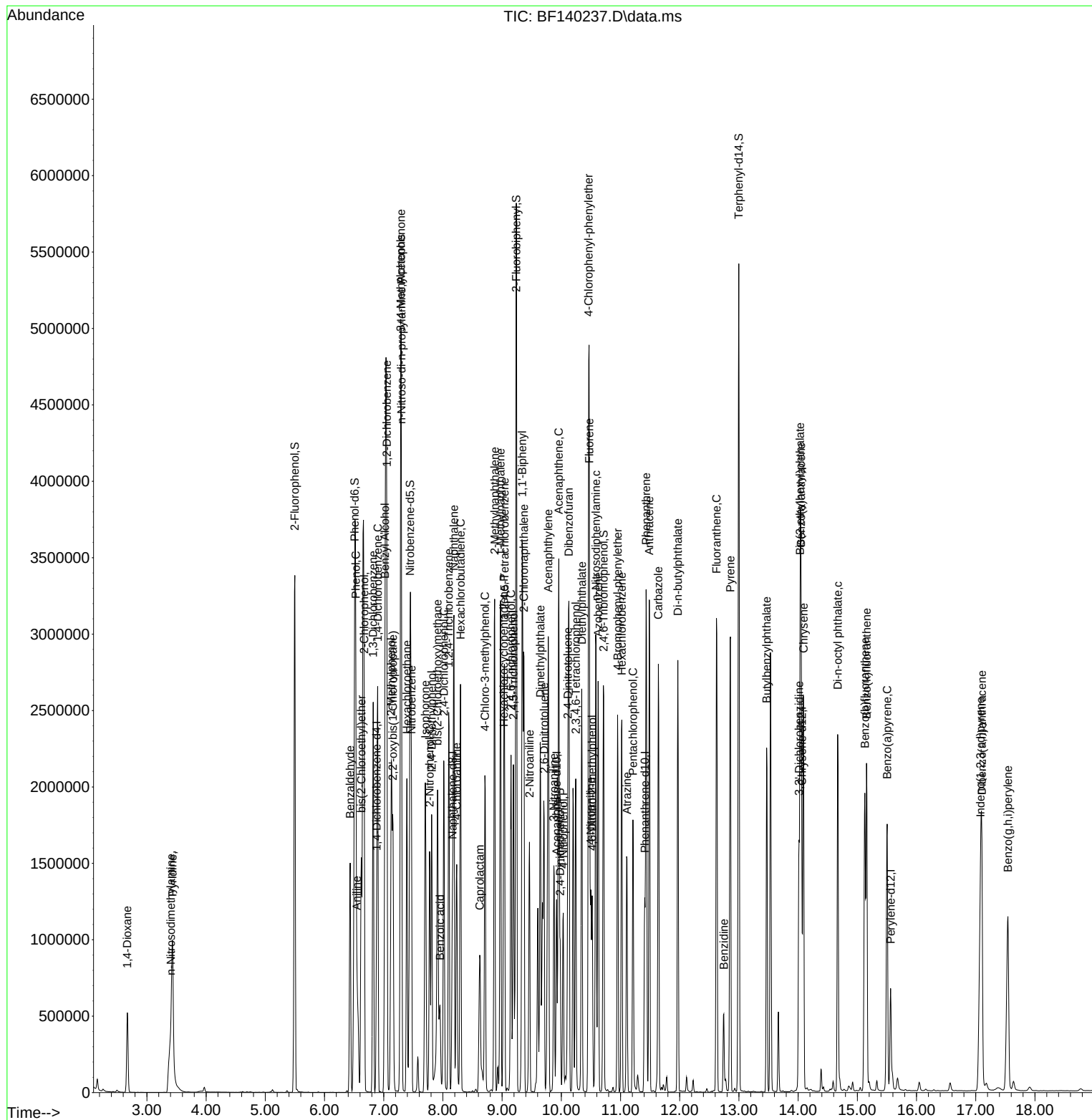
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	447116	60.190	ng	99
46) 1,1'-Biphenyl	9.339	154	1574040	55.917	ng	99
47) 2-Chloronaphthalene	9.369	162	1214984	57.347	ng	100
48) 2-Nitroaniline	9.463	65	425232	60.015	ng	98
49) Acenaphthylene	9.780	152	1696341	56.553	ng	100
50) Dimethylphthalate	9.645	163	1379088	57.500	ng	100
51) 2,6-Dinitrotoluene	9.710	165	331667	58.830	ng	98
52) Acenaphthene	9.957	154	1215804	57.146	ng	100
53) 3-Nitroaniline	9.875	138	305987	57.641	ng	98
54) 2,4-Dinitrophenol	9.980	184	162012	60.200	ng	93
55) Dibenzofuran	10.127	168	1660046	55.799	ng	99
56) 4-Nitrophenol	10.033	139	235349	63.053	ng	98
57) 2,4-Dinitrotoluene	10.110	165	436570	59.675	ng	99
58) Fluorene	10.474	166	1302899	55.017	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	359884	59.139	ng	99
60) Diethylphthalate	10.345	149	1360979	57.103	ng	99
61) 4-Chlorophenyl-phenyle...	10.463	204	664356	55.663	ng	99
62) 4-Nitroaniline	10.498	138	315006	59.713	ng	100
63) Azobenzene	10.622	77	1389839	56.253	ng	99
65) 4,6-Dinitro-2-methylph...	10.522	198	232444	66.200	ng	100
66) n-Nitrosodiphenylamine	10.586	169	1100732	57.245	ng	99
67) 4-Bromophenyl-phenylether	10.951	248	424672	58.989	ng	98
68) Hexachlorobenzene	11.022	284	485713	59.190	ng	96
69) Atrazine	11.110	200	276305	52.522	ng	98
70) Pentachlorophenol	11.210	266	288818	65.545	ng	98
71) Phenanthrene	11.433	178	1809268	56.708	ng	100
72) Anthracene	11.486	178	1755956	56.127	ng	100
73) Carbazole	11.639	167	1621848	56.735	ng	100
74) Di-n-butylphthalate	11.969	149	1938169	57.278	ng	99
75) Fluoranthene	12.621	202	1875187	56.208	ng	100
77) Benzidine	12.745	184	289825	38.241	ng	100
78) Pyrene	12.857	202	1855529	57.975	ng	100
80) Butylbenzylphthalate	13.468	149	711742	61.758	ng	100
81) Benzo(a)anthracene	14.051	228	1457853	58.604	ng	100
82) 3,3'-Dichlorobenzidine	14.015	252	466842	59.759	ng	99
83) Chrysene	14.092	228	1372108	58.900	ng	100
84) Bis(2-ethylhexyl)phtha...	14.033	149	965675	59.785	ng	99
85) Di-n-octyl phthalate	14.668	149	1501431	61.757	ng	100
87) Indeno(1,2,3-cd)pyrene	17.080	276	1437454	62.840	ng	100
88) Benzo(b)fluoranthene	15.127	252	1503916	63.802	ng	100
89) Benzo(k)fluoranthene	15.157	252	1139517	52.683	ng	100
90) Benzo(a)pyrene	15.504	252	1176631	60.543	ng	100
91) Dibenzo(a,h)anthracene	17.103	278	1169317	62.133	ng	100
92) Benzo(g,h,i)perylene	17.545	276	1189123	61.939	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110524\
Data File : BF140237.D
Acq On : 05 Nov 2024 15:03
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Nov 05 16:09:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 15:55:36 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110524\
 Data File : BF140238.D
 Acq On : 05 Nov 2024 15:30
 Operator : RC/JU
 Sample : SSTDICC080
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC080

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/06/2024
 Supervised By :mohammad ahmed 11/06/2024

Quant Time: Nov 05 16:10:12 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 15:55:36 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	179294	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	638854	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	363215	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	613476	20.000	ng	0.00
76) Chrysene-d12	14.063	240	360851	20.000	ng	0.00
86) Perylene-d12	15.557	264	375613	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	1553298	143.571	ng	0.00
7) Phenol-d6	6.516	99	1997218	143.520	ng	0.01
23) Nitrobenzene-d5	7.451	82	1927630	150.016	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	566160	157.696	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	3186577	140.091	ng	0.00
79) Terphenyl-d14	12.998	244	3154306	143.194	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.675	88	366165	73.615	ng	99
3) Pyridine	3.440	79	884033	72.839	ng	99
4) n-Nitrosodimethylamine	3.416	42	535264	76.388	ng	98
6) Aniline	6.545	93	873525m	69.479	ng	
8) 2-Chlorophenol	6.669	128	803751	71.002	ng	98
9) Benzaldehyde	6.434	77	502710	58.646	ng	98
10) Phenol	6.534	94	1028744	69.607	ng	93
11) bis(2-Chloroethyl)ether	6.622	93	788669	70.245	ng	98
12) 1,3-Dichlorobenzene	6.822	146	948017	71.465	ng	98
13) 1,4-Dichlorobenzene	6.898	146	947921	70.851	ng	99
14) 1,2-Dichlorobenzene	7.057	146	861682	68.957	ng	99
15) Benzyl Alcohol	7.028	79	770810	71.853	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.157	45	1264883	69.600	ng	97
17) 2-Methylphenol	7.134	107	698110	73.928	ng	98
18) Hexachloroethane	7.392	117	363441	72.927	ng	98
19) n-Nitroso-di-n-propyla...	7.304	70	635160	71.545	ng	98
20) 3+4-Methylphenols	7.292	107	824817	69.547	ng	93
22) Acetophenone	7.298	105	1157126	73.054	ng	97
24) Nitrobenzene	7.469	77	1011878	75.049	ng	99
25) Isophorone	7.704	82	1686916	76.244	ng	100
26) 2-Nitrophenol	7.781	139	430227	80.216	ng	99
27) 2,4-Dimethylphenol	7.816	122	552279	75.691	ng	99
28) bis(2-Chloroethoxy)met...	7.910	93	978867	73.931	ng	99
29) 2,4-Dichlorophenol	8.022	162	679091	75.233	ng	100
30) 1,2,4-Trichlorobenzene	8.104	180	802903	74.229	ng	99
31) Naphthalene	8.187	128	2354435	71.369	ng	99
32) Benzoic acid	7.963	122	552936	92.252	ng	99
33) 4-Chloroaniline	8.234	127	795029	73.203	ng	99
34) Hexachlorobutadiene	8.298	225	542123	74.047	ng	100
35) Caprolactam	8.634	113	209799	76.404	ng	96
36) 4-Chloro-3-methylphenol	8.716	107	761412	75.762	ng	99
37) 2-Methylnaphthalene	8.875	142	1545877	71.800	ng	100
38) 1-Methylnaphthalene	8.975	142	1490940	70.650	ng	99
40) 1,2,4,5-Tetrachloroben...	9.039	216	781557	73.502	ng	98
41) Hexachlorocyclopentadiene	9.028	237	245812	82.499	ng	99
43) 2,4,6-Trichlorophenol	9.151	196	521749	79.182	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110524\
 Data File : BF140238.D
 Acq On : 05 Nov 2024 15:30
 Operator : RC/JU
 Sample : SSTDICC080
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/06/2024

Supervised By :mohammad ahmed 11/06/2024

Quant Time: Nov 05 16:10:12 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Nov 05 15:55:36 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	515907	74.465	ng	99
46) 1,1'-Biphenyl	9.345	154	1861824	70.916	ng	100
47) 2-Chloronaphthalene	9.369	162	1438094	72.779	ng	100
48) 2-Nitroaniline	9.463	65	511688	77.432	ng	100
49) Acenaphthylene	9.786	152	1981461	70.829	ng	99
50) Dimethylphthalate	9.651	163	1648568	73.699	ng	100
51) 2,6-Dinitrotoluene	9.710	165	395842	75.283	ng	99
52) Acenaphthene	9.957	154	1457019	73.428	ng	99
53) 3-Nitroaniline	9.880	138	360119	72.736	ng	99
54) 2,4-Dinitrophenol	9.980	184	206705	80.097	ng	93
55) Dibenzofuran	10.128	168	1923447	69.321	ng	98
56) 4-Nitrophenol	10.033	139	286572	82.320	ng	97
57) 2,4-Dinitrotoluene	10.116	165	511625	74.983	ng	96
58) Fluorene	10.475	166	1539044	69.681	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	432612	76.223	ng	99
60) Diethylphthalate	10.345	149	1594332	71.724	ng	99
61) 4-Chlorophenyl-phenyle...	10.463	204	787851	70.776	ng	98
62) 4-Nitroaniline	10.504	138	368601	74.917	ng	99
63) Azobenzene	10.622	77	1629928	70.734	ng	99
65) 4,6-Dinitro-2-methylph...	10.528	198	276945	85.954	ng	97
66) n-Nitrosodiphenylamine	10.586	169	1301106	73.739	ng	99
67) 4-Bromophenyl-phenylether	10.957	248	507294	76.792	ng	98
68) Hexachlorobenzene	11.022	284	580637	77.109	ng	97
69) Atrazine	11.110	200	326635	67.663	ng	98
70) Pentachlorophenol	11.210	266	349278	86.381	ng	98
71) Phenanthrene	11.439	178	2082362	71.126	ng	100
72) Anthracene	11.486	178	2042359	71.142	ng	100
73) Carbazole	11.639	167	1862628	71.007	ng	99
74) Di-n-butylphthalate	11.969	149	2225588	71.676	ng	99
75) Fluoranthene	12.627	202	2135917	69.771	ng	100
77) Benzidine	12.745	184	405592	57.488	ng	100
78) Pyrene	12.857	202	2150940	72.192	ng	100
80) Butylbenzylphthalate	13.469	149	813988	75.871	ng	100
81) Benzo(a)anthracene	14.051	228	1722006	74.360	ng	100
82) 3,3'-Dichlorobenzidine	14.016	252	566018	77.832	ng	99
83) Chrysene	14.092	228	1605865	74.050	ng	99
84) Bis(2-ethylhexyl)phtha...	14.033	149	1119347	74.442	ng	100
85) Di-n-octyl phthalate	14.668	149	1789365	79.062	ng	100
87) Indeno(1,2,3-cd)pyrene	17.080	276	1789661	81.170	ng	100
88) Benzo(b)fluoranthene	15.127	252	1674832	73.716	ng	99
89) Benzo(k)fluoranthene	15.157	252	1553046	74.493	ng	100
90) Benzo(a)pyrene	15.498	252	1448461	77.324	ng	99
91) Dibenzo(a,h)anthracene	17.104	278	1466580	80.849	ng	100
92) Benzo(g,h,i)perylene	17.545	276	1506017	81.386	ng	99

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

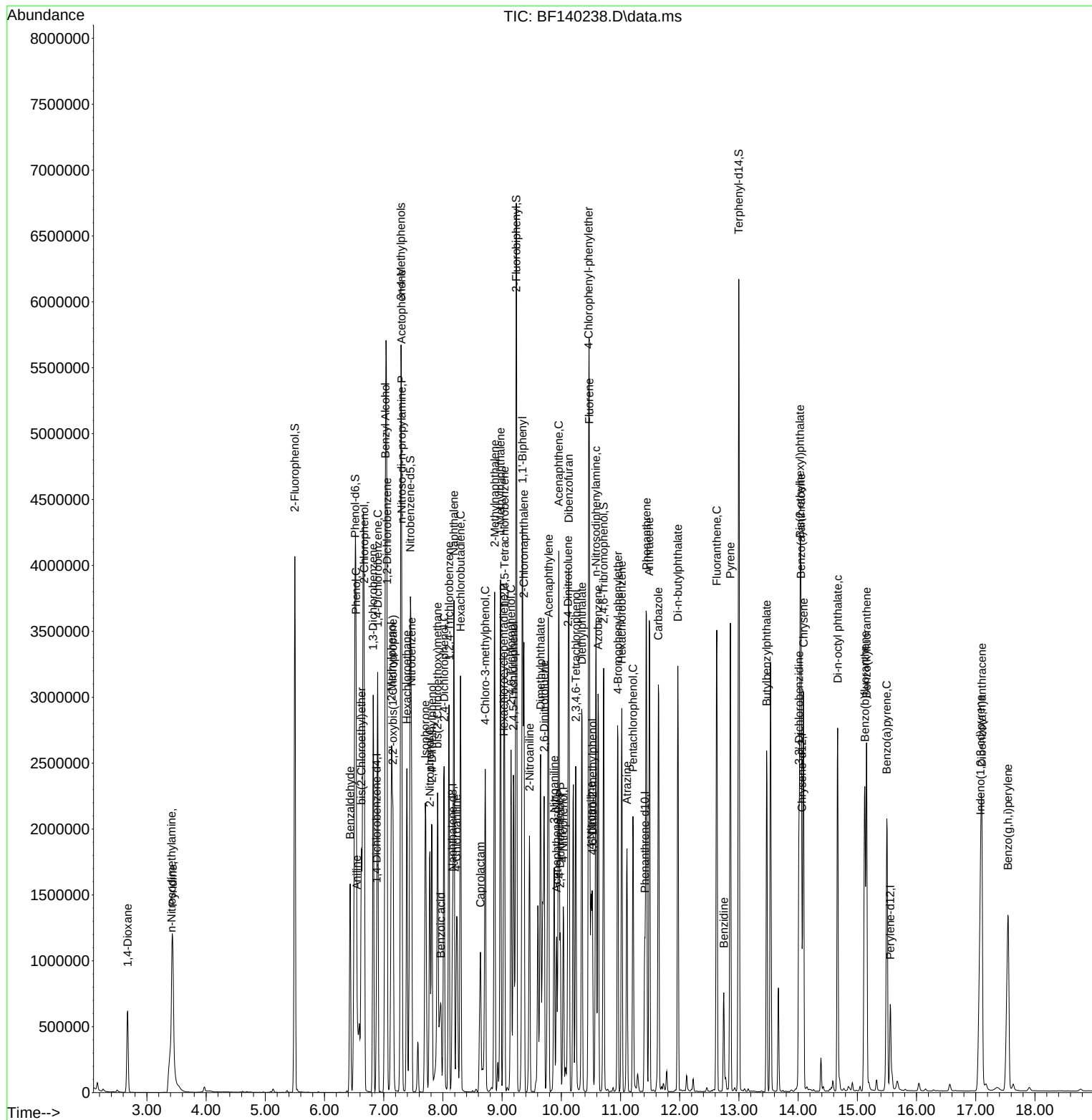
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110524\
Data File : BF140238.D
Acq On : 05 Nov 2024 15:30
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :mohammad ahmed 11/06/2024

Quant Time: Nov 05 16:10:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 15:55:36 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110524\
 Data File : BF140239.D
 Acq On : 05 Nov 2024 16:07
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ICVBF110524

Quant Time: Nov 05 16:49:06 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 16:47:56 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	201048	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	759123	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	435405	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	768315	20.000	ng	0.00
76) Chrysene-d12	14.068	240	458470	20.000	ng	0.00
86) Perylene-d12	15.586	264	426570	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	950662	78.362	ng	0.00
7) Phenol-d6	6.504	99	1208283	77.432	ng	0.00
23) Nitrobenzene-d5	7.445	82	1172862	76.816	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	348804	81.047	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	2039648	74.802	ng	0.00
79) Terphenyl-d14	12.998	244	2159767	77.169	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.663	88	220111	39.464	ng	99
3) Pyridine	3.422	79	536919	39.452	ng	99
4) n-Nitrosodimethylamine	3.387	42	308453	39.257	ng	98
6) Aniline	6.545	93	564115	40.014	ng	99
8) 2-Chlorophenol	6.663	128	491144	38.692	ng	100
9) Benzaldehyde	6.428	77	382393	39.783	ng	99
10) Phenol	6.522	94	645216	38.933	ng	100
11) bis(2-Chloroethyl)ether	6.616	93	495460	39.355	ng	98
12) 1,3-Dichlorobenzene	6.822	146	578364	38.882	ng	99
13) 1,4-Dichlorobenzene	6.898	146	576062	38.398	ng	99
14) 1,2-Dichlorobenzene	7.051	146	535197	38.196	ng	99
15) Benzyl Alcohol	7.016	79	472112	39.247	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	782550	38.401	ng	100
17) 2-Methylphenol	7.128	107	415570	39.246	ng	100
18) Hexachloroethane	7.392	117	220724	39.497	ng	99
19) n-Nitroso-di-n-propyla...	7.292	70	383204	38.494	ng	99
20) 3+4-Methylphenols	7.281	107	520181	39.115	ng	99
22) Acetophenone	7.287	105	709958	37.721	ng	99
24) Nitrobenzene	7.463	77	607962	37.948	ng	98
25) Isophorone	7.698	82	1006205	38.273	ng	100
26) 2-Nitrophenol	7.775	139	257144	40.349	ng	99
27) 2,4-Dimethylphenol	7.810	122	339849	39.198	ng	98
28) bis(2-Chloroethoxy)met...	7.904	93	598024	38.011	ng	99
29) 2,4-Dichlorophenol	8.016	162	420190	39.176	ng	100
30) 1,2,4-Trichlorobenzene	8.098	180	492037	38.282	ng	99
31) Naphthalene	8.181	128	1471734	37.544	ng	100
32) Benzoic acid	7.928	122	309063	43.437	ng	98
33) 4-Chloroaniline	8.228	127	489727	37.948	ng	99
34) Hexachlorobutadiene	8.298	225	335056	38.514	ng	99
35) Caprolactam	8.610	113	128447	39.367	ng	97
36) 4-Chloro-3-methylphenol	8.710	107	469388	39.305	ng	99
37) 2-Methylnaphthalene	8.869	142	966236	37.768	ng	100
38) 1-Methylnaphthalene	8.969	142	951613	37.949	ng	99
40) 1,2,4,5-Tetrachloroben...	9.039	216	496500	38.952	ng	99
41) Hexachlorocyclopentadiene	9.022	237	149082	41.739	ng	100
43) 2,4,6-Trichlorophenol	9.151	196	312622	39.578	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110524\
 Data File : BF140239.D
 Acq On : 05 Nov 2024 16:07
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ICVBF110524

Quant Time: Nov 05 16:49:06 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 16:47:56 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	332641	40.052	ng	98
46) 1,1'-Biphenyl	9.339	154	1191279	37.852	ng	100
47) 2-Chloronaphthalene	9.363	162	899403	37.970	ng	99
48) 2-Nitroaniline	9.457	65	316714	39.981	ng	100
49) Acenaphthylene	9.780	152	1298263	38.713	ng	99
50) Dimethylphthalate	9.645	163	1040659	38.809	ng	100
51) 2,6-Dinitrotoluene	9.704	165	253186	40.169	ng	99
52) Acenaphthene	9.957	154	919653	38.663	ng	99
53) 3-Nitroaniline	9.875	138	238606	40.203	ng	100
54) 2,4-Dinitrophenol	9.980	184	111523	39.421	ng	89
55) Dibenzofuran	10.128	168	1266586	38.079	ng	100
56) 4-Nitrophenol	10.028	139	180092	43.155	ng	98
57) 2,4-Dinitrotoluene	10.110	165	326533	39.922	ng	99
58) Fluorene	10.469	166	999362	37.745	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	274661	40.370	ng	97
60) Diethylphthalate	10.345	149	1041374	39.080	ng	99
61) 4-Chlorophenyl-phenyle...	10.463	204	508846	38.133	ng	98
62) 4-Nitroaniline	10.492	138	238231	40.392	ng	99
63) Azobenzene	10.622	77	1047395	37.917	ng	99
65) 4,6-Dinitro-2-methylph...	10.522	198	168609	41.784	ng	93
66) n-Nitrosodiphenylamine	10.580	169	846277	38.296	ng	100
67) 4-Bromophenyl-phenylether	10.951	248	322387	38.966	ng	99
68) Hexachlorobenzene	11.016	284	369444	39.175	ng	99
69) Atrazine	11.104	200	237217	39.237	ng	98
70) Pentachlorophenol	11.210	266	218133	43.075	ng	98
71) Phenanthrene	11.433	178	1395108	38.048	ng	100
72) Anthracene	11.486	178	1363354	37.919	ng	100
73) Carbazole	11.639	167	1265126	38.509	ng	99
74) Di-n-butylphthalate	11.969	149	1533416	39.432	ng	100
75) Fluoranthene	12.627	202	1470702	38.360	ng	99
77) Benzidine	12.745	184	558339	62.287	ng	99
78) Pyrene	12.857	202	1479380	39.081	ng	99
80) Butylbenzylphthalate	13.474	149	566979	41.595	ng	97
81) Benzo(a)anthracene	14.057	228	1179757	40.097	ng	99
82) 3,3'-Dichlorobenzidine	14.021	252	392180	42.445	ng	98
83) Chrysene	14.098	228	1057688	38.388	ng	99
84) Bis(2-ethylhexyl)phtha...	14.045	149	774375	40.534	ng	100
85) Di-n-octyl phthalate	14.692	149	1203695	41.861	ng	100
87) Indeno(1,2,3-cd)pyrene	17.104	276	1022918	40.852	ng	100
88) Benzo(b)fluoranthene	15.151	252	1006845	39.022	ng	99
89) Benzo(k)fluoranthene	15.180	252	946907	39.994	ng	99
90) Benzo(a)pyrene	15.527	252	854325	40.159	ng	99
91) Dibenzo(a,h)anthracene	17.121	278	839533	40.753	ng	99
92) Benzo(g,h,i)perylene	17.568	276	844908	40.205	ng	99

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

Instrument :
BNA_F
ClientSampleId :
ICVBF110524

Abundance

TIC: BF140239.D\data.ms

Time-->

1,4-Dioxane

n-Nitrosodimethylaniline,

2-Fluorophenol,S

Benzaldehyde

Aniline

bis(2-Chloroethyl)ether

Phenol-d6,S

2-Chlorophenol,

1,4-Dichlorobenzene

2,2'-oxybis[1-(2-Methylphenyl)]ethane

1,2-Dichlorobenzene

Nitrobenzene-d5,S

n-Nitroso-4-methylaminobiphenone

Hexachlorocyclopentadiene

Isophorone

2-Nitrotoluene

2,4-Dichlorophenylmethane

2,4-Dichlorophenylchloride

Hexachlorobutadiene,C

Caprolactam

4-Chloro-3-methylphenol,C

Hexachlorocyclopentadiene

2,4,6-Trichlorophenol,d1

2-Nitroaniline

2-Chloronaphthalene,1,1-Biphenyl

Acenaphthylene

Acenaphthene,C

Dibenzofuran

2,3,4,6-Tetrachlorophthalate

2,4-Dinitrophenol

4,6-Dinitrophenol

Azobenzene

n-Nitrosodiphenylamine,c

n-Nitrosodiphenylamine,S

Acenaphthene

Anthracene

Carbazole

Di-n-butylphthalate

Fluoranthene,C

Pyrene

Terphenyl-d14,S

Butylbenzylphthalate

3,3'-Dichlorobenzidine

Chrysene,d10

Di-n-octyl phthalate,c

Benz(a)anthracene

Perylene-d12,I

Benzo(a)pyrene,C

Indeno(1,2,3-cd)pyrene,anthracene

Benzo(g,h,i)perylene

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110524\
 Data File : BF140239.D
 Acq On : 05 Nov 2024 16:07
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ICVBF110524

Quant Time: Nov 05 16:49:06 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 16:47:56 2024
 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	100	0.00
2	1,4-Dioxane	0.555	0.547	1.4	99	0.00
3	Pyridine	1.354	1.335	1.4	100	0.00
4	n-Nitrosodimethylamine	0.782	0.767	1.9	98	0.00
5 S	2-Fluorophenol	1.207	1.182	2.1	102	0.00
6	Aniline	1.402	1.403	-0.1	103	0.00
7 S	Phenol-d6	1.552	1.502	3.2	100	0.00
8	2-Chlorophenol	1.263	1.221	3.3	101	0.00
9	Benzaldehyde	0.956	0.951	0.5	100	0.00
10 C	Phenol	1.649	1.605	2.7	101	0.00
11	bis(2-Chloroethyl)ether	1.252	1.232	1.6	102	0.00
12	1,3-Dichlorobenzene	1.480	1.438	2.8	102	0.00
13 C	1,4-Dichlorobenzene	1.492	1.433	4.0	101	0.00
14	1,2-Dichlorobenzene	1.394	1.331	4.5	102	0.00
15	Benzyl Alcohol	1.197	1.174	1.9	99	0.00
16	2,2'-oxybis(1-Chloropropane	2.027	1.946	4.0	99	0.00
17	2-Methylphenol	1.053	1.034	1.8	100	0.00
18	Hexachloroethane	0.556	0.549	1.3	103	0.00
19 P	n-Nitroso-di-n-propylamine	0.990	0.953	3.7	100	0.00
20	3+4-Methylphenols	1.323	1.294	2.2	101	0.00
21 I	Naphthalene-d8	1.000	1.000	0.0	103	0.00
22	Acetophenone	0.496	0.468	5.6	101	0.00
23 S	Nitrobenzene-d5	0.402	0.386	4.0	101	0.00
24	Nitrobenzene	0.422	0.400	5.2	99	0.00
25	Isophorone	0.693	0.663	4.3	101	0.00
26 C	2-Nitrophenol	0.168	0.169	-0.6	102	0.00
27	2,4-Dimethylphenol	0.228	0.224	1.8	103	0.00
28	bis(2-Chloroethoxy)methane	0.415	0.394	5.1	101	0.00
29 C	2,4-Dichlorophenol	0.283	0.277	2.1	102	0.00
30	1,2,4-Trichlorobenzene	0.339	0.324	4.4	102	0.00
31	Naphthalene	1.033	0.969	6.2	100	0.00
32	Benzoic acid	0.187	0.204	-9.1	108	0.00
33	4-Chloroaniline	0.340	0.323	5.0	100	0.00
34 C	Hexachlorobutadiene	0.229	0.221	3.5	102	0.00
35	Caprolactam	0.086	0.085	1.2	102	0.00
36 C	4-Chloro-3-methylphenol	0.315	0.309	1.9	102	0.00
37	2-Methylnaphthalene	0.674	0.636	5.6	101	0.00
38	1-Methylnaphthalene	0.661	0.627	5.1	102	0.00
39 I	Acenaphthene-d10	1.000	1.000	0.0	103	0.00
40	1,2,4,5-Tetrachlorobenzene	0.586	0.570	2.7	104	0.00
41 P	Hexachlorocyclopentadiene	0.164	0.171	-4.3	96	0.00
42 S	2,4,6-Tribromophenol	0.198	0.200	-1.0	106	0.00
43 C	2,4,6-Trichlorophenol	0.363	0.359	1.1	102	0.00
44	2,4,5-Trichlorophenol	0.381	0.382	-0.3	105	0.00
45 S	2-Fluorobiphenyl	1.253	1.171	6.5	102	0.00
46	1,1'-Biphenyl	1.446	1.368	5.4	102	0.00
47	2-Chloronaphthalene	1.088	1.033	5.1	101	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110524\
 Data File : BF140239.D
 Acq On : 05 Nov 2024 16:07
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ICVBF110524

Quant Time: Nov 05 16:49:06 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 16:47:56 2024
 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	0.364	0.364	0.0	101	0.00
49	Acenaphthylene	1.540	1.491	3.2	103	0.00
50	Dimethylphthalate	1.232	1.195	3.0	103	0.00
51	2,6-Dinitrotoluene	0.290	0.291	-0.3	104	0.00
52 C	Acenaphthene	1.093	1.056	3.4	102	0.00
53	3-Nitroaniline	0.273	0.274	-0.4	105	0.00
54 P	2,4-Dinitrophenol	0.120	0.128	-6.7	102	0.00
55	Dibenzofuran	1.528	1.454	4.8	102	0.00
56 P	4-Nitrophenol	0.192	0.207	-7.8	104	0.00
57	2,4-Dinitrotoluene	0.376	0.375	0.3	103	0.00
58	Fluorene	1.216	1.148	5.6	102	0.00
59	2,3,4,6-Tetrachlorophenol	0.313	0.315	-0.6	106	0.00
60	Diethylphthalate	1.224	1.196	2.3	103	0.00
61	4-Chlorophenyl-phenylether	0.613	0.584	4.7	103	0.00
62	4-Nitroaniline	0.271	0.274	-1.1	104	0.00
63	Azobenzene	1.269	1.203	5.2	101	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	104	0.00
65	4,6-Dinitro-2-methylphenol	0.105	0.110	-4.8	104	0.00
66 c	n-Nitrosodiphenylamine	0.575	0.551	4.2	104	0.00
67	4-Bromophenyl-phenylether	0.215	0.210	2.3	104	0.00
68	Hexachlorobenzene	0.245	0.240	2.0	105	0.00
69	Atrazine	0.157	0.154	1.9	102	0.00
70 C	Pentachlorophenol	0.132	0.142	-7.6	106	0.00
71	Phenanthrene	0.954	0.908	4.8	103	0.00
72	Anthracene	0.936	0.887	5.2	103	0.00
73	Carbazole	0.855	0.823	3.7	104	0.00
74	Di-n-butylphthalate	1.012	0.998	1.4	106	0.00
75 C	Fluoranthene	0.998	0.957	4.1	104	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	102	0.00
77	Benzidine	0.391	0.609	-55.8#	127	0.00
78	Pyrene	1.651	1.613	2.3	104	0.00
79 S	Terphenyl-d14	1.221	1.178	3.5	104	0.00
80	Butylbenzylphthalate	0.595	0.618	-3.9	106	0.00
81	Benzo(a)anthracene	1.284	1.287	-0.2	107	0.00
82	3,3'-Dichlorobenzidine	0.403	0.428	-6.2	105	0.01
83	Chrysene	1.202	1.153	4.1	102	0.01
84	Bis(2-ethylhexyl)phthalate	0.833	0.845	-1.4	105	0.01
85 c	Di-n-octyl phthalate	1.254	1.313	-4.7	106	0.02
86 I	Perylene-d12	1.000	1.000	0.0	100	0.02
87	Indeno(1,2,3-cd)pyrene	1.174	1.199	-2.1	101	0.02
88	Benzo(b)fluoranthene	1.210	1.180	2.5	95	0.02
89	Benzo(k)fluoranthene	1.110	1.110	0.0	109	0.02
90 C	Benzo(a)pyrene	0.997	1.001	-0.4	101	0.02
91	Dibenzo(a,h)anthracene	0.966	0.984	-1.9	101	0.02
92	Benzo(g,h,i)perylene	0.985	0.990	-0.5	100	0.03

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110524\
Data File : BF140239.D
Acq On : 05 Nov 2024 16:07
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF110524

Quant Time: Nov 05 16:49:06 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 16:47:56 2024
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_F\Data\BF110524\
 Data File : BF140239.D
 Acq On : 05 Nov 2024 16:07
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ICVBF110524

Quant Time: Nov 05 16:49:06 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 16:47:56 2024
 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	100	0.00
2	1,4-Dioxane	40.000	39.464	1.3	99	0.00
3	Pyridine	40.000	39.452	1.4	100	0.00
4	n-Nitrosodimethylamine	40.000	39.257	1.9	98	0.00
5 S	2-Fluorophenol	80.000	78.362	2.0	102	0.00
6	Aniline	40.000	40.014	-0.0	103	0.00
7 S	Phenol-d6	80.000	77.432	3.2	100	0.00
8	2-Chlorophenol	40.000	38.692	3.3	101	0.00
9	Benzaldehyde	40.000	39.783	0.5	100	0.00
10 C	Phenol	40.000	38.933	2.7	101	0.00
11	bis(2-Chloroethyl)ether	40.000	39.355	1.6	102	0.00
12	1,3-Dichlorobenzene	40.000	38.882	2.8	102	0.00
13 C	1,4-Dichlorobenzene	40.000	38.398	4.0	101	0.00
14	1,2-Dichlorobenzene	40.000	38.196	4.5	102	0.00
15	Benzyl Alcohol	40.000	39.247	1.9	99	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	38.401	4.0	99	0.00
17	2-Methylphenol	40.000	39.246	1.9	100	0.00
18	Hexachloroethane	40.000	39.497	1.3	103	0.00
19 P	n-Nitroso-di-n-propylamine	40.000	38.494	3.8	100	0.00
20	3+4-Methylphenols	40.000	39.115	2.2	101	0.00
21 I	Naphthalene-d8	20.000	20.000	0.0	103	0.00
22	Acetophenone	40.000	37.721	5.7	101	0.00
23 S	Nitrobenzene-d5	80.000	76.816	4.0	101	0.00
24	Nitrobenzene	40.000	37.948	5.1	99	0.00
25	Isophorone	40.000	38.273	4.3	101	0.00
26 C	2-Nitrophenol	40.000	40.349	-0.9	102	0.00
27	2,4-Dimethylphenol	40.000	39.198	2.0	103	0.00
28	bis(2-Chloroethoxy)methane	40.000	38.011	5.0	101	0.00
29 C	2,4-Dichlorophenol	40.000	39.176	2.1	102	0.00
30	1,2,4-Trichlorobenzene	40.000	38.282	4.3	102	0.00
31	Naphthalene	40.000	37.544	6.1	100	0.00
32	Benzoic acid	40.000	43.437	-8.6	108	0.00
33	4-Chloroaniline	40.000	37.948	5.1	100	0.00
34 C	Hexachlorobutadiene	40.000	38.514	3.7	102	0.00
35	Caprolactam	40.000	39.367	1.6	102	0.00
36 C	4-Chloro-3-methylphenol	40.000	39.305	1.7	102	0.00
37	2-Methylnaphthalene	40.000	37.768	5.6	101	0.00
38	1-Methylnaphthalene	40.000	37.949	5.1	102	0.00
39 I	Acenaphthene-d10	20.000	20.000	0.0	103	0.00
40	1,2,4,5-Tetrachlorobenzene	40.000	38.952	2.6	104	0.00
41 P	Hexachlorocyclopentadiene	40.000	41.739	-4.3	96	0.00
42 S	2,4,6-Tribromophenol	80.000	81.047	-1.3	106	0.00
43 C	2,4,6-Trichlorophenol	40.000	39.578	1.1	102	0.00
44	2,4,5-Trichlorophenol	40.000	40.052	-0.1	105	0.00
45 S	2-Fluorobiphenyl	80.000	74.802	6.5	102	0.00
46	1,1'-Biphenyl	40.000	37.852	5.4	102	0.00
47	2-Chloronaphthalene	40.000	37.970	5.1	101	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110524\
 Data File : BF140239.D
 Acq On : 05 Nov 2024 16:07
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ICVBF110524

Quant Time: Nov 05 16:49:06 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 16:47:56 2024
 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	39.981	0.0	101	0.00
49	Acenaphthylene	40.000	38.713	3.2	103	0.00
50	Dimethylphthalate	40.000	38.809	3.0	103	0.00
51	2,6-Dinitrotoluene	40.000	40.169	-0.4	104	0.00
52 C	Acenaphthene	40.000	38.663	3.3	102	0.00
53	3-Nitroaniline	40.000	40.203	-0.5	105	0.00
54 P	2,4-Dinitrophenol	40.000	39.421	1.4	102	0.00
55	Dibenzofuran	40.000	38.079	4.8	102	0.00
56 P	4-Nitrophenol	40.000	43.155	-7.9	104	0.00
57	2,4-Dinitrotoluene	40.000	39.922	0.2	103	0.00
58	Fluorene	40.000	37.745	5.6	102	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	40.370	-0.9	106	0.00
60	Diethylphthalate	40.000	39.080	2.3	103	0.00
61	4-Chlorophenyl-phenylether	40.000	38.133	4.7	103	0.00
62	4-Nitroaniline	40.000	40.392	-1.0	104	0.00
63	Azobenzene	40.000	37.917	5.2	101	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	104	0.00
65	4,6-Dinitro-2-methylphenol	40.000	41.784	-4.5	104	0.00
66 c	n-Nitrosodiphenylamine	40.000	38.296	4.3	104	0.00
67	4-Bromophenyl-phenylether	40.000	38.966	2.6	104	0.00
68	Hexachlorobenzene	40.000	39.175	2.1	105	0.00
69	Atrazine	40.000	39.237	1.9	102	0.00
70 C	Pentachlorophenol	40.000	43.075	-7.7	106	0.00
71	Phenanthrene	40.000	38.048	4.9	103	0.00
72	Anthracene	40.000	37.919	5.2	103	0.00
73	Carbazole	40.000	38.509	3.7	104	0.00
74	Di-n-butylphthalate	40.000	39.432	1.4	106	0.00
75 C	Fluoranthene	40.000	38.360	4.1	104	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	102	0.00
77	Benzydine	40.000	62.287	-55.7#	127	0.00
78	Pyrene	40.000	39.081	2.3	104	0.00
79 S	Terphenyl-d14	80.000	77.169	3.5	104	0.00
80	Butylbenzylphthalate	40.000	41.595	-4.0	106	0.00
81	Benzo(a)anthracene	40.000	40.097	-0.2	107	0.00
82	3,3'-Dichlorobenzidine	40.000	42.445	-6.1	105	0.01
83	Chrysene	40.000	38.388	4.0	102	0.01
84	Bis(2-ethylhexyl)phthalate	40.000	40.534	-1.3	105	0.01
85 c	Di-n-octyl phthalate	40.000	41.861	-4.7	106	0.02
86 I	Perylene-d12	20.000	20.000	0.0	100	0.02
87	Indeno(1,2,3-cd)pyrene	40.000	40.852	-2.1	101	0.02
88	Benzo(b)fluoranthene	40.000	39.022	2.4	95	0.02
89	Benzo(k)fluoranthene	40.000	39.994	0.0	109	0.02
90 C	Benzo(a)pyrene	40.000	40.159	-0.4	101	0.02
91	Dibenzo(a,h)anthracene	40.000	40.753	-1.9	101	0.02
92	Benzo(g,h,i)perylene	40.000	40.205	-0.5	100	0.03

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110524\
Data File : BF140239.D
Acq On : 05 Nov 2024 16:07
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF110524

Quant Time: Nov 05 16:49:06 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 16:47:56 2024
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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718
 Instrument ID: BNA_F Calibration Date(s): 11/13/2024 11/13/2024
 Calibration Time(s): 09:01 12:48

LAB FILE ID:		RRF2.5 = BF140332.D			RRF005 = BF140333.D		RRF010 = BF140334.D	
		RRF020 = BF140335.D			RRF050 = BF140337.D		RRF060 = BF140338.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF050	RRF060	RRF	% RSD
2-Fluorophenol		1.329	1.257	1.223	1.090	1.118	1.171	8.8
Benzaldehyde		1.101	1.087	1.017	0.828	0.783	0.951	14.3
Phenol-d6		1.773	1.691	1.643	1.483	1.507	1.587	8.1
Phenol		1.799	1.793	1.743	1.582	1.597	1.674	7.3
bis(2-Chloroethyl) ether		1.359	1.294	1.306	1.227	1.249	1.268	4.6
2-Chlorophenol		1.397	1.349	1.332	1.176	1.184	1.258	8.5
2-Methylphenol		1.092	1.062	1.072	0.998	1.016	1.035	5.1
2,2-oxybis(1-Chloropropane)		1.906	1.826	1.815	1.666	1.684	1.752	7.0
Acetophenone		0.532	0.508	0.481	0.434	0.441	0.465	9.4
3+4-Methylphenols		1.436	1.427	1.359	1.200	1.198	1.295	10.2
n-Nitroso-di-n-propylamine	1.032	1.029	1.003	0.986	0.883	0.905	0.959	7.3
Nitrobenzene-d5		0.411	0.401	0.399	0.368	0.379	0.384	5.3
Hexachloroethane		0.562	0.543	0.550	0.500	0.506	0.520	6.3
Nitrobenzene		0.423	0.421	0.406	0.390	0.394	0.400	4.6
Isophorone		0.736	0.702	0.692	0.654	0.671	0.680	4.9
2-Nitrophenol		0.175	0.179	0.181	0.175	0.181	0.177	2.0
2,4-Dimethylphenol		0.238	0.236	0.232	0.221	0.227	0.227	3.9
bis(2-Chloroethoxy) methane		0.461	0.442	0.430	0.398	0.404	0.417	6.8
2,4-Dichlorophenol		0.307	0.296	0.287	0.272	0.272	0.281	6.2
Naphthalene		1.160	1.105	1.064	0.950	0.955	1.015	9.6
4-Chloroaniline		0.390	0.386	0.370	0.333	0.340	0.353	8.4
Hexachlorobutadiene		0.220	0.214	0.210	0.188	0.190	0.199	7.7
Caprolactam		0.098	0.093	0.094	0.091	0.095	0.093	3.3
4-Chloro-3-methylphenol		0.331	0.327	0.320	0.299	0.304	0.311	5.1
2-Methylnaphthalene		0.751	0.706	0.683	0.610	0.607	0.651	10.0
Hexachlorocyclopentadiene			0.111	0.143	0.156	0.159	0.142	12.0
2,4,6-Trichlorophenol		0.380	0.374	0.374	0.360	0.352	0.363	3.9
2-Fluorobiphenyl		1.524	1.396	1.351	1.125	1.110	1.244	14.5
2,4,5-Trichlorophenol		0.421	0.417	0.412	0.387	0.390	0.397	5.4
1,1-Biphenyl		1.690	1.571	1.565	1.368	1.343	1.455	10.8
2-Chloronaphthalene		1.279	1.182	1.149	1.064	1.049	1.108	9.2
2-Nitroaniline		0.378	0.365	0.384	0.365	0.366	0.368	2.9
Dimethylphthalate		1.464	1.358	1.371	1.246	1.244	1.304	7.5
Acenaphthylene		1.940	1.802	1.786	1.582	1.552	1.677	10.3

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718
 Instrument ID: BNA_F Calibration Date(s): 11/13/2024 11/13/2024
 Calibration Time(s): 09:01 12:48

LAB FILE ID:		RRF2.5 = BF140332.D			RRF005 = BF140333.D		RRF010 = BF140334.D	
		RRF020 = BF140335.D			RRF050 = BF140337.D		RRF060 = BF140338.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF050	RRF060	RRF	% RSD
2,6-Dinitrotoluene		0.317	0.303	0.313	0.291	0.289	0.297	5.6
3-Nitroaniline		0.333	0.327	0.335	0.307	0.298	0.312	6.9
Acenaphthene		1.259	1.204	1.192	1.091	1.079	1.133	7.8
2,4-Dinitrophenol			0.109	0.148	0.178	0.170	0.153	16.3
4-Nitrophenol		0.199	0.217	0.239	0.240	0.237	0.228	6.7
Dibenzofuran		1.904	1.736	1.715	1.502	1.466	1.603	11.9
2,4-Dinitrotoluene		0.414	0.400	0.417	0.387	0.382	0.391	5.8
Diethylphthalate		1.525	1.417	1.398	1.272	1.246	1.333	8.8
4-Chlorophenyl-phenylether		0.739	0.688	0.669	0.583	0.567	0.625	12.0
Fluorene		1.525	1.403	1.365	1.168	1.137	1.267	13.1
4-Nitroaniline		0.335	0.325	0.328	0.316	0.313	0.319	3.9
4,6-Dinitro-2-methylphenol		0.080	0.098	0.113	0.117	0.120	0.108	13.0
n-Nitrosodiphenylamine		0.651	0.630	0.600	0.541	0.541	0.578	8.6
2,4,6-Tribromophenol		0.220	0.211	0.207	0.191	0.189	0.199	6.9
4-Bromophenyl-phenylether		0.227	0.210	0.209	0.191	0.188	0.200	8.1
Hexachlorobenzene		0.251	0.242	0.232	0.209	0.215	0.225	7.5
Atrazine		0.191	0.183	0.135	0.155	0.205	0.175	17.0
Pentachlorophenol		0.097	0.108	0.124	0.131	0.130	0.121	10.9
Phenanthrene		1.096	1.053	0.986	0.868	0.851	0.940	11.3
Anthracene		1.071	1.018	0.966	0.860	0.839	0.921	10.8
Carbazole		1.053	1.009	0.963	0.846	0.834	0.909	11.0
Di-n-butylphthalate		1.214	1.177	1.150	1.036	1.023	1.091	8.4
Fluoranthene		1.256	1.201	1.141	0.962	0.933	1.054	13.9
Pyrene		1.748	1.706	1.643	1.728	1.800	1.711	3.1
Terphenyl-d14		1.226	1.185	1.108	1.139	1.190	1.152	4.3
Butylbenzylphthalate		0.640	0.638	0.654	0.670	0.681	0.657	3.6
3,3-Dichlorobenzidine		0.438	0.431	0.433	0.406	0.416	0.418	3.8
Benzo (a) anthracene		1.451	1.418	1.351	1.229	1.294	1.314	7.3
Chrysene		1.394	1.241	1.235	1.137	1.123	1.199	8.4
Bis (2-ethylhexyl) phthalate		0.886	0.890	0.897	0.858	0.869	0.877	4.1
Di-n-octyl phthalate		1.231	1.217	1.270	1.187	1.241	1.235	2.9
Benzo (b) fluoranthene		1.405	1.352	1.471	1.235	1.233	1.308	7.8
Benzo (k) fluoranthene		1.286	1.241	1.120	0.952	0.935	1.069	14.5
Benzo (a) pyrene		1.100	1.053	1.054	0.970	0.980	1.016	5.4
Indeno (1,2,3-cd) pyrene		1.116	1.150	1.138	1.316	1.354	1.235	8.0

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718
 Instrument ID: BNA_F Calibration Date(s): 11/13/2024 11/13/2024
 Calibration Time(s): 09:01 12:48

LAB FILE ID:		RRF2.5 = BF140332.D		RRF005 = BF140333.D		RRF010 = BF140334.D		
		RRF020 = BF140335.D		RRF050 = BF140337.D		RRF060 = BF140338.D		
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF050	RRF060	RRF	% RSD
Dibenzo (a,h) anthracene		0.941	0.952	0.944	1.074	1.121	1.021	7.3
Benzo (g,h,i) perylene		0.941	0.963	0.954	1.122	1.146	1.044	8.5
1,2,4,5-Tetrachlorobenzene		0.646	0.585	0.583	0.524	0.517	0.553	9.8
1,4-Dioxane		0.582	0.546	0.530	0.495	0.506	0.522	6.5
2,3,4,6-Tetrachlorophenol		0.322	0.328	0.326	0.308	0.302	0.313	4.6

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-BF111324.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Nov 13 14:40:06 2024
 Response Via : Initial Calibration

Calibration Files

2.5 =BF140332.D 5 =BF140333.D 10 =BF140334.D 20 =BF140335.D 40 =BF140340.D 50 =BF140337.D 60 =BF140338.D 80 =BF140339.D

Compound		2.5	5	10	20	40	50	60	80	Avg	%RSD

1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.582	0.546	0.530	0.515	0.495	0.506	0.480	0.522	6.53	
3)	Pyridine	1.430	1.343	1.323	1.316	1.189	1.237	1.147	1.283	7.61	
4)	n-Nitrosodimet...	0.658	0.632	0.651	0.659	0.644	0.671	0.627	0.649	2.39	
5) S	2-Fluorophenol	1.329	1.257	1.223	1.150	1.090	1.118	1.032	1.171	8.84	
6)	Aniline	1.587	1.527	1.495	1.451	1.267	1.270	1.066	1.381	13.42	
7) S	Phenol-d6	1.773	1.691	1.643	1.605	1.483	1.507	1.407	1.587	8.09	
8)	2-Chlorophenol	1.397	1.349	1.332	1.263	1.176	1.184	1.106	1.258	8.49	
9)	Benzaldehyde	1.101	1.087	1.017	0.891	0.828	0.783	0.951	14.32		
10) C	Phenol	1.799	1.793	1.743	1.724	1.582	1.597	1.478	1.674	7.31	
11)	bis(2-Chloroet...	1.359	1.294	1.306	1.263	1.227	1.249	1.179	1.268	4.60	
12)	1,3-Dichlorobe...	1.585	1.475	1.454	1.374	1.291	1.317	1.221	1.388	8.98	
13) C	1,4-Dichlorobe...	1.590	1.534	1.486	1.391	1.306	1.326	1.221	1.408	9.49	
14)	1,2-Dichlorobe...	1.494	1.429	1.398	1.294	1.212	1.214	1.108	1.307	10.63	
15)	Benzyl Alcohol	1.172	1.193	1.199	1.211	1.100	1.108	1.020	1.143	6.10	
16)	2,2'-oxybis(1-...	1.906	1.826	1.815	1.816	1.666	1.684	1.549	1.752	7.01	
17)	2-Methylphenol	1.092	1.062	1.072	1.064	0.998	1.016	0.942	1.035	5.07	
18)	Hexachloroethane	0.562	0.543	0.550	0.514	0.500	0.506	0.468	0.520	6.30	
19) P	n-Nitroso-di-n...	1.032	1.029	1.003	0.986	0.982	0.883	0.905	0.848	0.959	7.30
20)	3+4-Methylphenols	1.436	1.427	1.359	1.351	1.200	1.198	1.091	1.294	10.21	
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.532	0.508	0.481	0.450	0.434	0.441	0.411	0.465	9.35	
23) S	Nitrobenzene-d5	0.411	0.401	0.399	0.375	0.368	0.379	0.354	0.384	5.28	
24)	Nitrobenzene	0.423	0.421	0.406	0.393	0.390	0.394	0.371	0.400	4.61	
25)	Isophorone	0.736	0.702	0.692	0.674	0.654	0.671	0.634	0.680	4.87	
26) C	2-Nitrophenol	0.175	0.179	0.181	0.179	0.175	0.181	0.171	0.177	1.99	
27)	2,4-Dimethylph...	0.238	0.236	0.232	0.223	0.221	0.227	0.214	0.227	3.86	
28)	bis(2-Chloroet...	0.461	0.442	0.430	0.407	0.398	0.404	0.379	0.417	6.80	
29) C	2,4-Dichloroph...	0.307	0.296	0.287	0.275	0.272	0.272	0.255	0.281	6.20	
30)	1,2,4-Trichlor...	0.346	0.331	0.325	0.302	0.298	0.301	0.283	0.312	7.15	
31)	Naphthalene	1.160	1.105	1.064	0.982	0.950	0.955	0.886	1.015	9.60	
32)	Benzoic acid	0.162	0.178	0.180	0.212	0.215	0.226	0.226	0.200	13.01	
33)	4-Chloroaniline	0.390	0.386	0.370	0.340	0.333	0.340	0.311	0.353	8.36	
34) C	Hexachlorobuta...	0.220	0.214	0.210	0.193	0.188	0.190	0.178	0.199	7.73	
35)	Caprolactam	0.098	0.093	0.094	0.092	0.091	0.095	0.089	0.093	3.27	
36) C	4-Chloro-3-met...	0.331	0.327	0.320	0.309	0.299	0.304	0.287	0.311	5.14	
37)	2-Methylnaphth...	0.751	0.706	0.683	0.632	0.610	0.607	0.565	0.651	10.01	
38)	1-Methylnaphth...	0.734	0.696	0.673	0.625	0.589	0.592	0.550	0.637	10.39	

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF111324.M

39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.646	0.585	0.583	0.531	0.524	0.517	0.485	0.553	9.85	
41) P	Hexachlorocycl...	0.111	0.143	0.139	0.156	0.159	0.145	0.142	12.04		
42) S	2,4,6-Tribromo...	0.220	0.211	0.207	0.193	0.191	0.189	0.182	0.199	6.88	
43) C	2,4,6-Trichlor...	0.380	0.374	0.374	0.360	0.360	0.352	0.341	0.363	3.87	
44)	2,4,5-Trichlor...	0.421	0.417	0.412	0.389	0.387	0.390	0.361	0.397	5.41	
45) S	2-Fluorobiphenyl	1.524	1.396	1.351	1.172	1.125	1.110	1.031	1.244	14.50	
46)	1,1'-Biphenyl	1.690	1.571	1.565	1.404	1.368	1.343	1.244	1.455	10.80	
47)	2-Chloronaphth...	1.279	1.182	1.149	1.065	1.064	1.049	0.971	1.108	9.20	
48)	2-Nitroaniline	0.378	0.365	0.384	0.364	0.365	0.366	0.351	0.368	2.91	
49)	Acenaphthylene	1.940	1.802	1.786	1.636	1.582	1.552	1.441	1.677	10.29	
50)	Dimethylphthalate	1.464	1.358	1.371	1.261	1.246	1.244	1.181	1.304	7.47	
51)	2,6-Dinitrotol...	0.317	0.303	0.313	0.297	0.291	0.289	0.268	0.297	5.57	
52) C	Acenaphthene	1.259	1.204	1.192	1.096	1.091	1.079	1.006	1.133	7.78	
53)	3-Nitroaniline	0.333	0.327	0.335	0.310	0.307	0.298	0.275	0.312	6.92	
54) P	2,4-Dinitrophenol	0.109	0.148	0.147	0.178	0.170	0.168	0.153	16.27		
55)	Dibenzofuran	1.904	1.736	1.715	1.558	1.502	1.466	1.344	1.603	11.92	
56) P	4-Nitrophenol	0.199	0.217	0.239	0.236	0.240	0.237	0.225	0.228	6.67	
57)	2,4-Dinitrotol...	0.414	0.400	0.417	0.387	0.387	0.382	0.351	0.391	5.77	
58)	Fluorene	1.525	1.403	1.365	1.202	1.168	1.137	1.066	1.267	13.14	
59)	2,3,4,6-Tetrac...	0.322	0.328	0.326	0.318	0.308	0.302	0.288	0.313	4.61	
60)	Diethylphthalate	1.525	1.417	1.398	1.287	1.272	1.246	1.185	1.333	8.85	
61)	4-Chlorophenyl...	0.739	0.688	0.669	0.604	0.583	0.567	0.528	0.625	12.01	
62)	4-Nitroaniline	0.335	0.325	0.328	0.319	0.316	0.313	0.297	0.319	3.86	
63)	Azobenzene	1.498	1.391	1.380	1.293	1.251	1.244	1.163	1.317	8.55	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...	0.080	0.098	0.113	0.109	0.117	0.120	0.116	0.108	13.00	
66) c	n-Nitrosodiphe...	0.651	0.630	0.600	0.559	0.541	0.541	0.522	0.578	8.57	
67)	4-Bromophenyl-...	0.227	0.210	0.209	0.194	0.191	0.188	0.180	0.200	8.14	
68)	Hexachlorobenzene	0.251	0.242	0.232	0.218	0.209	0.215	0.208	0.225	7.54	
69)	Atrazine	0.191	0.183	0.135	0.145	0.155	0.205	0.209	0.175	17.03	
70) C	Pentachlorophenol	0.097	0.108	0.124	0.127	0.131	0.130	0.130	0.121	10.87	
71)	Phenanthrene	1.096	1.053	0.986	0.903	0.868	0.851	0.820	0.940	11.33	
72)	Anthracene	1.071	1.018	0.966	0.889	0.860	0.839	0.803	0.921	10.81	
73)	Carbazole	1.053	1.009	0.963	0.876	0.846	0.834	0.783	0.909	11.02	
74)	Di-n-butylphth...	1.214	1.177	1.150	1.074	1.036	1.023	0.964	1.091	8.37	
75) C	Fluoranthene	1.256	1.201	1.141	1.018	0.962	0.933	0.867	1.054	13.92	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.634	0.684	0.653	0.742	0.953	0.939	0.768	18.64		
78)	Pyrene	1.748	1.706	1.643	1.679	1.728	1.800	1.672	1.711	3.08	
79) S	Terphenyl-d14	1.226	1.185	1.108	1.123	1.139	1.190	1.093	1.152	4.26	
80)	Butylbenzylphth...	0.640	0.638	0.654	0.690	0.670	0.681	0.628	0.657	3.56	
81)	Benzo(a)anthra...	1.451	1.418	1.351	1.263	1.229	1.294	1.195	1.314	7.31	
82)	3,3'-Dichlorob...	0.438	0.431	0.433	0.402	0.406	0.416	0.399	0.418	3.79	
83)	Chrysene	1.394	1.241	1.235	1.168	1.137	1.123	1.099	1.199	8.44	
84)	Bis(2-ethylhex...	0.886	0.890	0.897	0.927	0.858	0.869	0.813	0.877	4.07	
85) c	Di-n-octyl pht...	1.231	1.217	1.270	1.290	1.187	1.241	1.212	1.235	2.86	

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111324.M

86) I	Perylene-d12	-----ISTD-----									
87)	Indeno(1,2,3-c...	1.116	1.150	1.138	1.258	1.316	1.354	1.317	1.235	8.02	
88)	Benzo(b)fluora...	1.405	1.352	1.471	1.263	1.235	1.233	1.199	1.308	7.82	
89)	Benzo(k)fluora...	1.286	1.241	1.120	1.060	0.952	0.935	0.888	1.069	14.47	
90) C	Benzo(a)pyrene	1.100	1.053	1.054	1.005	0.970	0.980	0.948	1.016	5.40	
91)	Dibenzo(a,h)an...	0.941	0.952	0.944	1.039	1.074	1.121	1.077	1.021	7.30	
92)	Benzo(g,h,i)pe...	0.941	0.963	0.954	1.063	1.122	1.146	1.120	1.044	8.55	

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140332.D
Acq On : 13 Nov 2024 09:01
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Nov 13 14:21:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

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

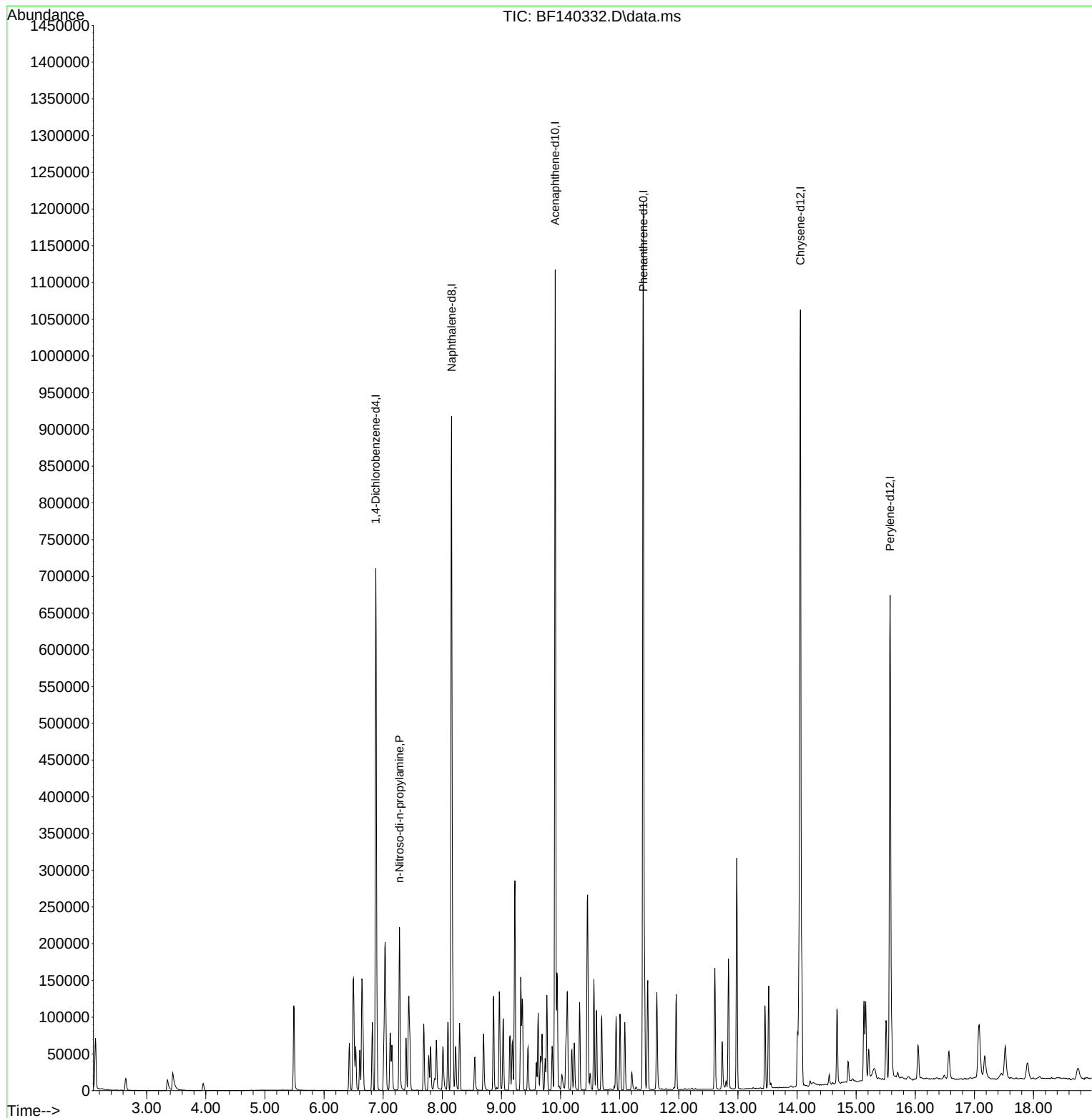
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	147206	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	569357	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	324094	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	631650	20.000	ng	0.00
76) Chrysene-d12	14.057	240	473843	20.000	ng	0.00
86) Perylene-d12	15.574	264	387360	20.000	ng	0.02
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						Qvalue
19) n-Nitroso-di-n-propyla...	7.275	70	18995	2.692	ng	97

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140332.D
Acq On : 13 Nov 2024 09:01
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Nov 13 14:21:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140333.D
 Acq On : 13 Nov 2024 09:27
 Operator : RC/JU
 Sample : SSTDICC005
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

Manual Integrations

APPROVED

Reviewed By :Yogesh

Patel

11/14/2024

Supervised By :mohammad

ahmed

11/14/2024

Quant Time: Nov 13 14:22:24 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 13:11:08 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	147440	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	561082	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	317345	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	615904	20.000	ng	0.00
76) Chrysene-d12	14.051	240	462864	20.000	ng	0.00
86) Perylene-d12	15.563	264	372118	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	98004	11.349	ng	0.00
7) Phenol-d6	6.493	99	130723	11.173	ng	-0.01
23) Nitrobenzene-d5	7.434	82	115292	10.706	ng	0.00
42) 2,4,6-Tribromophenol	10.698	330	34890	11.056	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	241751	12.246	ng	0.00
79) Terphenyl-d14	12.980	244	283824	10.644	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.640	88	21442	5.571	ng	95
3) Pyridine	3.422	79	52697	5.569	ng	98
4) n-Nitrosodimethylamine	3.346	42	24263	5.074	ng	# 97
6) Aniline	6.534	93	58498	5.748	ng	98
8) 2-Chlorophenol	6.657	128	51502	5.552	ng	99
9) Benzaldehyde	6.428	77	40600	5.790	ng	100
10) Phenol	6.504	94	66303	5.374	ng	99
11) bis(2-Chloroethyl)ether	6.604	93	50099	5.359	ng	97
12) 1,3-Dichlorobenzene	6.816	146	58435	5.709	ng	99
13) 1,4-Dichlorobenzene	6.893	146	58594	5.646	ng	99
14) 1,2-Dichlorobenzene	7.046	146	55054	5.714	ng	100
15) Benzyl Alcohol	7.010	79	43212	5.126	ng	97
16) 2,2'-oxybis(1-Chloropr...	7.146	45	70257	5.441	ng	100
17) 2-Methylphenol	7.116	107	40243	5.274	ng	97
18) Hexachloroethane	7.387	117	20701	5.396	ng	97
19) n-Nitroso-di-n-propyla...	7.275	70	37919	5.366	ng	97
20) 3+4-Methylphenols	7.275	107	52942	5.548	ng	# 82
22) Acetophenone	7.281	105	74642	5.720	ng	95
24) Nitrobenzene	7.451	77	59394	5.297	ng	99
25) Isophorone	7.687	82	103224	5.409	ng	99
26) 2-Nitrophenol	7.769	139	24576	4.939	ng	99
27) 2,4-Dimethylphenol	7.804	122	33358	5.237	ng	97
28) bis(2-Chloroethoxy)met...	7.898	93	64672	5.526	ng	100
29) 2,4-Dichlorophenol	8.010	162	43077	5.472	ng	98
30) 1,2,4-Trichlorobenzene	8.098	180	48599	5.545	ng	99
31) Naphthalene	8.175	128	162710	5.717	ng	99
32) Benzoic acid	7.869	122	22671m	4.051	ng	
33) 4-Chloroaniline	8.222	127	54728	5.529	ng	99
34) Hexachlorobutadiene	8.293	225	30821	5.519	ng	99
35) Caprolactam	8.551	113	13807	5.217	ng	98
36) 4-Chloro-3-methylphenol	8.698	107	46450	5.324	ng	97
37) 2-Methylnaphthalene	8.869	142	105353	5.773	ng	97
38) 1-Methylnaphthalene	8.963	142	102975	5.762	ng	100
40) 1,2,4,5-Tetrachloroben...	9.034	216	51260	5.841	ng	98
43) 2,4,6-Trichlorophenol	9.145	196	30173	5.239	ng	98
44) 2,4,5-Trichlorophenol	9.181	196	33434	5.310	ng	96

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140333.D
 Acq On : 13 Nov 2024 09:27
 Operator : RC/JU
 Sample : SSTDICC005
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Yogesh
 Patel
 11/14/2024

Supervised By :mohammad
 ahmed
 11/14/2024

Quant Time: Nov 13 14:22:24 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 13:11:08 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) 1,1'-Biphenyl	9.328	154	134098	5.808	ng	98
47) 2-Chloronaphthalene	9.351	162	101447	5.768	ng	100
48) 2-Nitroaniline	9.451	65	29995	5.143	ng	100
49) Acenaphthylene	9.769	152	153886	5.783	ng	99
50) Dimethylphthalate	9.622	163	116132	5.614	ng	99
51) 2,6-Dinitrotoluene	9.687	165	25188	5.341	ng	98
52) Acenaphthene	9.939	154	99899	5.559	ng	98
53) 3-Nitroaniline	9.857	138	26407	5.332	ng	94
55) Dibenzofuran	10.116	168	151058	5.937	ng	97
56) 4-Nitrophenol	10.016	139	15801	4.374	ng	98
57) 2,4-Dinitrotoluene	10.092	165	32877	5.297	ng	98
58) Fluorene	10.457	166	121014	6.021	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.234	232	25576	5.149	ng	99
60) Diethylphthalate	10.322	149	120988	5.720	ng	99
61) 4-Chlorophenyl-phenyle...	10.451	204	58593	5.905	ng	97
62) 4-Nitroaniline	10.463	138	26578	5.249	ng	96
63) Azobenzene	10.610	77	118816	5.685	ng	99
65) 4,6-Dinitro-2-methylph...	10.504	198	12385	3.738	ng	96
66) n-Nitrosodiphenylamine	10.563	169	100287	5.636	ng	99
67) 4-Bromophenyl-phenylether	10.939	248	34999	5.685	ng	96
68) Hexachlorobenzene	11.004	284	38627	5.576	ng	98
69) Atrazine	11.086	200	29460	5.472	ng	97
70) Pentachlorophenol	11.204	266	14987	4.016	ng	97
71) Phenanthrene	11.422	178	168742	5.832	ng	99
72) Anthracene	11.475	178	164923	5.816	ng	98
73) Carbazole	11.628	167	162080	5.789	ng	99
74) Di-n-butylphthalate	11.957	149	186931	5.563	ng	100
75) Fluoranthene	12.610	202	193346	5.956	ng	99
78) Pyrene	12.839	202	202260	5.109	ng	99
80) Butylbenzylphthalate	13.457	149	74075	4.870	ng	96
81) Benzo(a)anthracene	14.039	228	167855	5.518	ng	98
82) 3,3'-Dichlorobenzidine	14.004	252	50636	5.237	ng	98
83) Chrysene	14.074	228	161255	5.810	ng	98
84) Bis(2-ethylhexyl)phtha...	14.027	149	102534	5.051	ng	99
85) Di-n-octyl phthalate	14.663	149	142493	4.984	ng	100
87) Indeno(1,2,3-cd)pyrene	17.057	276	103830	4.517	ng	98
88) Benzo(b)fluoranthene	15.121	252	130731	5.371	ng	99
89) Benzo(k)fluoranthene	15.145	252	119602	6.014	ng	99
90) Benzo(a)pyrene	15.492	252	102364	5.415	ng	99
91) Dibenzo(a,h)anthracene	17.068	278	87528	4.607	ng	99
92) Benzo(g,h,i)perylene	17.504	276	87547	4.507	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140333.D
Acq On : 13 Nov 2024 09:27
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

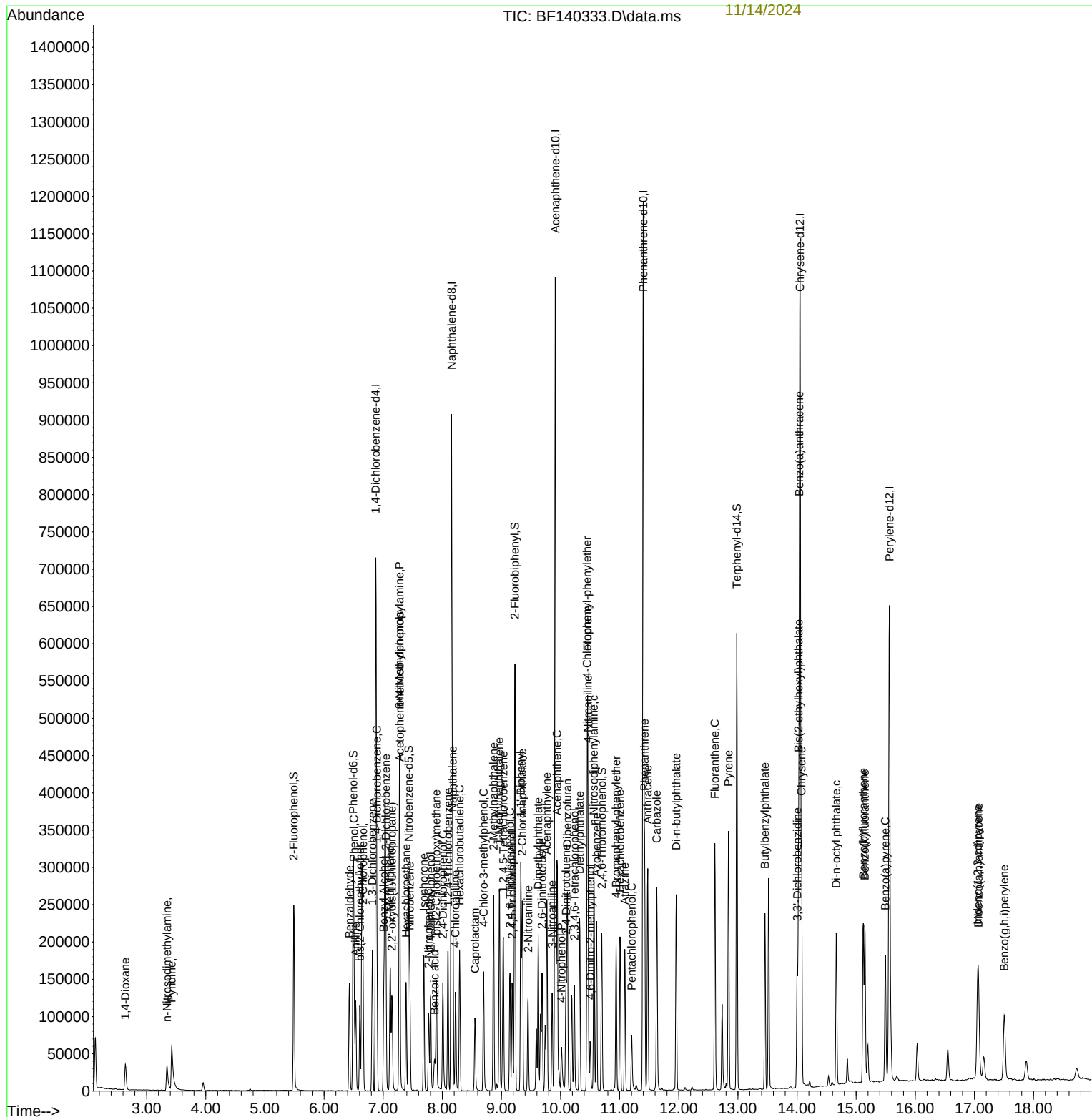
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh
Patel
11/14/2024

Supervised By :mohammad
ahmed
11/14/2024

Quant Time: Nov 13 14:22:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140334.D
 Acq On : 13 Nov 2024 09:53
 Operator : RC/JU
 Sample : SSTDICC010
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC010

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/14/2024
 Supervised By :mohammad ahmed 11/14/2024

Quant Time: Nov 13 14:23:21 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 13:11:08 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	151757	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	576727	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	332343	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	625922	20.000	ng	0.00
76) Chrysene-d12	14.051	240	456049	20.000	ng	0.00
86) Perylene-d12	15.562	264	358045	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	190834	21.470	ng	0.00
7) Phenol-d6	6.492	99	256677	21.315	ng	-0.01
23) Nitrobenzene-d5	7.434	82	231031	20.872	ng	0.00
42) 2,4,6-Tribromophenol	10.698	330	70040	21.193	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	463950	22.441	ng	0.00
79) Terphenyl-d14	12.980	244	540367	20.567	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.640	88	41430	10.458	ng	98
3) Pyridine	3.416	79	101886	10.462	ng	100
4) n-Nitrosodimethylamine	3.346	42	47921	9.736	ng	96
6) Aniline	6.534	93	115851	11.059	ng	99
8) 2-Chlorophenol	6.657	128	102376	10.723	ng	100
9) Benzaldehyde	6.428	77	82498	11.431	ng	99
10) Phenol	6.510	94	136055	10.713	ng	96
11) bis(2-Chloroethyl)ether	6.604	93	98194	10.205	ng	97
12) 1,3-Dichlorobenzene	6.816	146	111939	10.626	ng	99
13) 1,4-Dichlorobenzene	6.892	146	116395	10.897	ng	99
14) 1,2-Dichlorobenzene	7.045	146	108453	10.937	ng	98
15) Benzyl Alcohol	7.010	79	90500	10.431	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	138565	10.425	ng	99
17) 2-Methylphenol	7.122	107	80567	10.258	ng	99
18) Hexachloroethane	7.387	117	41189	10.431	ng	97
19) n-Nitroso-di-n-propyla...	7.275	70	76077	10.460	ng	96
20) 3+4-Methylphenols	7.275	107	108265	11.022	ng	# 89
22) Acetophenone	7.281	105	146536	10.925	ng	97
24) Nitrobenzene	7.451	77	121397	10.534	ng	99
25) Isophorone	7.686	82	202309	10.313	ng	98
26) 2-Nitrophenol	7.769	139	51547	10.079	ng	97
27) 2,4-Dimethylphenol	7.804	122	68066	10.396	ng	100
28) bis(2-Chloroethoxy)met...	7.898	93	127440	10.594	ng	99
29) 2,4-Dichlorophenol	8.010	162	85290	10.540	ng	98
30) 1,2,4-Trichlorobenzene	8.098	180	95485	10.599	ng	99
31) Naphthalene	8.181	128	318527	10.887	ng	99
32) Benzoic acid	7.875	122	51387m	8.934	ng	
33) 4-Chloroaniline	8.222	127	111264	10.936	ng	99
34) Hexachlorobutadiene	8.292	225	61596	10.731	ng	99
35) Caprolactam	8.563	113	26940	9.902	ng	97
36) 4-Chloro-3-methylphenol	8.698	107	94282	10.514	ng	99
37) 2-Methylnaphthalene	8.869	142	203533	10.850	ng	99
38) 1-Methylnaphthalene	8.969	142	200722	10.926	ng	99
40) 1,2,4,5-Tetrachloroben...	9.033	216	97174	10.573	ng	98
41) Hexachlorocyclopentadiene	9.022	237	18405	7.800	ng	98
43) 2,4,6-Trichlorophenol	9.145	196	62134	10.302	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140334.D
 Acq On : 13 Nov 2024 09:53
 Operator : RC/JU
 Sample : SSTDICC010
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDICC010

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024

Quant Time: Nov 13 14:23:21 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Nov 13 13:11:08 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.181	196	69370	10.520	ng	98
46) 1,1'-Biphenyl	9.328	154	261030	10.796	ng	99
47) 2-Chloronaphthalene	9.357	162	196370	10.662	ng	99
48) 2-Nitroaniline	9.451	65	60634	9.927	ng	99
49) Acenaphthylene	9.769	152	299521	10.749	ng	100
50) Dimethylphthalate	9.628	163	225705	10.419	ng	99
51) 2,6-Dinitrotoluene	9.692	165	50400	10.206	ng	97
52) Acenaphthene	9.945	154	200055	10.629	ng	99
53) 3-Nitroaniline	9.857	138	54319	10.473	ng	99
54) 2,4-Dinitrophenol	9.969	184	18126	7.117	ng	98
55) Dibenzofuran	10.116	168	288411	10.825	ng	98
56) 4-Nitrophenol	10.016	139	36056	9.531	ng	98
57) 2,4-Dinitrotoluene	10.092	165	66496	10.231	ng	98
58) Fluorene	10.457	166	233209	11.080	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.233	232	54566m	10.489	ng	
60) Diethylphthalate	10.328	149	235508	10.632	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	114328	11.002	ng	98
62) 4-Nitroaniline	10.469	138	54026	10.188	ng	98
63) Azobenzene	10.610	77	231165	10.562	ng	99
65) 4,6-Dinitro-2-methylph...	10.504	198	30629	9.095	ng	97
66) n-Nitrosodiphenylamine	10.563	169	197047	10.896	ng	99
67) 4-Bromophenyl-phenylether	10.939	248	65844	10.524	ng	98
68) Hexachlorobenzene	11.010	284	75713	10.755	ng	95
69) Atrazine	11.092	200	57244	10.462	ng	99
70) Pentachlorophenol	11.204	266	33884	8.935	ng	98
71) Phenanthrene	11.422	178	329580	11.209	ng	99
72) Anthracene	11.475	178	318560	11.055	ng	98
73) Carbazole	11.627	167	315859	11.101	ng	99
74) Di-n-butylphthalate	11.957	149	368412	10.788	ng	99
75) Fluoranthene	12.610	202	375846	11.394	ng	99
77) Benzidine	12.733	184	144597	8.261	ng	99
78) Pyrene	12.839	202	388982	9.972	ng	98
80) Butylbenzylphthalate	13.457	149	145394	9.702	ng	98
81) Benzo(a)anthracene	14.039	228	323440	10.791	ng	99
82) 3,3'-Dichlorobenzidine	14.004	252	98211	10.309	ng	99
83) Chrysene	14.080	228	282868	10.343	ng	99
84) Bis(2-ethylhexyl)phtha...	14.027	149	202970	10.147	ng	99
85) Di-n-octyl phthalate	14.668	149	277399	9.847	ng	100
87) Indeno(1,2,3-cd)pyrene	17.062	276	205803	9.305	ng	99
88) Benzo(b)fluoranthene	15.127	252	241957	10.331	ng	99
89) Benzo(k)fluoranthene	15.151	252	222087	11.607	ng	99
90) Benzo(a)pyrene	15.498	252	188533	10.366	ng	98
91) Dibenzo(a,h)anthracene	17.080	278	170496	9.326	ng	100
92) Benzo(g,h,i)perylene	17.515	276	172345	9.221	ng	100

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

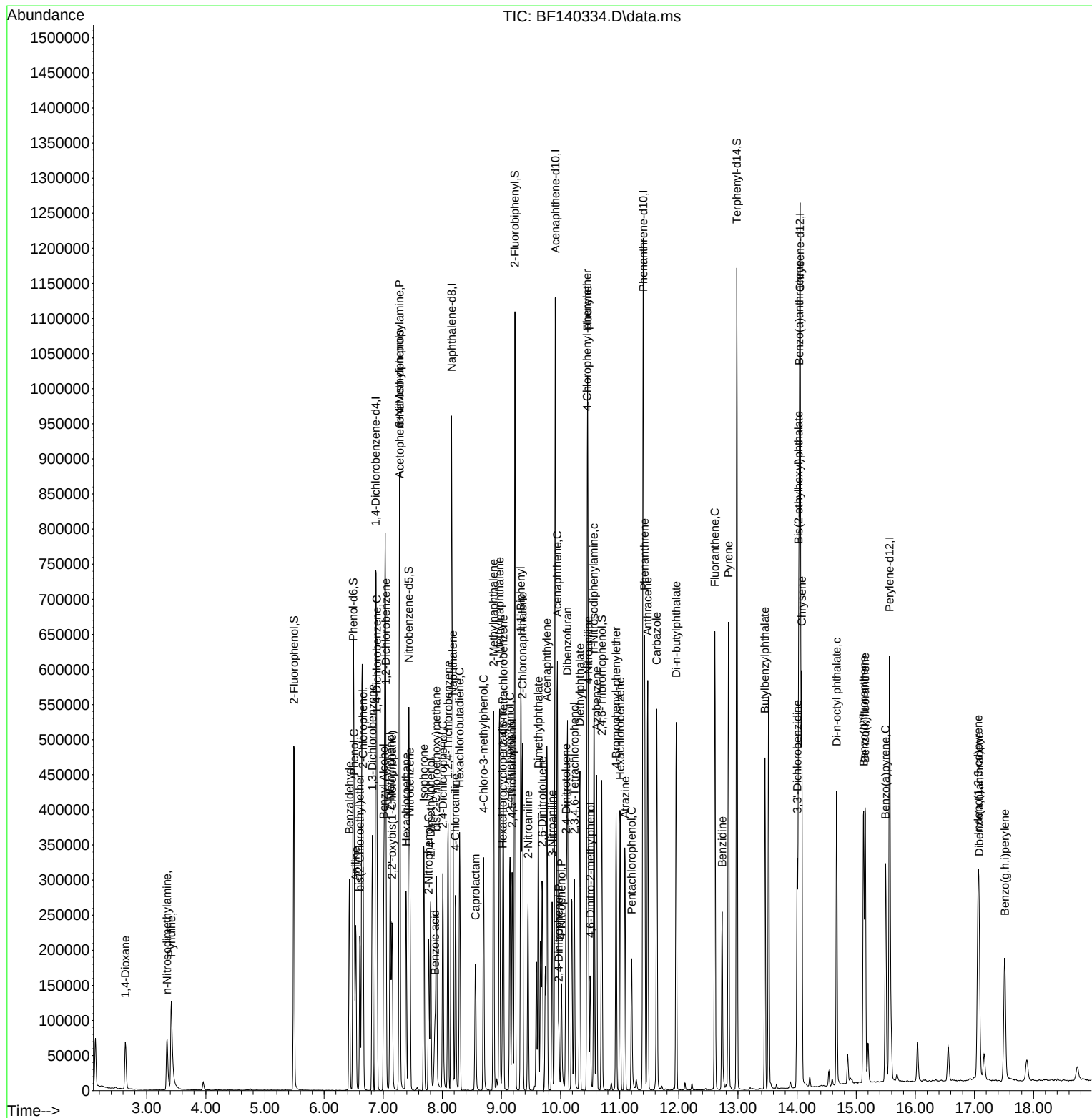
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140334.D
 Acq On : 13 Nov 2024 09:53
 Operator : RC/JU
 Sample : SSTDICC010
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC010

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/14/2024
 Supervised By :mohammad ahmed 11/14/2024

Quant Time: Nov 13 14:23:21 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 13:11:08 2024
 Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140335.D
 Acq On : 13 Nov 2024 10:29
 Operator : RC/JU
 Sample : SSTDICC020
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC020

Quant Time: Nov 13 14:24:16 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 13:11:08 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	149945	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	574759	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	321015	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	615627	20.000	ng	0.00
76) Chrysene-d12	14.068	240	437725	20.000	ng	0.02
86) Perylene-d12	15.592	264	335998	20.000	ng	0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	366621	41.746	ng	0.00
7) Phenol-d6	6.498	99	492662	41.406	ng	0.00
23) Nitrobenzene-d5	7.434	82	458389	41.554	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	132693	41.567	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	867449	43.439	ng	0.00
79) Terphenyl-d14	12.986	244	969963	38.464	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.634	88	79493	20.309	ng	99
3) Pyridine	3.399	79	198352	20.613	ng	98
4) n-Nitrosodimethylamine	3.340	42	97556	20.059	ng	100
6) Aniline	6.540	93	224200	21.661	ng	96
8) 2-Chlorophenol	6.657	128	199701	21.169	ng	100
9) Benzaldehyde	6.428	77	152483	21.383	ng	99
10) Phenol	6.510	94	261330	20.827	ng	98
11) bis(2-Chloroethyl)ether	6.610	93	195860	20.601	ng	100
12) 1,3-Dichlorobenzene	6.816	146	218012	20.945	ng	99
13) 1,4-Dichlorobenzene	6.892	146	222816	21.112	ng	100
14) 1,2-Dichlorobenzene	7.045	146	209619	21.394	ng	99
15) Benzyl Alcohol	7.010	79	179832	20.978	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.145	45	272081	20.718	ng	99
17) 2-Methylphenol	7.122	107	160794	20.720	ng	99
18) Hexachloroethane	7.387	117	82445	21.130	ng	97
19) n-Nitroso-di-n-propyla...	7.281	70	147880	20.578	ng	99
20) 3+4-Methylphenols	7.275	107	203732	20.992	ng	97
22) Acetophenone	7.281	105	276331	20.672	ng	98
24) Nitrobenzene	7.457	77	233182	20.302	ng	99
25) Isophorone	7.692	82	397520	20.333	ng	100
26) 2-Nitrophenol	7.769	139	104117	20.428	ng	97
27) 2,4-Dimethylphenol	7.804	122	133218	20.416	ng	99
28) bis(2-Chloroethoxy)met...	7.904	93	246864	20.593	ng	100
29) 2,4-Dichlorophenol	8.010	162	165159	20.480	ng	99
30) 1,2,4-Trichlorobenzene	8.098	180	187022	20.831	ng	98
31) Naphthalene	8.181	128	611395	20.969	ng	100
32) Benzoic acid	7.898	122	103495	18.055	ng	98
33) 4-Chloroaniline	8.222	127	212489	20.956	ng	99
34) Hexachlorobutadiene	8.292	225	120624	21.087	ng	100
35) Caprolactam	8.575	113	54033	19.929	ng	100
36) 4-Chloro-3-methylphenol	8.698	107	183923	20.581	ng	99
37) 2-Methylnaphthalene	8.869	142	392634	21.001	ng	100
38) 1-Methylnaphthalene	8.969	142	386754	21.125	ng	98
40) 1,2,4,5-Tetrachloroben...	9.034	216	187279	21.097	ng	99
41) Hexachlorocyclopentadiene	9.022	237	45811	20.099	ng	98
43) 2,4,6-Trichlorophenol	9.145	196	120063	20.609	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140335.D
 Acq On : 13 Nov 2024 10:29
 Operator : RC/JU
 Sample : SSTDICC020
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC020

Quant Time: Nov 13 14:24:16 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 13:11:08 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	132413	20.789	ng	98
46) 1,1'-Biphenyl	9.333	154	502252	21.506	ng	99
47) 2-Chloronaphthalene	9.357	162	368985	20.741	ng	99
48) 2-Nitroaniline	9.451	65	123220	20.885	ng	98
49) Acenaphthylene	9.775	152	573335	21.301	ng	99
50) Dimethylphthalate	9.628	163	440050	21.031	ng	100
51) 2,6-Dinitrotoluene	9.692	165	100599	21.089	ng	99
52) Acenaphthene	9.945	154	382783	21.056	ng	100
53) 3-Nitroaniline	9.863	138	107540	21.467	ng	99
54) 2,4-Dinitrophenol	9.969	184	47413	19.274	ng	96
55) Dibenzofuran	10.116	168	550502	21.391	ng	99
56) 4-Nitrophenol	10.016	139	76711	20.993	ng	99
57) 2,4-Dinitrotoluene	10.098	165	133852	21.321	ng	96
58) Fluorene	10.463	166	438095	21.548	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.233	232	104638	20.824	ng	98
60) Diethylphthalate	10.328	149	448855	20.979	ng	99
61) 4-Chlorophenyl-phenyle...	10.451	204	214868	21.407	ng	100
62) 4-Nitroaniline	10.475	138	105392	20.576	ng	99
63) Azobenzene	10.610	77	443044	20.957	ng	99
65) 4,6-Dinitro-2-methylph...	10.504	198	69851	21.089	ng	99
66) n-Nitrosodiphenylamine	10.569	169	369633	20.780	ng	99
67) 4-Bromophenyl-phenylether	10.945	248	128501	20.881	ng	97
68) Hexachlorobenzene	11.010	284	143099	20.667	ng	98
69) Atrazine	11.092	200	83124	15.446	ng	98
70) Pentachlorophenol	11.204	266	76218	20.435	ng	99
71) Phenanthrene	11.422	178	606738	20.980	ng	100
72) Anthracene	11.475	178	594950	20.991	ng	99
73) Carbazole	11.627	167	592904	21.186	ng	100
74) Di-n-butylphthalate	11.957	149	707973	21.077	ng	100
75) Fluoranthene	12.616	202	702671	21.657	ng	99
77) Benzidine	12.733	184	299422	17.823	ng	100
78) Pyrene	12.845	202	719319	19.212	ng	99
80) Butylbenzylphthalate	13.463	149	286162	19.895	ng	98
81) Benzo(a)anthracene	14.051	228	591480	20.560	ng	99
82) 3,3'-Dichlorobenzidine	14.016	252	189466	20.720	ng	99
83) Chrysene	14.092	228	540430	20.589	ng	99
84) Bis(2-ethylhexyl)phtha...	14.039	149	392830	20.462	ng	99
85) Di-n-octyl phthalate	14.692	149	556097	20.567	ng	99
87) Indeno(1,2,3-cd)pyrene	17.092	276	382218	18.415	ng	99
88) Benzo(b)fluoranthene	15.151	252	494335	22.491	ng	99
89) Benzo(k)fluoranthene	15.180	252	376428	20.964	ng	99
90) Benzo(a)pyrene	15.527	252	354286	20.757	ng	99
91) Dibenzo(a,h)anthracene	17.109	278	317133	18.485	ng	99
92) Benzo(g,h,i)perylene	17.545	276	320648	18.281	ng	99

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

[illegible]

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140337.D
 Acq On : 13 Nov 2024 11:21
 Operator : RC/JU
 Sample : SSTDICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC050

Quant Time: Nov 13 14:26:04 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 13:11:08 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	173750	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	645813	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	355715	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	673585	20.000	ng	0.00
76) Chrysene-d12	14.057	240	373903	20.000	ng	0.00
86) Perylene-d12	15.563	264	343764	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	946604	93.020	ng	0.00
7) Phenol-d6	6.510	99	1288691	93.469	ng	0.00
23) Nitrobenzene-d5	7.445	82	1188653	95.898	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	339834	96.071	ng	0.00
45) 2-Fluorobiphenyl	9.234	172	2000974	90.428	ng	0.00
79) Terphenyl-d14	12.992	244	2129859	98.876	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.646	88	215224	47.452	ng	99
3) Pyridine	3.410	79	516550	46.326	ng	99
4) n-Nitrosodimethylamine	3.375	42	279565	49.608	ng	97
6) Aniline	6.545	93	550294	45.882	ng	99
8) 2-Chlorophenol	6.669	128	510922	46.739	ng	98
9) Benzaldehyde	6.434	77	359475	43.503	ng	99
10) Phenol	6.528	94	687077	47.255	ng	95
11) bis(2-Chloroethyl)ether	6.616	93	533018	48.382	ng	98
12) 1,3-Dichlorobenzene	6.822	146	560974	46.511	ng	98
13) 1,4-Dichlorobenzene	6.898	146	567404	46.396	ng	99
14) 1,2-Dichlorobenzene	7.051	146	526417	46.367	ng	99
15) Benzyl Alcohol	7.022	79	477924	48.113	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	723520	47.546	ng	98
17) 2-Methylphenol	7.128	107	433403	48.196	ng	99
18) Hexachloroethane	7.392	117	217240	48.050	ng	99
19) n-Nitroso-di-n-propyla...	7.298	70	383726	46.082	ng	99
20) 3+4-Methylphenols	7.287	107	521407	46.364	ng	92
22) Acetophenone	7.292	105	700174	46.615	ng	98
24) Nitrobenzene	7.463	77	629010	48.740	ng	99
25) Isophorone	7.698	82	1056536	48.095	ng	100
26) 2-Nitrophenol	7.775	139	282885	49.397	ng	96
27) 2,4-Dimethylphenol	7.810	122	356541	48.629	ng	98
28) bis(2-Chloroethoxy)met...	7.910	93	642458	47.695	ng	100
29) 2,4-Dichlorophenol	8.016	162	439530	48.507	ng	98
30) 1,2,4-Trichlorobenzene	8.098	180	481552	47.735	ng	99
31) Naphthalene	8.181	128	1534595	46.842	ng	99
32) Benzoic acid	7.945	122	347409	53.939	ng	98
33) 4-Chloroaniline	8.234	127	538110	47.230	ng	99
34) Hexachlorobutadiene	8.298	225	304280	47.340	ng	98
35) Caprolactam	8.610	113	147323	48.359	ng	99
36) 4-Chloro-3-methylphenol	8.710	107	482944	48.095	ng	99
37) 2-Methylnaphthalene	8.869	142	985640	46.920	ng	100
38) 1-Methylnaphthalene	8.969	142	951332	46.247	ng	100
40) 1,2,4,5-Tetrachloroben...	9.039	216	466149	47.389	ng	99
41) Hexachlorocyclopentadiene	9.022	237	138691	54.914	ng	100
43) 2,4,6-Trichlorophenol	9.145	196	320277	49.613	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140337.D
 Acq On : 13 Nov 2024 11:21
 Operator : RC/JU
 Sample : SSTDICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC050

Quant Time: Nov 13 14:26:04 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 13:11:08 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	344237	48.773	ng	98
46) 1,1'-Biphenyl	9.334	154	1216913	47.025	ng	99
47) 2-Chloronaphthalene	9.363	162	945855	47.981	ng	99
48) 2-Nitroaniline	9.457	65	324847	49.689	ng	98
49) Acenaphthylene	9.781	152	1406468	47.156	ng	100
50) Dimethylphthalate	9.639	163	1108191	47.796	ng	100
51) 2,6-Dinitrotoluene	9.704	165	258909	48.982	ng	99
52) Acenaphthene	9.951	154	970618	48.182	ng	99
53) 3-Nitroaniline	9.869	138	272892	49.160	ng	98
54) 2,4-Dinitrophenol	9.975	184	158026	57.974	ng	97
55) Dibenzofuran	10.122	168	1335552	46.833	ng	100
56) 4-Nitrophenol	10.028	139	213518	52.733	ng	99
57) 2,4-Dinitrotoluene	10.104	165	343847	49.427	ng	97
58) Fluorene	10.463	166	1038836	46.112	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	274144	49.236	ng	99
60) Diethylphthalate	10.333	149	1130922	47.701	ng	99
61) 4-Chlorophenyl-phenyle...	10.457	204	518480	46.617	ng	98
62) 4-Nitroaniline	10.486	138	280913	49.492	ng	99
63) Azobenzene	10.616	77	1112412	47.487	ng	99
65) 4,6-Dinitro-2-methylph...	10.516	198	197492	54.495	ng	99
66) n-Nitrosodiphenylamine	10.575	169	910897	46.803	ng	100
67) 4-Bromophenyl-phenylether	10.945	248	321760	47.787	ng	99
68) Hexachlorobenzene	11.016	284	351412	46.386	ng	98
69) Atrazine	11.098	200	261515	44.413	ng	99
70) Pentachlorophenol	11.204	266	220904	54.132	ng	99
71) Phenanthrene	11.428	178	1461484	46.188	ng	100
72) Anthracene	11.480	178	1447653	46.682	ng	100
73) Carbazole	11.633	167	1425182	46.543	ng	100
74) Di-n-butylphthalate	11.963	149	1745220	47.487	ng	100
75) Fluoranthene	12.616	202	1620115	45.637	ng	99
77) Benzidine	12.739	184	693785	48.345	ng	99
78) Pyrene	12.851	202	1615345	50.507	ng	99
80) Butylbenzylphthalate	13.463	149	626234	50.971	ng	97
81) Benzo(a)anthracene	14.045	228	1148657	46.743	ng	100
82) 3,3'-Dichlorobenzidine	14.004	252	379732	48.617	ng	99
83) Chrysene	14.086	228	1062734	47.398	ng	100
84) Bis(2-ethylhexyl)phtha...	14.027	149	801820	48.894	ng	100
85) Di-n-octyl phthalate	14.668	149	1109314	48.030	ng	99
87) Indeno(1,2,3-cd)pyrene	17.074	276	1130711	53.247	ng	100
88) Benzo(b)fluoranthene	15.127	252	1061367	47.198	ng	100
89) Benzo(k)fluoranthene	15.157	252	818554	44.558	ng	99
90) Benzo(a)pyrene	15.504	252	833765	47.745	ng	99
91) Dibenzo(a,h)anthracene	17.092	278	923159	52.593	ng	99
92) Benzo(g,h,i)perylene	17.533	276	963891	53.714	ng	99

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

[illegible]

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140338.D
 Acq On : 13 Nov 2024 11:47
 Operator : RC/JU
 Sample : SSTDICC060
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC060

Quant Time: Nov 13 14:26:57 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 13:11:08 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	169226	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	626974	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	349852	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	653888	20.000	ng	0.00
76) Chrysene-d12	14.057	240	336717	20.000	ng	0.00
86) Perylene-d12	15.568	264	334279	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	1135551	114.570	ng	0.00
7) Phenol-d6	6.516	99	1529819	113.924	ng	0.01
23) Nitrobenzene-d5	7.445	82	1426102	118.512	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	397743	114.327	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	2330064	107.065	ng	0.00
79) Terphenyl-d14	12.992	244	2404917	123.975	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.646	88	257092	58.199	ng	99
3) Pyridine	3.416	79	627905	57.818	ng	100
4) n-Nitrosodimethylamine	3.387	42	340452	62.027	ng	97
6) Aniline	6.545	93	644899	55.207	ng	# 84
8) 2-Chlorophenol	6.669	128	601333	56.481	ng	99
9) Benzaldehyde	6.434	77	397310	49.367	ng	99
10) Phenol	6.528	94	810917	57.263	ng	94
11) bis(2-Chloroethyl)ether	6.622	93	633964	59.083	ng	98
12) 1,3-Dichlorobenzene	6.822	146	668862	56.939	ng	99
13) 1,4-Dichlorobenzene	6.898	146	673261	56.523	ng	99
14) 1,2-Dichlorobenzene	7.051	146	616097	55.716	ng	98
15) Benzyl Alcohol	7.022	79	562583	58.150	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	855004	57.688	ng	93
17) 2-Methylphenol	7.134	107	515819	58.895	ng	98
18) Hexachloroethane	7.392	117	256957	58.354	ng	98
19) n-Nitroso-di-n-propyla...	7.298	70	459430	56.648	ng	99
20) 3+4-Methylphenols	7.286	107	608092	55.518	ng	99
22) Acetophenone	7.292	105	829586	56.891	ng	# 98
24) Nitrobenzene	7.469	77	740612	59.113	ng	99
25) Isophorone	7.704	82	1261423	59.147	ng	100
26) 2-Nitrophenol	7.781	139	339960	61.146	ng	99
27) 2,4-Dimethylphenol	7.810	122	426510	59.920	ng	98
28) bis(2-Chloroethoxy)met...	7.910	93	760029	58.119	ng	99
29) 2,4-Dichlorophenol	8.022	162	511715	58.170	ng	99
30) 1,2,4-Trichlorobenzene	8.104	180	566322	57.824	ng	100
31) Naphthalene	8.186	128	1796725	56.491	ng	99
32) Benzoic acid	7.957	122	425502	68.049	ng	97
33) 4-Chloroaniline	8.239	127	639243	57.793	ng	100
34) Hexachlorobutadiene	8.298	225	358172	57.398	ng	100
35) Caprolactam	8.622	113	178777	60.447	ng	95
36) 4-Chloro-3-methylphenol	8.716	107	571401	58.614	ng	100
37) 2-Methylnaphthalene	8.875	142	1141963	55.995	ng	100
38) 1-Methylnaphthalene	8.975	142	1113216	55.742	ng	100
40) 1,2,4,5-Tetrachloroben...	9.039	216	542595	56.085	ng	100
41) Hexachlorocyclopentadiene	9.022	237	166455	67.012	ng	99
43) 2,4,6-Trichlorophenol	9.151	196	369027	58.123	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140338.D
 Acq On : 13 Nov 2024 11:47
 Operator : RC/JU
 Sample : SSTDICC060
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC060

Quant Time: Nov 13 14:26:57 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 13:11:08 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	408838	58.897	ng	99
46) 1,1'-Biphenyl	9.339	154	1409617	55.384	ng	100
47) 2-Chloronaphthalene	9.363	162	1100798	56.777	ng	99
48) 2-Nitroaniline	9.457	65	384307	59.769	ng	96
49) Acenaphthylene	9.780	152	1628948	55.531	ng	99
50) Dimethylphthalate	9.639	163	1305952	57.269	ng	100
51) 2,6-Dinitrotoluene	9.704	165	303778	58.434	ng	99
52) Acenaphthene	9.951	154	1132725	57.171	ng	100
53) 3-Nitroaniline	9.875	138	313217	57.370	ng	100
54) 2,4-Dinitrophenol	9.980	184	178562	66.606	ng	99
55) Dibenzofuran	10.122	168	1538256	54.845	ng	99
56) 4-Nitrophenol	10.033	139	249200	62.577	ng	99
57) 2,4-Dinitrotoluene	10.110	165	401261	58.647	ng	96
58) Fluorene	10.469	166	1193733	53.876	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	317173	57.919	ng	99
60) Diethylphthalate	10.339	149	1308229	56.104	ng	99
61) 4-Chlorophenyl-phenyle...	10.457	204	594806	54.376	ng	99
62) 4-Nitroaniline	10.492	138	328847	58.909	ng	100
63) Azobenzene	10.616	77	1305799	56.677	ng	98
65) 4,6-Dinitro-2-methylph...	10.522	198	234662	66.702	ng	97
66) n-Nitrosodiphenylamine	10.580	169	1061092	56.163	ng	99
67) 4-Bromophenyl-phenylether	10.945	248	369051	56.461	ng	97
68) Hexachlorobenzene	11.016	284	422038	57.387	ng	98
69) Atrazine	11.104	200	402831	70.474	ng	99
70) Pentachlorophenol	11.210	266	255229	64.427	ng	99
71) Phenanthrene	11.427	178	1669857	54.363	ng	99
72) Anthracene	11.480	178	1644863	54.639	ng	99
73) Carbazole	11.633	167	1635888	55.034	ng	99
74) Di-n-butylphthalate	11.963	149	2005925	56.225	ng	100
75) Fluoranthene	12.621	202	1830547	53.118	ng	99
77) Benzidine	12.739	184	963069	74.521	ng	99
78) Pyrene	12.851	202	1817826	63.115	ng	99
80) Butylbenzylphthalate	13.463	149	687900	62.173	ng	98
81) Benzo(a)anthracene	14.045	228	1306865	59.054	ng	99
82) 3,3'-Dichlorobenzidine	14.010	252	419937	59.701	ng	100
83) Chrysene	14.086	228	1134734	56.198	ng	99
84) Bis(2-ethylhexyl)phtha...	14.027	149	877334	59.407	ng	99
85) Di-n-octyl phthalate	14.674	149	1253939	60.287	ng	99
87) Indeno(1,2,3-cd)pyrene	17.080	276	1357877	65.759	ng	100
88) Benzo(b)fluoranthene	15.133	252	1236880	56.564	ng	100
89) Benzo(k)fluoranthene	15.162	252	937366	52.473	ng	98
90) Benzo(a)pyrene	15.509	252	982982	57.887	ng	100
91) Dibenzo(a,h)anthracene	17.098	278	1124071	65.856	ng	99
92) Benzo(g,h,i)perylene	17.539	276	1149411	65.870	ng	98

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

[illegible]

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140339.D
 Acq On : 13 Nov 2024 12:13
 Operator : RC/JU
 Sample : SSTDICC080
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC080

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/14/2024
 Supervised By :mohammad ahmed 11/14/2024

Quant Time: Nov 13 14:36:37 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 13:11:08 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	160348	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	586224	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	324351	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	591968	20.000	ng	0.00
76) Chrysene-d12	14.057	240	305715	20.000	ng	0.00
86) Perylene-d12	15.562	264	310894	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	1324090	140.989	ng	0.00
7) Phenol-d6	6.522	99	1804257	141.801	ng	0.02
23) Nitrobenzene-d5	7.451	82	1661144	147.640	ng	0.01
42) 2,4,6-Tribromophenol	10.710	330	471699	146.244	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	2675376	132.597	ng	0.00
79) Terphenyl-d14	12.992	244	2674139	151.833	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.651	88	307882	73.555	ng	100
3) Pyridine	3.422	79	735683	71.493	ng	99
4) n-Nitrosodimethylamine	3.398	42	402441	77.381	ng	99
6) Aniline	6.551	93	684015	61.797	ng	# 84
8) 2-Chlorophenol	6.675	128	709152	70.295	ng	99
10) Phenol	6.534	94	947993	70.649	ng	92
11) bis(2-Chloroethyl)ether	6.622	93	756191	74.376	ng	99
12) 1,3-Dichlorobenzene	6.822	146	783204	70.364	ng	98
13) 1,4-Dichlorobenzene	6.898	146	783319	69.404	ng	99
14) 1,2-Dichlorobenzene	7.057	146	710399	67.802	ng	99
15) Benzyl Alcohol	7.028	79	654439	71.389	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.157	45	993408	70.738	ng	96
17) 2-Methylphenol	7.133	107	604396	72.829	ng	98
18) Hexachloroethane	7.392	117	300328	71.979	ng	98
19) n-Nitroso-di-n-propyla...	7.304	70	543998	70.790	ng	100
20) 3+4-Methylphenols	7.292	107	699451	67.394	ng	96
22) Acetophenone	7.298	105	963095	70.637	ng	99
24) Nitrobenzene	7.469	77	870976	74.350	ng	99
25) Isophorone	7.704	82	1487295	74.586	ng	100
26) 2-Nitrophenol	7.781	139	401982	77.328	ng	99
27) 2,4-Dimethylphenol	7.816	122	500708	75.234	ng	99
28) bis(2-Chloroethoxy)met...	7.910	93	887655	72.597	ng	100
29) 2,4-Dichlorophenol	8.022	162	597530	72.647	ng	99
30) 1,2,4-Trichlorobenzene	8.104	180	663478	72.454	ng	99
31) Naphthalene	8.186	128	2076967	69.842	ng	99
32) Benzoic acid	7.969	122	529009	90.483	ng	96
33) 4-Chloroaniline	8.245	127	729859	70.572	ng	99
34) Hexachlorobutadiene	8.298	225	417242	71.513	ng	100
35) Caprolactam	8.627	113	208353m	75.344	ng	
36) 4-Chloro-3-methylphenol	8.716	107	672162	73.742	ng	100
37) 2-Methylnaphthalene	8.875	142	1323889	69.428	ng	100
38) 1-Methylnaphthalene	8.975	142	1289276	69.046	ng	99
40) 1,2,4,5-Tetrachloroben...	9.039	216	629856	70.223	ng	100
41) Hexachlorocyclopentadiene	9.022	237	187869	81.579	ng	99
43) 2,4,6-Trichlorophenol	9.151	196	442116	75.110	ng	99
44) 2,4,5-Trichlorophenol	9.198	196	468390	72.781	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140339.D
 Acq On : 13 Nov 2024 12:13
 Operator : RC/JU
 Sample : SSTDICC080
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024

Quant Time: Nov 13 14:36:37 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Nov 13 13:11:08 2024

Response via : Initial Calibration

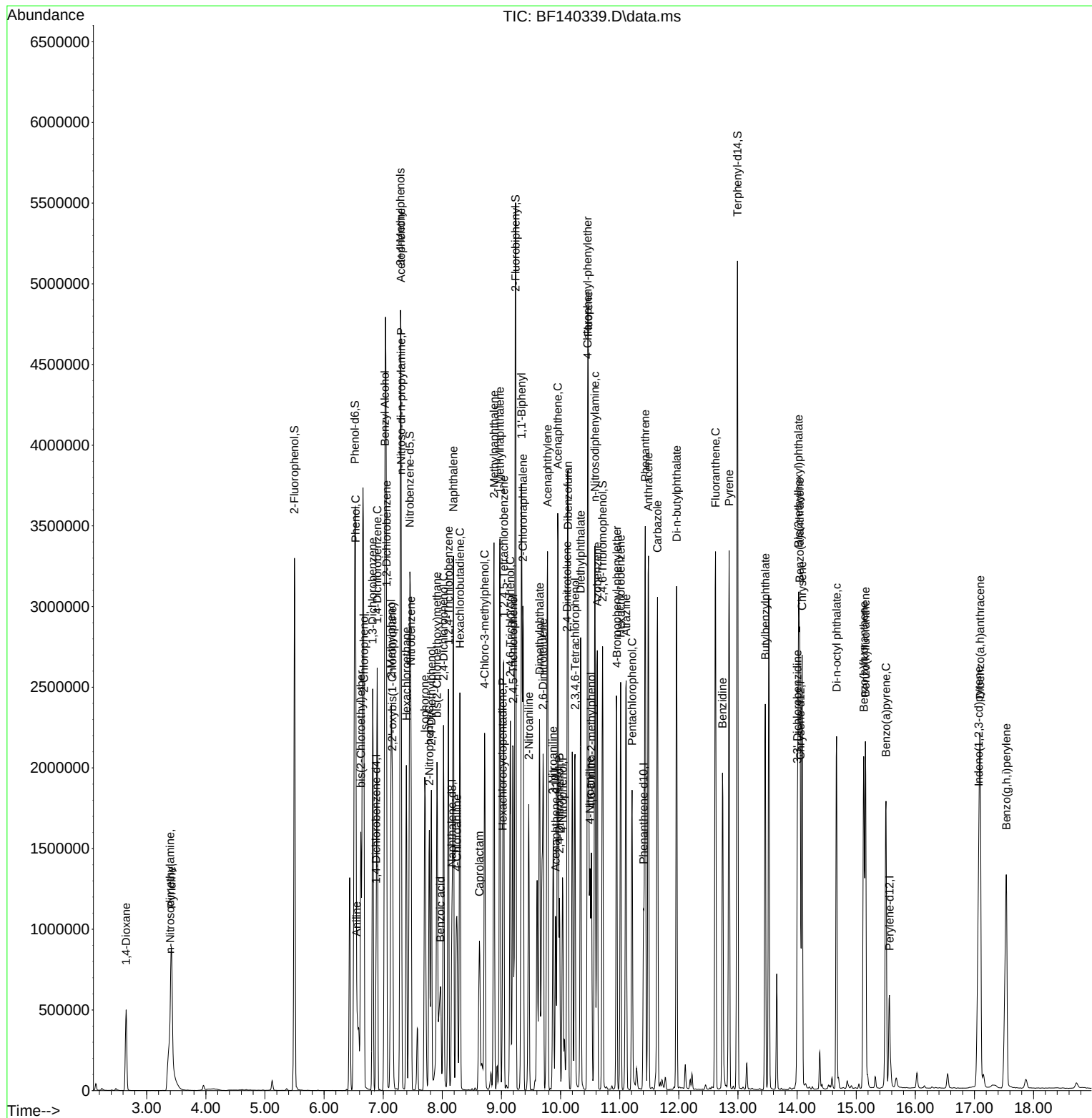
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) 1,1'-Biphenyl	9.339	154	1613420	68.375	ng	99
47) 2-Chloronaphthalene	9.363	162	1259442	70.067	ng	98
48) 2-Nitroaniline	9.463	65	454975	76.323	ng	98
49) Acenaphthylene	9.780	152	1869941	68.758	ng	99
50) Dimethylphthalate	9.645	163	1532197	72.473	ng	100
51) 2,6-Dinitrotoluene	9.704	165	348019	72.207	ng	93
52) Acenaphthene	9.951	154	1305360	71.065	ng	99
53) 3-Nitroaniline	9.874	138	356185	70.369	ng	98
54) 2,4-Dinitrophenol	9.980	184	217511	87.514	ng	98
55) Dibenzofuran	10.127	168	1743431	67.047	ng	100
56) 4-Nitrophenol	10.033	139	291787	79.032	ng	96
57) 2,4-Dinitrotoluene	10.110	165	454770	71.693	ng	94
58) Fluorene	10.469	166	1382804	67.316	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.245	232	374293	73.723	ng	100
60) Diethylphthalate	10.339	149	1537607	71.126	ng	99
61) 4-Chlorophenyl-phenyle...	10.457	204	685111	67.555	ng	99
62) 4-Nitroaniline	10.498	138	385246	74.437	ng	100
63) Azobenzene	10.621	77	1508804	70.637	ng	99
65) 4,6-Dinitro-2-methylph...	10.522	198	274337	86.136	ng	99
66) n-Nitrosodiphenylamine	10.580	169	1237130	72.330	ng	100
67) 4-Bromophenyl-phenylether	10.951	248	426112	72.010	ng	99
68) Hexachlorobenzene	11.016	284	491825	73.871	ng	99
69) Atrazine	11.110	200	495230	95.702	ng	99
70) Pentachlorophenol	11.210	266	308099	85.908	ng	99
71) Phenanthrene	11.433	178	1941678	69.825	ng	99
72) Anthracene	11.486	178	1901483	69.770	ng	100
73) Carbazole	11.639	167	1853513	68.878	ng	99
74) Di-n-butylphthalate	11.963	149	2283744	70.708	ng	100
75) Fluoranthene	12.621	202	2053832	65.832	ng	99
77) Benzidine	12.739	184	1147944	97.835	ng	99
78) Pyrene	12.851	202	2044224	78.173	ng	99
80) Butylbenzylphthalate	13.462	149	768354	76.487	ng	98
81) Benzo(a)anthracene	14.045	228	1461193	72.724	ng	100
82) 3,3'-Dichlorobenzidine	14.004	252	488462	76.486	ng	99
83) Chrysene	14.086	228	1343316	73.275	ng	99
84) Bis(2-ethylhexyl)phtha...	14.027	149	994724	74.186	ng	99
85) Di-n-octyl phthalate	14.668	149	1481946	78.474	ng	99
87) Indeno(1,2,3-cd)pyrene	17.074	276	1638318	85.308	ng	99
88) Benzo(b)fluoranthene	15.127	252	1490709	73.300	ng	100
89) Benzo(k)fluoranthene	15.156	252	1103915	66.445	ng	98
90) Benzo(a)pyrene	15.504	252	1179142	74.662	ng	99
91) Dibenzo(a,h)anthracene	17.098	278	1339293	84.367	ng	99
92) Benzo(g,h,i)perylene	17.539	276	1392525	85.805	ng	99

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140340.D
 Acq On : 13 Nov 2024 12:48
 Operator : RC/JU
 Sample : SSTDICCC040
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICCC040

Quant Time: Nov 13 14:28:55 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 13:11:08 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	147186	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	589077	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	334544	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	628587	20.000	ng	0.00
76) Chrysene-d12	14.063	240	385940	20.000	ng	0.01
86) Perylene-d12	15.580	264	322417	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	677089	78.544	ng	0.00
7) Phenol-d6	6.504	99	945074	80.918	ng	0.00
23) Nitrobenzene-d5	7.440	82	884247	78.210	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	257655	77.449	ng	0.00
45) 2-Fluorobiphenyl	9.234	172	1568502	75.369	ng	0.00
79) Terphenyl-d14	12.986	244	1733989	77.987	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.634	88	151541	39.442	ng	99
3) Pyridine	3.399	79	387454	41.019	ng	99
4) n-Nitrosodimethylamine	3.352	42	193917	40.620	ng	97
6) Aniline	6.540	93	427252	42.052	ng	100
8) 2-Chlorophenol	6.663	128	371904	40.162	ng	100
9) Benzaldehyde	6.428	77	262348	37.479	ng	99
10) Phenol	6.516	94	507443	41.199	ng	99
11) bis(2-Chloroethyl)ether	6.616	93	371673	39.825	ng	99
12) 1,3-Dichlorobenzene	6.816	146	404387	39.579	ng	99
13) 1,4-Dichlorobenzene	6.893	146	409423	39.520	ng	99
14) 1,2-Dichlorobenzene	7.051	146	380948	39.610	ng	100
15) Benzyl Alcohol	7.016	79	356418	42.357	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	534596	41.471	ng	99
17) 2-Methylphenol	7.128	107	313127	41.105	ng	99
18) Hexachloroethane	7.387	117	151355	39.519	ng	98
19) n-Nitroso-di-n-propyla...	7.287	70	288974	40.966	ng	98
20) 3+4-Methylphenols	7.281	107	397692	41.745	ng	96
22) Acetophenone	7.287	105	529699	38.662	ng	98
24) Nitrobenzene	7.457	77	462701	39.307	ng	99
25) Isophorone	7.698	82	793806	39.616	ng	99
26) 2-Nitrophenol	7.775	139	210859	40.366	ng	99
27) 2,4-Dimethylphenol	7.804	122	262308	39.222	ng	97
28) bis(2-Chloroethoxy)met...	7.904	93	479505	39.027	ng	100
29) 2,4-Dichlorophenol	8.016	162	323936	39.193	ng	99
30) 1,2,4-Trichlorobenzene	8.098	180	355366	38.619	ng	100
31) Naphthalene	8.181	128	1157149	38.723	ng	100
32) Benzoic acid	7.928	122	249383	42.449	ng	96
33) 4-Chloroaniline	8.228	127	400271	38.516	ng	100
34) Hexachlorobutadiene	8.292	225	227805	38.855	ng	99
35) Caprolactam	8.598	113	108216	38.943	ng	96
36) 4-Chloro-3-methylphenol	8.704	107	364230	39.766	ng	99
37) 2-Methylnaphthalene	8.869	142	744201	38.839	ng	99
38) 1-Methylnaphthalene	8.969	142	736798	39.267	ng	99
40) 1,2,4,5-Tetrachloroben...	9.034	216	354978	38.371	ng	99
41) Hexachlorocyclopentadiene	9.022	237	93127	39.207	ng	99
43) 2,4,6-Trichlorophenol	9.145	196	240824	39.666	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140340.D
 Acq On : 13 Nov 2024 12:48
 Operator : RC/JU
 Sample : SSTDICCC040
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICCC040

Quant Time: Nov 13 14:28:55 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 13:11:08 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.187	196	260135	39.190	ng	99
46) 1,1'-Biphenyl	9.334	154	939571	38.605	ng	99
47) 2-Chloronaphthalene	9.357	162	712904	38.453	ng	99
48) 2-Nitroaniline	9.457	65	243614	39.621	ng	99
49) Acenaphthylene	9.775	152	1094318	39.012	ng	100
50) Dimethylphthalate	9.634	163	843750	38.694	ng	100
51) 2,6-Dinitrotoluene	9.698	165	198967	40.024	ng	99
52) Acenaphthene	9.951	154	733408	38.711	ng	100
53) 3-Nitroaniline	9.869	138	207550	39.755	ng	100
54) 2,4-Dinitrophenol	9.975	184	98545	38.441	ng	98
55) Dibenzofuran	10.122	168	1042453	38.868	ng	100
56) 4-Nitrophenol	10.022	139	157938	41.475	ng	98
57) 2,4-Dinitrotoluene	10.104	165	258886	39.569	ng	98
58) Fluorene	10.463	166	804084	37.951	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	212533	40.586	ng	99
60) Diethylphthalate	10.334	149	861287	38.627	ng	99
61) 4-Chlorophenyl-phenyle...	10.451	204	403914	38.614	ng	99
62) 4-Nitroaniline	10.481	138	213640	40.022	ng	100
63) Azobenzene	10.616	77	865008	39.263	ng	99
65) 4,6-Dinitro-2-methylph...	10.510	198	136662	40.409	ng	98
66) n-Nitrosodiphenylamine	10.575	169	703286	38.723	ng	100
67) 4-Bromophenyl-phenylether	10.945	248	243728	38.789	ng	100
68) Hexachlorobenzene	11.010	284	273839	38.734	ng	98
69) Atrazine	11.098	200	181993	33.121	ng	99
70) Pentachlorophenol	11.204	266	160120	42.046	ng	98
71) Phenanthrene	11.428	178	1135052	38.440	ng	100
72) Anthracene	11.481	178	1117453	38.613	ng	100
73) Carbazole	11.633	167	1101588	38.551	ng	100
74) Di-n-butylphthalate	11.957	149	1350065	39.365	ng	100
75) Fluoranthene	12.616	202	1279456	38.621	ng	100
77) Benzidine	12.739	184	504166	34.036	ng	99
78) Pyrene	12.845	202	1295809	39.252	ng	100
80) Butylbenzylphthalate	13.463	149	532219	41.968	ng	97
81) Benzo(a)anthracene	14.051	228	975194	38.447	ng	99
82) 3,3'-Dichlorobenzidine	14.010	252	310326	38.491	ng	99
83) Chrysene	14.086	228	901424	38.950	ng	100
84) Bis(2-ethylhexyl)phtha...	14.033	149	715490	42.269	ng	100
85) Di-n-octyl phthalate	14.680	149	995484	41.757	ng	100
87) Indeno(1,2,3-cd)pyrene	17.086	276	811059	40.723	ng	100
88) Benzo(b)fluoranthene	15.139	252	814405	38.614	ng	100
89) Benzo(k)fluoranthene	15.174	252	683609	39.676	ng	99
90) Benzo(a)pyrene	15.516	252	648346	39.585	ng	99
91) Dibenzo(a,h)anthracene	17.104	278	670243	40.712	ng	99
92) Benzo(g,h,i)perylene	17.545	276	685184	40.711	ng	100

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

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

TIC: BF140340.D\data.ms

Abundance

Time-->

1,4-Dioxane
n-Nitrosodiphenylamine,
Phthalazine,
2-Fluorophenol,S
Benzaldehyde
Chloroethylnaphthalene
1,7-Dichlorobenzene-d4,1,1,3-Dichlorobenzene
2,2'-oxybis(1-Chloromethylbenzene)
Hexachloronaphthalene
Nitrobenzene-d5,S
Isophlogone
2-Nitrophenol
Benzoic acid
Naphthalene
Caprolactam
4-Chloro-3-methylphenol,C
Hexachlorocyclopentadiene,P
2,4,6-Trichlorophenol,C
2-Nitroaniline
2,6-Dinitrochlorobenzene
3-Nitrophenol
2,4-Dinitrophenol
2,3,4,6-Tetrachlorophenol
4,6-Dinitro-2-methylphenol
Pentachlorophenol,C
Phenanthrene-d10,I
Carbazole
Di-n-butylphthalate
Benzidine
Benzothiazole
Butylbenzylphthalate
3,3'-Dibenzoylphthalide
Di-n-octyl phthalate,c
Benzofluoranthene
Benzo(e,p)pyrene,C
Perylene-d12,I
Indeno(1,2,3-cd)pyrene
Benzo(g,h,i)perylene

2-Fluorophenol,S
Phenol,C
Phenol-d6,S
3+4-Aminobiphenylamine,P
Nitrobenzene-d5,S
Acenaphthylene
Acenaphthene
Dibenzofuran
Diethylphthalate
n-Nitrosodiphenylamine,C
4-Chlorophenyl phenylether
Fluorene
Anthracene
Carbazole
Di-n-butylphthalate
Fluoranthene,C
Pyrene
Terphenyl-d14,S
Chrysene
Benzo(a,b,e,h,k,l,r,x,y)phthalate

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140341.D
 Acq On : 13 Nov 2024 13:19
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ICVBF111324

Quant Time: Nov 13 14:41:15 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	149980	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	587913	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	333123	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	631059	20.000	ng	0.00
76) Chrysene-d12	14.063	240	366437	20.000	ng	0.01
86) Perylene-d12	15.574	264	319261	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	684092	77.878	ng	0.00
7) Phenol-d6	6.504	99	943149	79.248	ng	0.00
23) Nitrobenzene-d5	7.440	82	885901	78.511	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	260432	78.617	ng	0.00
45) 2-Fluorobiphenyl	9.234	172	1568824	75.707	ng	0.00
79) Terphenyl-d14	12.986	244	1705668	80.797	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.634	88	155026	39.597	ng	99
3) Pyridine	3.405	79	391304	40.655	ng	99
4) n-Nitrosodimethylamine	3.357	42	194133	39.908	ng	98
6) Aniline	6.540	93	429973	41.531	ng	99
8) 2-Chlorophenol	6.663	128	373546	39.588	ng	100
9) Benzaldehyde	6.428	77	266318	37.337	ng	99
10) Phenol	6.516	94	505284	40.259	ng	99
11) bis(2-Chloroethyl)ether	6.616	93	374368	39.367	ng	99
12) 1,3-Dichlorobenzene	6.816	146	407569	39.148	ng	99
13) 1,4-Dichlorobenzene	6.898	146	410968	38.930	ng	100
14) 1,2-Dichlorobenzene	7.051	146	381749	38.953	ng	100
15) Benzyl Alcohol	7.016	79	356665	41.596	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	529417	40.304	ng	100
17) 2-Methylphenol	7.128	107	312261	40.228	ng	99
18) Hexachloroethane	7.387	117	152783	39.149	ng	98
19) n-Nitroso-di-n-propyla...	7.292	70	288082	40.079	ng	99
20) 3+4-Methylphenols	7.281	107	398279	41.028	ng	99
22) Acetophenone	7.287	105	530294	38.782	ng	99
24) Nitrobenzene	7.463	77	461518	39.284	ng	99
25) Isophorone	7.698	82	791096	39.558	ng	100
26) 2-Nitrophenol	7.775	139	212967	40.850	ng	100
27) 2,4-Dimethylphenol	7.804	122	270554	40.536	ng	100
28) bis(2-Chloroethoxy)met...	7.904	93	481393	39.258	ng	99
29) 2,4-Dichlorophenol	8.016	162	326198	39.545	ng	99
30) 1,2,4-Trichlorobenzene	8.098	180	356725	38.843	ng	99
31) Naphthalene	8.181	128	1159811	38.889	ng	100
32) Benzoic acid	7.928	122	250402	42.635	ng	97
33) 4-Chloroaniline	8.228	127	404464	38.996	ng	99
34) Hexachlorobutadiene	8.298	225	227054	38.804	ng	99
35) Caprolactam	8.598	113	110611	40.345	ng	99
36) 4-Chloro-3-methylphenol	8.704	107	368906	40.356	ng	100
37) 2-Methylnaphthalene	8.869	142	747189	39.072	ng	100
38) 1-Methylnaphthalene	8.969	142	729079	38.933	ng	100
40) 1,2,4,5-Tetrachloroben...	9.034	216	356102	38.657	ng	100
41) Hexachlorocyclopentadiene	9.022	237	90509	38.267	ng	98
43) 2,4,6-Trichlorophenol	9.145	196	240423	39.769	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140341.D
 Acq On : 13 Nov 2024 13:19
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ICVBF111324

Quant Time: Nov 13 14:41:15 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	254749	38.542	ng	100
46) 1,1'-Biphenyl	9.334	154	946801	39.068	ng	99
47) 2-Chloronaphthalene	9.363	162	711544	38.543	ng	100
48) 2-Nitroaniline	9.457	65	243803	39.821	ng	99
49) Acenaphthylene	9.775	152	1088251	38.962	ng	100
50) Dimethylphthalate	9.634	163	845361	38.933	ng	99
51) 2,6-Dinitrotoluene	9.698	165	197768	39.952	ng	100
52) Acenaphthene	9.951	154	738443	39.143	ng	100
53) 3-Nitroaniline	9.869	138	206946	39.809	ng	99
54) 2,4-Dinitrophenol	9.975	184	102497	40.153	ng	99
55) Dibenzofuran	10.122	168	1049030	39.280	ng	99
56) 4-Nitrophenol	10.022	139	158431	41.782	ng	99
57) 2,4-Dinitrotoluene	10.104	165	262271	40.258	ng	100
58) Fluorene	10.463	166	811348	38.457	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	206672	39.601	ng	99
60) Diethylphthalate	10.333	149	864678	38.945	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	400645	38.465	ng	99
62) 4-Nitroaniline	10.481	138	210281	39.561	ng	99
63) Azobenzene	10.616	77	869821	39.649	ng	99
65) 4,6-Dinitro-2-methylph...	10.510	198	139694	41.144	ng	100
66) n-Nitrosodiphenylamine	10.575	169	709758	38.926	ng	100
67) 4-Bromophenyl-phenylether	10.945	248	246390	39.059	ng	99
68) Hexachlorobenzene	11.010	284	277113	39.043	ng	99
69) Atrazine	11.098	200	180055	32.640	ng	98
70) Pentachlorophenol	11.204	266	159402	41.693	ng	99
71) Phenanthrene	11.428	178	1127194	38.024	ng	99
72) Anthracene	11.480	178	1114551	38.362	ng	100
73) Carbazole	11.633	167	1109519	38.676	ng	100
74) Di-n-butylphthalate	11.957	149	1356287	39.391	ng	100
75) Fluoranthene	12.616	202	1270353	38.196	ng	99
77) Benzidine	12.739	184	546613	38.866	ng	99
78) Pyrene	12.845	202	1274659	40.667	ng	100
80) Butylbenzylphthalate	13.463	149	512452	42.560	ng	98
81) Benzo(a)anthracene	14.051	228	947117	39.327	ng	99
82) 3,3'-Dichlorobenzidine	14.010	252	304604	39.793	ng	99
83) Chrysene	14.086	228	869491	39.569	ng	99
84) Bis(2-ethylhexyl)phtha...	14.033	149	678437	42.213	ng	100
85) Di-n-octyl phthalate	14.680	149	915547	40.448	ng	99
87) Indeno(1,2,3-cd)pyrene	17.080	276	815903	41.371	ng	100
88) Benzo(b)fluoranthene	15.139	252	775920	37.153	ng	99
89) Benzo(k)fluoranthene	15.168	252	693105	40.625	ng	99
90) Benzo(a)pyrene	15.510	252	637970	39.337	ng	100
91) Dibenzo(a,h)anthracene	17.098	278	682579	41.871	ng	100
92) Benzo(g,h,i)perylene	17.539	276	677222	40.635	ng	99

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

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

[illegible]

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140341.D
 Acq On : 13 Nov 2024 13:19
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ICVBF111324

Quant Time: Nov 13 14:41:15 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 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	102	0.00
2	1,4-Dioxane	0.522	0.517	1.0	102	0.00
3	Pyridine	1.283	1.305	-1.7	101	0.00
4	n-Nitrosodimethylamine	0.649	0.647	0.3	100	0.00
5 S	2-Fluorophenol	1.171	1.140	2.6	101	0.00
6	Aniline	1.381	1.433	-3.8	101	0.00
7 S	Phenol-d6	1.587	1.572	0.9	100	0.00
8	2-Chlorophenol	1.258	1.245	1.0	100	0.00
9	Benzaldehyde	0.951	0.888	6.6	102	0.00
10 C	Phenol	1.674	1.685	-0.7	100	0.00
11	bis(2-Chloroethyl)ether	1.268	1.248	1.6	101	0.00
12	1,3-Dichlorobenzene	1.388	1.359	2.1	101	0.00
13 C	1,4-Dichlorobenzene	1.408	1.370	2.7	100	0.00
14	1,2-Dichlorobenzene	1.307	1.273	2.6	100	0.00
15	Benzyl Alcohol	1.143	1.189	-4.0	100	0.00
16	2,2'-oxybis(1-Chloropropane	1.752	1.765	-0.7	99	0.00
17	2-Methylphenol	1.035	1.041	-0.6	100	0.00
18	Hexachloroethane	0.520	0.509	2.1	101	0.00
19 P	n-Nitroso-di-n-propylamine	0.959	0.960	-0.1	100	0.00
20	3+4-Methylphenols	1.294	1.328	-2.6	100	0.00
21 I	Naphthalene-d8	1.000	1.000	0.0	100	0.00
22	Acetophenone	0.465	0.451	3.0	100	0.00
23 S	Nitrobenzene-d5	0.384	0.377	1.8	100	0.00
24	Nitrobenzene	0.400	0.393	1.8	100	0.00
25	Isophorone	0.680	0.673	1.0	100	0.00
26 C	2-Nitrophenol	0.177	0.181	-2.3	101	0.00
27	2,4-Dimethylphenol	0.227	0.230	-1.3	103	0.00
28	bis(2-Chloroethoxy)methane	0.417	0.409	1.9	100	0.00
29 C	2,4-Dichlorophenol	0.281	0.277	1.4	101	0.00
30	1,2,4-Trichlorobenzene	0.312	0.303	2.9	100	0.00
31	Naphthalene	1.015	0.986	2.9	100	0.00
32	Benzoic acid	0.200	0.213	-6.5	100	0.00
33	4-Chloroaniline	0.353	0.344	2.5	101	0.00
34 C	Hexachlorobutadiene	0.199	0.193	3.0	100	0.00
35	Caprolactam	0.093	0.094	-1.1	102	0.00
36 C	4-Chloro-3-methylphenol	0.311	0.314	-1.0	101	0.00
37	2-Methylnaphthalene	0.651	0.635	2.5	100	0.00
38	1-Methylnaphthalene	0.637	0.620	2.7	99	0.00
39 I	Acenaphthene-d10	1.000	1.000	0.0	100	0.00
40	1,2,4,5-Tetrachlorobenzene	0.553	0.534	3.4	100	0.00
41 P	Hexachlorocyclopentadiene	0.142	0.136	4.2	97	0.00
42 S	2,4,6-Tribromophenol	0.199	0.195	2.0	101	0.00
43 C	2,4,6-Trichlorophenol	0.363	0.361	0.6	100	0.00
44	2,4,5-Trichlorophenol	0.397	0.382	3.8	98	0.00
45 S	2-Fluorobiphenyl	1.244	1.177	5.4	100	0.00
46	1,1'-Biphenyl	1.455	1.421	2.3	101	0.00
47	2-Chloronaphthalene	1.108	1.068	3.6	100	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140341.D
 Acq On : 13 Nov 2024 13:19
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ICVBF111324

Quant Time: Nov 13 14:41:15 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 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	0.368	0.366	0.5	100	0.00
49	Acenaphthylene	1.677	1.633	2.6	99	0.00
50	Dimethylphthalate	1.304	1.269	2.7	100	0.00
51	2,6-Dinitrotoluene	0.297	0.297	0.0	99	0.00
52 C	Acenaphthene	1.133	1.108	2.2	101	0.00
53	3-Nitroaniline	0.312	0.311	0.3	100	0.00
54 P	2,4-Dinitrophenol	0.153	0.154	-0.7	104	0.00
55	Dibenzofuran	1.603	1.575	1.7	101	0.00
56 P	4-Nitrophenol	0.228	0.238	-4.4	100	0.00
57	2,4-Dinitrotoluene	0.391	0.394	-0.8	101	0.00
58	Fluorene	1.267	1.218	3.9	101	0.00
59	2,3,4,6-Tetrachlorophenol	0.313	0.310	1.0	97	0.00
60	Diethylphthalate	1.333	1.298	2.6	100	0.00
61	4-Chlorophenyl-phenylether	0.625	0.601	3.8	99	0.00
62	4-Nitroaniline	0.319	0.316	0.9	98	0.00
63	Azobenzene	1.317	1.306	0.8	101	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	100	0.00
65	4,6-Dinitro-2-methylphenol	0.108	0.111	-2.8	102	0.00
66 c	n-Nitrosodiphenylamine	0.578	0.562	2.8	101	0.00
67	4-Bromophenyl-phenylether	0.200	0.195	2.5	101	0.00
68	Hexachlorobenzene	0.225	0.220	2.2	101	0.00
69	Atrazine	0.175	0.143	18.3	99	0.00
70 C	Pentachlorophenol	0.121	0.126	-4.1	100	0.00
71	Phenanthrene	0.940	0.893	5.0	99	0.00
72	Anthracene	0.921	0.883	4.1	100	0.00
73	Carbazole	0.909	0.879	3.3	101	0.00
74	Di-n-butylphthalate	1.091	1.075	1.5	100	0.00
75 C	Fluoranthene	1.054	1.007	4.5	99	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	95	0.01
77	Benzidine	0.768	0.746	2.9	108	0.00
78	Pyrene	1.711	1.739	-1.6	98	0.00
79 S	Terphenyl-d14	1.152	1.164	-1.0	98	0.00
80	Butylbenzylphthalate	0.657	0.699	-6.4	96	0.00
81	Benzo(a)anthracene	1.314	1.292	1.7	97	0.01
82	3,3'-Dichlorobenzidine	0.418	0.416	0.5	98	0.01
83	Chrysene	1.199	1.186	1.1	96	0.00
84	Bis(2-ethylhexyl)phthalate	0.877	0.926	-5.6	95	0.01
85 c	Di-n-octyl phthalate	1.235	1.249	-1.1	92	0.02
86 I	Perylene-d12	1.000	1.000	0.0	99	0.02
87	Indeno(1,2,3-cd)pyrene	1.235	1.278	-3.5	101	0.02
88	Benzo(b)fluoranthene	1.308	1.215	7.1	95	0.02
89	Benzo(k)fluoranthene	1.069	1.085	-1.5	101	0.02
90 C	Benzo(a)pyrene	1.016	0.999	1.7	98	0.02
91	Dibenzo(a,h)anthracene	1.021	1.069	-4.7	102	0.02
92	Benzo(g,h,i)perylene	1.044	1.061	-1.6	99	0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140341.D
Acq On : 13 Nov 2024 13:19
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Quant Time: Nov 13 14:41:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
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_F\Data\BF111324\
 Data File : BF140341.D
 Acq On : 13 Nov 2024 13:19
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ICVBF111324

Quant Time: Nov 13 14:41:15 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 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	102	0.00
2	1,4-Dioxane	40.000	39.597	1.0	102	0.00
3	Pyridine	40.000	40.655	-1.6	101	0.00
4	n-Nitrosodimethylamine	40.000	39.908	0.2	100	0.00
5 S	2-Fluorophenol	80.000	77.878	2.7	101	0.00
6	Aniline	40.000	41.531	-3.8	101	0.00
7 S	Phenol-d6	80.000	79.248	0.9	100	0.00
8	2-Chlorophenol	40.000	39.588	1.0	100	0.00
9	Benzaldehyde	40.000	37.337	6.7	102	0.00
10 C	Phenol	40.000	40.259	-0.6	100	0.00
11	bis(2-Chloroethyl)ether	40.000	39.367	1.6	101	0.00
12	1,3-Dichlorobenzene	40.000	39.148	2.1	101	0.00
13 C	1,4-Dichlorobenzene	40.000	38.930	2.7	100	0.00
14	1,2-Dichlorobenzene	40.000	38.953	2.6	100	0.00
15	Benzyl Alcohol	40.000	41.596	-4.0	100	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	40.304	-0.8	99	0.00
17	2-Methylphenol	40.000	40.228	-0.6	100	0.00
18	Hexachloroethane	40.000	39.149	2.1	101	0.00
19 P	n-Nitroso-di-n-propylamine	40.000	40.079	-0.2	100	0.00
20	3+4-Methylphenols	40.000	41.028	-2.6	100	0.00
21 I	Naphthalene-d8	20.000	20.000	0.0	100	0.00
22	Acetophenone	40.000	38.782	3.0	100	0.00
23 S	Nitrobenzene-d5	80.000	78.511	1.9	100	0.00
24	Nitrobenzene	40.000	39.284	1.8	100	0.00
25	Isophorone	40.000	39.558	1.1	100	0.00
26 C	2-Nitrophenol	40.000	40.850	-2.1	101	0.00
27	2,4-Dimethylphenol	40.000	40.536	-1.3	103	0.00
28	bis(2-Chloroethoxy)methane	40.000	39.258	1.9	100	0.00
29 C	2,4-Dichlorophenol	40.000	39.545	1.1	101	0.00
30	1,2,4-Trichlorobenzene	40.000	38.843	2.9	100	0.00
31	Naphthalene	40.000	38.889	2.8	100	0.00
32	Benzoic acid	40.000	42.635	-6.6	100	0.00
33	4-Chloroaniline	40.000	38.996	2.5	101	0.00
34 C	Hexachlorobutadiene	40.000	38.804	3.0	100	0.00
35	Caprolactam	40.000	40.345	-0.9	102	0.00
36 C	4-Chloro-3-methylphenol	40.000	40.356	-0.9	101	0.00
37	2-Methylnaphthalene	40.000	39.072	2.3	100	0.00
38	1-Methylnaphthalene	40.000	38.933	2.7	99	0.00
39 I	Acenaphthene-d10	20.000	20.000	0.0	100	0.00
40	1,2,4,5-Tetrachlorobenzene	40.000	38.657	3.4	100	0.00
41 P	Hexachlorocyclopentadiene	40.000	38.267	4.3	97	0.00
42 S	2,4,6-Tribromophenol	80.000	78.617	1.7	101	0.00
43 C	2,4,6-Trichlorophenol	40.000	39.769	0.6	100	0.00
44	2,4,5-Trichlorophenol	40.000	38.542	3.6	98	0.00
45 S	2-Fluorobiphenyl	80.000	75.707	5.4	100	0.00
46	1,1'-Biphenyl	40.000	39.068	2.3	101	0.00
47	2-Chloronaphthalene	40.000	38.543	3.6	100	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140341.D
 Acq On : 13 Nov 2024 13:19
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ICVBF111324

Quant Time: Nov 13 14:41:15 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 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	39.821	0.4	100	0.00
49	Acenaphthylene	40.000	38.962	2.6	99	0.00
50	Dimethylphthalate	40.000	38.933	2.7	100	0.00
51	2,6-Dinitrotoluene	40.000	39.952	0.1	99	0.00
52 C	Acenaphthene	40.000	39.143	2.1	101	0.00
53	3-Nitroaniline	40.000	39.809	0.5	100	0.00
54 P	2,4-Dinitrophenol	40.000	40.153	-0.4	104	0.00
55	Dibenzofuran	40.000	39.280	1.8	101	0.00
56 P	4-Nitrophenol	40.000	41.782	-4.5	100	0.00
57	2,4-Dinitrotoluene	40.000	40.258	-0.6	101	0.00
58	Fluorene	40.000	38.457	3.9	101	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	39.601	1.0	97	0.00
60	Diethylphthalate	40.000	38.945	2.6	100	0.00
61	4-Chlorophenyl-phenylether	40.000	38.465	3.8	99	0.00
62	4-Nitroaniline	40.000	39.561	1.1	98	0.00
63	Azobenzene	40.000	39.649	0.9	101	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	100	0.00
65	4,6-Dinitro-2-methylphenol	40.000	41.144	-2.9	102	0.00
66 c	n-Nitrosodiphenylamine	40.000	38.926	2.7	101	0.00
67	4-Bromophenyl-phenylether	40.000	39.059	2.4	101	0.00
68	Hexachlorobenzene	40.000	39.043	2.4	101	0.00
69	Atrazine	40.000	32.640	18.4	99	0.00
70 C	Pentachlorophenol	40.000	41.693	-4.2	100	0.00
71	Phenanthrene	40.000	38.024	4.9	99	0.00
72	Anthracene	40.000	38.362	4.1	100	0.00
73	Carbazole	40.000	38.676	3.3	101	0.00
74	Di-n-butylphthalate	40.000	39.391	1.5	100	0.00
75 C	Fluoranthene	40.000	38.196	4.5	99	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	95	0.01
77	Benzydine	40.000	38.866	2.8	108	0.00
78	Pyrene	40.000	40.667	-1.7	98	0.00
79 S	Terphenyl-d14	80.000	80.797	-1.0	98	0.00
80	Butylbenzylphthalate	40.000	42.560	-6.4	96	0.00
81	Benzo(a)anthracene	40.000	39.327	1.7	97	0.01
82	3,3'-Dichlorobenzidine	40.000	39.793	0.5	98	0.01
83	Chrysene	40.000	39.569	1.1	96	0.00
84	Bis(2-ethylhexyl)phthalate	40.000	42.213	-5.5	95	0.01
85 c	Di-n-octyl phthalate	40.000	40.448	-1.1	92	0.02
86 I	Perylene-d12	20.000	20.000	0.0	99	0.02
87	Indeno(1,2,3-cd)pyrene	40.000	41.371	-3.4	101	0.02
88	Benzo(b)fluoranthene	40.000	37.153	7.1	95	0.02
89	Benzo(k)fluoranthene	40.000	40.625	-1.6	101	0.02
90 C	Benzo(a)pyrene	40.000	39.337	1.7	98	0.02
91	Dibenzo(a,h)anthracene	40.000	41.871	-4.7	102	0.02
92	Benzo(g,h,i)perylene	40.000	40.635	-1.6	99	0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140341.D
Acq On : 13 Nov 2024 13:19
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Quant Time: Nov 13 14:41:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
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, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: BNA_F Calibration Date/Time: 11/07/2024 08:59

Lab File ID: BF140261.D Init. Calib. Date(s): 11/05/2024 11/05/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:26 15:30

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.207	1.165		-3.5	
Benzaldehyde	0.956	0.810		-15.3	
Phenol-d6	1.552	1.463		-5.7	
Phenol	1.649	1.561		-5.3	20.0
bis(2-Chloroethyl)ether	1.252	1.210		-3.4	
2-Chlorophenol	1.263	1.231		-2.5	
2-Methylphenol	1.053	1.018		-3.3	
2,2-oxybis(1-Chloropropane)	2.027	1.887		-6.9	
Acetophenone	0.496	0.470		-5.2	
3+4-Methylphenols	1.323	1.261		-4.7	
n-Nitroso-di-n-propylamine	0.990	0.931	0.050	-6.0	
Nitrobenzene-d5	0.402	0.382		-5.0	
Hexachloroethane	0.556	0.541		-2.7	
Nitrobenzene	0.422	0.399		-5.4	
Isophorone	0.693	0.666		-3.9	
2-Nitrophenol	0.168	0.177		5.4	20.0
2,4-Dimethylphenol	0.228	0.227		-0.4	
bis(2-Chloroethoxy)methane	0.415	0.403		-2.9	
2,4-Dichlorophenol	0.283	0.288		1.8	20.0
Naphthalene	1.033	0.994		-3.8	
4-Chloroaniline	0.340	0.337		-0.9	
Hexachlorobutadiene	0.229	0.225		-1.7	20.0
Caprolactam	0.086	0.089		3.5	
4-Chloro-3-methylphenol	0.315	0.313		-0.6	20.0
2-Methylnaphthalene	0.674	0.656		-2.7	
Hexachlorocyclopentadiene	0.164	0.179	0.050	9.1	
2,4,6-Trichlorophenol	0.363	0.369		1.7	20.0
2-Fluorobiphenyl	1.253	1.179		-5.8	
2,4,5-Trichlorophenol	0.381	0.390		2.4	
1,1-Biphenyl	1.446	1.384		-4.3	
2-Chloronaphthalene	1.088	1.060		-2.6	
2-Nitroaniline	0.364	0.353		-3.0	
Dimethylphthalate	1.232	1.219		-1.1	
Acenaphthylene	1.540	1.494		-3.0	
2,6-Dinitrotoluene	0.290	0.293		1.0	
3-Nitroaniline	0.273	0.272		-0.4	
Acenaphthene	1.093	1.068		-2.3	20.0
2,4-Dinitrophenol	0.120	0.130	0.050	8.3	
4-Nitrophenol	0.192	0.199	0.050	3.6	



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: BNA_F Calibration Date/Time: 11/07/2024 08:59

Lab File ID: BF140261.D Init. Calib. Date(s): 11/05/2024 11/05/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:26 15:30

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.528	1.498		-2.0	
2,4-Dinitrotoluene	0.376	0.389		3.5	
Diethylphthalate	1.224	1.230		0.5	
4-Chlorophenyl-phenylether	0.613	0.600		-2.1	
Fluorene	1.216	1.168		-3.9	
4-Nitroaniline	0.271	0.275		1.5	
4,6-Dinitro-2-methylphenol	0.105	0.111		5.7	
n-Nitrosodiphenylamine	0.575	0.555		-3.5	20.0
2,4,6-Tribromophenol	0.198	0.209		5.6	
4-Bromophenyl-phenylether	0.215	0.217		0.9	
Hexachlorobenzene	0.245	0.246		0.4	
Atrazine	0.157	0.164		4.5	
Pentachlorophenol	0.132	0.145		9.8	20.0
Phenanthrene	0.954	0.929		-2.6	
Anthracene	0.936	0.894		-4.5	
Carbazole	0.855	0.830		-2.9	
Di-n-butylphthalate	1.012	1.017		0.5	
Fluoranthene	0.998	0.976		-2.2	20.0
Pyrene	1.651	1.654		0.2	
Terphenyl-d14	1.221	1.218		-0.2	
Butylbenzylphthalate	0.595	0.651		9.4	
3,3-Dichlorobenzidine	0.403	0.401		-0.5	
Benzo (a) anthracene	1.284	1.263		-1.6	
Chrysene	1.202	1.168		-2.8	
Bis(2-ethylhexyl)phthalate	0.833	0.864		3.7	
Di-n-octyl phthalate	1.254	1.310		4.5	20.0
Benzo (b) fluoranthene	1.210	1.159		-4.2	
Benzo (k) fluoranthene	1.110	1.122		1.1	
Benzo (a) pyrene	0.997	0.992		-0.5	20.0
Indeno (1,2,3-cd) pyrene	1.174	1.165		-0.8	
Dibenzo (a,h) anthracene	0.966	0.952		-1.4	
Benzo (g,h,i) perylene	0.985	0.966		-1.9	
1,2,4,5-Tetrachlorobenzene	0.586	0.573		-2.2	
1,4-Dioxane	0.555	0.516		-7.0	20.0
2,3,4,6-Tetrachlorophenol	0.313	0.327		4.5	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
 Data File : BF140261.D
 Acq On : 07 Nov 2024 08:59
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDCCC040

Quant Time: Nov 07 11:25:45 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 16:47:56 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	194677	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	715714	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	419359	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	752975	20.000	ng	0.00
76) Chrysene-d12	14.069	240	445081	20.000	ng	0.00
86) Perylene-d12	15.574	264	403199	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	906997	77.209	ng	0.00
7) Phenol-d6	6.504	99	1138875	75.373	ng	0.00
23) Nitrobenzene-d5	7.445	82	1094171	76.008	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	350361	84.523	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	1977554	75.300	ng	0.00
79) Terphenyl-d14	12.998	244	2168622	79.817	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.669	88	200882	37.195	ng	97
3) Pyridine	3.434	79	506092	38.404	ng	96
4) n-Nitrosodimethylamine	3.393	42	267891	35.210	ng	90
6) Aniline	6.545	93	534368	39.144	ng	98
8) 2-Chlorophenol	6.663	128	479333	38.998	ng	98
9) Benzaldehyde	6.428	77	315403	33.887	ng	97
10) Phenol	6.522	94	607766	37.873	ng	97
11) bis(2-Chloroethyl)ether	6.616	93	471124	38.646	ng	97
12) 1,3-Dichlorobenzene	6.822	146	557420	38.700	ng	99
13) 1,4-Dichlorobenzene	6.898	146	561898	38.680	ng	99
14) 1,2-Dichlorobenzene	7.051	146	521160	38.411	ng	99
15) Benzyl Alcohol	7.016	79	452069	38.811	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.151	45	734865	37.241	ng	99
17) 2-Methylphenol	7.128	107	396285	38.649	ng	99
18) Hexachloroethane	7.392	117	210637	38.926	ng	99
19) n-Nitroso-di-n-propyla...	7.292	70	362395	37.595	ng	96
20) 3+4-Methylphenols	7.281	107	490947	38.125	ng	97
22) Acetophenone	7.287	105	672389	37.892	ng	97
24) Nitrobenzene	7.463	77	571335	37.824	ng	97
25) Isophorone	7.698	82	953132	38.453	ng	99
26) 2-Nitrophenol	7.775	139	252757	42.066	ng	97
27) 2,4-Dimethylphenol	7.810	122	325493	39.819	ng	97
28) bis(2-Chloroethoxy)met...	7.904	93	577412	38.927	ng	100
29) 2,4-Dichlorophenol	8.016	162	412164	40.758	ng	98
30) 1,2,4-Trichlorobenzene	8.098	180	480250	39.632	ng	99
31) Naphthalene	8.181	128	1422582	38.491	ng	100
32) Benzoic acid	7.922	122	288181	42.958	ng	97
33) 4-Chloroaniline	8.228	127	481974	39.613	ng	98
34) Hexachlorobutadiene	8.298	225	321442	39.190	ng	99
35) Caprolactam	8.610	113	127521	41.453	ng	93
36) 4-Chloro-3-methylphenol	8.704	107	447530	39.748	ng	98
37) 2-Methylnaphthalene	8.869	142	938464	38.907	ng	100
38) 1-Methylnaphthalene	8.969	142	914918	38.699	ng	100
40) 1,2,4,5-Tetrachloroben...	9.039	216	480933	39.174	ng	99
41) Hexachlorocyclopentadiene	9.022	237	150071	43.624	ng	97
43) 2,4,6-Trichlorophenol	9.151	196	309855	40.729	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
 Data File : BF140261.D
 Acq On : 07 Nov 2024 08:59
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDCCC040

Quant Time: Nov 07 11:25:45 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 16:47:56 2024
 Response via : Initial Calibration

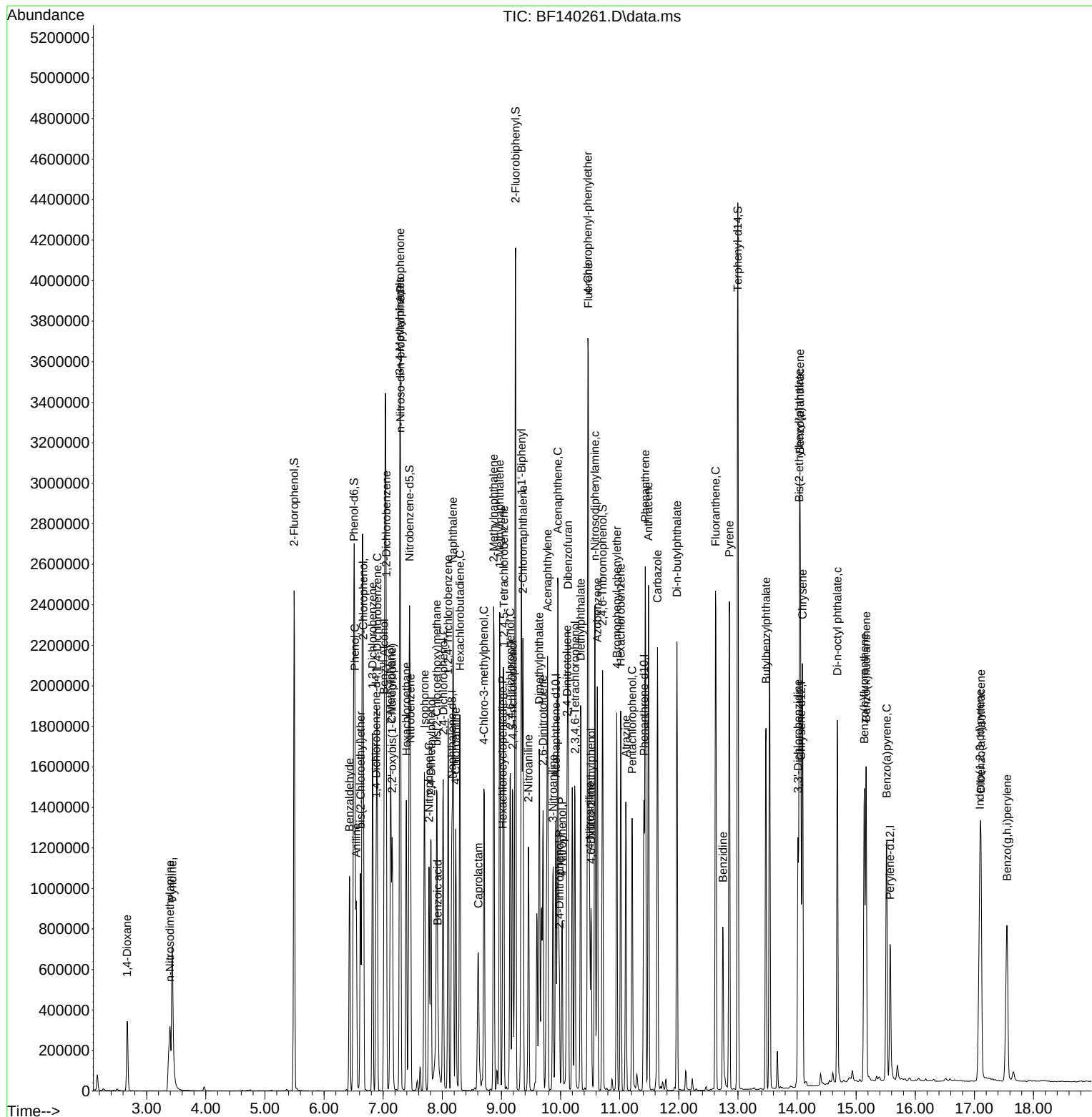
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	326707	40.843	ng	97
46) 1,1'-Biphenyl	9.339	154	1160423	38.283	ng	100
47) 2-Chloronaphthalene	9.363	162	888766	38.957	ng	99
48) 2-Nitroaniline	9.457	65	296007	38.797	ng	97
49) Acenaphthylene	9.781	152	1252730	38.784	ng	100
50) Dimethylphthalate	9.639	163	1022633	39.596	ng	100
51) 2,6-Dinitrotoluene	9.704	165	246161	40.548	ng	97
52) Acenaphthene	9.951	154	895958	39.108	ng	98
53) 3-Nitroaniline	9.875	138	228239	39.927	ng	98
54) 2,4-Dinitrophenol	9.981	184	109148	39.959	ng	87
55) Dibenzofuran	10.128	168	1256148	39.211	ng	99
56) 4-Nitrophenol	10.028	139	167108	41.576	ng	97
57) 2,4-Dinitrotoluene	10.110	165	325967	41.377	ng	94
58) Fluorene	10.469	166	979800	38.422	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	273869	41.794	ng	96
60) Diethylphthalate	10.339	149	1031656	40.197	ng	100
61) 4-Chlorophenyl-phenyle...	10.463	204	503053	39.141	ng	97
62) 4-Nitroaniline	10.492	138	230595	40.593	ng	95
63) Azobenzene	10.622	77	1019197	38.308	ng	98
65) 4,6-Dinitro-2-methylph...	10.516	198	167582	42.376	ng	98
66) n-Nitrosodiphenylamine	10.580	169	836051	38.604	ng	100
67) 4-Bromophenyl-phenylether	10.951	248	326292	40.242	ng	99
68) Hexachlorobenzene	11.016	284	370542	40.092	ng	99
69) Atrazine	11.104	200	247507	41.773	ng	98
70) Pentachlorophenol	11.210	266	218148	43.956	ng	98
71) Phenanthrene	11.433	178	1398948	38.930	ng	100
72) Anthracene	11.486	178	1346619	38.217	ng	100
73) Carbazole	11.639	167	1249878	38.820	ng	100
74) Di-n-butylphthalate	11.969	149	1531243	40.178	ng	99
75) Fluoranthene	12.622	202	1469730	39.115	ng	100
77) Benzidine	12.745	184	451274	51.858	ng	99
78) Pyrene	12.857	202	1472157	40.060	ng	99
80) Butylbenzylphthalate	13.474	149	579719	43.809	ng	95
81) Benzo(a)anthracene	14.051	228	1124424	39.366	ng	100
82) 3,3'-Dichlorobenzidine	14.016	252	356844	39.783	ng	100
83) Chrysene	14.092	228	1039746	38.872	ng	99
84) Bis(2-ethylhexyl)phtha...	14.039	149	768735	41.449	ng	99
85) Di-n-octyl phthalate	14.680	149	1165904	41.766	ng	98
87) Indeno(1,2,3-cd)pyrene	17.092	276	939217	39.684	ng	100
88) Benzo(b)fluoranthene	15.139	252	934843	38.331	ng	99
89) Benzo(k)fluoranthene	15.168	252	904586	40.421	ng	99
90) Benzo(a)pyrene	15.515	252	799772	39.774	ng	99
91) Dibenzo(a,h)anthracene	17.109	278	768014	39.442	ng	100
92) Benzo(g,h,i)perylene	17.551	276	779089	39.222	ng	99

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


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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\  
Data File : BF140261.D  
Acq On    : 07 Nov 2024  08:59  
Operator  : RC/JU  
Sample    : SSTDCCC040  
Misc      :  
ALS Vial  : 2    Sample Multiplier: 1
```

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Nov 07 11:25:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 16:47:56 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
 Data File : BF140261.D
 Acq On : 07 Nov 2024 08:59
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 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Nov 07 11:25:45 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 16:47:56 2024
 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	97	0.00
2	1,4-Dioxane	0.555	0.516	7.0	91	0.00
3	Pyridine	1.354	1.300	4.0	94	0.00
4	n-Nitrosodimethylamine	0.782	0.688	12.0	85	0.00
5 S	2-Fluorophenol	1.207	1.165	3.5	97	0.00
6	Aniline	1.402	1.372	2.1	97	0.00
7 S	Phenol-d6	1.552	1.463	5.7	95	0.00
8	2-Chlorophenol	1.263	1.231	2.5	98	0.00
9	Benzaldehyde	0.956	0.810	15.3	83	0.00
10 C	Phenol	1.649	1.561	5.3	95	0.00
11	bis(2-Chloroethyl)ether	1.252	1.210	3.4	97	0.00
12	1,3-Dichlorobenzene	1.480	1.432	3.2	98	0.00
13 C	1,4-Dichlorobenzene	1.492	1.443	3.3	98	0.00
14	1,2-Dichlorobenzene	1.394	1.339	3.9	99	0.00
15	Benzyl Alcohol	1.197	1.161	3.0	95	0.00
16	2,2'-oxybis(1-Chloropropane	2.027	1.887	6.9	93	0.00
17	2-Methylphenol	1.053	1.018	3.3	96	0.00
18	Hexachloroethane	0.556	0.541	2.7	98	0.00
19 P	n-Nitroso-di-n-propylamine	0.990	0.931	6.0	95	0.00
20	3+4-Methylphenols	1.323	1.261	4.7	96	0.00
21 I	Naphthalene-d8	1.000	1.000	0.0	97	0.00
22	Acetophenone	0.496	0.470	5.2	96	0.00
23 S	Nitrobenzene-d5	0.402	0.382	5.0	95	0.00
24	Nitrobenzene	0.422	0.399	5.5	93	0.00
25	Isophorone	0.693	0.666	3.9	96	0.00
26 C	2-Nitrophenol	0.168	0.177	-5.4	100	0.00
27	2,4-Dimethylphenol	0.228	0.227	0.4	98	0.00
28	bis(2-Chloroethoxy)methane	0.415	0.403	2.9	98	0.00
29 C	2,4-Dichlorophenol	0.283	0.288	-1.8	100	0.00
30	1,2,4-Trichlorobenzene	0.339	0.336	0.9	99	0.00
31	Naphthalene	1.033	0.994	3.8	97	0.00
32	Benzoic acid	0.187	0.201	-7.5	101	0.00
33	4-Chloroaniline	0.340	0.337	0.9	99	0.00
34 C	Hexachlorobutadiene	0.229	0.225	1.7	98	0.00
35	Caprolactam	0.086	0.089	-3.5	102	0.00
36 C	4-Chloro-3-methylphenol	0.315	0.313	0.6	97	0.00
37	2-Methylnaphthalene	0.674	0.656	2.7	99	0.00
38	1-Methylnaphthalene	0.661	0.639	3.3	98	0.00
39 I	Acenaphthene-d10	1.000	1.000	0.0	99	0.00
40	1,2,4,5-Tetrachlorobenzene	0.586	0.573	2.2	101	0.00
41 P	Hexachlorocyclopentadiene	0.164	0.179	-9.1	97	0.00
42 S	2,4,6-Tribromophenol	0.198	0.209	-5.6	107	0.00
43 C	2,4,6-Trichlorophenol	0.363	0.369	-1.7	101	0.00
44	2,4,5-Trichlorophenol	0.381	0.390	-2.4	103	0.00
45 S	2-Fluorobiphenyl	1.253	1.179	5.9	98	0.00
46	1,1'-Biphenyl	1.446	1.384	4.3	99	0.00
47	2-Chloronaphthalene	1.088	1.060	2.6	100	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
 Data File : BF140261.D
 Acq On : 07 Nov 2024 08:59
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Nov 07 11:25:45 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 16:47:56 2024
 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	0.364	0.353	3.0	95	0.00
49	Acenaphthylene	1.540	1.494	3.0	99	0.00
50	Dimethylphthalate	1.232	1.219	1.1	101	0.00
51	2,6-Dinitrotoluene	0.290	0.293	-1.0	101	0.00
52 C	Acenaphthene	1.093	1.068	2.3	100	0.00
53	3-Nitroaniline	0.273	0.272	0.4	100	0.00
54 P	2,4-Dinitrophenol	0.120	0.130	-8.3	100	0.00
55	Dibenzofuran	1.528	1.498	2.0	101	0.00
56 P	4-Nitrophenol	0.192	0.199	-3.6	97	0.00
57	2,4-Dinitrotoluene	0.376	0.389	-3.5	103	0.00
58	Fluorene	1.216	1.168	3.9	100	0.00
59	2,3,4,6-Tetrachlorophenol	0.313	0.327	-4.5	106	0.00
60	Diethylphthalate	1.224	1.230	-0.5	103	0.00
61	4-Chlorophenyl-phenylether	0.613	0.600	2.1	102	0.00
62	4-Nitroaniline	0.271	0.275	-1.5	101	0.00
63	Azobenzene	1.269	1.215	4.3	99	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	101	0.00
65	4,6-Dinitro-2-methylphenol	0.105	0.111	-5.7	103	0.00
66 c	n-Nitrosodiphenylamine	0.575	0.555	3.5	102	0.00
67	4-Bromophenyl-phenylether	0.215	0.217	-0.9	105	0.00
68	Hexachlorobenzene	0.245	0.246	-0.4	106	0.00
69	Atrazine	0.157	0.164	-4.5	107	0.00
70 C	Pentachlorophenol	0.132	0.145	-9.8	106	0.00
71	Phenanthrene	0.954	0.929	2.6	103	0.00
72	Anthracene	0.936	0.894	4.5	102	0.00
73	Carbazole	0.855	0.830	2.9	103	0.00
74	Di-n-butylphthalate	1.012	1.017	-0.5	106	0.00
75 C	Fluoranthene	0.998	0.976	2.2	104	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	99	0.00
77	Benzydine	0.391	0.507	-29.7#	103	0.00
78	Pyrene	1.651	1.654	-0.2	103	0.00
79 S	Terphenyl-d14	1.221	1.218	0.2	104	0.00
80	Butylbenzylphthalate	0.595	0.651	-9.4	108	0.00
81	Benzo(a)anthracene	1.284	1.263	1.6	102	0.00
82	3,3'-Dichlorobenzidine	0.403	0.401	0.5	95	0.00
83	Chrysene	1.202	1.168	2.8	100	0.00
84	Bis(2-ethylhexyl)phthalate	0.833	0.864	-3.7	105	0.00
85 c	Di-n-octyl phthalate	1.254	1.310	-4.5	103	0.00
86 I	Perylene-d12	1.000	1.000	0.0	95	0.01
87	Indeno(1,2,3-cd)pyrene	1.174	1.165	0.8	93	0.01
88	Benzo(b)fluoranthene	1.210	1.159	4.2	88	0.01
89	Benzo(k)fluoranthene	1.110	1.122	-1.1	104	0.01
90 C	Benzo(a)pyrene	0.997	0.992	0.5	95	0.01
91	Dibenzo(a,h)anthracene	0.966	0.952	1.4	92	0.01
92	Benzo(g,h,i)perylene	0.985	0.966	1.9	92	0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140261.D
Acq On : 07 Nov 2024 08:59
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 07 11:25:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 16:47:56 2024
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_F\Data\BF110724\
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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	97	0.00
2	1,4-Dioxane	40.000	37.195	7.0	91	0.00
3	Pyridine	40.000	38.404	4.0	94	0.00
4	n-Nitrosodimethylamine	40.000	35.210	12.0	85	0.00
5 S	2-Fluorophenol	80.000	77.209	3.5	97	0.00
6	Aniline	40.000	39.144	2.1	97	0.00
7 S	Phenol-d6	80.000	75.373	5.8	95	0.00
8	2-Chlorophenol	40.000	38.998	2.5	98	0.00
9	Benzaldehyde	40.000	33.887	15.3	83	0.00
10 C	Phenol	40.000	37.873	5.3	95	0.00
11	bis(2-Chloroethyl)ether	40.000	38.646	3.4	97	0.00
12	1,3-Dichlorobenzene	40.000	38.700	3.2	98	0.00
13 C	1,4-Dichlorobenzene	40.000	38.680	3.3	98	0.00
14	1,2-Dichlorobenzene	40.000	38.411	4.0	99	0.00
15	Benzyl Alcohol	40.000	38.811	3.0	95	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	37.241	6.9	93	0.00
17	2-Methylphenol	40.000	38.649	3.4	96	0.00
18	Hexachloroethane	40.000	38.926	2.7	98	0.00
19 P	n-Nitroso-di-n-propylamine	40.000	37.595	6.0	95	0.00
20	3+4-Methylphenols	40.000	38.125	4.7	96	0.00
21 I	Naphthalene-d8	20.000	20.000	0.0	97	0.00
22	Acetophenone	40.000	37.892	5.3	96	0.00
23 S	Nitrobenzene-d5	80.000	76.008	5.0	95	0.00
24	Nitrobenzene	40.000	37.824	5.4	93	0.00
25	Isophorone	40.000	38.453	3.9	96	0.00
26 C	2-Nitrophenol	40.000	42.066	-5.2	100	0.00
27	2,4-Dimethylphenol	40.000	39.819	0.5	98	0.00
28	bis(2-Chloroethoxy)methane	40.000	38.927	2.7	98	0.00
29 C	2,4-Dichlorophenol	40.000	40.758	-1.9	100	0.00
30	1,2,4-Trichlorobenzene	40.000	39.632	0.9	99	0.00
31	Naphthalene	40.000	38.491	3.8	97	0.00
32	Benzoic acid	40.000	42.958	-7.4	101	0.00
33	4-Chloroaniline	40.000	39.613	1.0	99	0.00
34 C	Hexachlorobutadiene	40.000	39.190	2.0	98	0.00
35	Caprolactam	40.000	41.453	-3.6	102	0.00
36 C	4-Chloro-3-methylphenol	40.000	39.748	0.6	97	0.00
37	2-Methylnaphthalene	40.000	38.907	2.7	99	0.00
38	1-Methylnaphthalene	40.000	38.699	3.3	98	0.00
39 I	Acenaphthene-d10	20.000	20.000	0.0	99	0.00
40	1,2,4,5-Tetrachlorobenzene	40.000	39.174	2.1	101	0.00
41 P	Hexachlorocyclopentadiene	40.000	43.624	-9.1	97	0.00
42 S	2,4,6-Tribromophenol	80.000	84.523	-5.7	107	0.00
43 C	2,4,6-Trichlorophenol	40.000	40.729	-1.8	101	0.00
44	2,4,5-Trichlorophenol	40.000	40.843	-2.1	103	0.00
45 S	2-Fluorobiphenyl	80.000	75.300	5.9	98	0.00
46	1,1'-Biphenyl	40.000	38.283	4.3	99	0.00
47	2-Chloronaphthalene	40.000	38.957	2.6	100	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
 Data File : BF140261.D
 Acq On : 07 Nov 2024 08:59
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
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Quant Time: Nov 07 11:25:45 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 16:47:56 2024
 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	38.797	3.0	95	0.00
49	Acenaphthylene	40.000	38.784	3.0	99	0.00
50	Dimethylphthalate	40.000	39.596	1.0	101	0.00
51	2,6-Dinitrotoluene	40.000	40.548	-1.4	101	0.00
52 C	Acenaphthene	40.000	39.108	2.2	100	0.00
53	3-Nitroaniline	40.000	39.927	0.2	100	0.00
54 P	2,4-Dinitrophenol	40.000	39.959	0.1	100	0.00
55	Dibenzofuran	40.000	39.211	2.0	101	0.00
56 P	4-Nitrophenol	40.000	41.576	-3.9	97	0.00
57	2,4-Dinitrotoluene	40.000	41.377	-3.4	103	0.00
58	Fluorene	40.000	38.422	3.9	100	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	41.794	-4.5	106	0.00
60	Diethylphthalate	40.000	40.197	-0.5	103	0.00
61	4-Chlorophenyl-phenylether	40.000	39.141	2.1	102	0.00
62	4-Nitroaniline	40.000	40.593	-1.5	101	0.00
63	Azobenzene	40.000	38.308	4.2	99	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	101	0.00
65	4,6-Dinitro-2-methylphenol	40.000	42.376	-5.9	103	0.00
66 c	n-Nitrosodiphenylamine	40.000	38.604	3.5	102	0.00
67	4-Bromophenyl-phenylether	40.000	40.242	-0.6	105	0.00
68	Hexachlorobenzene	40.000	40.092	-0.2	106	0.00
69	Atrazine	40.000	41.773	-4.4	107	0.00
70 C	Pentachlorophenol	40.000	43.956	-9.9	106	0.00
71	Phenanthrene	40.000	38.930	2.7	103	0.00
72	Anthracene	40.000	38.217	4.5	102	0.00
73	Carbazole	40.000	38.820	2.9	103	0.00
74	Di-n-butylphthalate	40.000	40.178	-0.4	106	0.00
75 C	Fluoranthene	40.000	39.115	2.2	104	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	99	0.00
77	Benzydine	40.000	51.858	-29.6#	103	0.00
78	Pyrene	40.000	40.060	-0.2	103	0.00
79 S	Terphenyl-d14	80.000	79.817	0.2	104	0.00
80	Butylbenzylphthalate	40.000	43.809	-9.5	108	0.00
81	Benzo(a)anthracene	40.000	39.366	1.6	102	0.00
82	3,3'-Dichlorobenzidine	40.000	39.783	0.5	95	0.00
83	Chrysene	40.000	38.872	2.8	100	0.00
84	Bis(2-ethylhexyl)phthalate	40.000	41.449	-3.6	105	0.00
85 c	Di-n-octyl phthalate	40.000	41.766	-4.4	103	0.00
86 I	Perylene-d12	20.000	20.000	0.0	95	0.01
87	Indeno(1,2,3-cd)pyrene	40.000	39.684	0.8	93	0.01
88	Benzo(b)fluoranthene	40.000	38.331	4.2	88	0.01
89	Benzo(k)fluoranthene	40.000	40.421	-1.1	104	0.01
90 C	Benzo(a)pyrene	40.000	39.774	0.6	95	0.01
91	Dibenzo(a,h)anthracene	40.000	39.442	1.4	92	0.01
92	Benzo(g,h,i)perylene	40.000	39.222	1.9	92	0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140261.D
Acq On : 07 Nov 2024 08:59
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 07 11:25:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 16:47:56 2024
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, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: BNA_F Calibration Date/Time: 11/14/2024 09:42

Lab File ID: BF140351.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.171	1.155		-1.4	
Benzaldehyde	0.951	0.837		-12.0	
Phenol-d6	1.587	1.544		-2.7	
Phenol	1.674	1.661		-0.8	20.0
bis(2-Chloroethyl)ether	1.268	1.235		-2.6	
2-Chlorophenol	1.258	1.240		-1.4	
2-Methylphenol	1.035	1.025		-1.0	
2,2-oxybis(1-Chloropropane)	1.752	1.728		-1.4	
Acetophenone	0.465	0.458		-1.5	
3+4-Methylphenols	1.295	1.274		-1.6	
n-Nitroso-di-n-propylamine	0.959	0.924	0.050	-3.7	
Nitrobenzene-d5	0.384	0.378		-1.6	
Hexachloroethane	0.520	0.513		-1.3	
Nitrobenzene	0.400	0.400		0.0	
Isophorone	0.680	0.659		-3.1	
2-Nitrophenol	0.177	0.182		2.8	20.0
2,4-Dimethylphenol	0.227	0.225		-0.9	
bis(2-Chloroethoxy)methane	0.417	0.409		-1.9	
2,4-Dichlorophenol	0.281	0.283		0.7	20.0
Naphthalene	1.015	0.996		-1.9	
4-Chloroaniline	0.353	0.336		-4.8	
Hexachlorobutadiene	0.199	0.201		1.0	20.0
Caprolactam	0.093	0.093		0.0	
4-Chloro-3-methylphenol	0.311	0.310		-0.3	20.0
2-Methylnaphthalene	0.651	0.642		-1.4	
Hexachlorocyclopentadiene	0.142	0.145	0.050	2.1	
2,4,6-Trichlorophenol	0.363	0.371		2.2	20.0
2-Fluorobiphenyl	1.244	1.208		-2.9	
2,4,5-Trichlorophenol	0.397	0.392		-1.3	
1,1-Biphenyl	1.455	1.432		-1.6	
2-Chloronaphthalene	1.108	1.084		-2.2	
2-Nitroaniline	0.368	0.361		-1.9	
Dimethylphthalate	1.304	1.276		-2.1	
Acenaphthylene	1.677	1.653		-1.5	
2,6-Dinitrotoluene	0.297	0.295		-0.7	
3-Nitroaniline	0.312	0.311		-0.3	
Acenaphthene	1.133	1.111		-1.9	20.0
2,4-Dinitrophenol	0.153	0.148	0.050	-3.3	
4-Nitrophenol	0.228	0.231	0.050	1.3	



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: BNA_F Calibration Date/Time: 11/14/2024 09:42

Lab File ID: BF140351.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.603	1.580		-1.4	
2,4-Dinitrotoluene	0.391	0.398		1.8	
Diethylphthalate	1.333	1.296		-2.8	
4-Chlorophenyl-phenylether	0.625	0.617		-1.3	
Fluorene	1.267	1.226		-3.2	
4-Nitroaniline	0.319	0.315		-1.3	
4,6-Dinitro-2-methylphenol	0.108	0.112		3.7	
n-Nitrosodiphenylamine	0.578	0.561		-2.9	20.0
2,4,6-Tribromophenol	0.199	0.193		-3.0	
4-Bromophenyl-phenylether	0.200	0.194		-3.0	
Hexachlorobenzene	0.225	0.220		-2.2	
Atrazine	0.175	0.163		-6.9	
Pentachlorophenol	0.121	0.124		2.5	20.0
Phenanthrene	0.940	0.898		-4.5	
Anthracene	0.921	0.904		-1.8	
Carbazole	0.909	0.882		-3.0	
Di-n-butylphthalate	1.091	1.078		-1.2	
Fluoranthene	1.054	1.005		-4.6	20.0
Pyrene	1.711	1.794		4.9	
Terphenyl-d14	1.152	1.182		2.6	
Butylbenzylphthalate	0.657	0.714		8.7	
3,3-Dichlorobenzidine	0.418	0.406		-2.9	
Benzo (a) anthracene	1.314	1.285		-2.2	
Chrysene	1.199	1.151		-4.0	
Bis(2-ethylhexyl)phthalate	0.877	0.945		7.8	
Di-n-octyl phthalate	1.235	1.259		1.9	20.0
Benzo (b) fluoranthene	1.308	1.183		-9.6	
Benzo (k) fluoranthene	1.069	1.083		1.3	
Benzo (a) pyrene	1.016	1.001		-1.5	20.0
Indeno (1,2,3-cd) pyrene	1.235	1.314		6.4	
Dibenzo (a,h) anthracene	1.021	1.090		6.8	
Benzo (g,h,i) perylene	1.044	1.103		5.7	
1,2,4,5-Tetrachlorobenzene	0.553	0.537		-2.9	
1,4-Dioxane	0.522	0.522		0.0	20.0
2,3,4,6-Tetrachlorophenol	0.313	0.315		0.6	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
 Data File : BF140351.D
 Acq On : 14 Nov 2024 09:42
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDCCC040

Quant Time: Nov 14 10:49:11 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	138532	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	520272	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	291630	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	549011	20.000	ng	0.00
76) Chrysene-d12	14.057	240	316250	20.000	ng	0.00
86) Perylene-d12	15.557	264	275847	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	639881	78.864	ng	0.00
7) Phenol-d6	6.504	99	855807	77.852	ng	0.00
23) Nitrobenzene-d5	7.440	82	787316	78.846	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	225253	77.673	ng	0.00
45) 2-Fluorobiphenyl	9.234	172	1409196	77.679	ng	0.00
79) Terphenyl-d14	12.986	244	1494884	82.049	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.634	88	144594	39.985	ng	99
3) Pyridine	3.399	79	362585	40.785	ng	99
4) n-Nitrosodimethylamine	3.352	42	175136	38.978	ng	99
6) Aniline	6.540	93	384465	40.205	ng	99
8) 2-Chlorophenol	6.663	128	343424	39.403	ng	99
9) Benzaldehyde	6.428	77	231965	35.208	ng	100
10) Phenol	6.516	94	460271	39.703	ng	99
11) bis(2-Chloroethyl)ether	6.616	93	342122	38.949	ng	99
12) 1,3-Dichlorobenzene	6.816	146	380915	39.611	ng	98
13) 1,4-Dichlorobenzene	6.898	146	382877	39.266	ng	100
14) 1,2-Dichlorobenzene	7.051	146	361199	39.902	ng	99
15) Benzyl Alcohol	7.016	79	313822	39.624	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	478787	39.462	ng	100
17) 2-Methylphenol	7.128	107	283968	39.606	ng	99
18) Hexachloroethane	7.387	117	142204	39.449	ng	96
19) n-Nitroso-di-n-propyla...	7.287	70	256144	38.581	ng	99
20) 3+4-Methylphenols	7.281	107	352853	39.352	ng	94
22) Acetophenone	7.287	105	476725	39.397	ng	97
24) Nitrobenzene	7.457	77	416464	40.058	ng	98
25) Isophorone	7.698	82	685604	38.741	ng	99
26) 2-Nitrophenol	7.775	139	189392	41.051	ng	99
27) 2,4-Dimethylphenol	7.804	122	234485	39.699	ng	98
28) bis(2-Chloroethoxy)met...	7.904	93	425968	39.254	ng	100
29) 2,4-Dichlorophenol	8.016	162	294906	40.399	ng	98
30) 1,2,4-Trichlorobenzene	8.098	180	327244	40.266	ng	98
31) Naphthalene	8.181	128	1036330	39.266	ng	100
32) Benzoic acid	7.922	122	206516	39.735	ng	98
33) 4-Chloroaniline	8.228	127	349732	38.103	ng	100
34) Hexachlorobutadiene	8.298	225	208838	40.331	ng	99
35) Caprolactam	8.598	113	97090	40.017	ng	96
36) 4-Chloro-3-methylphenol	8.704	107	322778	39.901	ng	100
37) 2-Methylnaphthalene	8.869	142	667845	39.463	ng	99
38) 1-Methylnaphthalene	8.969	142	648867	39.154	ng	98
40) 1,2,4,5-Tetrachloroben...	9.034	216	313280	38.847	ng	99
41) Hexachlorocyclopentadiene	9.022	237	84495	40.807	ng	100
43) 2,4,6-Trichlorophenol	9.145	196	216432	40.894	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
 Data File : BF140351.D
 Acq On : 14 Nov 2024 09:42
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDCCC040

Quant Time: Nov 14 10:49:11 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 Response via : Initial Calibration

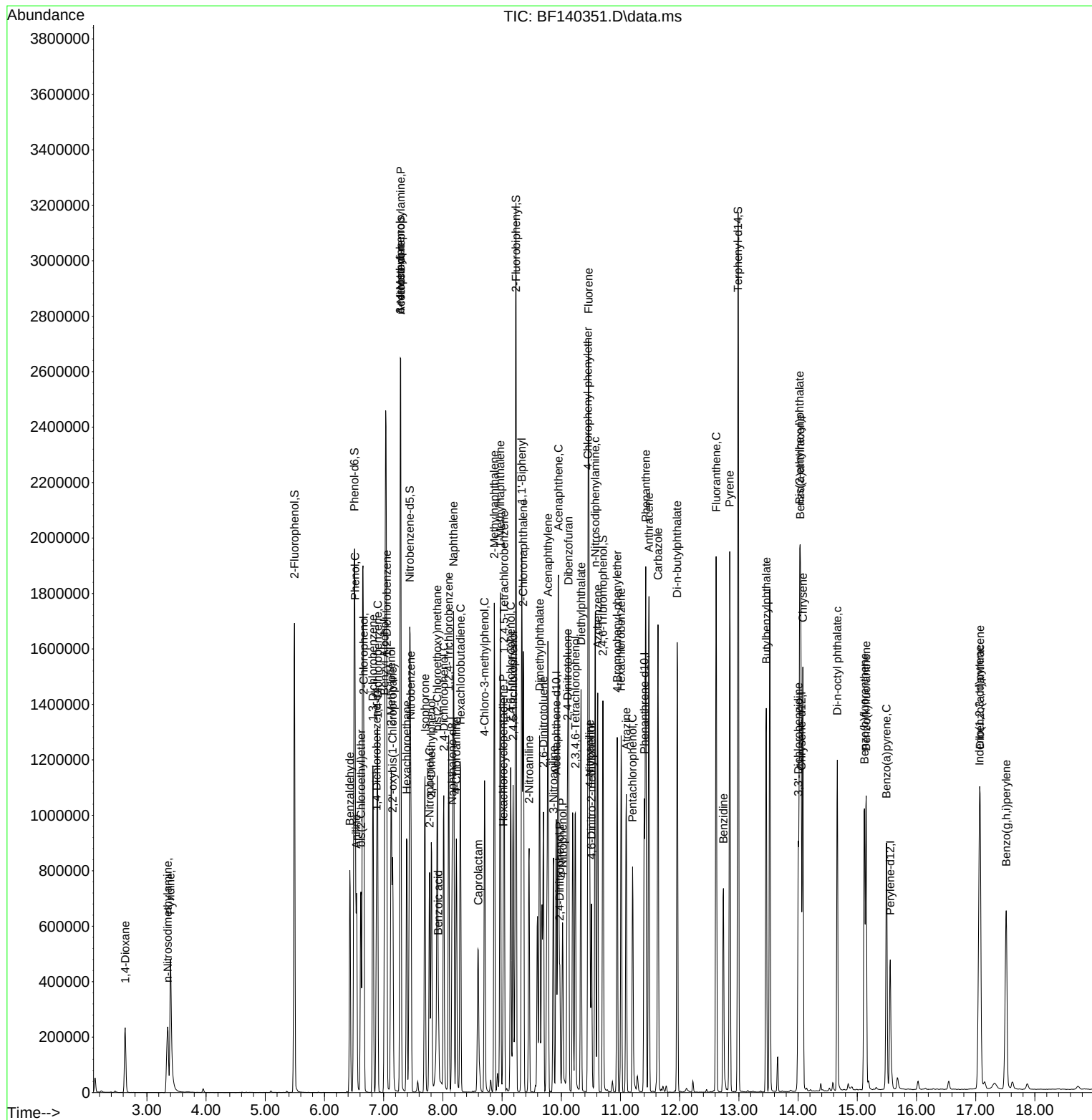
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	228481	39.486	ng	98
46) 1,1'-Biphenyl	9.334	154	835237	39.368	ng	100
47) 2-Chloronaphthalene	9.357	162	632477	39.135	ng	99
48) 2-Nitroaniline	9.457	65	210803	39.330	ng	99
49) Acenaphthylene	9.775	152	963837	39.417	ng	100
50) Dimethylphthalate	9.633	163	744167	39.149	ng	100
51) 2,6-Dinitrotoluene	9.698	165	171941	39.677	ng	99
52) Acenaphthene	9.951	154	647920	39.231	ng	99
53) 3-Nitroaniline	9.869	138	181248	39.826	ng	98
54) 2,4-Dinitrophenol	9.975	184	86464	38.691	ng	99
55) Dibenzofuran	10.122	168	921536	39.416	ng	99
56) 4-Nitrophenol	10.022	139	134485	40.513	ng	99
57) 2,4-Dinitrotoluene	10.104	165	232041	40.685	ng	99
58) Fluorene	10.463	166	715224	38.724	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	183689	40.205	ng	99
60) Diethylphthalate	10.333	149	755621	38.875	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	359992	39.480	ng	99
62) 4-Nitroaniline	10.480	138	183794	39.497	ng	99
63) Azobenzene	10.616	77	744733	38.778	ng	100
65) 4,6-Dinitro-2-methylph...	10.510	198	122579	41.499	ng	99
66) n-Nitrosodiphenylamine	10.575	169	616531	38.866	ng	100
67) 4-Bromophenyl-phenylether	10.945	248	213545	38.911	ng	99
68) Hexachlorobenzene	11.010	284	241224	39.066	ng	99
69) Atrazine	11.098	200	179476	37.397	ng	100
70) Pentachlorophenol	11.204	266	136219	40.954	ng	99
71) Phenanthrene	11.428	178	985580	38.216	ng	100
72) Anthracene	11.480	178	992694	39.274	ng	99
73) Carbazole	11.633	167	968040	38.788	ng	99
74) Di-n-butylphthalate	11.957	149	1183493	39.510	ng	99
75) Fluoranthene	12.616	202	1103393	38.134	ng	100
77) Benzidine	12.739	184	425256	35.035	ng	99
78) Pyrene	12.845	202	1134753	41.949	ng	100
80) Butylbenzylphthalate	13.463	149	451835	43.480	ng	97
81) Benzo(a)anthracene	14.039	228	813068	39.119	ng	100
82) 3,3'-Dichlorobenzidine	14.004	252	256655	38.849	ng	100
83) Chrysene	14.080	228	728250	38.401	ng	100
84) Bis(2-ethylhexyl)phtha...	14.027	149	597674	43.089	ng	98
85) Di-n-octyl phthalate	14.663	149	796171	40.756	ng	100
87) Indeno(1,2,3-cd)pyrene	17.062	276	725127	42.555	ng	99
88) Benzo(b)fluoranthene	15.121	252	652602	36.166	ng	99
89) Benzo(k)fluoranthene	15.151	252	597715	40.548	ng	100
90) Benzo(a)pyrene	15.492	252	552170	39.405	ng	99
91) Dibenzo(a,h)anthracene	17.074	278	601445	42.701	ng	99
92) Benzo(g,h,i)perylene	17.515	276	608566	42.263	ng	100

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
 Data File : BF140351.D
 Acq On : 14 Nov 2024 09:42
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDCCC040

Quant Time: Nov 14 10:49:11 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
 Data File : BF140351.D
 Acq On : 14 Nov 2024 09:42
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Nov 14 10:49:11 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 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	0.522	0.522	0.0	95	0.00
3	Pyridine	1.283	1.309	-2.0	94	0.00
4	n-Nitrosodimethylamine	0.649	0.632	2.6	90	0.00
5 S	2-Fluorophenol	1.171	1.155	1.4	95	0.00
6	Aniline	1.381	1.388	-0.5	90	0.00
7 S	Phenol-d6	1.587	1.544	2.7	91	0.00
8	2-Chlorophenol	1.258	1.240	1.4	92	0.00
9	Benzaldehyde	0.951	0.837	12.0	88	0.00
10 C	Phenol	1.674	1.661	0.8	91	0.00
11	bis(2-Chloroethyl)ether	1.268	1.235	2.6	92	0.00
12	1,3-Dichlorobenzene	1.388	1.375	0.9	94	0.00
13 C	1,4-Dichlorobenzene	1.408	1.382	1.8	94	0.00
14	1,2-Dichlorobenzene	1.307	1.304	0.2	95	0.00
15	Benzyl Alcohol	1.143	1.133	0.9	88	0.00
16	2,2'-oxybis(1-Chloropropane	1.752	1.728	1.4	90	0.00
17	2-Methylphenol	1.035	1.025	1.0	91	0.00
18	Hexachloroethane	0.520	0.513	1.3	94	0.00
19 P	n-Nitroso-di-n-propylamine	0.959	0.924	3.6	89	0.00
20	3+4-Methylphenols	1.294	1.274	1.5	89	0.00
21 I	Naphthalene-d8	1.000	1.000	0.0	88	0.00
22	Acetophenone	0.465	0.458	1.5	90	0.00
23 S	Nitrobenzene-d5	0.384	0.378	1.6	89	0.00
24	Nitrobenzene	0.400	0.400	0.0	90	0.00
25	Isophorone	0.680	0.659	3.1	86	0.00
26 C	2-Nitrophenol	0.177	0.182	-2.8	90	0.00
27	2,4-Dimethylphenol	0.227	0.225	0.9	89	0.00
28	bis(2-Chloroethoxy)methane	0.417	0.409	1.9	89	0.00
29 C	2,4-Dichlorophenol	0.281	0.283	-0.7	91	0.00
30	1,2,4-Trichlorobenzene	0.312	0.314	-0.6	92	0.00
31	Naphthalene	1.015	0.996	1.9	90	0.00
32	Benzoic acid	0.200	0.198	1.0	83	0.00
33	4-Chloroaniline	0.353	0.336	4.8	87	0.00
34 C	Hexachlorobutadiene	0.199	0.201	-1.0	92	0.00
35	Caprolactam	0.093	0.093	0.0	90	0.00
36 C	4-Chloro-3-methylphenol	0.311	0.310	0.3	89	0.00
37	2-Methylnaphthalene	0.651	0.642	1.4	90	0.00
38	1-Methylnaphthalene	0.637	0.624	2.0	88	0.00
39 I	Acenaphthene-d10	1.000	1.000	0.0	87	0.00
40	1,2,4,5-Tetrachlorobenzene	0.553	0.537	2.9	88	0.00
41 P	Hexachlorocyclopentadiene	0.142	0.145	-2.1	91	0.00
42 S	2,4,6-Tribromophenol	0.199	0.193	3.0	87	0.00
43 C	2,4,6-Trichlorophenol	0.363	0.371	-2.2	90	0.00
44	2,4,5-Trichlorophenol	0.397	0.392	1.3	88	0.00
45 S	2-Fluorobiphenyl	1.244	1.208	2.9	90	0.00
46	1,1'-Biphenyl	1.455	1.432	1.6	89	0.00
47	2-Chloronaphthalene	1.108	1.084	2.2	89	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
 Data File : BF140351.D
 Acq On : 14 Nov 2024 09:42
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Nov 14 10:49:11 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 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	0.368	0.361	1.9	87	0.00
49	Acenaphthylene	1.677	1.652	1.5	88	0.00
50	Dimethylphthalate	1.304	1.276	2.1	88	0.00
51	2,6-Dinitrotoluene	0.297	0.295	0.7	86	0.00
52 C	Acenaphthene	1.133	1.111	1.9	88	0.00
53	3-Nitroaniline	0.312	0.311	0.3	87	0.00
54 P	2,4-Dinitrophenol	0.153	0.148	3.3	88	0.00
55	Dibenzofuran	1.603	1.580	1.4	88	0.00
56 P	4-Nitrophenol	0.228	0.231	-1.3	85	0.00
57	2,4-Dinitrotoluene	0.391	0.398	-1.8	90	0.00
58	Fluorene	1.267	1.226	3.2	89	0.00
59	2,3,4,6-Tetrachlorophenol	0.313	0.315	-0.6	86	0.00
60	Diethylphthalate	1.333	1.296	2.8	88	0.00
61	4-Chlorophenyl-phenylether	0.625	0.617	1.3	89	0.00
62	4-Nitroaniline	0.319	0.315	1.3	86	0.00
63	Azobenzene	1.317	1.277	3.0	86	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	87	0.00
65	4,6-Dinitro-2-methylphenol	0.108	0.112	-3.7	90	0.00
66 c	n-Nitrosodiphenylamine	0.578	0.561	2.9	88	0.00
67	4-Bromophenyl-phenylether	0.200	0.194	3.0	88	0.00
68	Hexachlorobenzene	0.225	0.220	2.2	88	0.00
69	Atrazine	0.175	0.163	6.9	99	0.00
70 C	Pentachlorophenol	0.121	0.124	-2.5	85	0.00
71	Phenanthrene	0.940	0.898	4.5	87	0.00
72	Anthracene	0.921	0.904	1.8	89	0.00
73	Carbazole	0.909	0.882	3.0	88	0.00
74	Di-n-butylphthalate	1.091	1.078	1.2	88	0.00
75 C	Fluoranthene	1.054	1.005	4.6	86	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	82	0.00
77	Benzydine	0.768	0.672	12.5	84	0.00
78	Pyrene	1.711	1.794	-4.9	88	0.00
79 S	Terphenyl-d14	1.152	1.182	-2.6	86	0.00
80	Butylbenzylphthalate	0.657	0.714	-8.7	85	0.00
81	Benzo(a)anthracene	1.314	1.285	2.2	83	0.00
82	3,3'-Dichlorobenzidine	0.418	0.406	2.9	83	0.00
83	Chrysene	1.199	1.151	4.0	81	0.00
84	Bis(2-ethylhexyl)phthalate	0.877	0.945	-7.8	84	0.00
85 c	Di-n-octyl phthalate	1.235	1.259	-1.9	80	0.00
86 I	Perylene-d12	1.000	1.000	0.0	86	0.00
87	Indeno(1,2,3-cd)pyrene	1.235	1.314	-6.4	89	0.00
88	Benzo(b)fluoranthene	1.308	1.183	9.6	80	0.00
89	Benzo(k)fluoranthene	1.069	1.083	-1.3	87	0.00
90 C	Benzo(a)pyrene	1.016	1.001	1.5	85	0.00
91	Dibenzo(a,h)anthracene	1.021	1.090	-6.8	90	0.00
92	Benzo(g,h,i)perylene	1.044	1.103	-5.7	89	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140351.D
Acq On : 14 Nov 2024 09:42
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 14 10:49:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
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_F\Data\BF111424\
 Data File : BF140351.D
 Acq On : 14 Nov 2024 09:42
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
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Instrument :
 BNA_F
 LabSampleId :
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Quant Time: Nov 14 10:49:11 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 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	39.985	0.0	95	0.00
3	Pyridine	40.000	40.785	-2.0	94	0.00
4	n-Nitrosodimethylamine	40.000	38.978	2.6	90	0.00
5 S	2-Fluorophenol	80.000	78.864	1.4	95	0.00
6	Aniline	40.000	40.205	-0.5	90	0.00
7 S	Phenol-d6	80.000	77.852	2.7	91	0.00
8	2-Chlorophenol	40.000	39.403	1.5	92	0.00
9	Benzaldehyde	40.000	35.208	12.0	88	0.00
10 C	Phenol	40.000	39.703	0.7	91	0.00
11	bis(2-Chloroethyl)ether	40.000	38.949	2.6	92	0.00
12	1,3-Dichlorobenzene	40.000	39.611	1.0	94	0.00
13 C	1,4-Dichlorobenzene	40.000	39.266	1.8	94	0.00
14	1,2-Dichlorobenzene	40.000	39.902	0.2	95	0.00
15	Benzyl Alcohol	40.000	39.624	0.9	88	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	39.462	1.3	90	0.00
17	2-Methylphenol	40.000	39.606	1.0	91	0.00
18	Hexachloroethane	40.000	39.449	1.4	94	0.00
19 P	n-Nitroso-di-n-propylamine	40.000	38.581	3.5	89	0.00
20	3+4-Methylphenols	40.000	39.352	1.6	89	0.00
21 I	Naphthalene-d8	20.000	20.000	0.0	88	0.00
22	Acetophenone	40.000	39.397	1.5	90	0.00
23 S	Nitrobenzene-d5	80.000	78.846	1.4	89	0.00
24	Nitrobenzene	40.000	40.058	-0.1	90	0.00
25	Isophorone	40.000	38.741	3.1	86	0.00
26 C	2-Nitrophenol	40.000	41.051	-2.6	90	0.00
27	2,4-Dimethylphenol	40.000	39.699	0.8	89	0.00
28	bis(2-Chloroethoxy)methane	40.000	39.254	1.9	89	0.00
29 C	2,4-Dichlorophenol	40.000	40.399	-1.0	91	0.00
30	1,2,4-Trichlorobenzene	40.000	40.266	-0.7	92	0.00
31	Naphthalene	40.000	39.266	1.8	90	0.00
32	Benzoic acid	40.000	39.735	0.7	83	0.00
33	4-Chloroaniline	40.000	38.103	4.7	87	0.00
34 C	Hexachlorobutadiene	40.000	40.331	-0.8	92	0.00
35	Caprolactam	40.000	40.017	-0.0	90	0.00
36 C	4-Chloro-3-methylphenol	40.000	39.901	0.2	89	0.00
37	2-Methylnaphthalene	40.000	39.463	1.3	90	0.00
38	1-Methylnaphthalene	40.000	39.154	2.1	88	0.00
39 I	Acenaphthene-d10	20.000	20.000	0.0	87	0.00
40	1,2,4,5-Tetrachlorobenzene	40.000	38.847	2.9	88	0.00
41 P	Hexachlorocyclopentadiene	40.000	40.807	-2.0	91	0.00
42 S	2,4,6-Tribromophenol	80.000	77.673	2.9	87	0.00
43 C	2,4,6-Trichlorophenol	40.000	40.894	-2.2	90	0.00
44	2,4,5-Trichlorophenol	40.000	39.486	1.3	88	0.00
45 S	2-Fluorobiphenyl	80.000	77.679	2.9	90	0.00
46	1,1'-Biphenyl	40.000	39.368	1.6	89	0.00
47	2-Chloronaphthalene	40.000	39.135	2.2	89	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
 Data File : BF140351.D
 Acq On : 14 Nov 2024 09:42
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Nov 14 10:49:11 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 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	39.330	1.7	87	0.00
49	Acenaphthylene	40.000	39.417	1.5	88	0.00
50	Dimethylphthalate	40.000	39.149	2.1	88	0.00
51	2,6-Dinitrotoluene	40.000	39.677	0.8	86	0.00
52 C	Acenaphthene	40.000	39.231	1.9	88	0.00
53	3-Nitroaniline	40.000	39.826	0.4	87	0.00
54 P	2,4-Dinitrophenol	40.000	38.691	3.3	88	0.00
55	Dibenzofuran	40.000	39.416	1.5	88	0.00
56 P	4-Nitrophenol	40.000	40.513	-1.3	85	0.00
57	2,4-Dinitrotoluene	40.000	40.685	-1.7	90	0.00
58	Fluorene	40.000	38.724	3.2	89	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	40.205	-0.5	86	0.00
60	Diethylphthalate	40.000	38.875	2.8	88	0.00
61	4-Chlorophenyl-phenylether	40.000	39.480	1.3	89	0.00
62	4-Nitroaniline	40.000	39.497	1.3	86	0.00
63	Azobenzene	40.000	38.778	3.1	86	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	87	0.00
65	4,6-Dinitro-2-methylphenol	40.000	41.499	-3.7	90	0.00
66 c	n-Nitrosodiphenylamine	40.000	38.866	2.8	88	0.00
67	4-Bromophenyl-phenylether	40.000	38.911	2.7	88	0.00
68	Hexachlorobenzene	40.000	39.066	2.3	88	0.00
69	Atrazine	40.000	37.397	6.5	99	0.00
70 C	Pentachlorophenol	40.000	40.954	-2.4	85	0.00
71	Phenanthrene	40.000	38.216	4.5	87	0.00
72	Anthracene	40.000	39.274	1.8	89	0.00
73	Carbazole	40.000	38.788	3.0	88	0.00
74	Di-n-butylphthalate	40.000	39.510	1.2	88	0.00
75 C	Fluoranthene	40.000	38.134	4.7	86	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	82	0.00
77	Benzydine	40.000	35.035	12.4	84	0.00
78	Pyrene	40.000	41.949	-4.9	88	0.00
79 S	Terphenyl-d14	80.000	82.049	-2.6	86	0.00
80	Butylbenzylphthalate	40.000	43.480	-8.7	85	0.00
81	Benzo(a)anthracene	40.000	39.119	2.2	83	0.00
82	3,3'-Dichlorobenzidine	40.000	38.849	2.9	83	0.00
83	Chrysene	40.000	38.401	4.0	81	0.00
84	Bis(2-ethylhexyl)phthalate	40.000	43.089	-7.7	84	0.00
85 c	Di-n-octyl phthalate	40.000	40.756	-1.9	80	0.00
86 I	Perylene-d12	20.000	20.000	0.0	86	0.00
87	Indeno(1,2,3-cd)pyrene	40.000	42.555	-6.4	89	0.00
88	Benzo(b)fluoranthene	40.000	36.166	9.6	80	0.00
89	Benzo(k)fluoranthene	40.000	40.548	-1.4	87	0.00
90 C	Benzo(a)pyrene	40.000	39.405	1.5	85	0.00
91	Dibenzo(a,h)anthracene	40.000	42.701	-6.8	90	0.00
92	Benzo(g,h,i)perylene	40.000	42.263	-5.7	89	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140351.D
Acq On : 14 Nov 2024 09:42
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 14 10:49:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
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, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: BNA_F Calibration Date/Time: 11/14/2024 17:02

Lab File ID: BF140366.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.171	1.188		1.5	
Benzaldehyde	0.951	0.861		-9.5	
Phenol-d6	1.587	1.578		-0.6	
Phenol	1.674	1.678		0.2	20.0
bis(2-Chloroethyl)ether	1.268	1.243		-2.0	
2-Chlorophenol	1.258	1.256		-0.2	
2-Methylphenol	1.035	1.033		-0.2	
2,2-oxybis(1-Chloropropane)	1.752	1.678		-4.2	
Acetophenone	0.465	0.463		-0.4	
3+4-Methylphenols	1.295	1.288		-0.5	
n-Nitroso-di-n-propylamine	0.959	0.909	0.050	-5.2	
Nitrobenzene-d5	0.384	0.381		-0.8	
Hexachloroethane	0.520	0.504		-3.1	
Nitrobenzene	0.400	0.401		0.3	
Isophorone	0.680	0.661		-2.8	
2-Nitrophenol	0.177	0.178		0.6	20.0
2,4-Dimethylphenol	0.227	0.227		0.0	
bis(2-Chloroethoxy)methane	0.417	0.404		-3.1	
2,4-Dichlorophenol	0.281	0.281		0.0	20.0
Naphthalene	1.015	1.009		-0.6	
4-Chloroaniline	0.353	0.327		-7.4	
Hexachlorobutadiene	0.199	0.195		-2.0	20.0
Caprolactam	0.093	0.094		1.1	
4-Chloro-3-methylphenol	0.311	0.311		0.0	20.0
2-Methylnaphthalene	0.651	0.642		-1.4	
Hexachlorocyclopentadiene	0.142	0.133	0.050	-6.3	
2,4,6-Trichlorophenol	0.363	0.368		1.4	20.0
2-Fluorobiphenyl	1.244	1.231		-1.0	
2,4,5-Trichlorophenol	0.397	0.409		3.0	
1,1-Biphenyl	1.455	1.467		0.8	
2-Chloronaphthalene	1.108	1.111		0.3	
2-Nitroaniline	0.368	0.374		1.6	
Dimethylphthalate	1.304	1.272		-2.5	
Acenaphthylene	1.677	1.672		-0.3	
2,6-Dinitrotoluene	0.297	0.303		2.0	
3-Nitroaniline	0.312	0.313		0.3	
Acenaphthene	1.133	1.135		0.2	20.0
2,4-Dinitrophenol	0.153	0.154	0.050	0.7	
4-Nitrophenol	0.228	0.236	0.050	3.5	



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: BNA_F Calibration Date/Time: 11/14/2024 17:02

Lab File ID: BF140366.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.603	1.616		0.8	
2,4-Dinitrotoluene	0.391	0.397		1.5	
Diethylphthalate	1.333	1.281		-3.9	
4-Chlorophenyl-phenylether	0.625	0.604		-3.4	
Fluorene	1.267	1.256		-0.9	
4-Nitroaniline	0.319	0.328		2.8	
4,6-Dinitro-2-methylphenol	0.108	0.114		5.6	
n-Nitrosodiphenylamine	0.578	0.569		-1.6	20.0
2,4,6-Tribromophenol	0.199	0.200		0.5	
4-Bromophenyl-phenylether	0.200	0.193		-3.5	
Hexachlorobenzene	0.225	0.223		-0.9	
Atrazine	0.175	0.164		-6.3	
Pentachlorophenol	0.121	0.124		2.5	20.0
Phenanthrene	0.940	0.926		-1.5	
Anthracene	0.921	0.905		-1.7	
Carbazole	0.909	0.912		0.3	
Di-n-butylphthalate	1.091	1.021		-6.4	
Fluoranthene	1.054	1.029		-2.4	20.0
Pyrene	1.711	1.783		4.2	
Terphenyl-d14	1.152	1.148		-0.3	
Butylbenzylphthalate	0.657	0.642		-2.3	
3,3-Dichlorobenzidine	0.418	0.409		-2.2	
Benzo (a) anthracene	1.314	1.308		-0.5	
Chrysene	1.199	1.156		-3.6	
Bis(2-ethylhexyl)phthalate	0.877	0.791		-9.8	
Di-n-octyl phthalate	1.235	1.083		-12.3	20.0
Benzo (b) fluoranthene	1.308	1.240		-5.2	
Benzo (k) fluoranthene	1.069	1.043		-2.4	
Benzo (a) pyrene	1.016	1.000		-1.6	20.0
Indeno (1,2,3-cd) pyrene	1.235	1.295		4.9	
Dibenzo (a,h) anthracene	1.021	1.058		3.6	
Benzo (g,h,i) perylene	1.044	1.108		6.1	
1,2,4,5-Tetrachlorobenzene	0.553	0.555		0.4	
1,4-Dioxane	0.522	0.547		4.8	20.0
2,3,4,6-Tetrachlorophenol	0.313	0.320		2.2	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
 Data File : BF140366.D
 Acq On : 14 Nov 2024 17:02
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDCCC040

Quant Time: Nov 15 00:26:39 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	130579	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	484942	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	265027	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	494420	20.000	ng	0.00
76) Chrysene-d12	14.062	240	287889	20.000	ng	0.01
86) Perylene-d12	15.592	264	258896	20.000	ng	0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	620529	81.137	ng	0.00
7) Phenol-d6	6.504	99	824375	79.560	ng	0.00
23) Nitrobenzene-d5	7.439	82	740018	79.508	ng	0.00
42) 2,4,6-Tribromophenol	10.698	330	211524	80.260	ng	0.00
45) 2-Fluorobiphenyl	9.227	172	1304500	79.126	ng	0.00
79) Terphenyl-d14	12.986	244	1322468	79.737	ng	0.00
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	2.634	88	142931	41.932	ng	99
3) Pyridine	3.398	79	341136	40.709	ng	99
4) n-Nitrosodimethylamine	3.351	42	170660	40.295	ng	98
6) Aniline	6.539	93	366954	40.711	ng	97
8) 2-Chlorophenol	6.663	128	328140	39.943	ng	97
9) Benzaldehyde	6.428	77	224764	36.193	ng	99
10) Phenol	6.516	94	438278	40.109	ng	99
11) bis(2-Chloroethyl)ether	6.610	93	324570	39.201	ng	99
12) 1,3-Dichlorobenzene	6.816	146	361421	39.873	ng	99
13) 1,4-Dichlorobenzene	6.892	146	362191	39.407	ng	99
14) 1,2-Dichlorobenzene	7.045	146	341302	40.001	ng	99
15) Benzyl Alcohol	7.016	79	300203	40.213	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.145	45	438212	38.318	ng	98
17) 2-Methylphenol	7.122	107	269885	39.935	ng	99
18) Hexachloroethane	7.386	117	131631	38.740	ng	99
19) n-Nitroso-di-n-propyla...	7.286	70	237407	37.936	ng	99
20) 3+4-Methylphenols	7.275	107	336358	39.798	ng	99
22) Acetophenone	7.281	105	448649	39.778	ng	99
24) Nitrobenzene	7.457	77	388560	40.097	ng	100
25) Isophorone	7.692	82	641082	38.864	ng	100
26) 2-Nitrophenol	7.769	139	172692	40.158	ng	97
27) 2,4-Dimethylphenol	7.804	122	220557	40.061	ng	98
28) bis(2-Chloroethoxy)met...	7.904	93	391929	38.749	ng	99
29) 2,4-Dichlorophenol	8.010	162	272161	40.000	ng	99
30) 1,2,4-Trichlorobenzene	8.098	180	302881	39.983	ng	99
31) Naphthalene	8.175	128	978565	39.779	ng	100
32) Benzoic acid	7.916	122	192803	39.799	ng	96
33) 4-Chloroaniline	8.228	127	317418	37.102	ng	100
34) Hexachlorobutadiene	8.292	225	189276	39.216	ng	99
35) Caprolactam	8.592	113	90934	40.211	ng	98
36) 4-Chloro-3-methylphenol	8.704	107	301671	40.008	ng	99
37) 2-Methylnaphthalene	8.869	142	623118	39.503	ng	99
38) 1-Methylnaphthalene	8.969	142	604506	39.135	ng	100
40) 1,2,4,5-Tetrachloroben...	9.033	216	294261	40.151	ng	99
41) Hexachlorocyclopentadiene	9.016	237	70659	37.550	ng	99
43) 2,4,6-Trichlorophenol	9.145	196	194970	40.537	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
 Data File : BF140366.D
 Acq On : 14 Nov 2024 17:02
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDCCC040

Quant Time: Nov 15 00:26:39 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 Response via : Initial Calibration

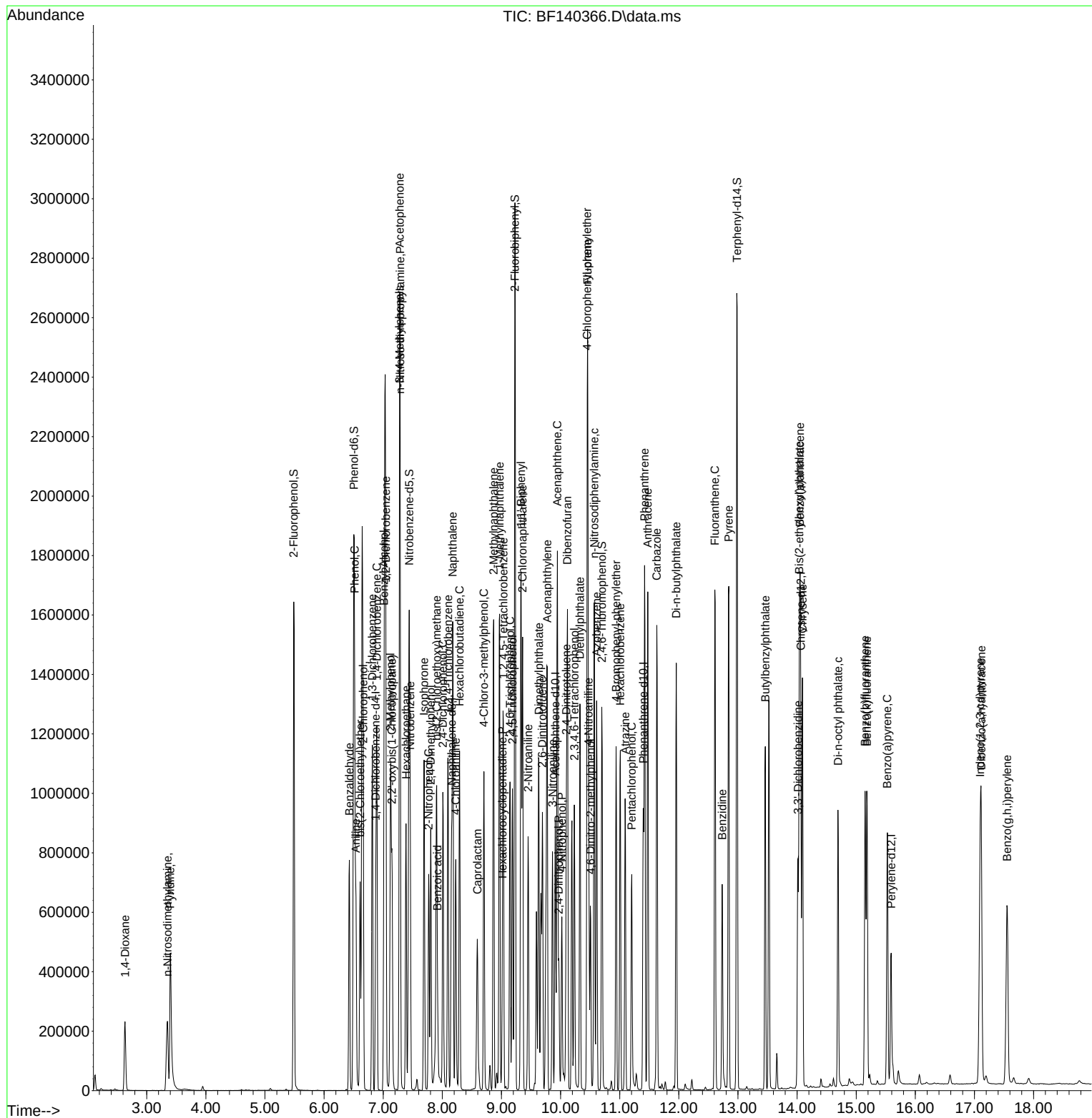
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	216613	41.193	ng	97
46) 1,1'-Biphenyl	9.333	154	777694	40.335	ng	99
47) 2-Chloronaphthalene	9.357	162	588883	40.095	ng	99
48) 2-Nitroaniline	9.451	65	198227	40.696	ng	97
49) Acenaphthylene	9.774	152	886051	39.873	ng	100
50) Dimethylphthalate	9.633	163	674463	39.043	ng	99
51) 2,6-Dinitrotoluene	9.692	165	160354	40.717	ng	100
52) Acenaphthene	9.945	154	601473	40.074	ng	99
53) 3-Nitroaniline	9.863	138	165761	40.079	ng	98
54) 2,4-Dinitrophenol	9.969	184	81371	40.067	ng	96
55) Dibenzofuran	10.116	168	856528	40.313	ng	99
56) 4-Nitrophenol	10.022	139	125006	41.437	ng	98
57) 2,4-Dinitrotoluene	10.098	165	210411	40.596	ng	99
58) Fluorene	10.457	166	665609	39.655	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.233	232	169520	40.828	ng	99
60) Diethylphthalate	10.327	149	679063	38.443	ng	99
61) 4-Chlorophenyl-phenyle...	10.451	204	320353	38.659	ng	98
62) 4-Nitroaniline	10.474	138	173894	41.121	ng	99
63) Azobenzene	10.610	77	673115	38.567	ng	99
65) 4,6-Dinitro-2-methylph...	10.510	198	112316	42.223	ng	94
66) n-Nitrosodiphenylamine	10.569	169	562191	39.354	ng	99
67) 4-Bromophenyl-phenylether	10.939	248	191092	38.665	ng	99
68) Hexachlorobenzene	11.010	284	220472	39.648	ng	97
69) Atrazine	11.092	200	161785	37.433	ng	99
70) Pentachlorophenol	11.204	266	122784	40.991	ng	99
71) Phenanthrene	11.421	178	915871	39.434	ng	99
72) Anthracene	11.474	178	895201	39.328	ng	100
73) Carbazole	11.627	167	901743	40.121	ng	100
74) Di-n-butylphthalate	11.957	149	1010052	37.443	ng	100
75) Fluoranthene	12.610	202	1017901	39.064	ng	100
77) Benzidine	12.733	184	391088	35.395	ng	100
78) Pyrene	12.845	202	1026765	41.696	ng	100
80) Butylbenzylphthalate	13.463	149	369549	39.065	ng	96
81) Benzo(a)anthracene	14.051	228	753390	39.818	ng	99
82) 3,3'-Dichlorobenzidine	14.015	252	235242	39.116	ng	99
83) Chrysene	14.092	228	665505	38.550	ng	99
84) Bis(2-ethylhexyl)phtha...	14.039	149	455726	36.092	ng	99
85) Di-n-octyl phthalate	14.692	149	623845	35.080	ng	100
87) Indeno(1,2,3-cd)pyrene	17.098	276	670383	41.918	ng	100
88) Benzo(b)fluoranthene	15.151	252	642101	37.914	ng	100
89) Benzo(k)fluoranthene	15.180	252	540295	39.052	ng	99
90) Benzo(a)pyrene	15.527	252	517840	39.374	ng	100
91) Dibenzo(a,h)anthracene	17.115	278	547666	41.429	ng	99
92) Benzo(g,h,i)perylene	17.550	276	573582	42.441	ng	99

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

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Data File : BF140366.D
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Misc :
ALS Vial : 2 Sample Multiplier: 1

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BNA_F
ClientSampleId :
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 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	89	0.00
2	1,4-Dioxane	0.522	0.547	-4.8	94	0.00
3	Pyridine	1.283	1.306	-1.8	88	0.00
4	n-Nitrosodimethylamine	0.649	0.653	-0.6	88	0.00
5 S	2-Fluorophenol	1.171	1.188	-1.5	92	0.00
6	Aniline	1.381	1.405	-1.7	86	0.00
7 S	Phenol-d6	1.587	1.578	0.6	87	0.00
8	2-Chlorophenol	1.258	1.256	0.2	88	0.00
9	Benzaldehyde	0.951	0.861	9.5	86	0.00
10 C	Phenol	1.674	1.678	-0.2	86	0.00
11	bis(2-Chloroethyl)ether	1.268	1.243	2.0	87	0.00
12	1,3-Dichlorobenzene	1.388	1.384	0.3	89	0.00
13 C	1,4-Dichlorobenzene	1.408	1.387	1.5	88	0.00
14	1,2-Dichlorobenzene	1.307	1.307	0.0	90	0.00
15	Benzyl Alcohol	1.143	1.150	-0.6	84	0.00
16	2,2'-oxybis(1-Chloropropane	1.752	1.678	4.2	82	0.00
17	2-Methylphenol	1.035	1.033	0.2	86	0.00
18	Hexachloroethane	0.520	0.504	3.1	87	0.00
19 P	n-Nitroso-di-n-propylamine	0.959	0.909	5.2	82	0.00
20	3+4-Methylphenols	1.294	1.288	0.5	85	0.00
21 I	Naphthalene-d8	1.000	1.000	0.0	82	0.00
22	Acetophenone	0.465	0.463	0.4	85	0.00
23 S	Nitrobenzene-d5	0.384	0.381	0.8	84	0.00
24	Nitrobenzene	0.400	0.401	-0.3	84	0.00
25	Isophorone	0.680	0.661	2.8	81	0.00
26 C	2-Nitrophenol	0.177	0.178	-0.6	82	0.00
27	2,4-Dimethylphenol	0.227	0.227	0.0	84	0.00
28	bis(2-Chloroethoxy)methane	0.417	0.404	3.1	82	0.00
29 C	2,4-Dichlorophenol	0.281	0.281	0.0	84	0.00
30	1,2,4-Trichlorobenzene	0.312	0.312	0.0	85	0.00
31	Naphthalene	1.015	1.009	0.6	85	0.00
32	Benzoic acid	0.200	0.199	0.5	77	-0.01
33	4-Chloroaniline	0.353	0.327	7.4	79	0.00
34 C	Hexachlorobutadiene	0.199	0.195	2.0	83	0.00
35	Caprolactam	0.093	0.094	-1.1	84	0.00
36 C	4-Chloro-3-methylphenol	0.311	0.311	0.0	83	0.00
37	2-Methylnaphthalene	0.651	0.642	1.4	84	0.00
38	1-Methylnaphthalene	0.637	0.623	2.2	82	0.00
39 I	Acenaphthene-d10	1.000	1.000	0.0	79	0.00
40	1,2,4,5-Tetrachlorobenzene	0.553	0.555	-0.4	83	0.00
41 P	Hexachlorocyclopentadiene	0.142	0.133	6.3	76	0.00
42 S	2,4,6-Tribromophenol	0.199	0.200	-0.5	82	0.00
43 C	2,4,6-Trichlorophenol	0.363	0.368	-1.4	81	0.00
44	2,4,5-Trichlorophenol	0.397	0.409	-3.0	83	0.00
45 S	2-Fluorobiphenyl	1.244	1.231	1.0	83	0.00
46	1,1'-Biphenyl	1.455	1.467	-0.8	83	0.00
47	2-Chloronaphthalene	1.108	1.111	-0.3	83	0.00

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 Misc :
 ALS Vial : 2 Sample Multiplier: 1

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 BNA_F
 LabSampleId :
 SSTDCCC040

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 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 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	0.368	0.374	-1.6	81	0.00
49	Acenaphthylene	1.677	1.672	0.3	81	0.00
50	Dimethylphthalate	1.304	1.272	2.5	80	0.00
51	2,6-Dinitrotoluene	0.297	0.303	-2.0	81	0.00
52 C	Acenaphthene	1.133	1.135	-0.2	82	0.00
53	3-Nitroaniline	0.312	0.313	-0.3	80	0.00
54 P	2,4-Dinitrophenol	0.153	0.154	-0.7	83	0.00
55	Dibenzofuran	1.603	1.616	-0.8	82	0.00
56 P	4-Nitrophenol	0.228	0.236	-3.5	79	0.00
57	2,4-Dinitrotoluene	0.391	0.397	-1.5	81	0.00
58	Fluorene	1.267	1.256	0.9	83	0.00
59	2,3,4,6-Tetrachlorophenol	0.313	0.320	-2.2	80	0.00
60	Diethylphthalate	1.333	1.281	3.9	79	0.00
61	4-Chlorophenyl-phenylether	0.625	0.604	3.4	79	0.00
62	4-Nitroaniline	0.319	0.328	-2.8	81	0.00
63	Azobenzene	1.317	1.270	3.6	78	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	79	0.00
65	4,6-Dinitro-2-methylphenol	0.108	0.114	-5.6	82	0.00
66 c	n-Nitrosodiphenylamine	0.578	0.569	1.6	80	0.00
67	4-Bromophenyl-phenylether	0.200	0.193	3.5	78	0.00
68	Hexachlorobenzene	0.225	0.223	0.9	81	0.00
69	Atrazine	0.175	0.164	6.3	89	0.00
70 C	Pentachlorophenol	0.121	0.124	-2.5	77	0.00
71	Phenanthrene	0.940	0.926	1.5	81	0.00
72	Anthracene	0.921	0.905	1.7	80	0.00
73	Carbazole	0.909	0.912	-0.3	82	0.00
74	Di-n-butylphthalate	1.091	1.021	6.4	75	0.00
75 C	Fluoranthene	1.054	1.029	2.4	80	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	75	0.01
77	Benzidine	0.768	0.679	11.6	78	0.00
78	Pyrene	1.711	1.783	-4.2	79	0.00
79 S	Terphenyl-d14	1.152	1.148	0.3	76	0.00
80	Butylbenzylphthalate	0.657	0.642	2.3	69	0.00
81	Benzo(a)anthracene	1.314	1.308	0.5	77	0.01
82	3,3'-Dichlorobenzidine	0.418	0.409	2.2	76	0.02
83	Chrysene	1.199	1.156	3.6	74	0.01
84	Bis(2-ethylhexyl)phthalate	0.877	0.791	9.8	64	0.02
85 c	Di-n-octyl phthalate	1.235	1.083	12.3	63	0.03
86 I	Perylene-d12	1.000	1.000	0.0	80	0.04
87	Indeno(1,2,3-cd)pyrene	1.235	1.295	-4.9	83	0.04
88	Benzo(b)fluoranthene	1.308	1.240	5.2	79	0.04
89	Benzo(k)fluoranthene	1.069	1.043	2.4	79	0.03
90 C	Benzo(a)pyrene	1.016	1.000	1.6	80	0.04
91	Dibenzo(a,h)anthracene	1.021	1.058	-3.6	82	0.04
92	Benzo(g,h,i)perylene	1.044	1.108	-6.1	84	0.04

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Misc :
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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)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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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	89	0.00
2	1,4-Dioxane	40.000	41.932	-4.8	94	0.00
3	Pyridine	40.000	40.709	-1.8	88	0.00
4	n-Nitrosodimethylamine	40.000	40.295	-0.7	88	0.00
5 S	2-Fluorophenol	80.000	81.137	-1.4	92	0.00
6	Aniline	40.000	40.711	-1.8	86	0.00
7 S	Phenol-d6	80.000	79.560	0.5	87	0.00
8	2-Chlorophenol	40.000	39.943	0.1	88	0.00
9	Benzaldehyde	40.000	36.193	9.5	86	0.00
10 C	Phenol	40.000	40.109	-0.3	86	0.00
11	bis(2-Chloroethyl)ether	40.000	39.201	2.0	87	0.00
12	1,3-Dichlorobenzene	40.000	39.873	0.3	89	0.00
13 C	1,4-Dichlorobenzene	40.000	39.407	1.5	88	0.00
14	1,2-Dichlorobenzene	40.000	40.001	-0.0	90	0.00
15	Benzyl Alcohol	40.000	40.213	-0.5	84	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	38.318	4.2	82	0.00
17	2-Methylphenol	40.000	39.935	0.2	86	0.00
18	Hexachloroethane	40.000	38.740	3.1	87	0.00
19 P	n-Nitroso-di-n-propylamine	40.000	37.936	5.2	82	0.00
20	3+4-Methylphenols	40.000	39.798	0.5	85	0.00
21 I	Naphthalene-d8	20.000	20.000	0.0	82	0.00
22	Acetophenone	40.000	39.778	0.6	85	0.00
23 S	Nitrobenzene-d5	80.000	79.508	0.6	84	0.00
24	Nitrobenzene	40.000	40.097	-0.2	84	0.00
25	Isophorone	40.000	38.864	2.8	81	0.00
26 C	2-Nitrophenol	40.000	40.158	-0.4	82	0.00
27	2,4-Dimethylphenol	40.000	40.061	-0.2	84	0.00
28	bis(2-Chloroethoxy)methane	40.000	38.749	3.1	82	0.00
29 C	2,4-Dichlorophenol	40.000	40.000	0.0	84	0.00
30	1,2,4-Trichlorobenzene	40.000	39.983	0.0	85	0.00
31	Naphthalene	40.000	39.779	0.6	85	0.00
32	Benzoic acid	40.000	39.799	0.5	77	-0.01
33	4-Chloroaniline	40.000	37.102	7.2	79	0.00
34 C	Hexachlorobutadiene	40.000	39.216	2.0	83	0.00
35	Caprolactam	40.000	40.211	-0.5	84	0.00
36 C	4-Chloro-3-methylphenol	40.000	40.008	-0.0	83	0.00
37	2-Methylnaphthalene	40.000	39.503	1.2	84	0.00
38	1-Methylnaphthalene	40.000	39.135	2.2	82	0.00
39 I	Acenaphthene-d10	20.000	20.000	0.0	79	0.00
40	1,2,4,5-Tetrachlorobenzene	40.000	40.151	-0.4	83	0.00
41 P	Hexachlorocyclopentadiene	40.000	37.550	6.1	76	0.00
42 S	2,4,6-Tribromophenol	80.000	80.260	-0.3	82	0.00
43 C	2,4,6-Trichlorophenol	40.000	40.537	-1.3	81	0.00
44	2,4,5-Trichlorophenol	40.000	41.193	-3.0	83	0.00
45 S	2-Fluorobiphenyl	80.000	79.126	1.1	83	0.00
46	1,1'-Biphenyl	40.000	40.335	-0.8	83	0.00
47	2-Chloronaphthalene	40.000	40.095	-0.2	83	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
 Data File : BF140366.D
 Acq On : 14 Nov 2024 17:02
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Nov 15 00:26:39 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 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	40.696	-1.7	81	0.00
49	Acenaphthylene	40.000	39.873	0.3	81	0.00
50	Dimethylphthalate	40.000	39.043	2.4	80	0.00
51	2,6-Dinitrotoluene	40.000	40.717	-1.8	81	0.00
52 C	Acenaphthene	40.000	40.074	-0.2	82	0.00
53	3-Nitroaniline	40.000	40.079	-0.2	80	0.00
54 P	2,4-Dinitrophenol	40.000	40.067	-0.2	83	0.00
55	Dibenzofuran	40.000	40.313	-0.8	82	0.00
56 P	4-Nitrophenol	40.000	41.437	-3.6	79	0.00
57	2,4-Dinitrotoluene	40.000	40.596	-1.5	81	0.00
58	Fluorene	40.000	39.655	0.9	83	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	40.828	-2.1	80	0.00
60	Diethylphthalate	40.000	38.443	3.9	79	0.00
61	4-Chlorophenyl-phenylether	40.000	38.659	3.4	79	0.00
62	4-Nitroaniline	40.000	41.121	-2.8	81	0.00
63	Azobenzene	40.000	38.567	3.6	78	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	79	0.00
65	4,6-Dinitro-2-methylphenol	40.000	42.223	-5.6	82	0.00
66 c	n-Nitrosodiphenylamine	40.000	39.354	1.6	80	0.00
67	4-Bromophenyl-phenylether	40.000	38.665	3.3	78	0.00
68	Hexachlorobenzene	40.000	39.648	0.9	81	0.00
69	Atrazine	40.000	37.433	6.4	89	0.00
70 C	Pentachlorophenol	40.000	40.991	-2.5	77	0.00
71	Phenanthrene	40.000	39.434	1.4	81	0.00
72	Anthracene	40.000	39.328	1.7	80	0.00
73	Carbazole	40.000	40.121	-0.3	82	0.00
74	Di-n-butylphthalate	40.000	37.443	6.4	75	0.00
75 C	Fluoranthene	40.000	39.064	2.3	80	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	75	0.01
77	Benzydine	40.000	35.395	11.5	78	0.00
78	Pyrene	40.000	41.696	-4.2	79	0.00
79 S	Terphenyl-d14	80.000	79.737	0.3	76	0.00
80	Butylbenzylphthalate	40.000	39.065	2.3	69	0.00
81	Benzo(a)anthracene	40.000	39.818	0.5	77	0.01
82	3,3'-Dichlorobenzidine	40.000	39.116	2.2	76	0.02
83	Chrysene	40.000	38.550	3.6	74	0.01
84	Bis(2-ethylhexyl)phthalate	40.000	36.092	9.8	64	0.02
85 c	Di-n-octyl phthalate	40.000	35.080	12.3	63	0.03
86 I	Perylene-d12	20.000	20.000	0.0	80	0.04
87	Indeno(1,2,3-cd)pyrene	40.000	41.918	-4.8	83	0.04
88	Benzo(b)fluoranthene	40.000	37.914	5.2	79	0.04
89	Benzo(k)fluoranthene	40.000	39.052	2.4	79	0.03
90 C	Benzo(a)pyrene	40.000	39.374	1.6	80	0.04
91	Dibenzo(a,h)anthracene	40.000	41.429	-3.6	82	0.04
92	Benzo(g,h,i)perylene	40.000	42.441	-6.1	84	0.04

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140366.D
Acq On : 14 Nov 2024 17:02
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 15 00:26:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
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, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: BNA_F Calibration Date/Time: 11/18/2024 10:13

Lab File ID: BF140443.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.171	1.135		-3.1	
Benzaldehyde	0.951	0.765		-19.6	
Phenol-d6	1.587	1.499		-5.5	
Phenol	1.674	1.571		-6.2	20.0
bis(2-Chloroethyl)ether	1.268	1.213		-4.3	
2-Chlorophenol	1.258	1.220		-3.0	
2-Methylphenol	1.035	0.990		-4.3	
2,2-oxybis(1-Chloropropane)	1.752	1.612		-8.0	
Acetophenone	0.465	0.452		-2.8	
3+4-Methylphenols	1.295	1.212		-6.4	
n-Nitroso-di-n-propylamine	0.959	0.871	0.050	-9.2	
Nitrobenzene-d5	0.384	0.377		-1.8	
Hexachloroethane	0.520	0.516		-0.8	
Nitrobenzene	0.400	0.391		-2.3	
Isophorone	0.680	0.648		-4.7	
2-Nitrophenol	0.177	0.180		1.7	20.0
2,4-Dimethylphenol	0.227	0.223		-1.8	
bis(2-Chloroethoxy)methane	0.417	0.404		-3.1	
2,4-Dichlorophenol	0.281	0.280		-0.4	20.0
Naphthalene	1.015	0.999		-1.6	
4-Chloroaniline	0.353	0.324		-8.2	
Hexachlorobutadiene	0.199	0.203		2.0	20.0
Caprolactam	0.093	0.088		-5.4	
4-Chloro-3-methylphenol	0.311	0.303		-2.6	20.0
2-Methylnaphthalene	0.651	0.642		-1.4	
Hexachlorocyclopentadiene	0.142	0.127	0.050	-10.6	
2,4,6-Trichlorophenol	0.363	0.369		1.7	20.0
2-Fluorobiphenyl	1.244	1.230		-1.1	
2,4,5-Trichlorophenol	0.397	0.391		-1.5	
1,1-Biphenyl	1.455	1.449		-0.4	
2-Chloronaphthalene	1.108	1.094		-1.3	
2-Nitroaniline	0.368	0.354		-3.8	
Dimethylphthalate	1.304	1.279		-1.9	
Acenaphthylene	1.677	1.643		-2.0	
2,6-Dinitrotoluene	0.297	0.294		-1.0	
3-Nitroaniline	0.312	0.300		-3.8	
Acenaphthene	1.133	1.124		-0.8	20.0
2,4-Dinitrophenol	0.153	0.141	0.050	-7.8	
4-Nitrophenol	0.228	0.200	0.050	-12.7	



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: BNA_F Calibration Date/Time: 11/18/2024 10:13

Lab File ID: BF140443.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.603	1.577		-1.6	
2,4-Dinitrotoluene	0.391	0.386		-1.3	
Diethylphthalate	1.333	1.292		-3.1	
4-Chlorophenyl-phenylether	0.625	0.630		0.8	
Fluorene	1.267	1.233		-2.7	
4-Nitroaniline	0.319	0.299		-6.3	
4,6-Dinitro-2-methylphenol	0.108	0.114		5.6	
n-Nitrosodiphenylamine	0.578	0.582		0.7	20.0
2,4,6-Tribromophenol	0.199	0.197		-1.0	
4-Bromophenyl-phenylether	0.200	0.202		1.0	
Hexachlorobenzene	0.225	0.230		2.2	
Atrazine	0.175	0.151		-13.7	
Pentachlorophenol	0.121	0.114		-5.8	20.0
Phenanthrene	0.940	0.912		-3.0	
Anthracene	0.921	0.909		-1.3	
Carbazole	0.909	0.879		-3.3	
Di-n-butylphthalate	1.091	1.076		-1.4	
Fluoranthene	1.054	0.995		-5.6	20.0
Pyrene	1.711	1.930		12.8	
Terphenyl-d14	1.152	1.302		13.0	
Butylbenzylphthalate	0.657	0.725		10.4	
3,3-Dichlorobenzidine	0.418	0.399		-4.5	
Benzo (a) anthracene	1.314	1.317		0.2	
Chrysene	1.199	1.195		-0.3	
Bis(2-ethylhexyl)phthalate	0.877	0.911		3.9	
Di-n-octyl phthalate	1.235	1.195		-3.2	20.0
Benzo (b) fluoranthene	1.308	1.228		-6.1	
Benzo (k) fluoranthene	1.069	0.973		-9.0	
Benzo (a) pyrene	1.016	1.011		-0.5	20.0
Indeno (1,2,3-cd) pyrene	1.235	1.378		11.6	
Dibenzo (a,h) anthracene	1.021	1.147		12.3	
Benzo (g,h,i) perylene	1.044	1.170		12.1	
1,2,4,5-Tetrachlorobenzene	0.553	0.560		1.3	
1,4-Dioxane	0.522	0.509		-2.5	20.0
2,3,4,6-Tetrachlorophenol	0.313	0.303		-3.2	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
 Data File : BF140443.D
 Acq On : 18 Nov 2024 10:13
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/19/2024

Supervised By :mohammad ahmed 11/19/2024

Quant Time: Nov 18 11:37:02 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Nov 13 14:40:06 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	140634	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	521097	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	286394	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	525142	20.000	ng	0.00
76) Chrysene-d12	14.074	240	270046	20.000	ng	0.02
86) Perylene-d12	15.604	264	249102	20.000	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	638319	77.496	ng	0.01
7) Phenol-d6	6.516	99	843012	75.542	ng	0.01
23) Nitrobenzene-d5	7.439	82	785385	78.528	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	225738	79.263	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	1408678	79.070	ng	0.00
79) Terphenyl-d14	12.986	244	1406133	90.383	ng	0.00
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	2.628	88	143292	39.032	ng	96
3) Pyridine	3.399	79	348471	38.611	ng	100
4) n-Nitrosodimethylamine	3.352	42	168851	37.018	ng	99
6) Aniline	6.540	93	363861	37.481	ng	# 64
8) 2-Chlorophenol	6.669	128	343150	38.783	ng	97
9) Benzaldehyde	6.428	77	215292	32.189	ng	98
10) Phenol	6.528	94	441884	37.548	ng	86
11) bis(2-Chloroethyl)ether	6.610	93	341224	38.266	ng	99
12) 1,3-Dichlorobenzene	6.816	146	379613	38.886	ng	98
13) 1,4-Dichlorobenzene	6.892	146	386525	39.048	ng	100
14) 1,2-Dichlorobenzene	7.045	146	364040	39.615	ng	99
15) Benzyl Alcohol	7.016	79	310961	38.676	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.145	45	453386	36.810	ng	69
17) 2-Methylphenol	7.134	107	278345	38.242	ng	96
18) Hexachloroethane	7.387	117	145087	39.647	ng	98
19) n-Nitroso-di-n-propyla...	7.287	70	244923	36.339	ng	99
20) 3+4-Methylphenols	7.287	107	340790	37.439	ng	91
22) Acetophenone	7.281	105	470620	38.831	ng	99
24) Nitrobenzene	7.457	77	407121	39.097	ng	99
25) Isophorone	7.692	82	675586	38.114	ng	99
26) 2-Nitrophenol	7.775	139	187633	40.605	ng	99
27) 2,4-Dimethylphenol	7.810	122	232626m	39.322	ng	
28) bis(2-Chloroethoxy)met...	7.904	93	421232	38.756	ng	100
29) 2,4-Dichlorophenol	8.022	162	291413	39.858	ng	98
30) 1,2,4-Trichlorobenzene	8.098	180	324307	39.841	ng	100
31) Naphthalene	8.181	128	1041653	39.405	ng	100
32) Benzoic acid	7.934	122	208320	40.018	ng	97
33) 4-Chloroaniline	8.228	127	337655	36.729	ng	98
34) Hexachlorobutadiene	8.292	225	211977	40.872	ng	100
35) Caprolactam	8.598	113	91546	37.673	ng	95
36) 4-Chloro-3-methylphenol	8.710	107	315617	38.954	ng	100
37) 2-Methylnaphthalene	8.869	142	669201	39.481	ng	99
38) 1-Methylnaphthalene	8.969	142	645996	38.919	ng	100
40) 1,2,4,5-Tetrachloroben...	9.034	216	320662	40.489	ng	100
41) Hexachlorocyclopentadiene	9.016	237	72545	35.676	ng	100
43) 2,4,6-Trichlorophenol	9.151	196	211418	40.677	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
 Data File : BF140443.D
 Acq On : 18 Nov 2024 10:13
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/19/2024

Supervised By :mohammad ahmed 11/19/2024

Quant Time: Nov 18 11:37:02 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Nov 13 14:40:06 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	224161	39.448	ng	98
46) 1,1'-Biphenyl	9.334	154	829809	39.827	ng	100
47) 2-Chloronaphthalene	9.357	162	626357	39.465	ng	98
48) 2-Nitroaniline	9.457	65	202579	38.487	ng	100
49) Acenaphthylene	9.775	152	941266	39.198	ng	100
50) Dimethylphthalate	9.633	163	732412	39.235	ng	99
51) 2,6-Dinitrotoluene	9.698	165	168580	39.613	ng	98
52) Acenaphthene	9.945	154	643806	39.694	ng	100
53) 3-Nitroaniline	9.869	138	172098	38.507	ng	99
54) 2,4-Dinitrophenol	9.981	184	80840	36.836	ng	95
55) Dibenzofuran	10.122	168	903341	39.344	ng	100
56) 4-Nitrophenol	10.039	139	114271	35.053	ng	98
57) 2,4-Dinitrotoluene	10.104	165	221225	39.498	ng	100
58) Fluorene	10.463	166	706184	38.934	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	173421	38.651	ng	99
60) Diethylphthalate	10.333	149	739883	38.761	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	360602	40.270	ng	98
62) 4-Nitroaniline	10.480	138	171365	37.500	ng	99
63) Azobenzene	10.616	77	728065	38.603	ng	99
65) 4,6-Dinitro-2-methylph...	10.516	198	119536	42.308	ng	94
66) n-Nitrosodiphenylamine	10.575	169	611089	40.274	ng	100
67) 4-Bromophenyl-phenylether	10.945	248	211737	40.336	ng	99
68) Hexachlorobenzene	11.010	284	241253	40.847	ng	100
69) Atrazine	11.098	200	158192	34.460	ng	99
70) Pentachlorophenol	11.210	266	119881	37.680	ng	99
71) Phenanthrene	11.427	178	957984	38.834	ng	100
72) Anthracene	11.480	178	954854	39.494	ng	99
73) Carbazole	11.633	167	923126	38.669	ng	100
74) Di-n-butylphthalate	11.957	149	1129667	39.427	ng	100
75) Fluoranthene	12.616	202	1044851	37.753	ng	100
77) Benzidine	12.739	184	326503	31.502	ng	99
78) Pyrene	12.851	202	1042297	45.123	ng	100
80) Butylbenzylphthalate	13.463	149	391627	44.135	ng	98
81) Benzo(a)anthracene	14.063	228	711153	40.069	ng	99
82) 3,3'-Dichlorobenzidine	14.021	252	215430	38.189	ng	99
83) Chrysene	14.098	228	645188	39.842	ng	98
84) Bis(2-ethylhexyl)phtha...	14.039	149	492062	41.545	ng	99
85) Di-n-octyl phthalate	14.698	149	645377	38.689	ng	99
87) Indeno(1,2,3-cd)pyrene	17.121	276	686446	44.610	ng	100
88) Benzo(b)fluoranthene	15.163	252	611733	37.541	ng	99
89) Benzo(k)fluoranthene	15.192	252	484925	36.428	ng	99
90) Benzo(a)pyrene	15.539	252	503863	39.818	ng	99
91) Dibenzo(a,h)anthracene	17.139	278	571350	44.920	ng	100
92) Benzo(g,h,i)perylene	17.580	276	582904	44.827	ng	100

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

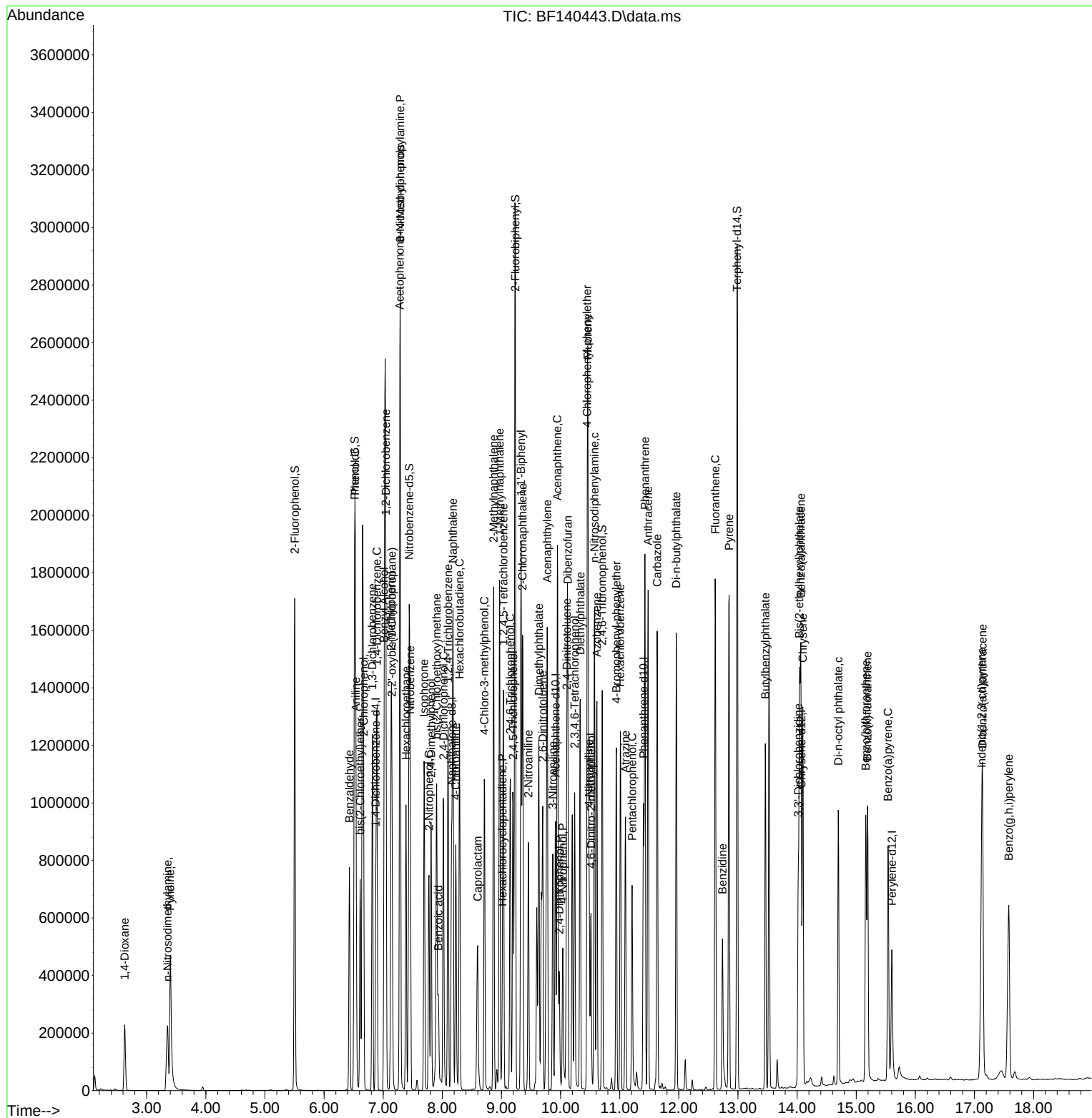
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140443.D
Acq On : 18 Nov 2024 10:13
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :mohammad ahmed 11/19/2024

Quant Time: Nov 18 11:37:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
 Data File : BF140443.D
 Acq On : 18 Nov 2024 10:13
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Nov 18 11:37:02 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 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	0.522	0.509	2.5	95	0.00
3	Pyridine	1.283	1.239	3.4	90	0.00
4	n-Nitrosodimethylamine	0.649	0.600	7.6	87	0.00
5 S	2-Fluorophenol	1.171	1.135	3.1	94	0.01
6	Aniline	1.381	1.294	6.3	85	0.00
7 S	Phenol-d6	1.587	1.499	5.5	89	0.01
8	2-Chlorophenol	1.258	1.220	3.0	92	0.00
9	Benzaldehyde	0.951	0.765	19.6	82	0.00
10 C	Phenol	1.674	1.571	6.2	87	0.00
11	bis(2-Chloroethyl)ether	1.268	1.213	4.3	92	0.00
12	1,3-Dichlorobenzene	1.388	1.350	2.7	94	0.00
13 C	1,4-Dichlorobenzene	1.408	1.374	2.4	94	0.00
14	1,2-Dichlorobenzene	1.307	1.294	1.0	96	0.00
15	Benzyl Alcohol	1.143	1.106	3.2	87	0.00
16	2,2'-oxybis(1-Chloropropane	1.752	1.612	8.0	85	0.00
17	2-Methylphenol	1.035	0.990	4.3	89	0.00
18	Hexachloroethane	0.520	0.516	0.8	96	0.00
19 P	n-Nitroso-di-n-propylamine	0.959	0.871	9.2	85	0.00
20	3+4-Methylphenols	1.294	1.212	6.3	86	0.00
21 I	Naphthalene-d8	1.000	1.000	0.0	88	0.00
22	Acetophenone	0.465	0.452	2.8	89	0.00
23 S	Nitrobenzene-d5	0.384	0.377	1.8	89	0.00
24	Nitrobenzene	0.400	0.391	2.3	88	0.00
25	Isophorone	0.680	0.648	4.7	85	0.00
26 C	2-Nitrophenol	0.177	0.180	-1.7	89	0.00
27	2,4-Dimethylphenol	0.227	0.223	1.8	89	0.00
28	bis(2-Chloroethoxy)methane	0.417	0.404	3.1	88	0.00
29 C	2,4-Dichlorophenol	0.281	0.280	0.4	90	0.00
30	1,2,4-Trichlorobenzene	0.312	0.311	0.3	91	0.00
31	Naphthalene	1.015	0.999	1.6	90	0.00
32	Benzoic acid	0.200	0.200	0.0	84	0.00
33	4-Chloroaniline	0.353	0.324	8.2	84	0.00
34 C	Hexachlorobutadiene	0.199	0.203	-2.0	93	0.00
35	Caprolactam	0.093	0.088	5.4	85	0.00
36 C	4-Chloro-3-methylphenol	0.311	0.303	2.6	87	0.00
37	2-Methylnaphthalene	0.651	0.642	1.4	90	0.00
38	1-Methylnaphthalene	0.637	0.620	2.7	88	0.00
39 I	Acenaphthene-d10	1.000	1.000	0.0	86	0.00
40	1,2,4,5-Tetrachlorobenzene	0.553	0.560	-1.3	90	0.00
41 P	Hexachlorocyclopentadiene	0.142	0.127	10.6	78	0.00
42 S	2,4,6-Tribromophenol	0.199	0.197	1.0	88	0.00
43 C	2,4,6-Trichlorophenol	0.363	0.369	-1.7	88	0.00
44	2,4,5-Trichlorophenol	0.397	0.391	1.5	86	0.01
45 S	2-Fluorobiphenyl	1.244	1.230	1.1	90	0.00
46	1,1'-Biphenyl	1.455	1.449	0.4	88	0.00
47	2-Chloronaphthalene	1.108	1.094	1.3	88	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
 Data File : BF140443.D
 Acq On : 18 Nov 2024 10:13
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Nov 18 11:37:02 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 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	0.368	0.354	3.8	83	0.00
49	Acenaphthylene	1.677	1.643	2.0	86	0.00
50	Dimethylphthalate	1.304	1.279	1.9	87	0.00
51	2,6-Dinitrotoluene	0.297	0.294	1.0	85	0.00
52 C	Acenaphthene	1.133	1.124	0.8	88	0.00
53	3-Nitroaniline	0.312	0.300	3.8	83	0.00
54 P	2,4-Dinitrophenol	0.153	0.141	7.8	82	0.00
55	Dibenzofuran	1.603	1.577	1.6	87	0.00
56 P	4-Nitrophenol	0.228	0.199	12.7	72	0.02
57	2,4-Dinitrotoluene	0.391	0.386	1.3	85	0.00
58	Fluorene	1.267	1.233	2.7	88	0.00
59	2,3,4,6-Tetrachlorophenol	0.313	0.303	3.2	82	0.00
60	Diethylphthalate	1.333	1.292	3.1	86	0.00
61	4-Chlorophenyl-phenylether	0.625	0.630	-0.8	89	0.00
62	4-Nitroaniline	0.319	0.299	6.3	80	0.00
63	Azobenzene	1.317	1.271	3.5	84	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	84	0.00
65	4,6-Dinitro-2-methylphenol	0.108	0.114	-5.6	87	0.00
66 c	n-Nitrosodiphenylamine	0.578	0.582	-0.7	87	0.00
67	4-Bromophenyl-phenylether	0.200	0.202	-1.0	87	0.00
68	Hexachlorobenzene	0.225	0.230	-2.2	88	0.00
69	Atrazine	0.175	0.151	13.7	87	0.00
70 C	Pentachlorophenol	0.121	0.114	5.8	75	0.00
71	Phenanthrene	0.940	0.912	3.0	84	0.00
72	Anthracene	0.921	0.909	1.3	85	0.00
73	Carbazole	0.909	0.879	3.3	84	0.00
74	Di-n-butylphthalate	1.091	1.076	1.4	84	0.00
75 C	Fluoranthene	1.054	0.995	5.6	82	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	70	0.02
77	Benzidine	0.768	0.605	21.2	65	0.00
78	Pyrene	1.711	1.930	-12.8	80	0.00
79 S	Terphenyl-d14	1.152	1.302	-13.0	81	0.00
80	Butylbenzylphthalate	0.657	0.725	-10.4	74	0.00
81	Benzo(a)anthracene	1.314	1.317	-0.2	73	0.02
82	3,3'-Dichlorobenzidine	0.418	0.399	4.5	69	0.02
83	Chrysene	1.199	1.195	0.3	72	0.02
84	Bis(2-ethylhexyl)phthalate	0.877	0.911	-3.9	69	0.02
85 c	Di-n-octyl phthalate	1.235	1.195	3.2	65	0.04
86 I	Perylene-d12	1.000	1.000	0.0	77	0.05
87	Indeno(1,2,3-cd)pyrene	1.235	1.378	-11.6	85	0.06
88	Benzo(b)fluoranthene	1.308	1.228	6.1	75	0.05
89	Benzo(k)fluoranthene	1.069	0.973	9.0	71	0.04
90 C	Benzo(a)pyrene	1.016	1.011	0.5	78	0.05
91	Dibenzo(a,h)anthracene	1.021	1.147	-12.3	85	0.06
92	Benzo(g,h,i)perylene	1.044	1.170	-12.1	85	0.06

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140443.D
Acq On : 18 Nov 2024 10:13
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 18 11:37:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
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_F\Data\BF111824\
 Data File : BF140443.D
 Acq On : 18 Nov 2024 10:13
 Operator : RC/JU
 Sample : SSTDCCC040
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Instrument :
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Quant Time: Nov 18 11:37:02 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 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	39.032	2.4	95	0.00
3	Pyridine	40.000	38.611	3.5	90	0.00
4	n-Nitrosodimethylamine	40.000	37.018	7.5	87	0.00
5 S	2-Fluorophenol	80.000	77.496	3.1	94	0.01
6	Aniline	40.000	37.481	6.3	85	0.00
7 S	Phenol-d6	80.000	75.542	5.6	89	0.01
8	2-Chlorophenol	40.000	38.783	3.0	92	0.00
9	Benzaldehyde	40.000	32.189	19.5	82	0.00
10 C	Phenol	40.000	37.548	6.1	87	0.00
11	bis(2-Chloroethyl)ether	40.000	38.266	4.3	92	0.00
12	1,3-Dichlorobenzene	40.000	38.886	2.8	94	0.00
13 C	1,4-Dichlorobenzene	40.000	39.048	2.4	94	0.00
14	1,2-Dichlorobenzene	40.000	39.615	1.0	96	0.00
15	Benzyl Alcohol	40.000	38.676	3.3	87	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	36.810	8.0	85	0.00
17	2-Methylphenol	40.000	38.242	4.4	89	0.00
18	Hexachloroethane	40.000	39.647	0.9	96	0.00
19 P	n-Nitroso-di-n-propylamine	40.000	36.339	9.2	85	0.00
20	3+4-Methylphenols	40.000	37.439	6.4	86	0.00
21 I	Naphthalene-d8	20.000	20.000	0.0	88	0.00
22	Acetophenone	40.000	38.831	2.9	89	0.00
23 S	Nitrobenzene-d5	80.000	78.528	1.8	89	0.00
24	Nitrobenzene	40.000	39.097	2.3	88	0.00
25	Isophorone	40.000	38.114	4.7	85	0.00
26 C	2-Nitrophenol	40.000	40.605	-1.5	89	0.00
27	2,4-Dimethylphenol	40.000	39.322	1.7	89	0.00
28	bis(2-Chloroethoxy)methane	40.000	38.756	3.1	88	0.00
29 C	2,4-Dichlorophenol	40.000	39.858	0.4	90	0.00
30	1,2,4-Trichlorobenzene	40.000	39.841	0.4	91	0.00
31	Naphthalene	40.000	39.405	1.5	90	0.00
32	Benzoic acid	40.000	40.018	-0.0	84	0.00
33	4-Chloroaniline	40.000	36.729	8.2	84	0.00
34 C	Hexachlorobutadiene	40.000	40.872	-2.2	93	0.00
35	Caprolactam	40.000	37.673	5.8	85	0.00
36 C	4-Chloro-3-methylphenol	40.000	38.954	2.6	87	0.00
37	2-Methylnaphthalene	40.000	39.481	1.3	90	0.00
38	1-Methylnaphthalene	40.000	38.919	2.7	88	0.00
39 I	Acenaphthene-d10	20.000	20.000	0.0	86	0.00
40	1,2,4,5-Tetrachlorobenzene	40.000	40.489	-1.2	90	0.00
41 P	Hexachlorocyclopentadiene	40.000	35.676	10.8	78	0.00
42 S	2,4,6-Tribromophenol	80.000	79.263	0.9	88	0.00
43 C	2,4,6-Trichlorophenol	40.000	40.677	-1.7	88	0.00
44	2,4,5-Trichlorophenol	40.000	39.448	1.4	86	0.01
45 S	2-Fluorobiphenyl	80.000	79.070	1.2	90	0.00
46	1,1'-Biphenyl	40.000	39.827	0.4	88	0.00
47	2-Chloronaphthalene	40.000	39.465	1.3	88	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
 Data File : BF140443.D
 Acq On : 18 Nov 2024 10:13
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Nov 18 11:37:02 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 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	38.487	3.8	83	0.00
49	Acenaphthylene	40.000	39.198	2.0	86	0.00
50	Dimethylphthalate	40.000	39.235	1.9	87	0.00
51	2,6-Dinitrotoluene	40.000	39.613	1.0	85	0.00
52 C	Acenaphthene	40.000	39.694	0.8	88	0.00
53	3-Nitroaniline	40.000	38.507	3.7	83	0.00
54 P	2,4-Dinitrophenol	40.000	36.836	7.9	82	0.00
55	Dibenzofuran	40.000	39.344	1.6	87	0.00
56 P	4-Nitrophenol	40.000	35.053	12.4	72	0.02
57	2,4-Dinitrotoluene	40.000	39.498	1.3	85	0.00
58	Fluorene	40.000	38.934	2.7	88	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	38.651	3.4	82	0.00
60	Diethylphthalate	40.000	38.761	3.1	86	0.00
61	4-Chlorophenyl-phenylether	40.000	40.270	-0.7	89	0.00
62	4-Nitroaniline	40.000	37.500	6.3	80	0.00
63	Azobenzene	40.000	38.603	3.5	84	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	84	0.00
65	4,6-Dinitro-2-methylphenol	40.000	42.308	-5.8	87	0.00
66 c	n-Nitrosodiphenylamine	40.000	40.274	-0.7	87	0.00
67	4-Bromophenyl-phenylether	40.000	40.336	-0.8	87	0.00
68	Hexachlorobenzene	40.000	40.847	-2.1	88	0.00
69	Atrazine	40.000	34.460	13.8	87	0.00
70 C	Pentachlorophenol	40.000	37.680	5.8	75	0.00
71	Phenanthrene	40.000	38.834	2.9	84	0.00
72	Anthracene	40.000	39.494	1.3	85	0.00
73	Carbazole	40.000	38.669	3.3	84	0.00
74	Di-n-butylphthalate	40.000	39.427	1.4	84	0.00
75 C	Fluoranthene	40.000	37.753	5.6	82	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	70	0.02
77	Benzydine	40.000	31.502	21.2	65	0.00
78	Pyrene	40.000	45.123	-12.8	80	0.00
79 S	Terphenyl-d14	80.000	90.383	-13.0	81	0.00
80	Butylbenzylphthalate	40.000	44.135	-10.3	74	0.00
81	Benzo(a)anthracene	40.000	40.069	-0.2	73	0.02
82	3,3'-Dichlorobenzidine	40.000	38.189	4.5	69	0.02
83	Chrysene	40.000	39.842	0.4	72	0.02
84	Bis(2-ethylhexyl)phthalate	40.000	41.545	-3.9	69	0.02
85 c	Di-n-octyl phthalate	40.000	38.689	3.3	65	0.04
86 I	Perylene-d12	20.000	20.000	0.0	77	0.05
87	Indeno(1,2,3-cd)pyrene	40.000	44.610	-11.5	85	0.06
88	Benzo(b)fluoranthene	40.000	37.541	6.1	75	0.05
89	Benzo(k)fluoranthene	40.000	36.428	8.9	71	0.04
90 C	Benzo(a)pyrene	40.000	39.818	0.5	78	0.05
91	Dibenzo(a,h)anthracene	40.000	44.920	-12.3	85	0.06
92	Benzo(g,h,i)perylene	40.000	44.827	-12.1	85	0.06

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140443.D
Acq On : 18 Nov 2024 10:13
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 18 11:37:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
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



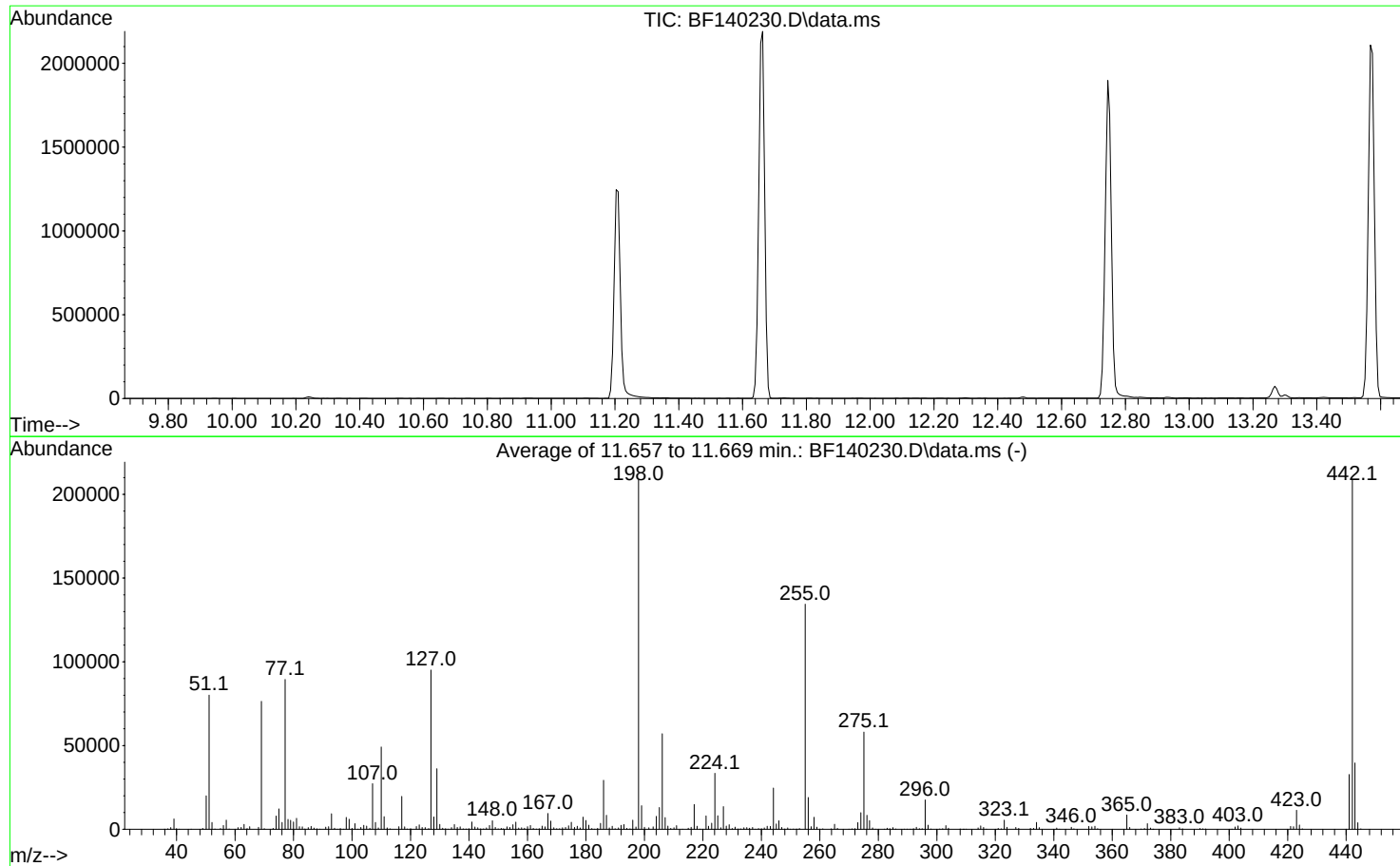
QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110524\
Data File : BF140230.D
Acq On : 05 Nov 2024 11:56
Operator : RC/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-BF110524.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Nov 05 16:47:56 2024



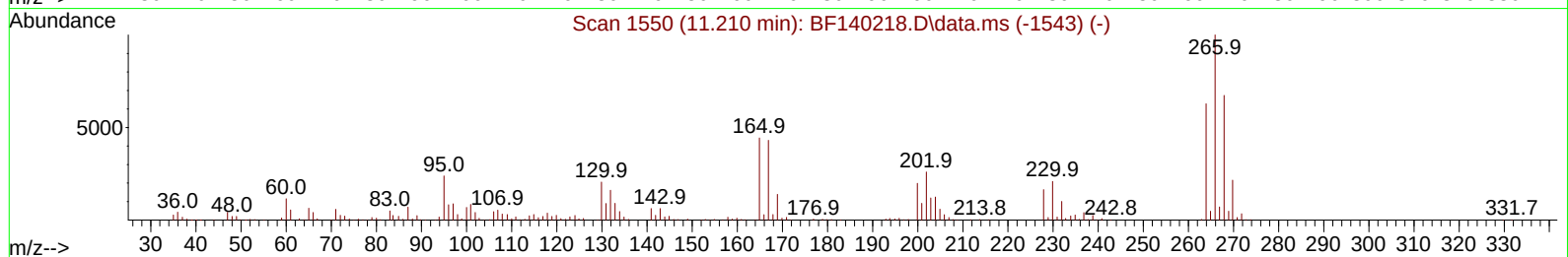
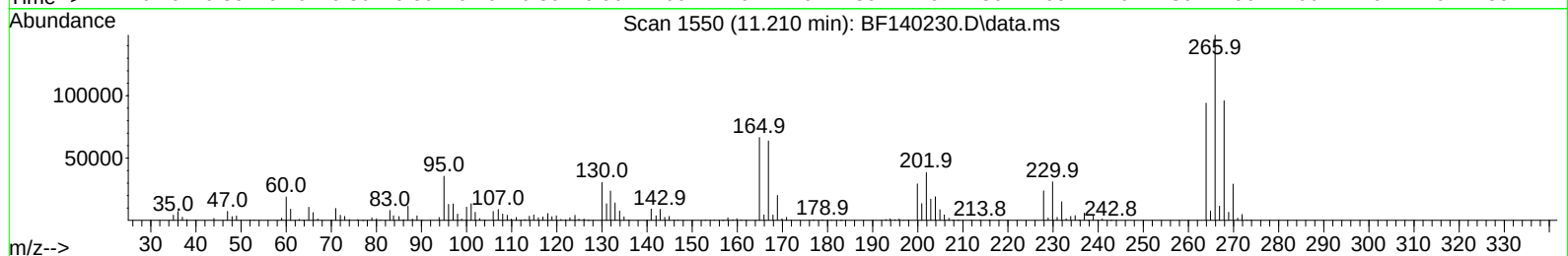
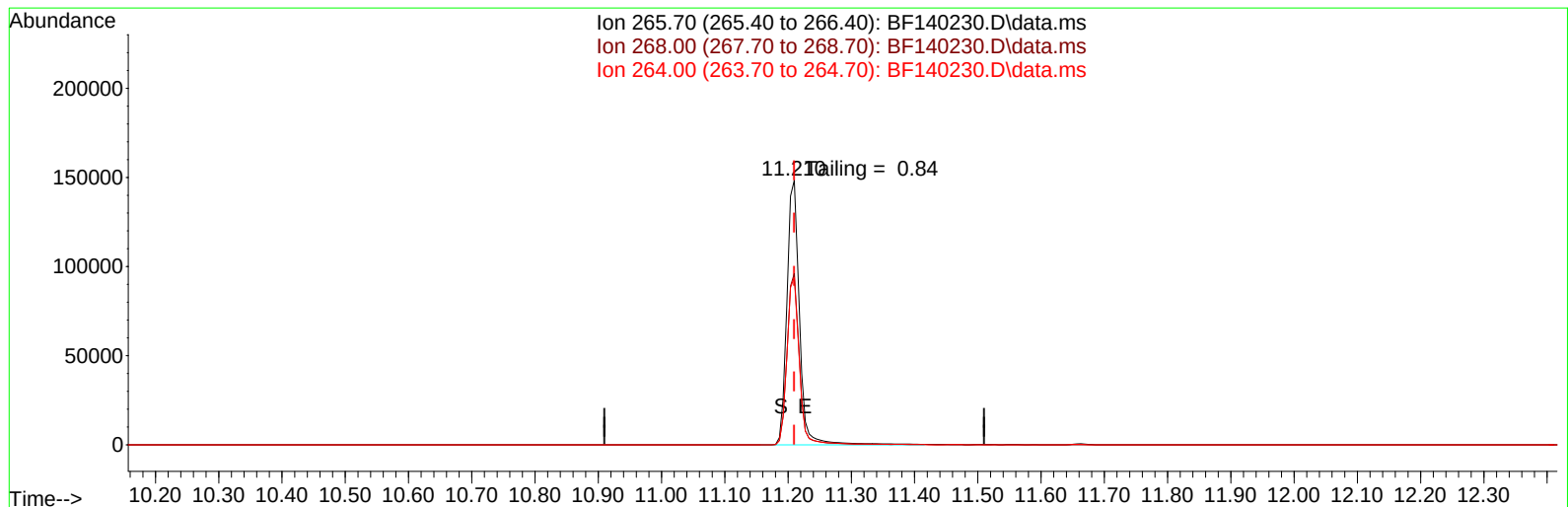
AutoFind: Scans 1626, 1627, 1628; Background Corrected with Scan 1619

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	38.4	80133	PASS
68	69	0.00	2	1.6	1231	PASS
69	198	0.00	100	36.6	76347	PASS
70	69	0.00	2	0.5	377	PASS
127	198	10	80	45.6	95101	PASS
197	198	0.00	2	0.7	1410	PASS
198	198	100	100	100.0	208661	PASS
199	198	5	9	6.8	14126	PASS
275	198	10	60	27.8	58061	PASS
365	198	1	100	4.1	8531	PASS
441	198	0.01	100	15.7	32669	PASS
442	442	50	100	100.0	208811	PASS
443	442	15	24	19.0	39576	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110524\
Data File : BF140230.D
Acq On : 05 Nov 2024 11:56
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 05 12:57:13 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 04 17:12:57 2024
Response via : Initial Calibration



TIC: BF140230.D\data.ms

(70) Pentachlorophenol (C)

11.210min (+ 0.000) 149686.01 ng

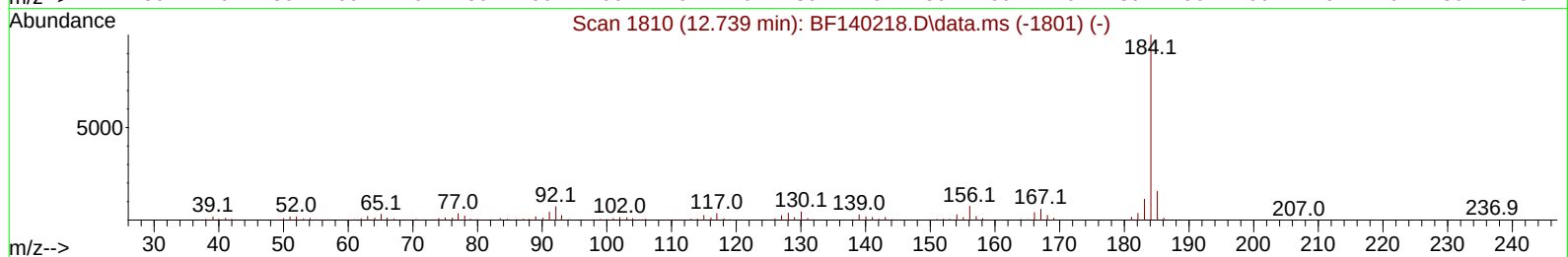
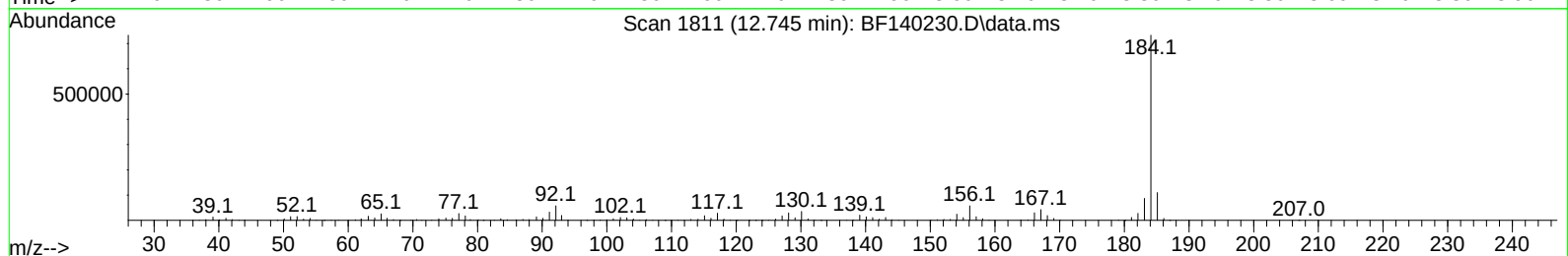
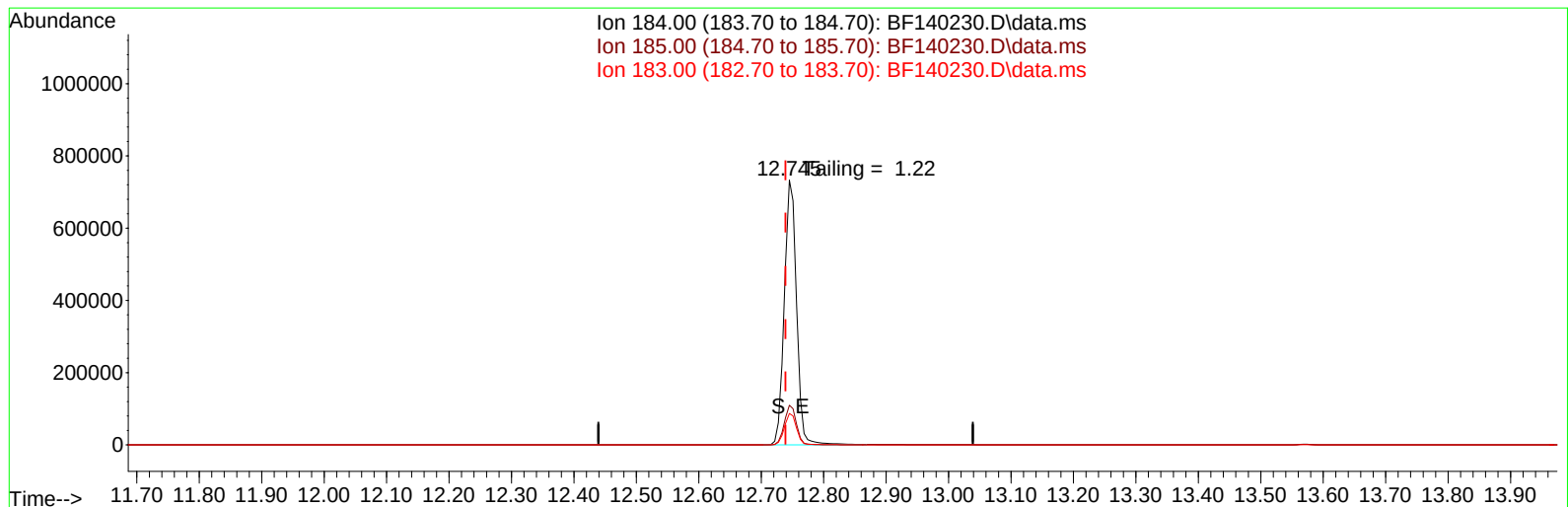
response 206677

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	67.40	64.67
264.00	62.90	63.32
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110524\
Data File : BF140230.D
Acq On : 05 Nov 2024 11:56
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 05 12:57:13 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 04 17:12:57 2024
Response via : Initial Calibration



TIC: BF140230.D\data.ms

(77) Benzidine

12.745min (+ 0.006) 305940.83 ng

response 1003011

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.97
183.00	11.30	11.87
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
11/5/2024	BNA_F	<u>BF140230.D</u>
Compound Name	Response	Retention Time
DDT	522863	13.574
DDD	21565	13.268
DDE	1336	12.933
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
22901	545764	4.20

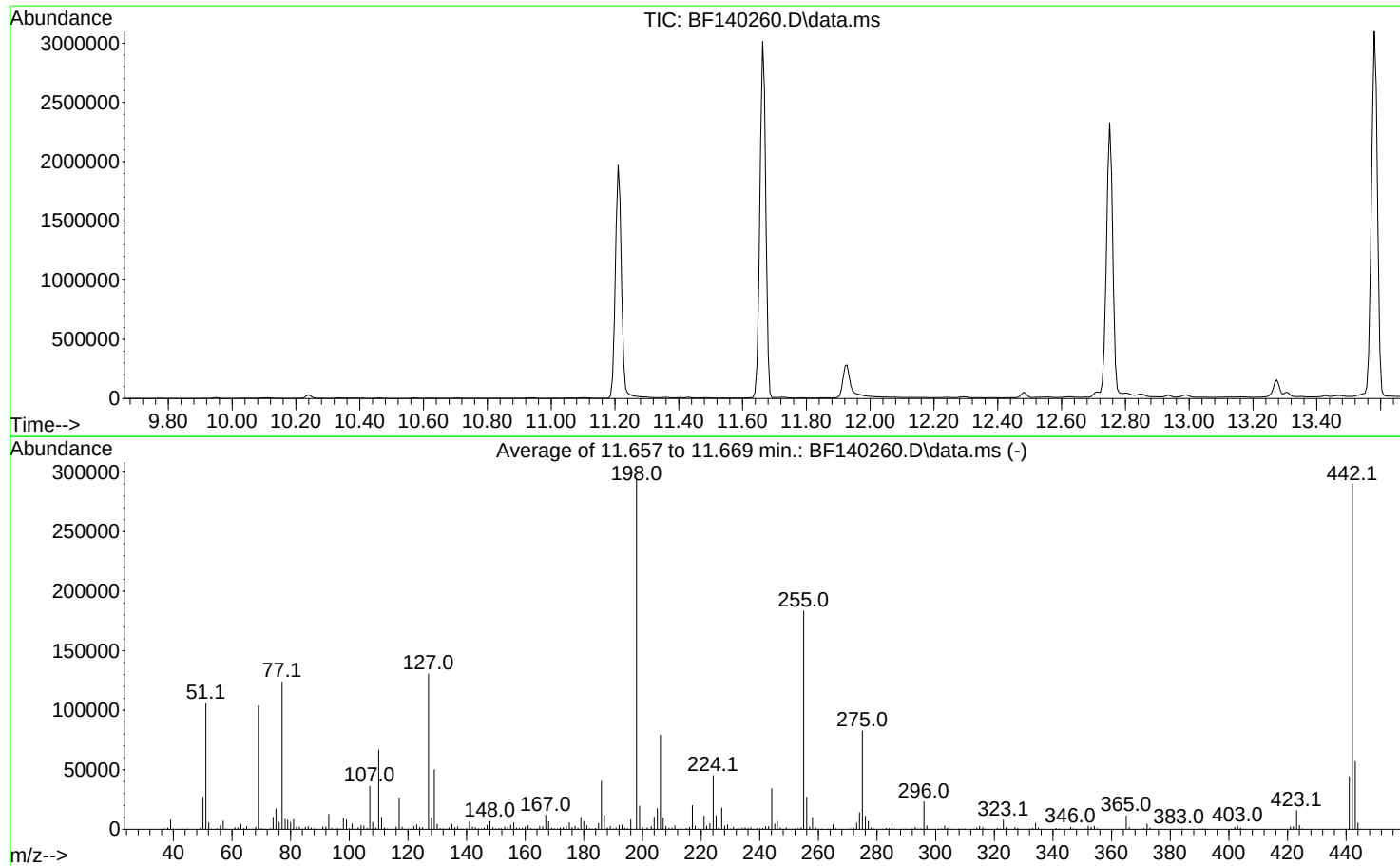
Instrument :
BNA_F
ClientSampleId :
DFTPP

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140260.D
Acq On : 07 Nov 2024 08:33
Operator : RC/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-BF110524.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Nov 05 16:47:56 2024



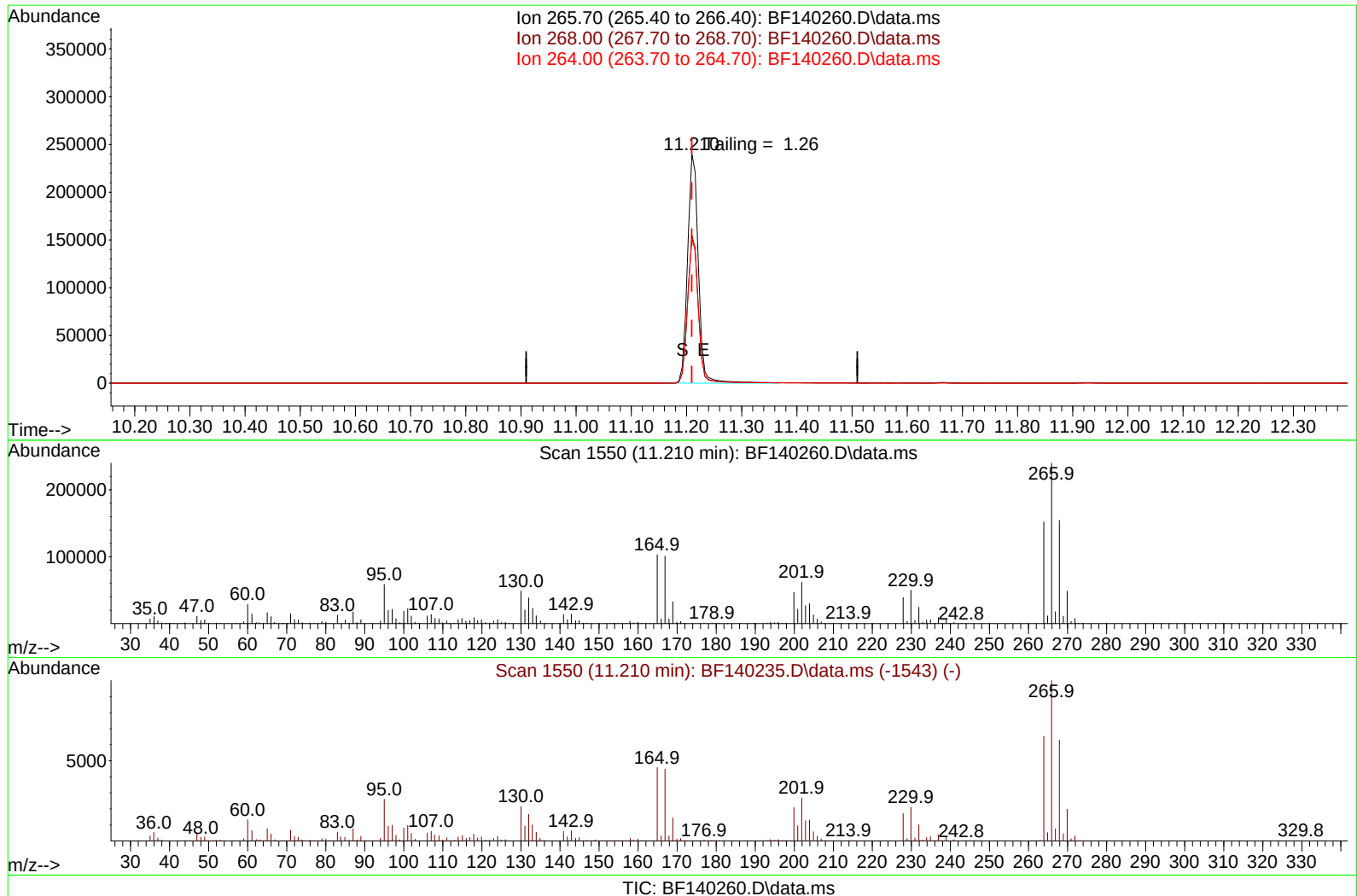
AutoFind: Scans 1626, 1627, 1628; Background Corrected with Scan 1619

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
51	198	10	80	35.9	105560	PASS
68	69	0.00	2	1.8	1838	PASS
69	198	0.00	100	35.3	103621	PASS
70	69	0.00	2	0.6	596	PASS
127	198	10	80	44.4	130427	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	293760	PASS
199	198	5	9	6.7	19592	PASS
275	198	10	60	28.1	82563	PASS
365	198	1	100	3.8	11210	PASS
441	198	0.01	100	15.1	44267	PASS
442	442	50	100	100.0	290283	PASS
443	442	15	24	19.6	56872	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140260.D
Acq On : 07 Nov 2024 08:33
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 07 10:53:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 16:47:56 2024
Response via : Initial Calibration

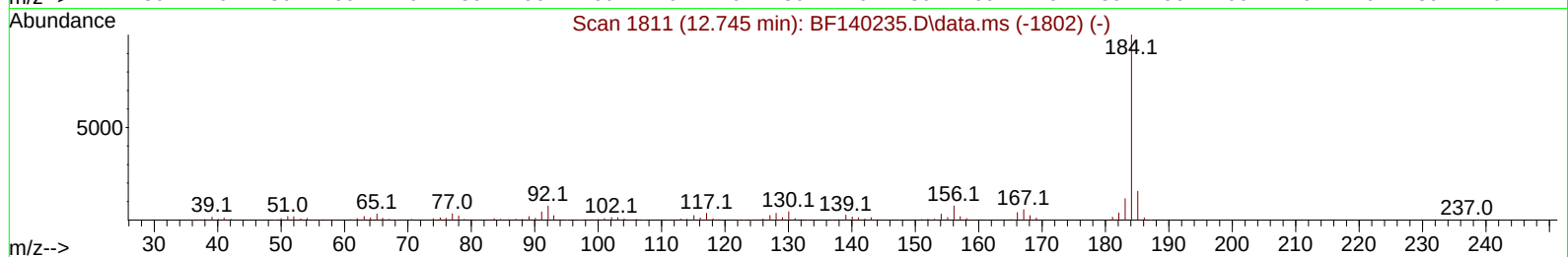
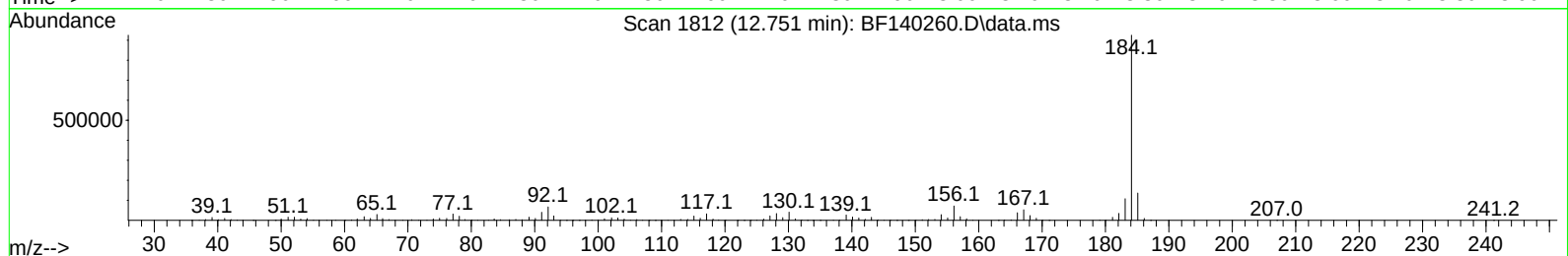
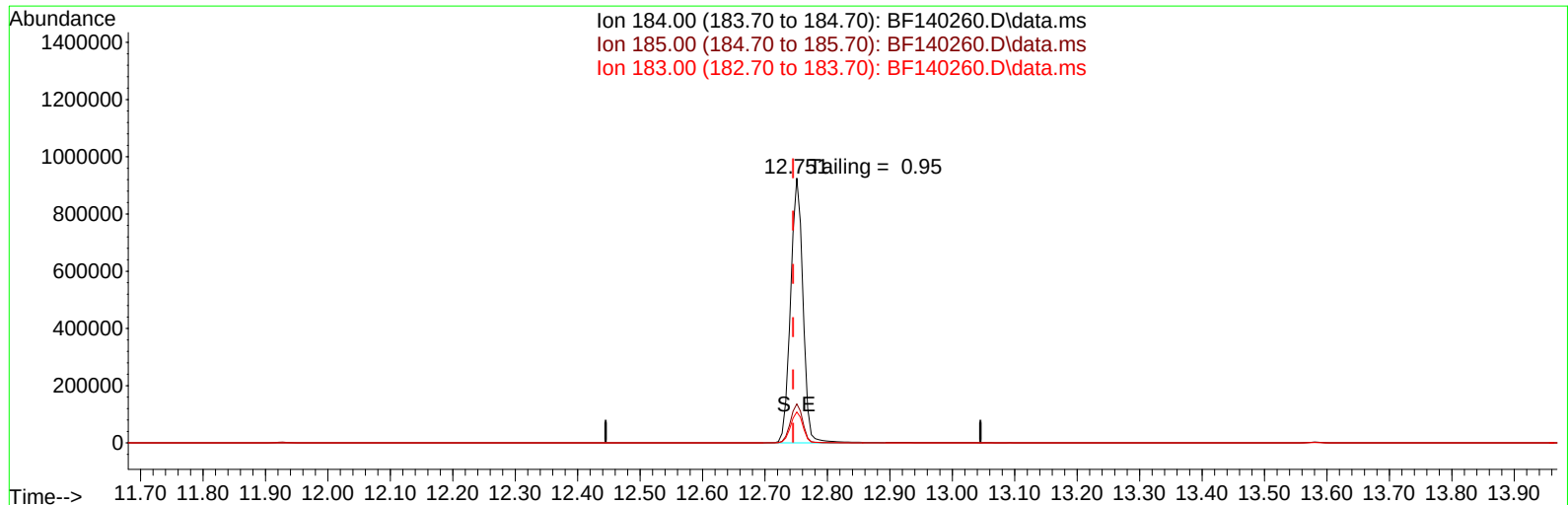
**(70) Pentachlorophenol (C)****11.210min (0.000) 24111.20 ng****response 328643**

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.80	64.41
264.00	65.30	63.34
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140260.D
Acq On : 07 Nov 2024 08:33
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 07 10:53:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 16:47:56 2024
Response via : Initial Calibration



TIC: BF140260.D\data.ms

(77) Benzidine

12.751min (+ 0.006) 13054.59 ng

response 1289985

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.60	14.73
183.00	11.60	11.70
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
11/7/2024	BNA_F	<u>BF140260.D</u>
Compound Name	Response	Retention Time
DDT	791360	13.58
DDD	41940	13.274
DDE	2893	12.933
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
44833	836193	5.36

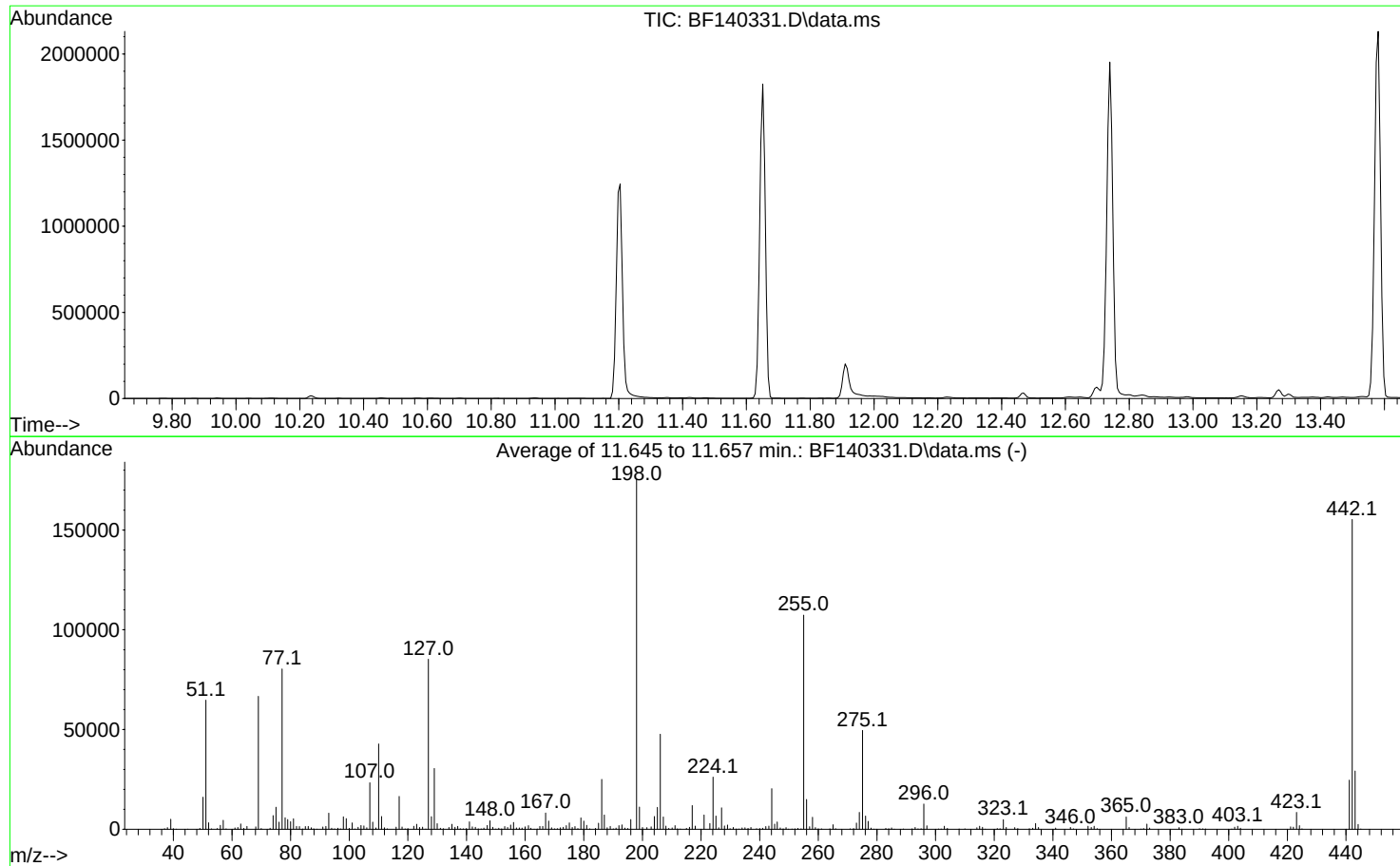
Instrument :
BNA_F
ClientSampleId :
DFTPP

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140331.D
Acq On : 13 Nov 2024 08:35
Operator : RC/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-BF111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 13 14:40:06 2024



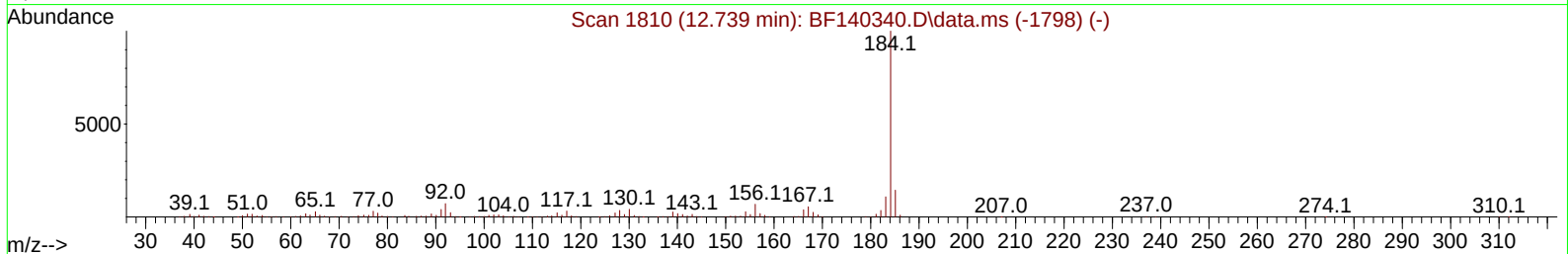
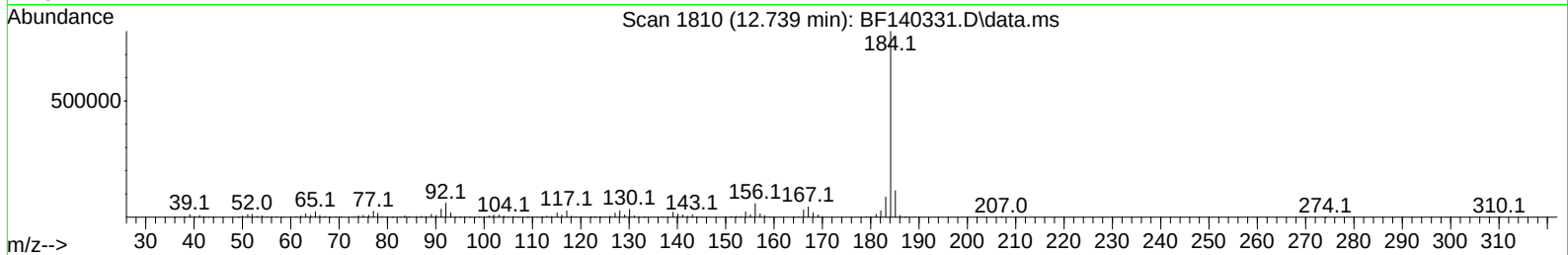
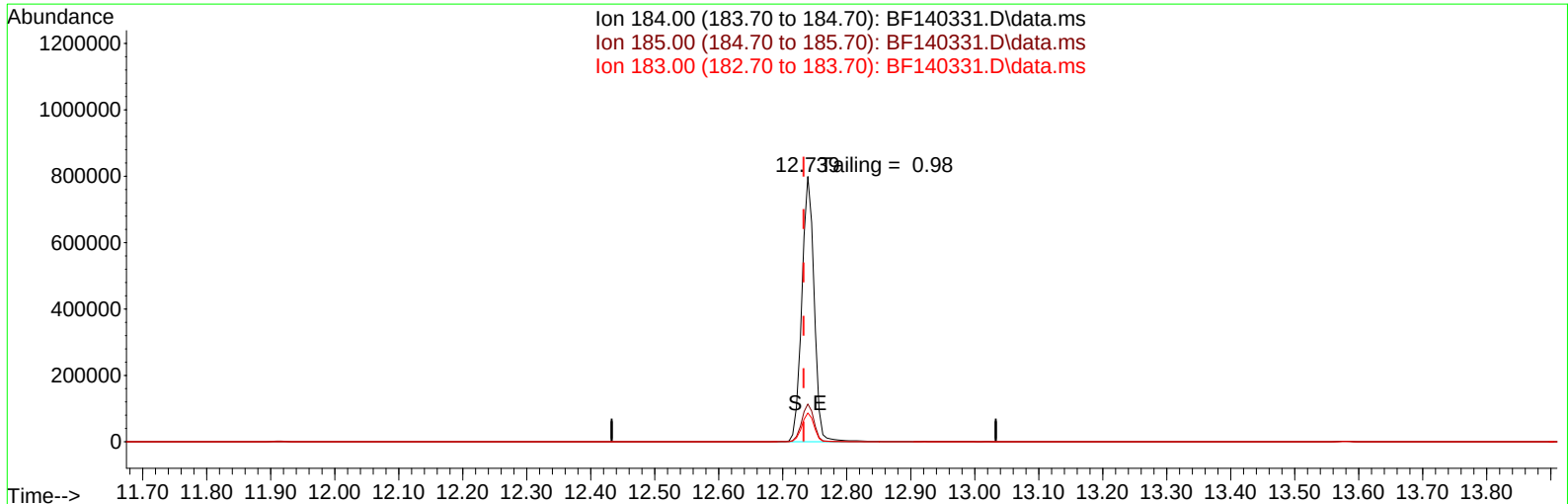
AutoFind: Scans 1624, 1625, 1626; Background Corrected with Scan 1617

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.9	64757	PASS
68	69	0.00	2	1.8	1226	PASS
69	198	0.00	100	38.0	66677	PASS
70	69	0.00	2	0.6	372	PASS
127	198	10	80	48.6	85245	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	175296	PASS
199	198	5	9	6.4	11148	PASS
275	198	10	60	28.3	49536	PASS
365	198	1	100	3.5	6203	PASS
441	198	0.01	100	14.0	24595	PASS
442	442	50	100	100.0	155288	PASS
443	442	15	24	18.8	29203	PASS


```
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140331.D
Acq On    : 13 Nov 2024  08:35
Operator  : RC/JU
Sample    : DFTPP
Misc      :
ALS Vial  : 1    Sample Multiplier: 1
```

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 13 14:44:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration



TIC: BF140331.D\data.ms

(77) Benzidine

12.739min (+ 0.006) 47514.94 ng

response **1075955**

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.90	14.29
183.00	10.80	10.88
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
11/13/2024	BNA_F	<u>BF140331.D</u>
Compound Name	Response	Retention Time
DDT	544964	13.58
DDD	17817	13.269
DDE	776	12.927
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
18593	563557	3.30

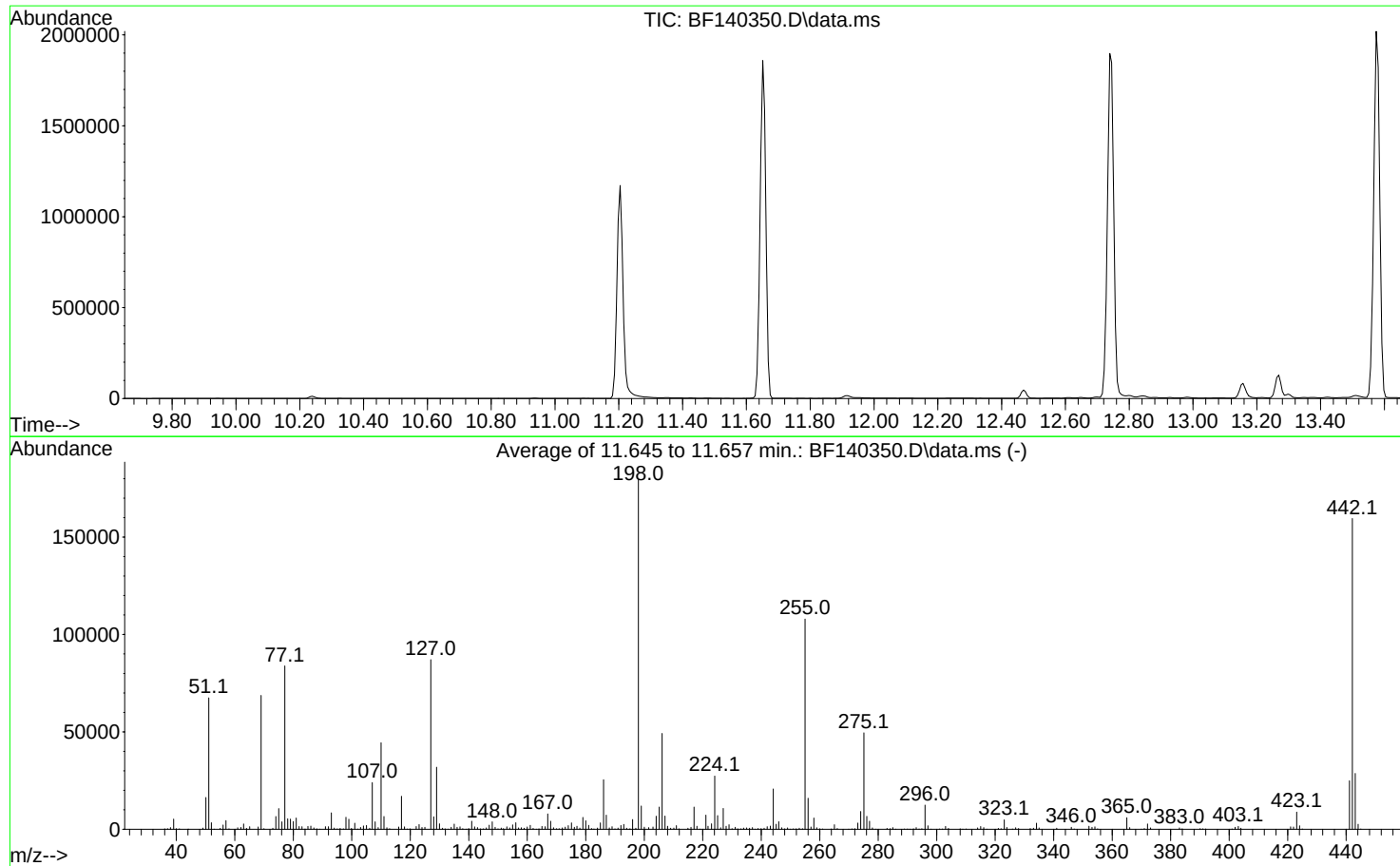
Instrument :
BNA_F
ClientSampleId :
DFTPP

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140350.D
Acq On : 14 Nov 2024 08:47
Operator : RC/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-BF111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 13 14:40:06 2024



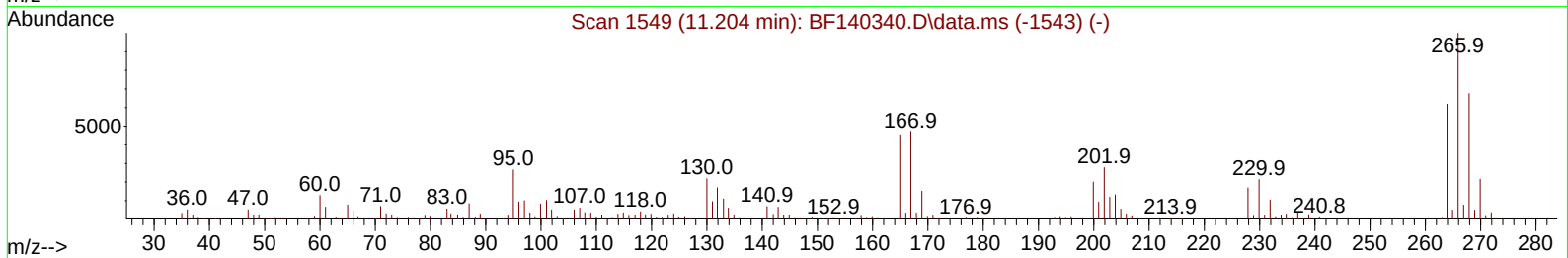
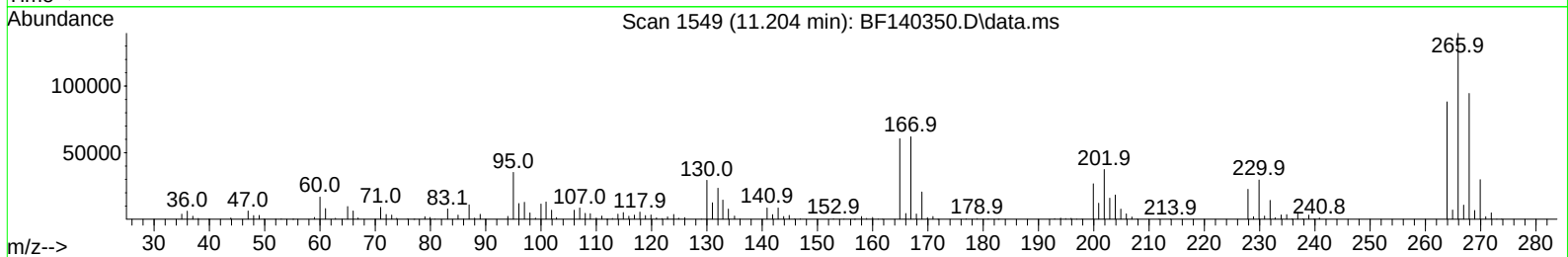
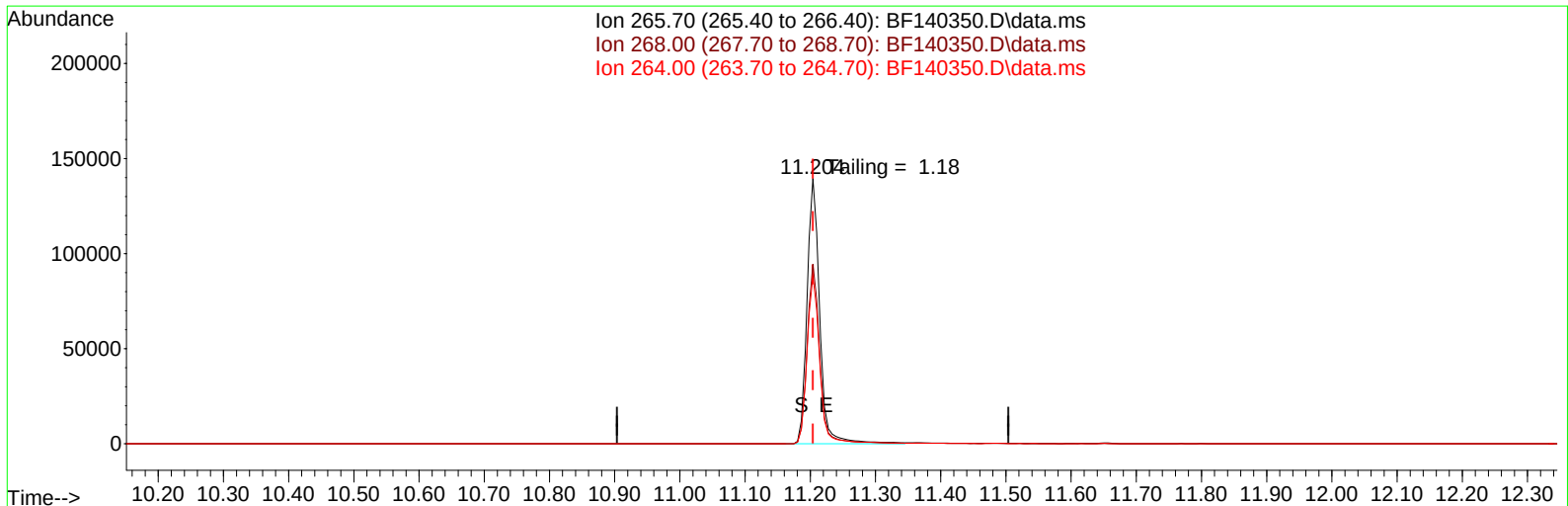
AutoFind: Scans 1624, 1625, 1626; Background Corrected with Scan 1618

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	37.6	67499	PASS
68	69	0.00	2	1.7	1197	PASS
69	198	0.00	100	38.3	68728	PASS
70	69	0.00	2	0.4	296	PASS
127	198	10	80	48.5	87083	PASS
197	198	0.00	2	0.3	544	PASS
198	198	100	100	100.0	179520	PASS
199	198	5	9	6.6	11931	PASS
275	198	10	60	27.6	49539	PASS
365	198	1	100	3.3	5926	PASS
441	198	0.01	100	13.9	24939	PASS
442	442	50	100	100.0	159507	PASS
443	442	15	24	18.0	28645	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140350.D
Acq On : 14 Nov 2024 08:47
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 14 10:48:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration



TIC: BF140350.D\data.ms

(70) Pentachlorophenol (C)

11.204min (-0.000) 30509.82 ng

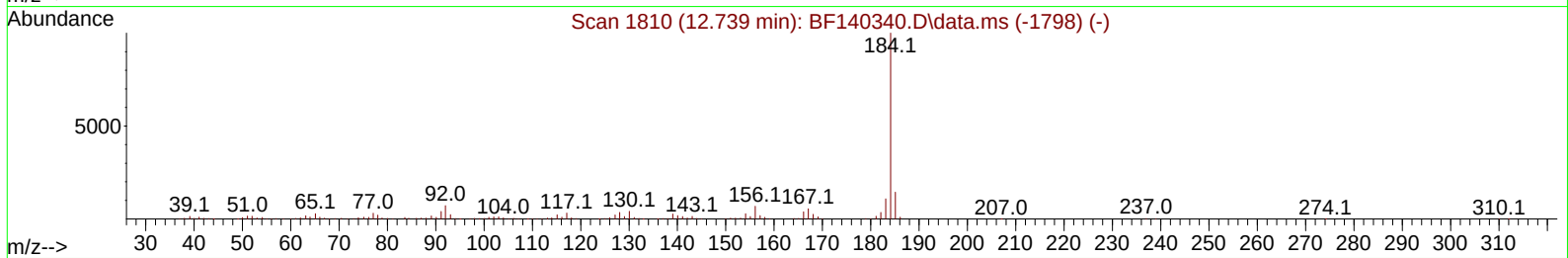
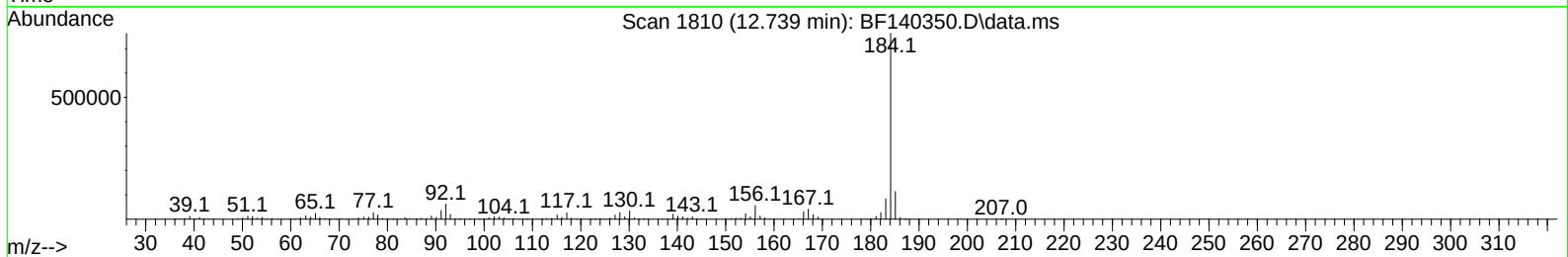
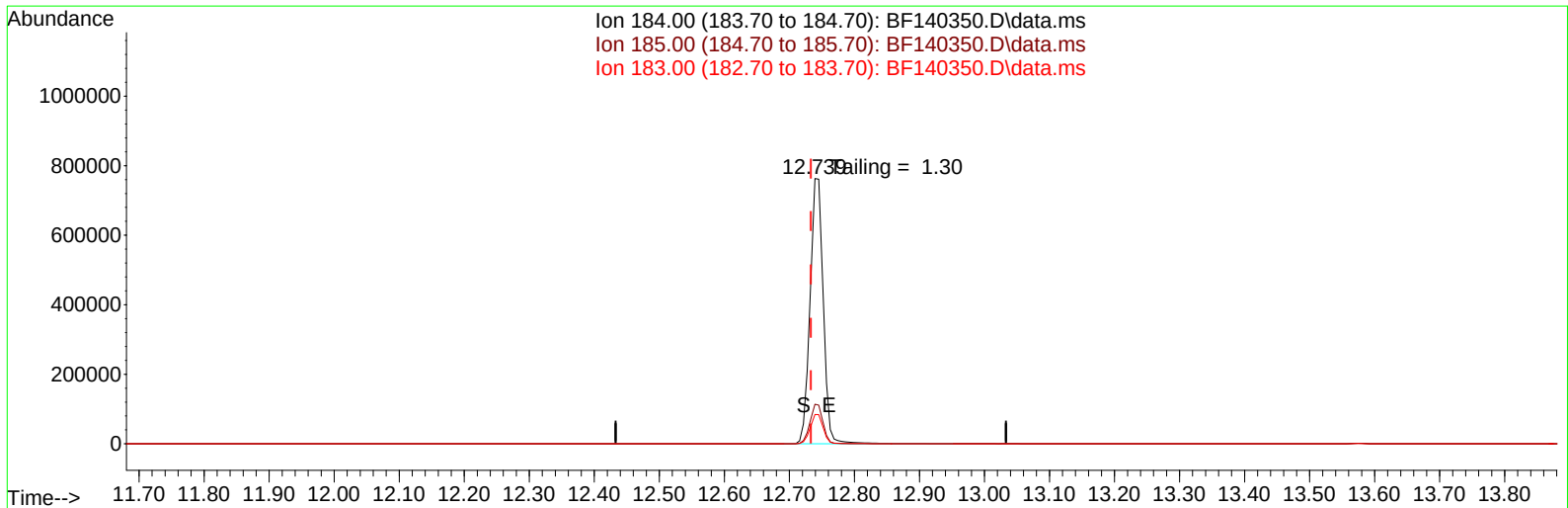
response 188723

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	66.10	67.69
264.00	62.90	63.18
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140350.D
Acq On : 14 Nov 2024 08:47
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 14 10:48:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration



TIC: BF140350.D\data.ms

(77) Benzidine

12.739min (+ 0.006) 49755.95 ng

response 1078960

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.90	14.90
183.00	10.80	11.03
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
11/14/2024	BNA_F	<u>BF140350.D</u>
Compound Name	Response	Retention Time
DDT	519001	13.574
DDD	38421	13.269
DDE	863	12.927
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
39284	558285	7.04

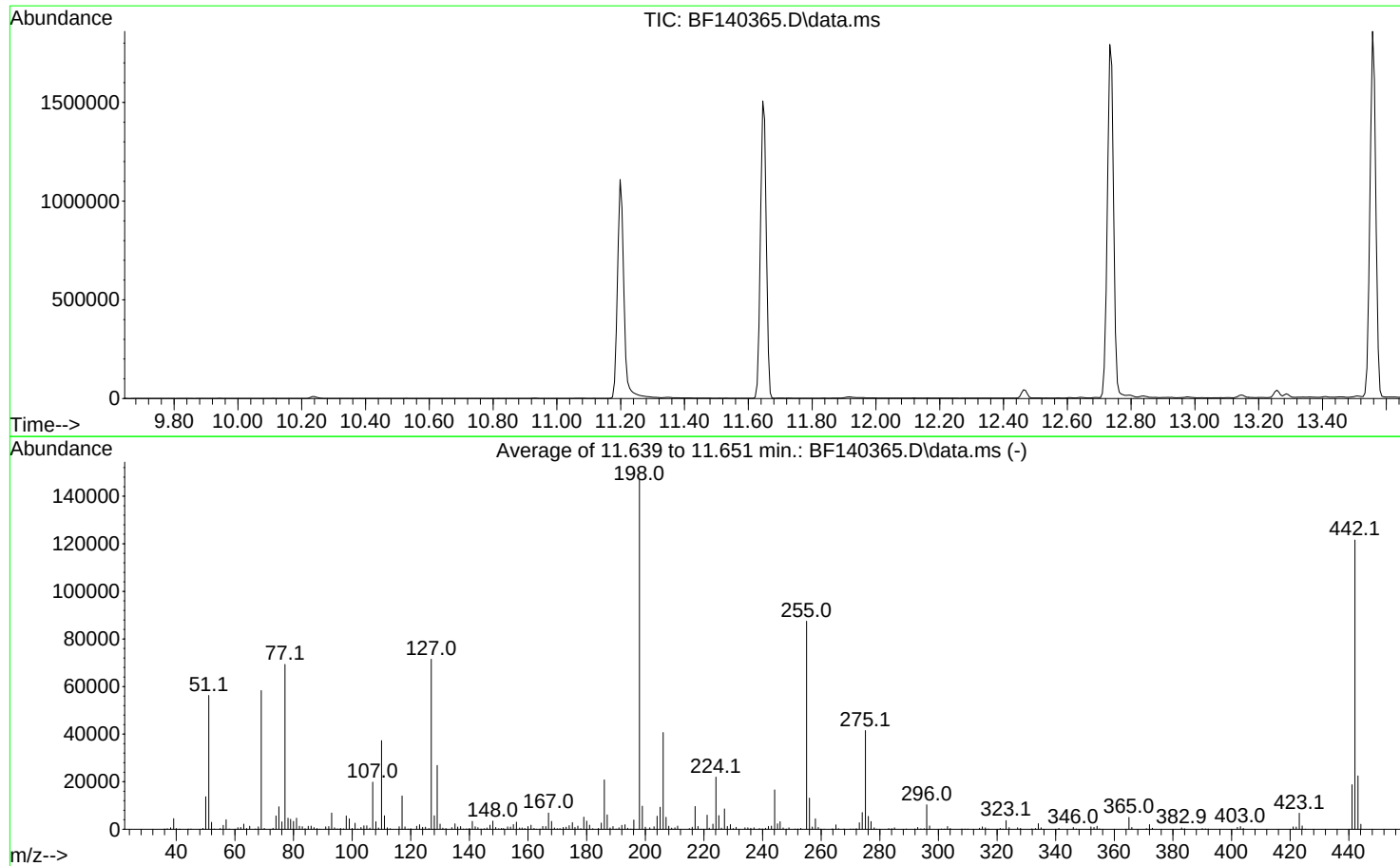
Instrument :
BNA_F
ClientSampleId :
DFTPP

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140365.D
Acq On : 14 Nov 2024 16:35
Operator : RC/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-BF111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 13 14:40:06 2024



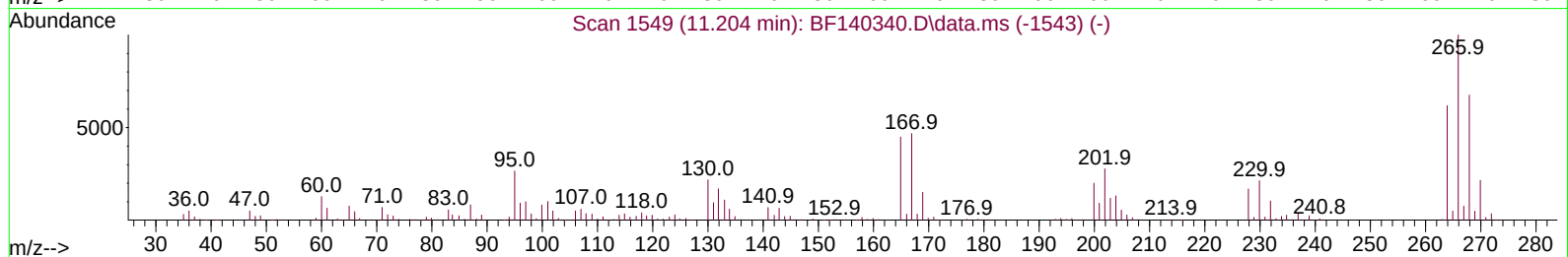
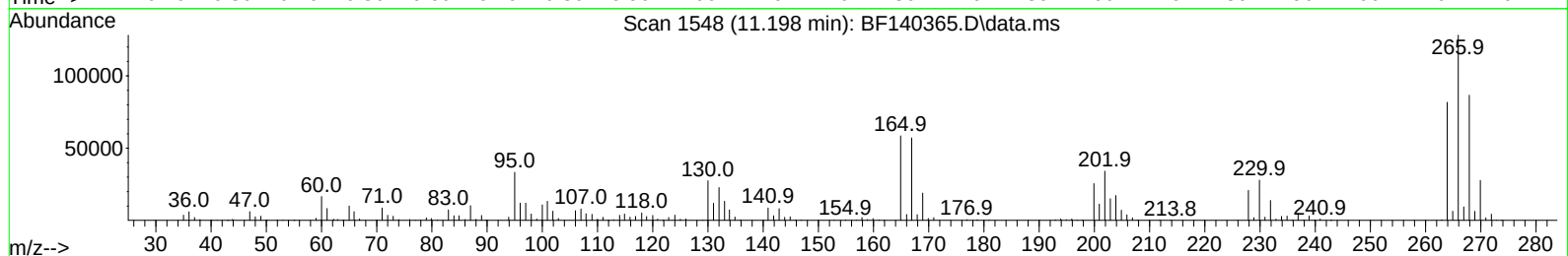
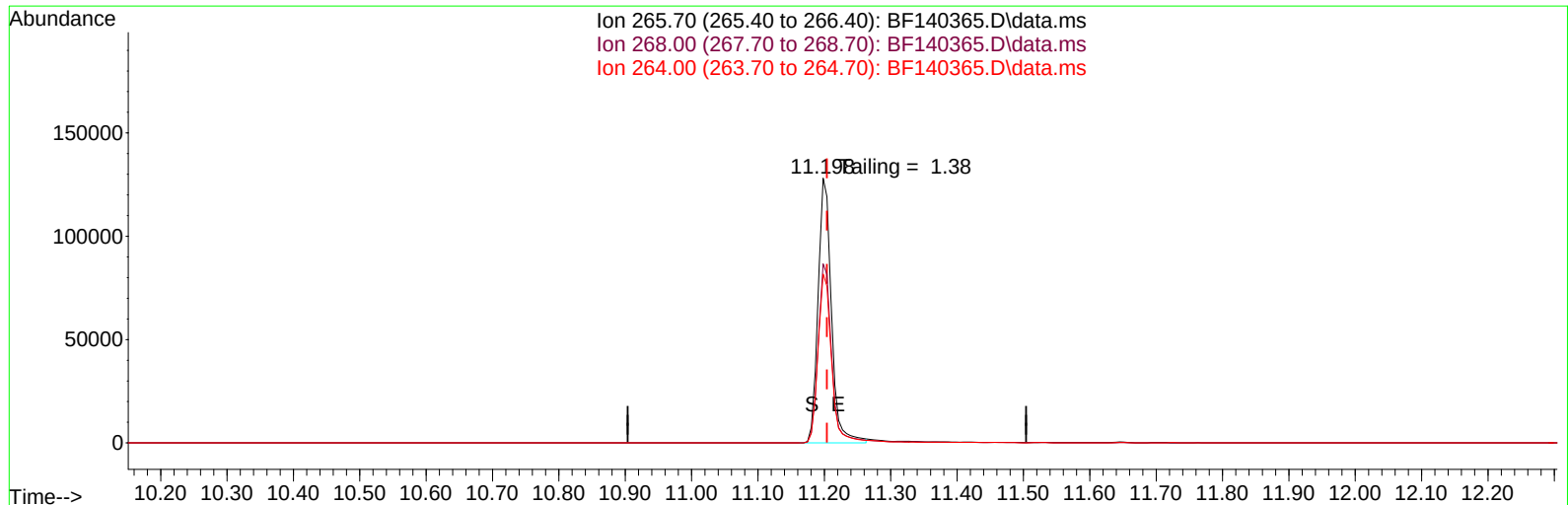
AutoFind: Scans 1623, 1624, 1625; Background Corrected with Scan 1617

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	38.3	56256	PASS
68	69	0.00	2	1.8	1048	PASS
69	198	0.00	100	39.7	58288	PASS
70	69	0.00	2	0.6	372	PASS
127	198	10	80	48.6	71504	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	146981	PASS
199	198	5	9	6.6	9705	PASS
275	198	10	60	28.2	41477	PASS
365	198	1	100	3.4	5013	PASS
441	198	0.01	100	12.8	18763	PASS
442	442	50	100	100.0	121611	PASS
443	442	15	24	18.4	22419	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140365.D
Acq On : 14 Nov 2024 16:35
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 15 03:47:18 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration



TIC: BF140365.D\data.ms

(70) Pentachlorophenol (C)

11.198min (-0.006) 63998.59 ng

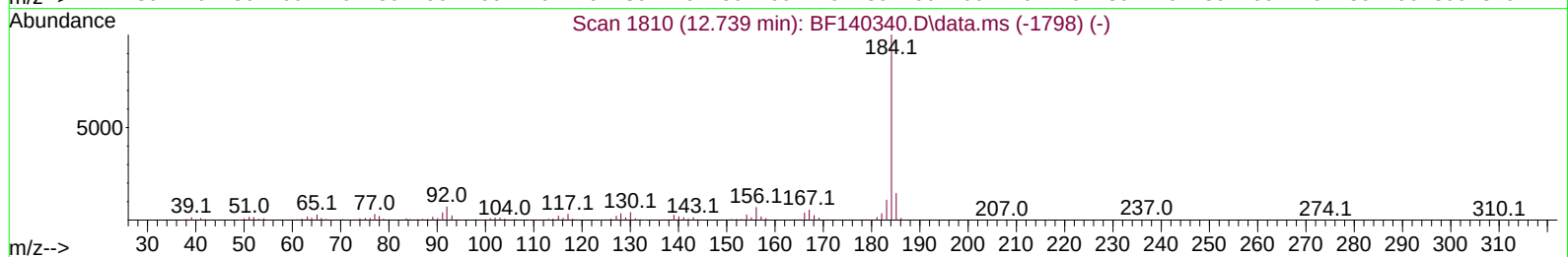
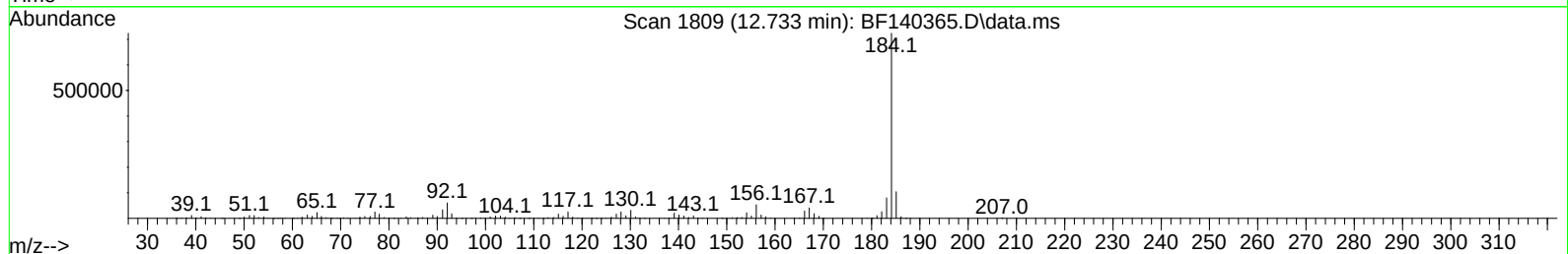
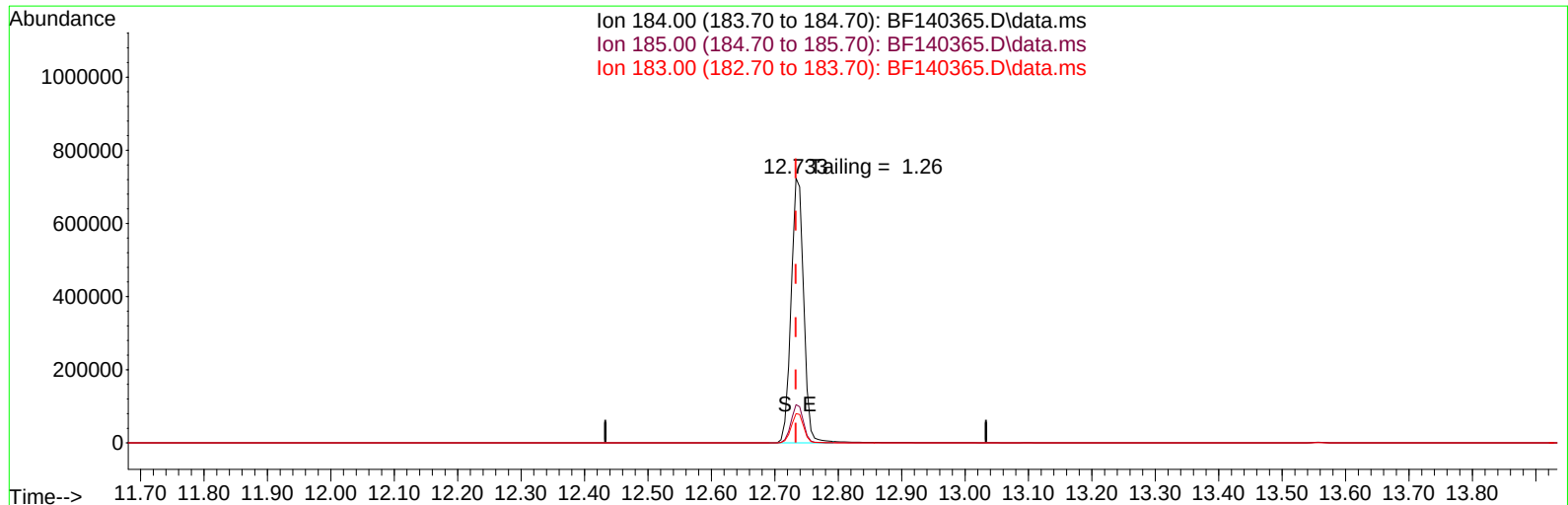
response 182621

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	66.10	67.63
264.00	62.90	63.80
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140365.D
Acq On : 14 Nov 2024 16:35
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 15 03:47:18 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration



TIC: BF140365.D\data.ms

(77) Benzidine

12.733min (+ 0.000) 36692.71 ng

response 1009743

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.90	14.42
183.00	10.80	11.08
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
11/14/2024	BNA_F	<u>BF140365.D</u>
Compound Name	Response	Retention Time
DDT	468813	13.557
DDD	15679	13.257
DDE	402	12.922
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
16081	484894	3.32

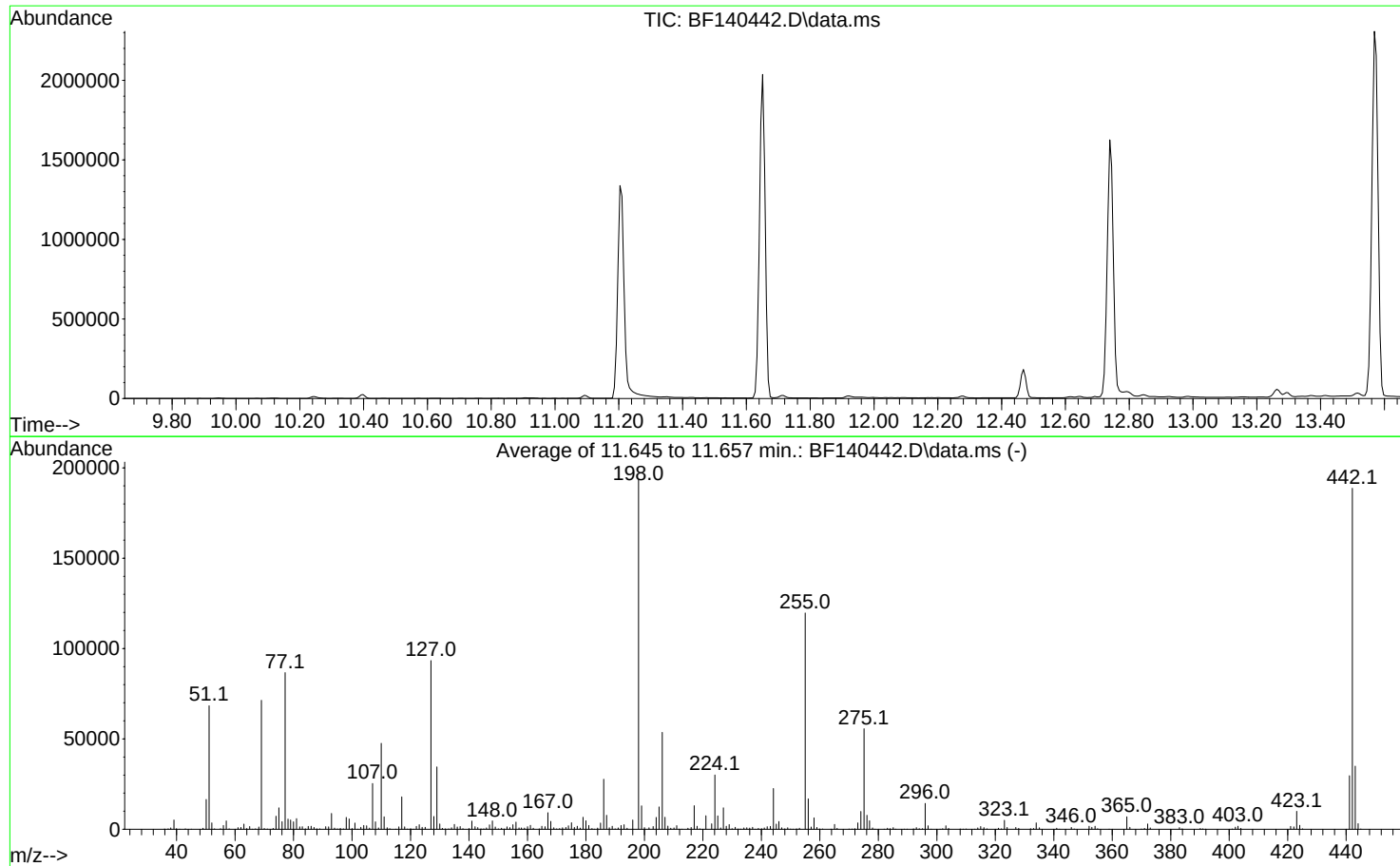
Instrument :
BNA_F
ClientSampleId :
DFTPP

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140442.D
Acq On : 18 Nov 2024 09:18
Operator : RC/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-BF111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 13 14:40:06 2024



AutoFind: Scans 1624, 1625, 1626; Background Corrected with Scan 1617

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	35.3	68384	PASS
68	69	0.00	2	1.8	1271	PASS
69	198	0.00	100	36.9	71384	PASS
70	69	0.00	2	0.7	466	PASS
127	198	10	80	48.2	93325	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	193493	PASS
199	198	5	9	6.7	12961	PASS
275	198	10	60	28.7	55613	PASS
365	198	1	100	3.6	6893	PASS
441	198	0.01	100	15.3	29637	PASS
442	442	50	100	100.0	188736	PASS
443	442	15	24	18.5	34960	PASS

DDT Breakdown

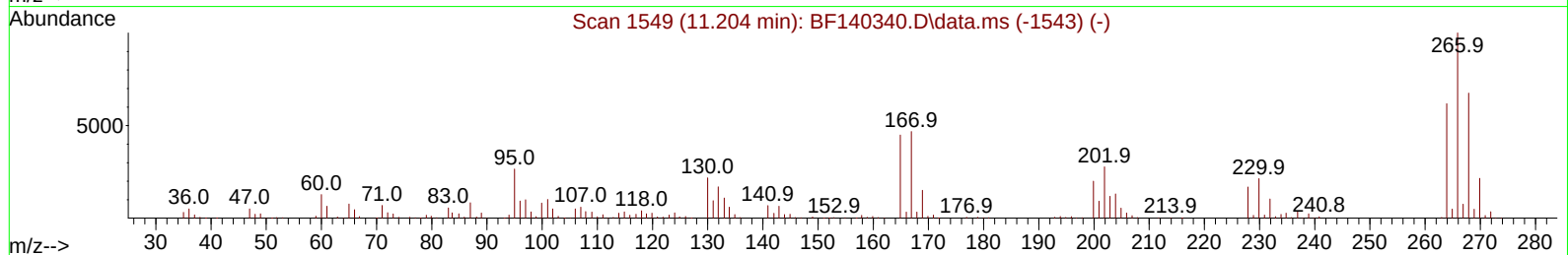
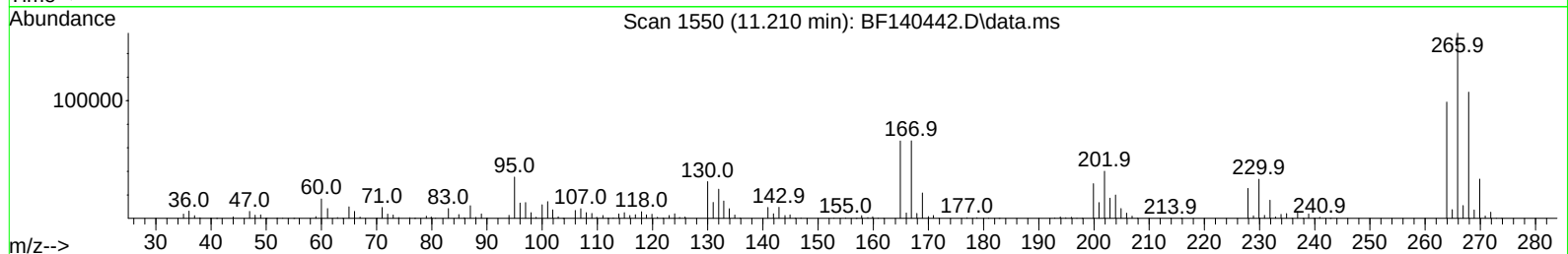
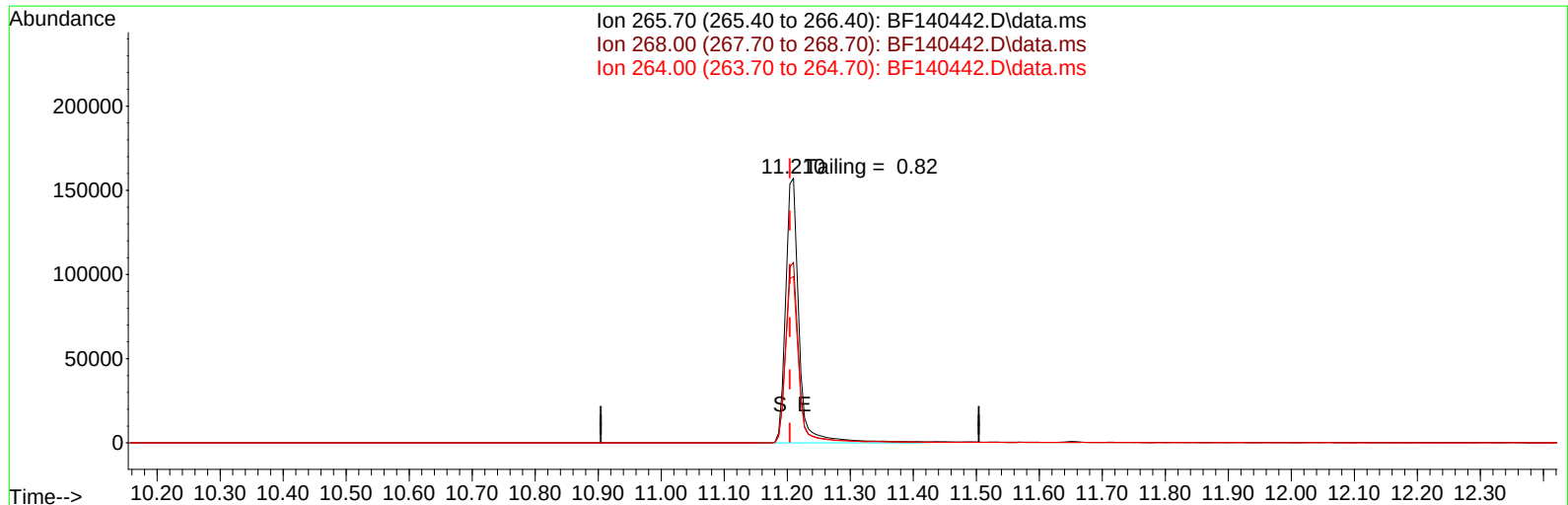
Date	Instrument Name	DFTPP Data File
11/18/2024	BNA_F	<u>BF140442.D</u>
Compound Name	Response	Retention Time
DDT	601041	13.568
DDD	19319	13.263
DDE	1174	12.927
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
20493	621534	3.30

Instrument :
BNA_F
ClientSampleId :
DFTPP

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140442.D
Acq On : 18 Nov 2024 09:18
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 18 11:35:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration



TIC: BF140442.D\data.ms

(70) Pentachlorophenol (C)

11.210min (+ 0.006) 54990.18 ng

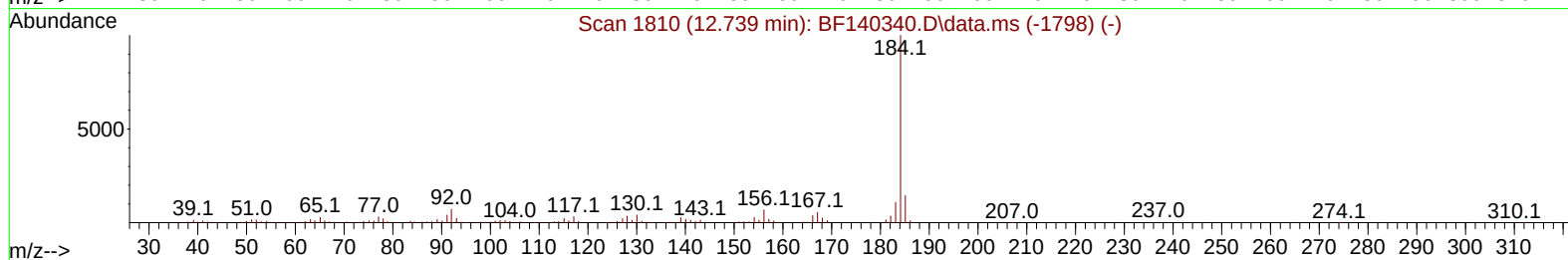
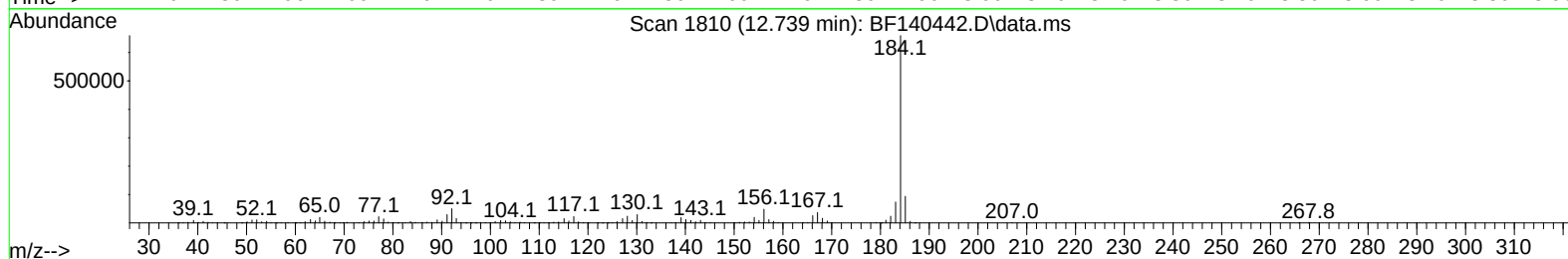
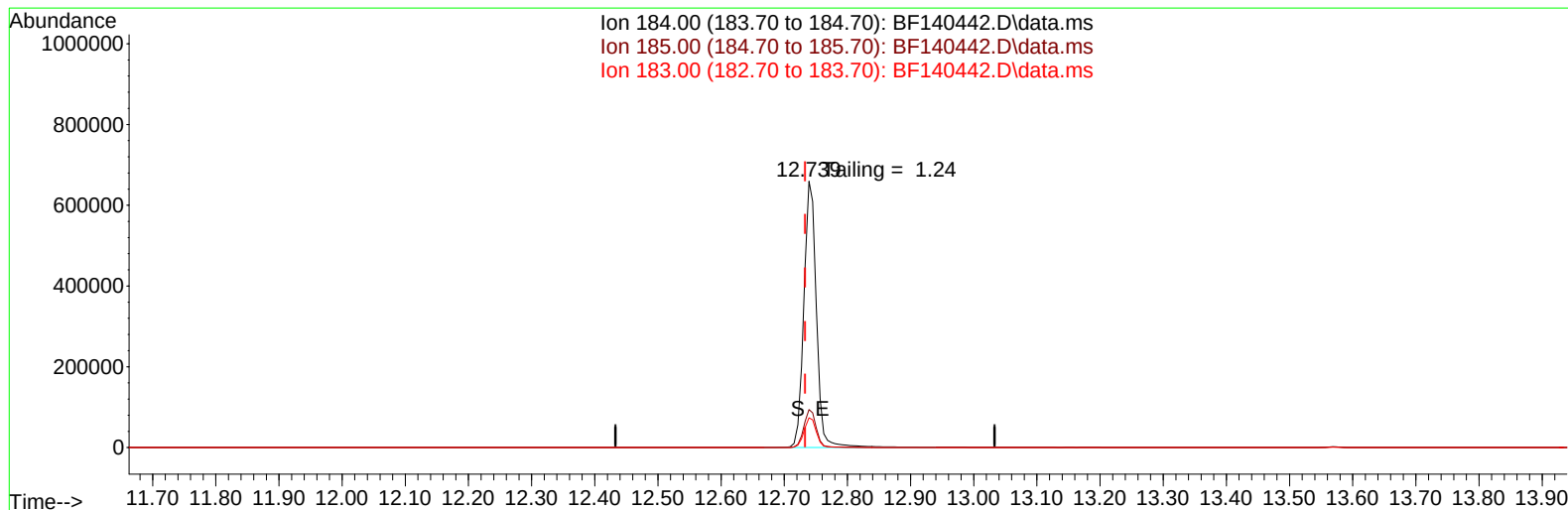
response 234207

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	66.10	68.23
264.00	62.90	62.85
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140442.D
Acq On : 18 Nov 2024 09:18
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 18 11:35:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration



TIC: BF140442.D\data.ms

(77) Benzidine

12.739min (+ 0.006) 29617.83 ng

response 919631

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.90	14.26
183.00	10.80	11.18
0.00	0.00	0.00

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164702BL	SDG No.:	P4718
Lab Sample ID:	PB164702BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
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
BF140262.D	1	11/06/24 09:45	11/07/24 09:28	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	330	ug/Kg
108-95-2	Phenol	82.8	U	82.8	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	83.6	U	83.6	170	ug/Kg
95-57-8	2-Chlorophenol	83.4	U	83.4	170	ug/Kg
95-48-7	2-Methylphenol	80.5	U	80.5	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	90.8	U	90.8	170	ug/Kg
98-86-2	Acetophenone	86.8	U	86.8	170	ug/Kg
65794-96-9	3+4-Methylphenols	79.7	U	79.7	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	40.3	U	40.3	79.9	ug/Kg
67-72-1	Hexachloroethane	82.9	U	82.9	170	ug/Kg
98-95-3	Nitrobenzene	90.7	U	90.7	170	ug/Kg
78-59-1	Isophorone	84.5	U	84.5	170	ug/Kg
88-75-5	2-Nitrophenol	94.4	U	94.4	170	ug/Kg
105-67-9	2,4-Dimethylphenol	93.1	U	93.1	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	85.7	U	85.7	170	ug/Kg
120-83-2	2,4-Dichlorophenol	75.4	U	75.4	170	ug/Kg
91-20-3	Naphthalene	82.5	U	82.5	170	ug/Kg
106-47-8	4-Chloroaniline	82.5	U	82.5	170	ug/Kg
87-68-3	Hexachlorobutadiene	83.2	U	83.2	170	ug/Kg
105-60-2	Caprolactam	86.7	U	86.7	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	77.4	U	77.4	170	ug/Kg
91-57-6	2-Methylnaphthalene	82.4	U	82.4	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	U	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	71.3	U	71.3	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	73.9	U	73.9	170	ug/Kg
92-52-4	1,1-Biphenyl	87.3	U	87.3	170	ug/Kg
91-58-7	2-Chloronaphthalene	83.2	U	83.2	170	ug/Kg
88-74-4	2-Nitroaniline	94.9	U	94.9	170	ug/Kg
131-11-3	Dimethylphthalate	81.6	U	81.6	170	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164702BL	SDG No.:	P4718
Lab Sample ID:	PB164702BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
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
BF140262.D	1	11/06/24 09:45	11/07/24 09:28	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	86.4	U	86.4	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	83.1	U	83.1	170	ug/Kg
99-09-2	3-Nitroaniline	89.1	U	89.1	170	ug/Kg
83-32-9	Acenaphthene	81.0	U	81.0	170	ug/Kg
51-28-5	2,4-Dinitrophenol	240	U	240	330	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	330	ug/Kg
132-64-9	Dibenzofuran	84.3	U	84.3	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	86.1	U	86.1	170	ug/Kg
84-66-2	Diethylphthalate	80.0	U	80.0	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	85.5	U	85.5	170	ug/Kg
86-73-7	Fluorene	85.4	U	85.4	170	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	81.5	U	81.5	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	78.8	U	78.8	170	ug/Kg
118-74-1	Hexachlorobenzene	84.9	U	84.9	170	ug/Kg
1912-24-9	Atrazine	91.3	U	91.3	170	ug/Kg
87-86-5	Pentachlorophenol	77.2	U	77.2	330	ug/Kg
85-01-8	Phenanthrene	83.9	U	83.9	170	ug/Kg
120-12-7	Anthracene	84.3	U	84.3	170	ug/Kg
86-74-8	Carbazole	80.2	U	80.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	84.2	U	84.2	170	ug/Kg
206-44-0	Fluoranthene	81.6	U	81.6	170	ug/Kg
129-00-0	Pyrene	82.9	U	82.9	170	ug/Kg
85-68-7	Butylbenzylphthalate	96.7	U	96.7	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	98.5	U	98.5	330	ug/Kg
56-55-3	Benzo(a)anthracene	80.6	U	80.6	170	ug/Kg
218-01-9	Chrysene	79.4	U	79.4	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	90.9	U	90.9	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	81.0	U	81.0	170	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164702BL	SDG No.:	P4718
Lab Sample ID:	PB164702BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
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
BF140262.D	1	11/06/24 09:45	11/07/24 09:28	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	82.5	U	82.5	170	ug/Kg
50-32-8	Benzo(a)pyrene	92.9	U	92.9	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	78.0	U	78.0	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.1	U	81.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80.0	U	80.0	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.7	U	86.7	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	74.6	U	74.6	170	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	137		30 (18) - 130 (112)	91%	SPK: 150
13127-88-3	Phenol-d6	134		30 (15) - 130 (107)	89%	SPK: 150
4165-60-0	Nitrobenzene-d5	91.0		30 (18) - 130 (107)	91%	SPK: 100
321-60-8	2-Fluorobiphenyl	91.1		30 (20) - 130 (109)	91%	SPK: 100
118-79-6	2,4,6-Tribromophenol	152		30 (10) - 130 (116)	101%	SPK: 150
1718-51-0	Terphenyl-d14	101		30 (10) - 130 (105)	101%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	166000	6.875
1146-65-2	Naphthalene-d8	651000	8.157
15067-26-2	Acenaphthene-d10	391000	9.916
1517-22-2	Phenanthrene-d10	729000	11.404
1719-03-5	Chrysene-d12	450000	14.057
1520-96-3	Perylene-d12	367000	15.568

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	86.2	J	2.29	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	350	A	5.13	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164702BL	SDG No.:	P4718
Lab Sample ID:	PB164702BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
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
BF140262.D	1	11/06/24 09:45	11/07/24 09:28	PB164702

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\BF110724\
Data File : BF140262.D
Acq On : 07 Nov 2024 09:28
Operator : RC/JU
Sample : PB164702BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164702BL

Quant Time: Nov 07 10:52:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 16:47:56 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	166392	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	650819	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	391148	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	728833	20.000	ng	0.00
76) Chrysene-d12	14.057	240	449594	20.000	ng	0.00
86) Perylene-d12	15.568	264	367483	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	1371725	136.619	ng	0.02
7) Phenol-d6	6.504	99	1727752	133.783	ng	0.00
23) Nitrobenzene-d5	7.434	82	1191580	91.029	ng	-0.01
42) 2,4,6-Tribromophenol	10.710	330	586979	151.820	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	2232636	91.144	ng	0.00
79) Terphenyl-d14	12.998	244	2762575	100.656	ng	0.00

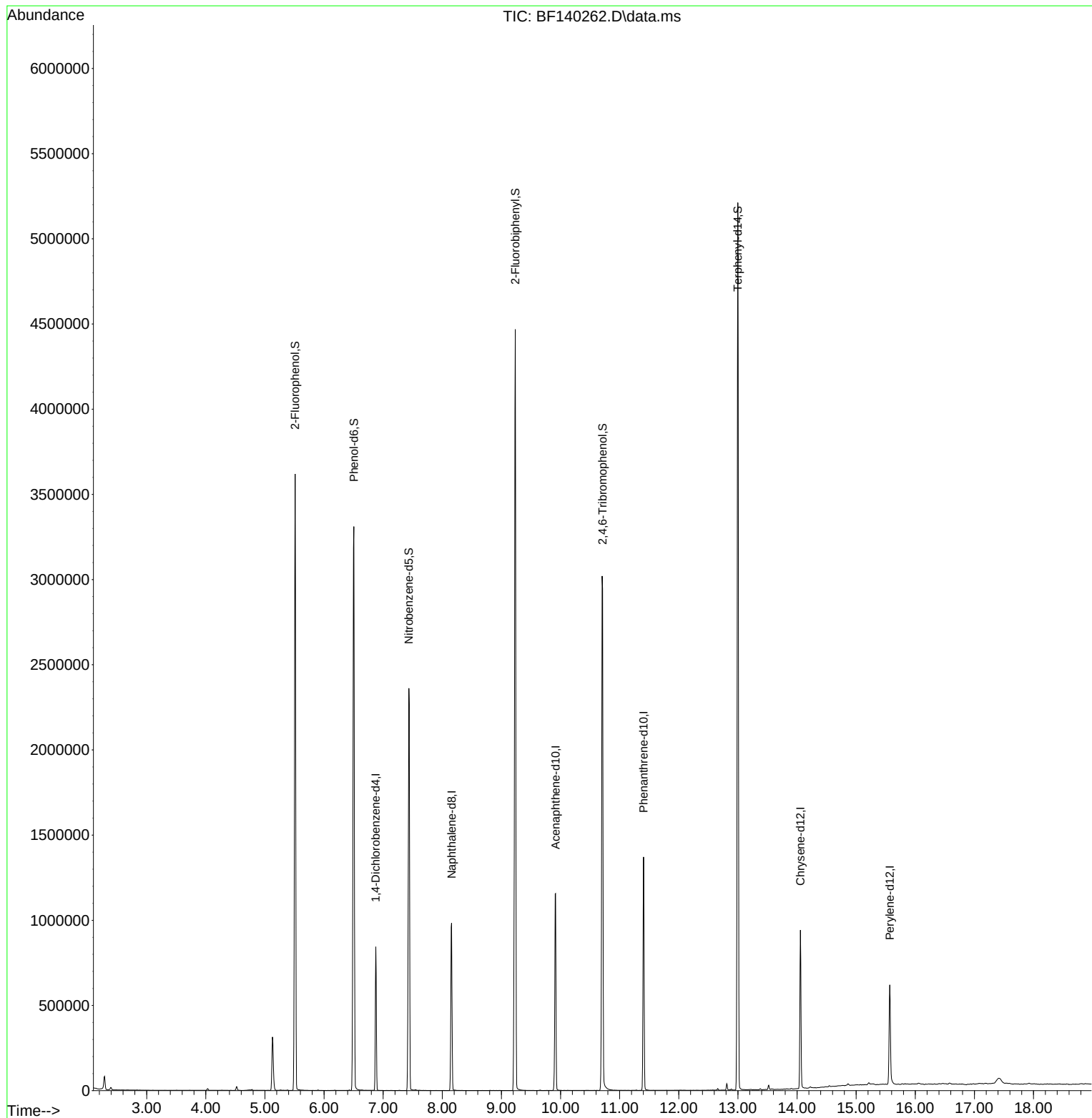
Target Compounds	Qvalue

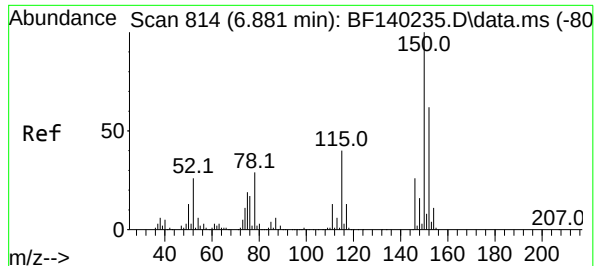
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140262.D
Acq On : 07 Nov 2024 09:28
Operator : RC/JU
Sample : PB164702BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164702BL

Quant Time: Nov 07 10:52:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 16:47:56 2024
Response via : Initial Calibration

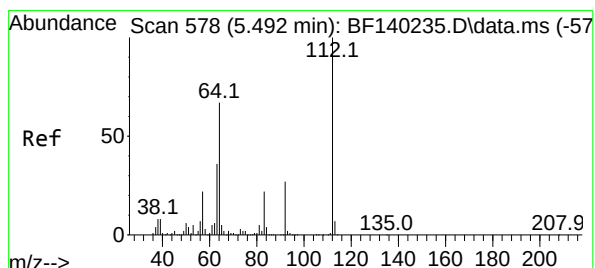
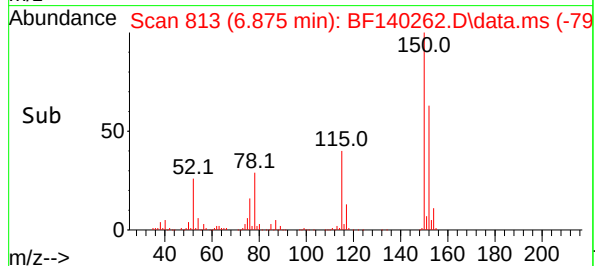
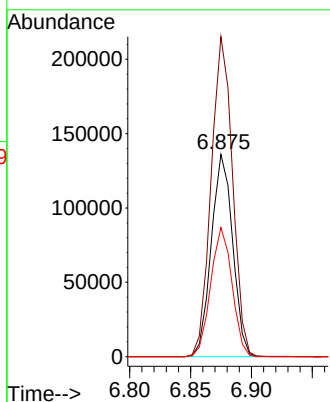
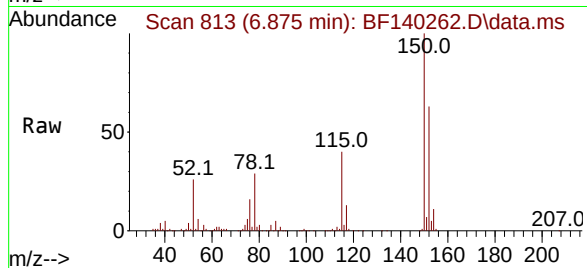




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 814
Delta R.T. -0.006 min
Lab File: BF140262.D
Acq: 07 Nov 2024 09:28

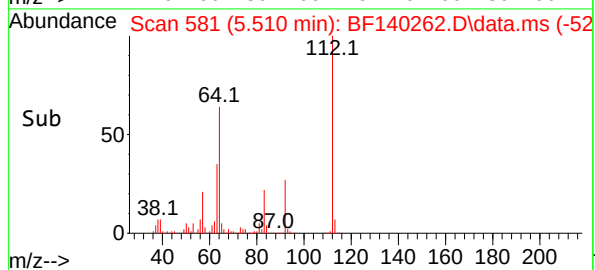
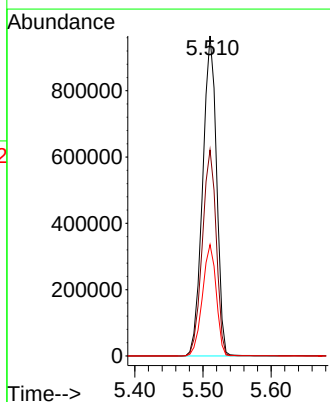
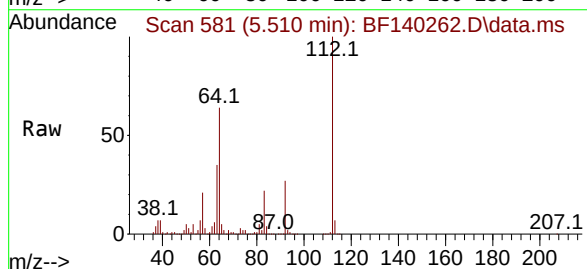
Instrument :
BNA_F
ClientSampleId :
PB164702BL

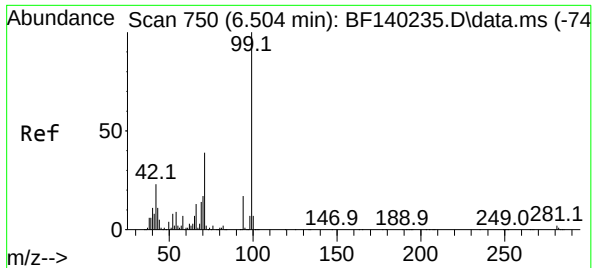
Tgt Ion:152 Resp: 166392
Ion Ratio Lower Upper
152 100
150 158.2 129.4 194.2
115 63.8 51.5 77.3



#5
2-Fluorophenol
Concen: 136.619 ng
RT: 5.510 min Scan# 581
Delta R.T. 0.018 min
Lab File: BF140262.D
Acq: 07 Nov 2024 09:28

Tgt Ion:112 Resp: 1371725
Ion Ratio Lower Upper
112 100
64 64.4 53.4 80.2
63 34.8 28.9 43.3

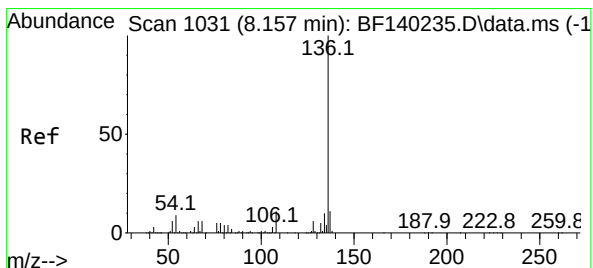
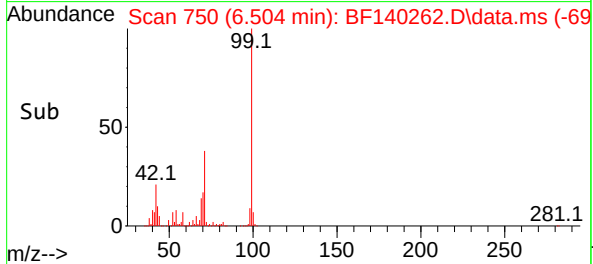
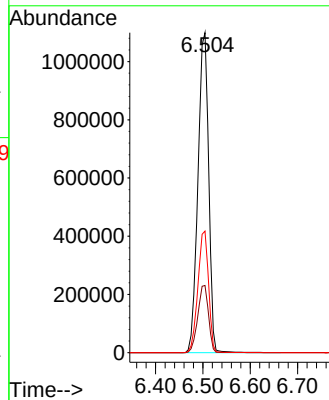
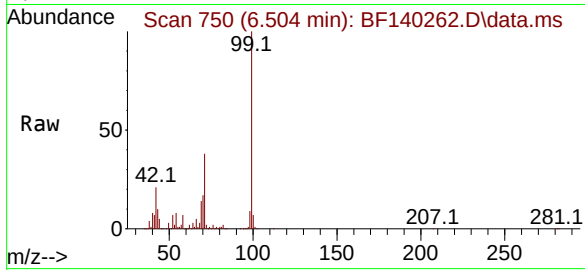




#7
Phenol-d6
Concen: 133.783 ng
RT: 6.504 min Scan# 71
Delta R.T. 0.000 min
Lab File: BF140262.D
Acq: 07 Nov 2024 09:28

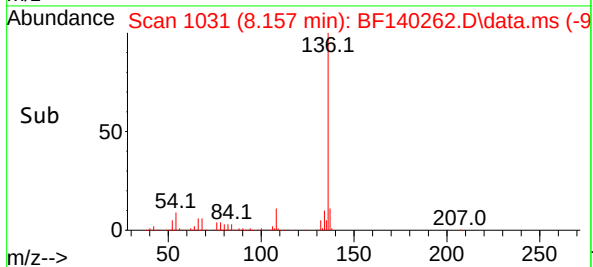
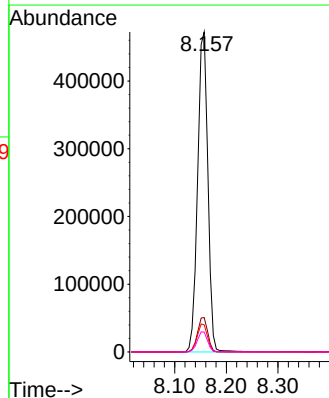
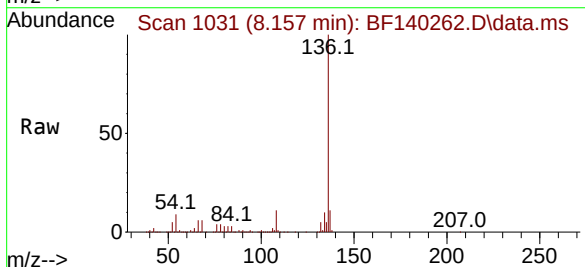
Instrument :
BNA_F
ClientSampleId :
PB164702BL

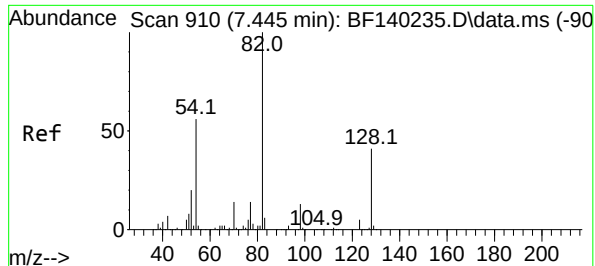
Tgt Ion: 99 Resp: 1727752
Ion Ratio Lower Upper
99 100
42 21.0 18.2 27.2
71 38.0 30.9 46.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1031
Delta R.T. 0.000 min
Lab File: BF140262.D
Acq: 07 Nov 2024 09:28

Tgt Ion: 136 Resp: 650819
Ion Ratio Lower Upper
136 100
137 10.8 9.0 13.6
54 8.5 7.7 11.5
68 6.2 5.2 7.8





#23

Nitrobenzene-d5

Concen: 91.029 ng

RT: 7.434 min Scan# 90

Delta R.T. -0.012 min

Lab File: BF140262.D

Acq: 07 Nov 2024 09:28

Instrument :

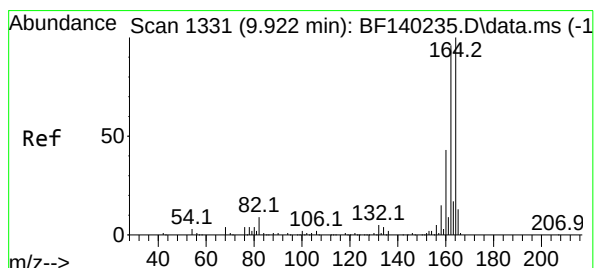
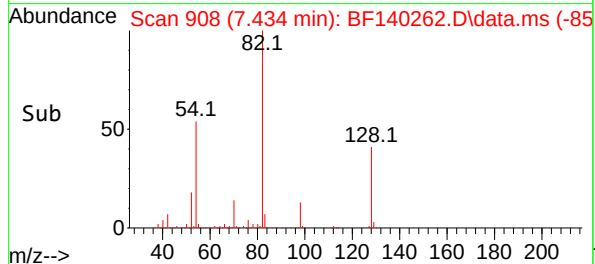
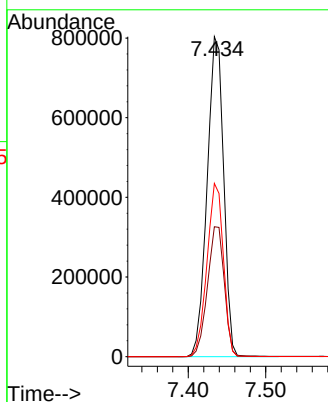
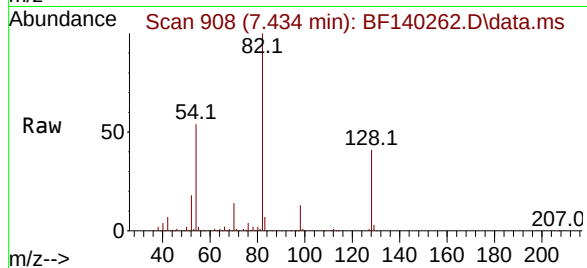
BNA_F

ClientSampleId :

PB164702BL

Tgt Ion: 82 Resp: 1191580

Ion	Ratio	Lower	Upper
82	100		
128	40.6	32.8	49.2
54	54.2	44.3	66.5



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.916 min Scan# 1330

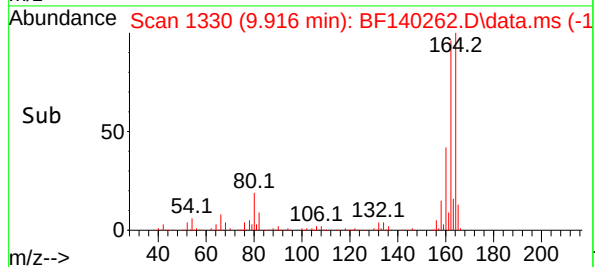
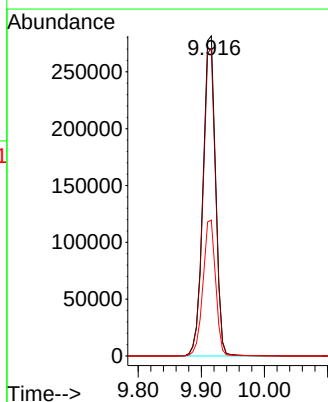
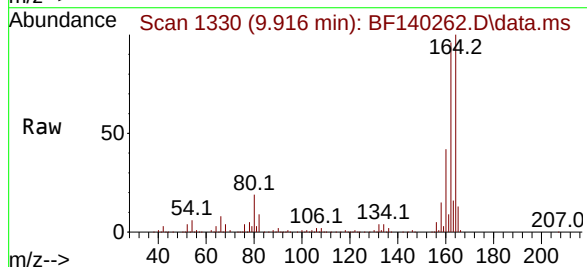
Delta R.T. -0.006 min

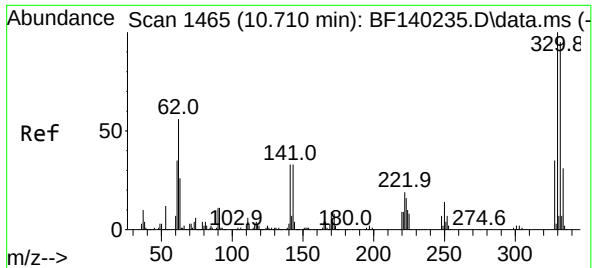
Lab File: BF140262.D

Acq: 07 Nov 2024 09:28

Tgt Ion: 164 Resp: 391148

Ion	Ratio	Lower	Upper
164	100		
162	96.0	77.0	115.4
160	42.4	34.1	51.1





#42

2,4,6-Tribromophenol

Concen: 151.820 ng

RT: 10.710 min Scan# 1465

Delta R.T. 0.000 min

Lab File: BF140262.D

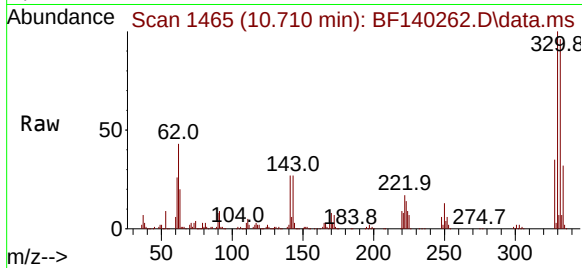
Acq: 07 Nov 2024 09:28

Instrument :

BNA_F

ClientSampleId :

PB164702BL



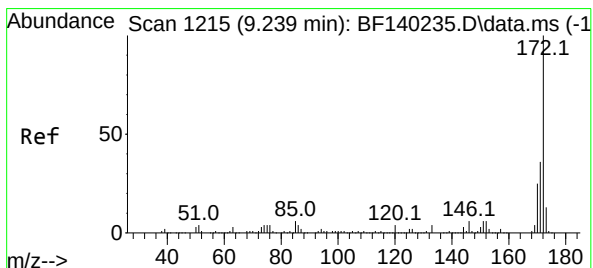
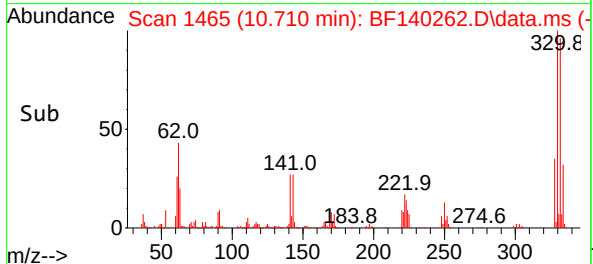
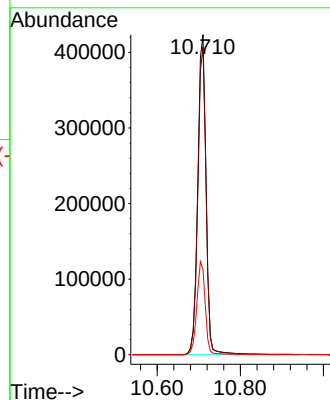
Tgt Ion:330 Resp: 586979

Ion Ratio Lower Upper

330 100

332 96.0 76.4 114.6

141 29.7 27.0 40.4



#45

2-Fluorobiphenyl

Concen: 91.144 ng

RT: 9.233 min Scan# 1214

Delta R.T. -0.006 min

Lab File: BF140262.D

Acq: 07 Nov 2024 09:28

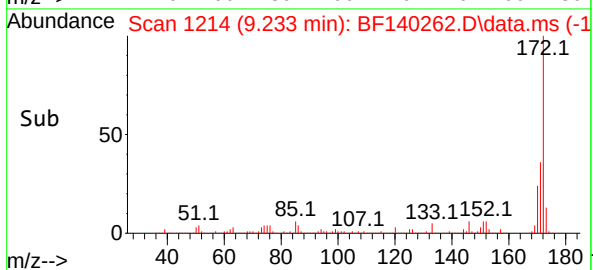
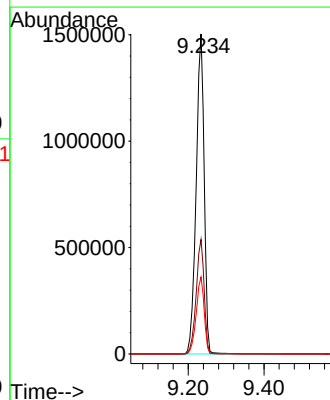
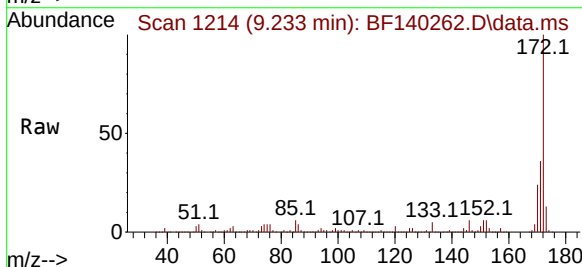
Tgt Ion:172 Resp: 2232636

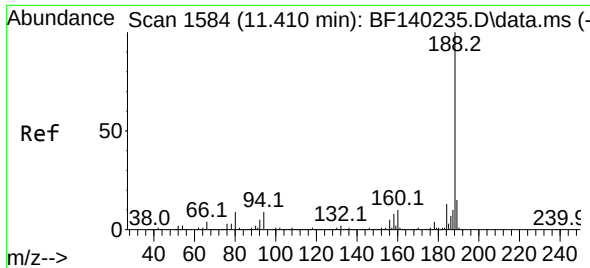
Ion Ratio Lower Upper

172 100

171 35.8 28.8 43.2

170 24.1 19.6 29.4

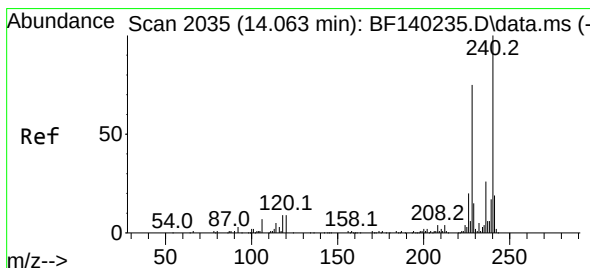
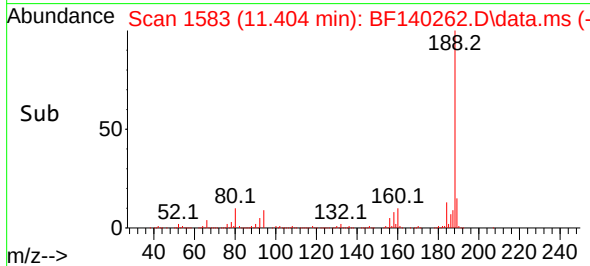
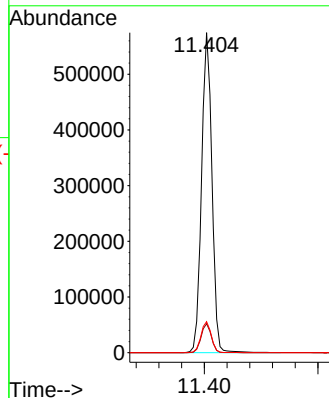
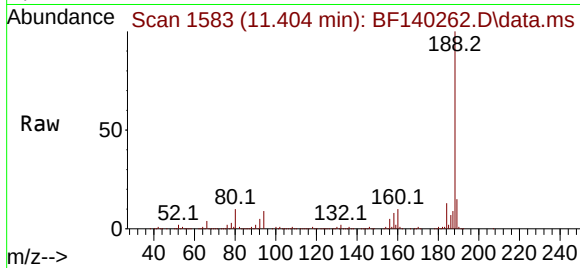




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF140262.D
Acq: 07 Nov 2024 09:28

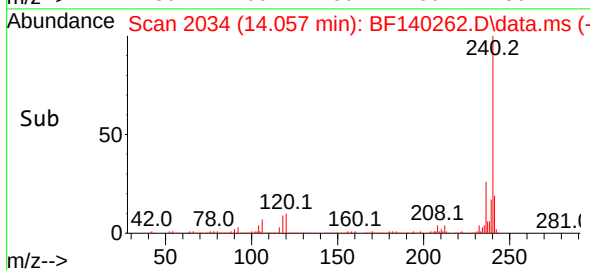
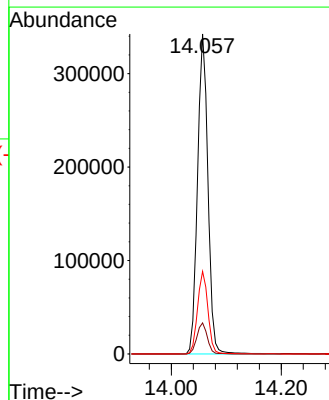
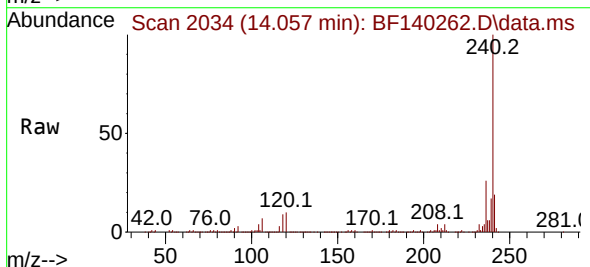
Instrument :
BNA_F
ClientSampleId :
PB164702BL

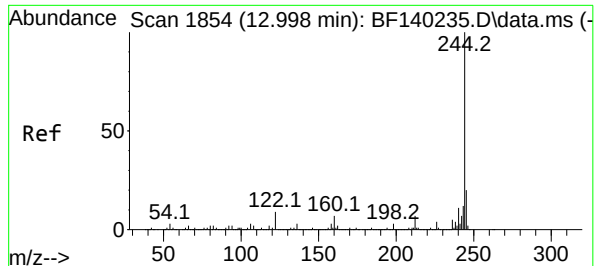
Tgt Ion:188 Resp: 728833
Ion Ratio Lower Upper
188 100
94 9.1 6.9 10.3
80 9.7 7.5 11.3



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2034
Delta R.T. -0.006 min
Lab File: BF140262.D
Acq: 07 Nov 2024 09:28

Tgt Ion:240 Resp: 449594
Ion Ratio Lower Upper
240 100
120 9.7 7.5 11.3
236 25.8 20.9 31.3





#79

Terphenyl-d14

Concen: 100.656 ng

RT: 12.998 min Scan# 1854

Delta R.T. 0.000 min

Lab File: BF140262.D

Acq: 07 Nov 2024 09:28

Instrument :

BNA_F

ClientSampleId :

PB164702BL

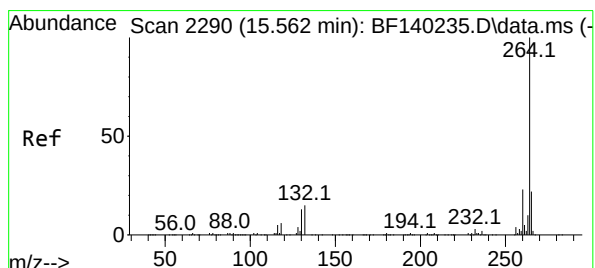
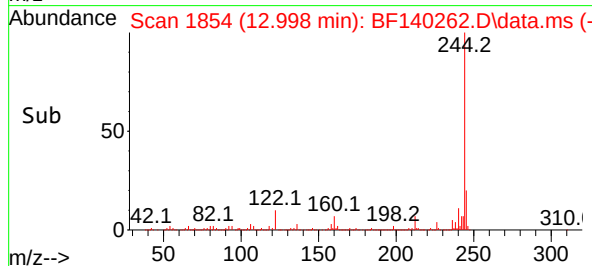
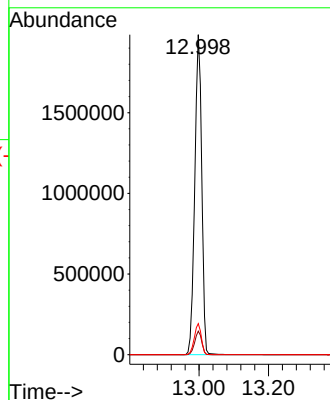
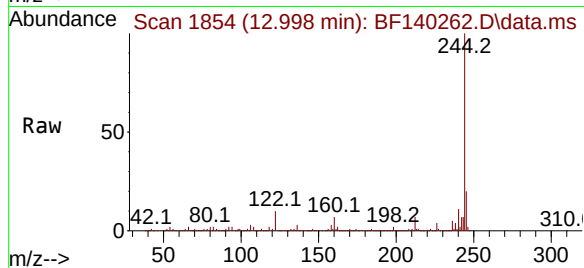
Tgt Ion:244 Resp: 2762575

Ion Ratio Lower Upper

244 100

212 7.4 6.0 9.0

122 9.7 7.6 11.4



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.568 min Scan# 2291

Delta R.T. 0.006 min

Lab File: BF140262.D

Acq: 07 Nov 2024 09:28

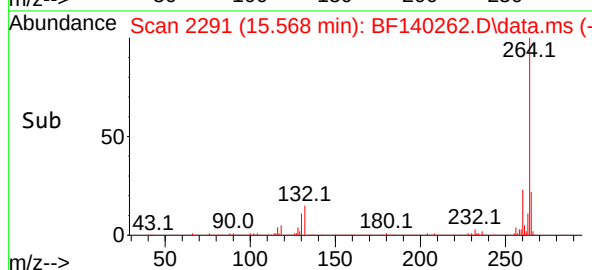
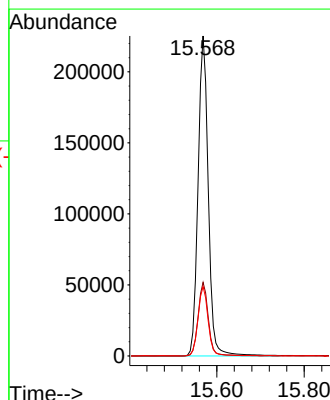
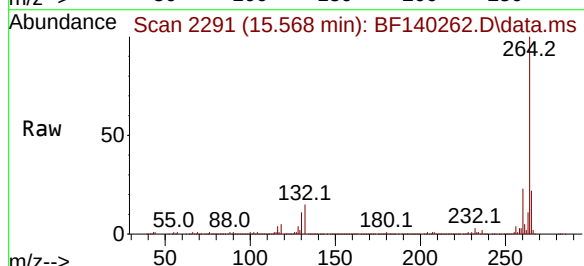
Tgt Ion:264 Resp: 367483

Ion Ratio Lower Upper

264 100

260 23.0 18.8 28.2

265 21.7 17.3 25.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140262.D
Acq On : 07 Nov 2024 09:28
Operator : RC/JU
Sample : PB164702BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164702BL

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

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-BF110524.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140262.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.287	26	33	39	rVB	77146	132721	1.84%	0.328%
2	5.128	509	516	534	rBV	313380	540358	7.49%	1.334%
3	5.510	574	581	586	rBV	3617797	5118542	70.97%	12.639%
4	6.504	742	750	755	rBV	3309957	5159157	71.53%	12.739%
5	6.875	808	813	818	rBV	841885	1023737	14.19%	2.528%
6	7.434	901	908	914	rBV	2361152	3499568	48.52%	8.641%
7	8.157	1024	1031	1036	rBV	981813	1348510	18.70%	3.330%
8	9.234	1206	1214	1219	rBV	4467775	6569631	91.09%	16.222%
9	9.916	1322	1330	1335	rBV	1155959	1605884	22.27%	3.965%
10	10.704	1456	1464	1499	rBV	3018675	4352303	60.35%	10.747%
11	11.404	1576	1583	1604	rBV	1369851	1727144	23.95%	4.265%
12	12.998	1847	1854	1859	rBV	5208345	7212283	100.00%	17.809%
13	14.057	2028	2034	2046	rBV	930597	1232162	17.08%	3.043%
14	15.568	2285	2291	2309	rVB	584109	975348	13.52%	2.408%

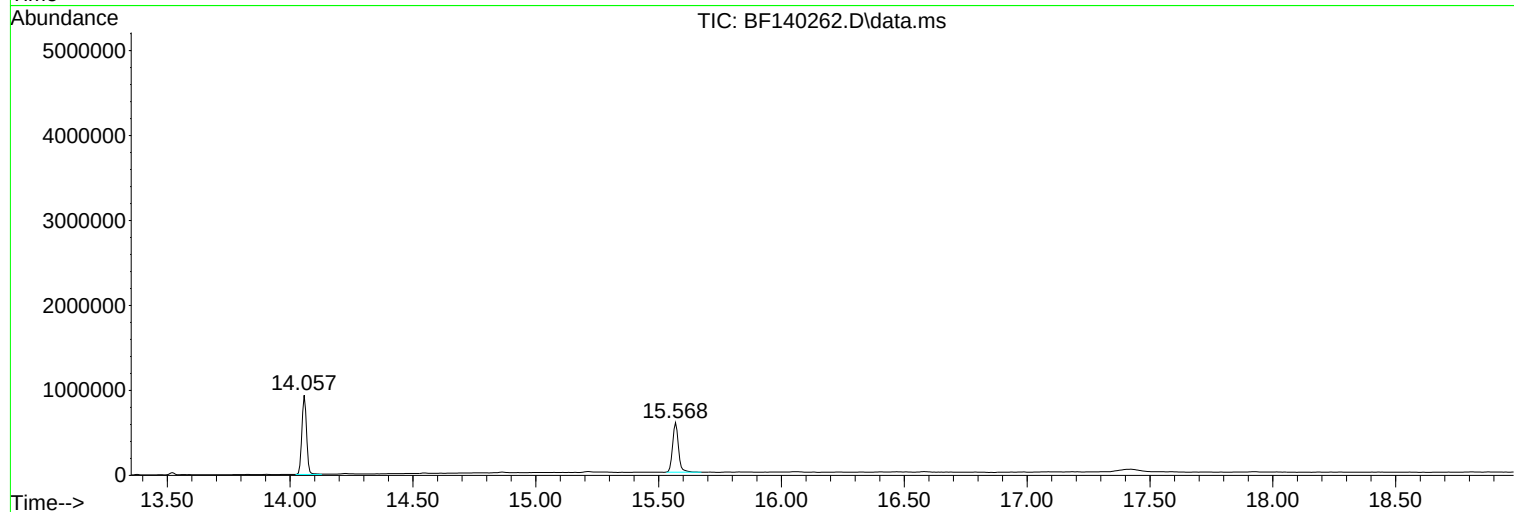
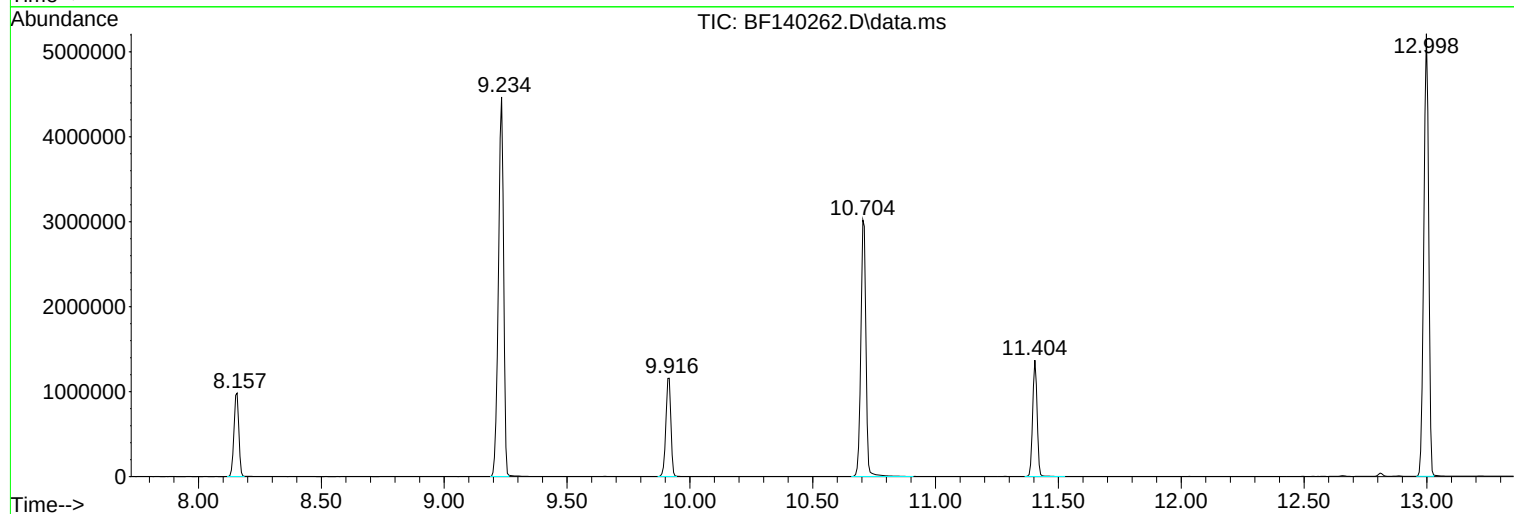
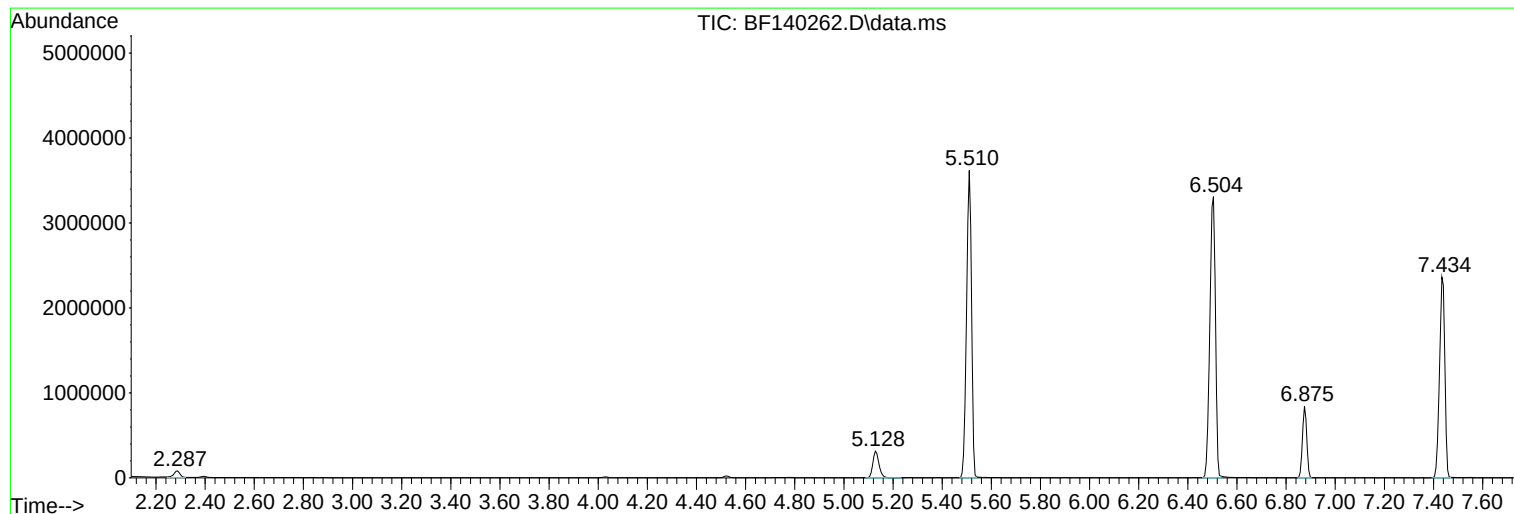
Sum of corrected areas: 40497348

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140262.D
Acq On : 07 Nov 2024 09:28
Operator : RC/JU
Sample : PB164702BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164702BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.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\BF110724\
Data File : BF140262.D
Acq On : 07 Nov 2024 09:28
Operator : RC/JU
Sample : PB164702BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164702BL

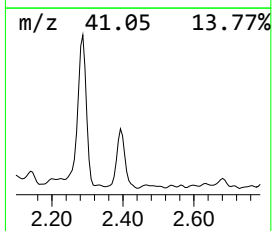
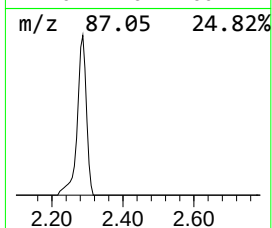
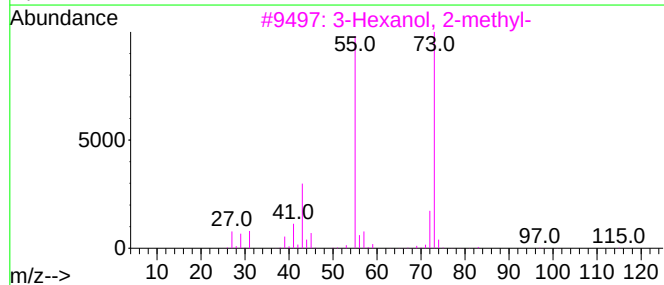
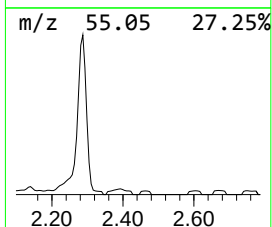
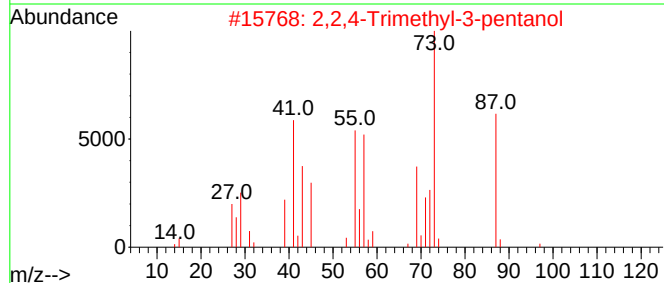
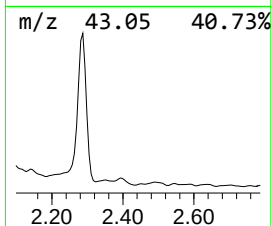
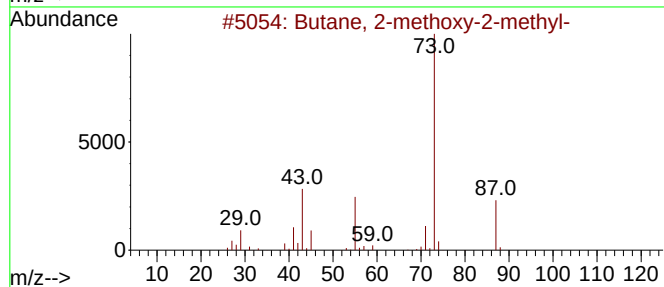
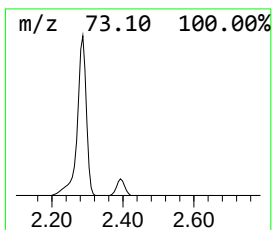
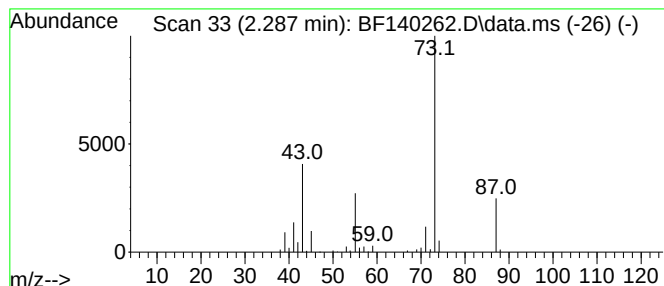
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.287	2.59 ng	132721	1,4-Dichlorobenzene-d4	6.875

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2			2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3			3-Hexanol, 2-methyl-	116	C7H16O	000617-29-8	25
4			Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17
5			Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140262.D
Acq On : 07 Nov 2024 09:28
Operator : RC/JU
Sample : PB164702BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

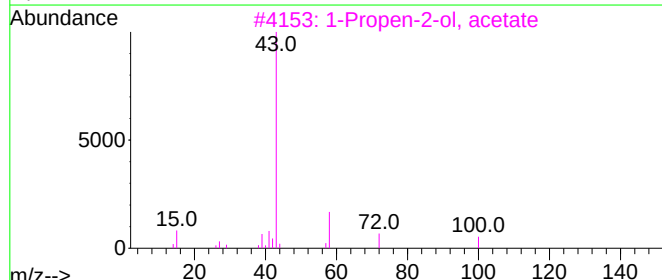
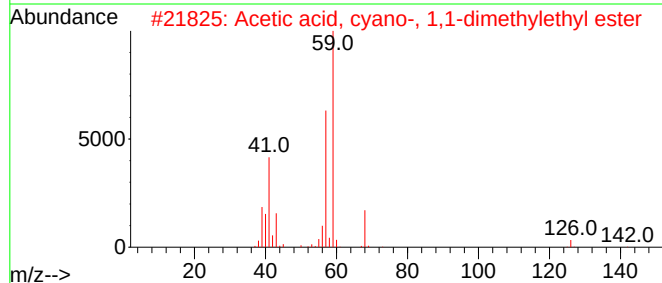
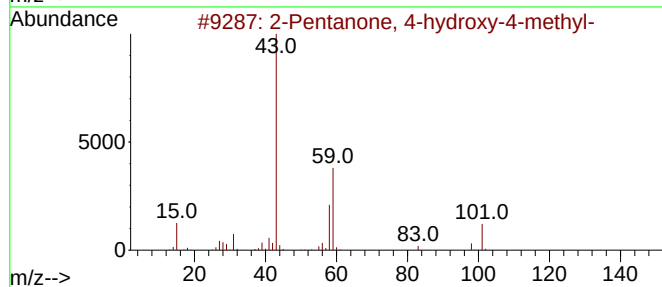
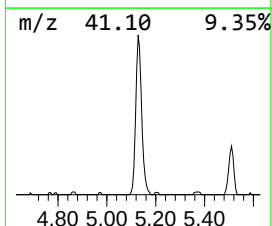
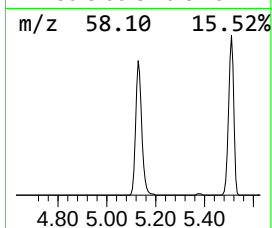
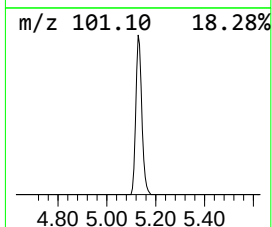
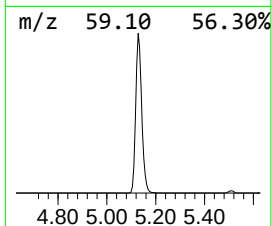
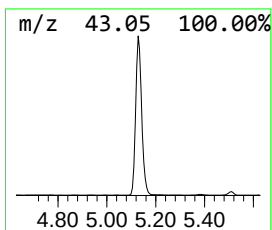
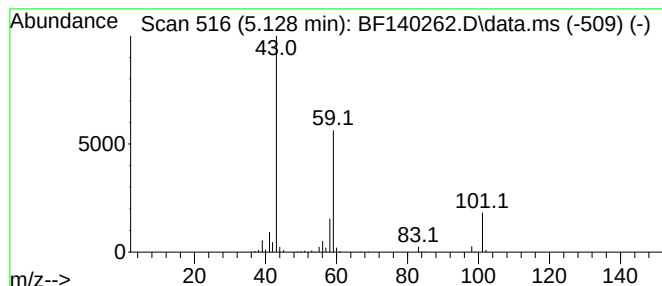
Instrument :
BNA_F
ClientSampleId :
PB164702BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
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.	
5.128	10.56 ng	540358	1,4-Dichlorobenzene-d4	6.875	
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	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	10
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140262.D
Acq On : 07 Nov 2024 09:28
Operator : RC/JU
Sample : PB164702BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164702BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.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
Butane, 2-metho...	2.287	2.6	ng	132721	1	6.875	1023740	20.0
2-Pentanone, 4-...	5.128	10.6	ng	540358	1	6.875	1023740	20.0

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164846BL	SDG No.:	P4718
Lab Sample ID:	PB164846BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140367.D	1	11/09/24 08:38	11/14/24 17:28	PB164846

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.00	U	4.00	10.0	ug/L
108-95-2	Phenol	0.93	U	0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.00	ug/L
95-57-8	2-Chlorophenol	0.71	U	0.71	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.00	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.50	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.00	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.00	ug/L
78-59-1	Isophorone	1.10	U	1.10	5.00	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.50	U	1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.00	U	1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.88	U	0.88	5.00	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.00	ug/L
106-47-8	4-Chloroaniline	1.30	U	1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.00	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.84	U	0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	1.10	U	1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	5.00	U	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.89	U	0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	0.91	U	0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.97	U	0.97	5.00	ug/L
88-74-4	2-Nitroaniline	1.40	U	1.40	5.00	ug/L
131-11-3	Dimethylphthalate	0.93	U	0.93	5.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164846BL	SDG No.:	P4718
Lab Sample ID:	PB164846BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140367.D	1	11/09/24 08:38	11/14/24 17:28	PB164846

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.00	U	1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
99-09-2	3-Nitroaniline	1.40	U	1.40	5.00	ug/L
83-32-9	Acenaphthene	0.81	U	0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.40	U	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	2.00	U	2.00	10.0	ug/L
132-64-9	Dibenzofuran	0.93	U	0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.50	U	1.50	5.00	ug/L
84-66-2	Diethylphthalate	1.00	U	1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.98	U	0.98	5.00	ug/L
86-73-7	Fluorene	0.96	U	0.96	5.00	ug/L
100-01-6	4-Nitroaniline	2.00	U	2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.10	U	3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.89	U	0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.95	U	0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	1.10	U	1.10	5.00	ug/L
1912-24-9	Atrazine	1.30	U	1.30	5.00	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.0	ug/L
85-01-8	Phenanthrene	0.89	U	0.89	5.00	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.00	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.00	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.00	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	2.10	U	2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	U	1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.94	U	0.94	5.00	ug/L
218-01-9	Chrysene	0.86	U	0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.50	U	2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	1.10	U	1.10	5.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164846BL	SDG No.:	P4718
Lab Sample ID:	PB164846BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140367.D	1	11/09/24 08:38	11/14/24 17:28	PB164846

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.00	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.79	U	0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	135		15 (10) - 110 (139)	90%	SPK: 150
13127-88-3	Phenol-d6	130		15 (10) - 110 (134)	87%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.4		30 (49) - 130 (133)	92%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.6		30 (52) - 130 (132)	94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	135		15 (44) - 110 (137)	90%	SPK: 150
1718-51-0	Terphenyl-d14	85.1		30 (48) - 130 (125)	85%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	127000	6.869			
1146-65-2	Naphthalene-d8	482000	8.151			
15067-26-2	Acenaphthene-d10	268000	9.904			
1517-22-2	Phenanthrene-d10	520000	11.392			
1719-03-5	Chrysene-d12	354000	14.057			
1520-96-3	Perylene-d12	318000	15.586			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	3.60	J		2.22	ug/L
004744-10-9	Propane, 1,1-dimethoxy-	2.90	J		2.33	ug/L
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	5.80	A		5.12	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164846BL	SDG No.:	P4718
Lab Sample ID:	PB164846BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140367.D	1	11/09/24 08:38	11/14/24 17:28	PB164846

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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\BF111424\
Data File : BF140367.D
Acq On : 14 Nov 2024 17:28
Operator : RC/JU
Sample : PB164846BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164846BL

Quant Time: Nov 15 00:27:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	127444	20.000	ng	-0.01
21) Naphthalene-d8	8.151	136	481597	20.000	ng	0.00
39) Acenaphthene-d10	9.904	164	267971	20.000	ng	-0.01
64) Phenanthrene-d10	11.392	188	519861	20.000	ng	-0.01
76) Chrysene-d12	14.057	240	353605	20.000	ng	0.00
86) Perylene-d12	15.586	264	317877	20.000	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	1010890	135.430	ng	0.01
7) Phenol-d6	6.498	99	1317260	130.255	ng	0.00
23) Nitrobenzene-d5	7.434	82	853691	92.359	ng	0.00
42) 2,4,6-Tribromophenol	10.698	330	359138	134.773	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	1560454	93.611	ng	0.00
79) Terphenyl-d14	12.986	244	1733695	85.104	ng	0.00

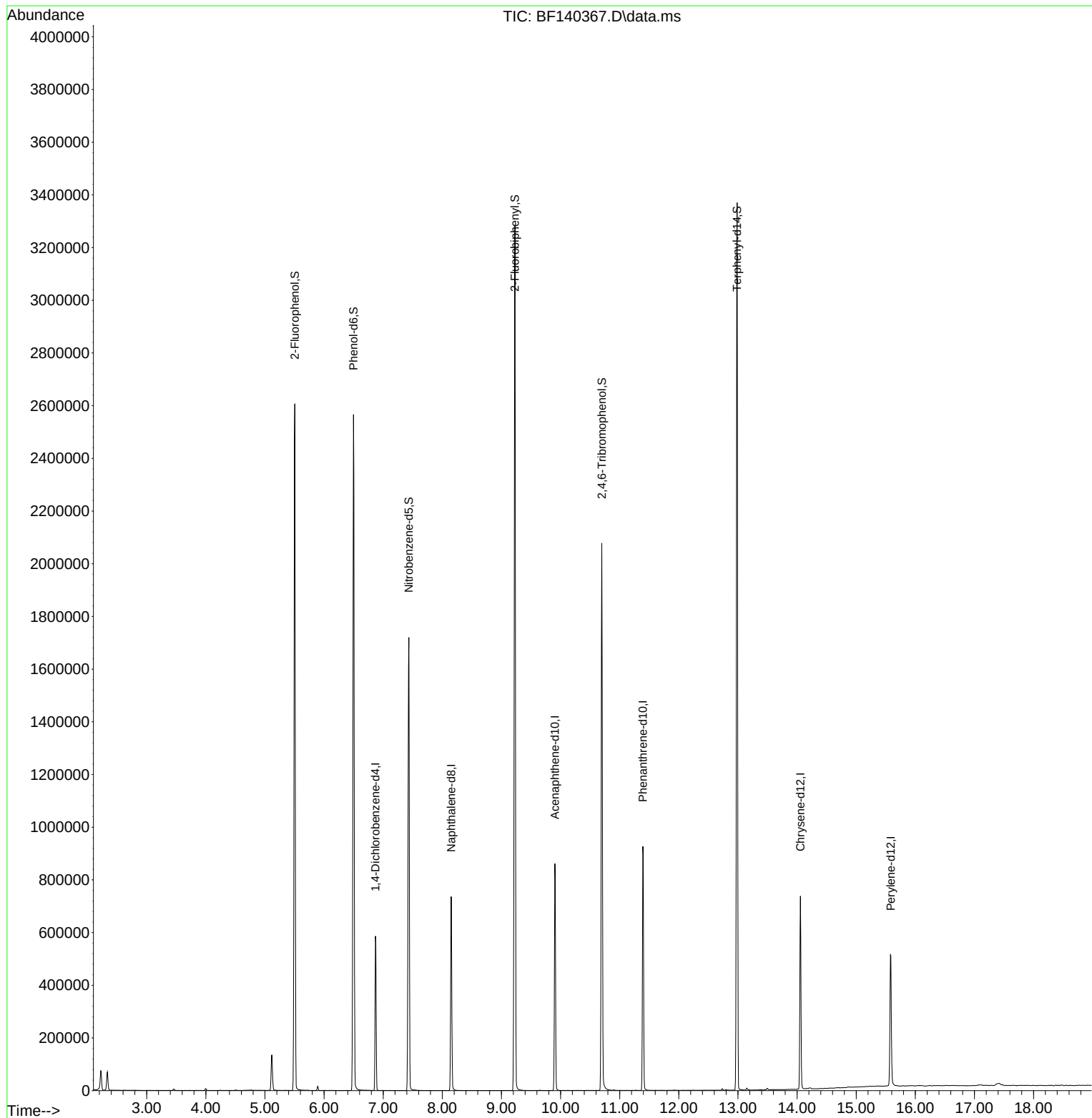
Target Compounds	Qvalue

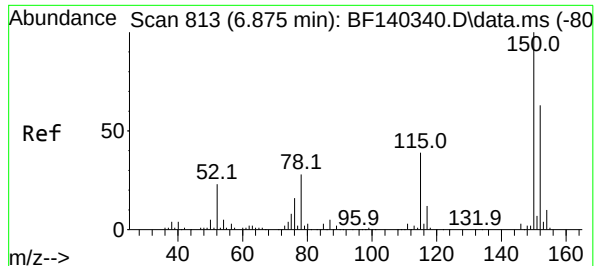
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140367.D
Acq On : 14 Nov 2024 17:28
Operator : RC/JU
Sample : PB164846BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164846BL

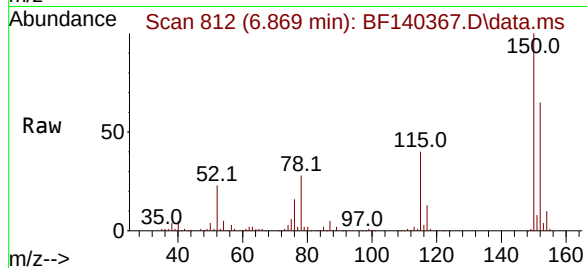
Quant Time: Nov 15 00:27:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration



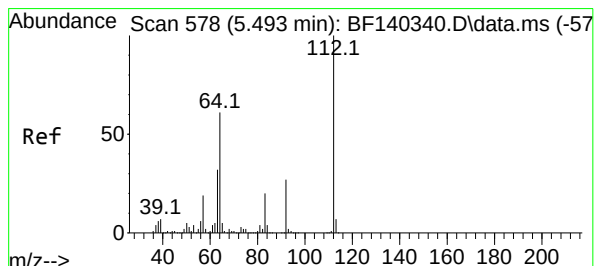
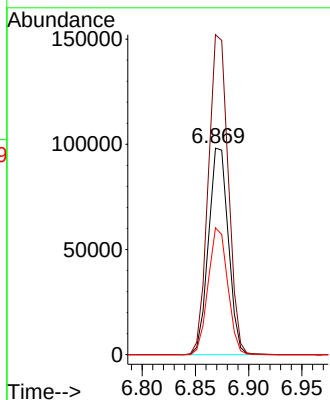
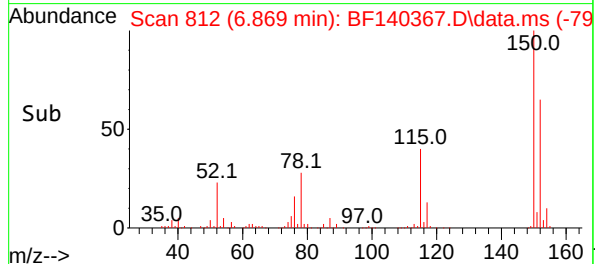


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 81
Delta R.T. -0.012 min
Lab File: BF140367.D
Acq: 14 Nov 2024 17:28

Instrument :
BNA_F
ClientSampleId :
PB164846BL

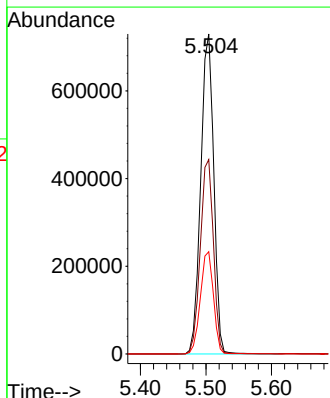
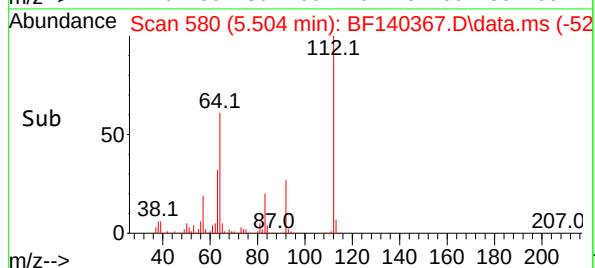
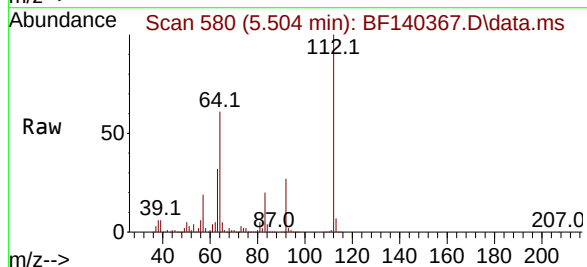


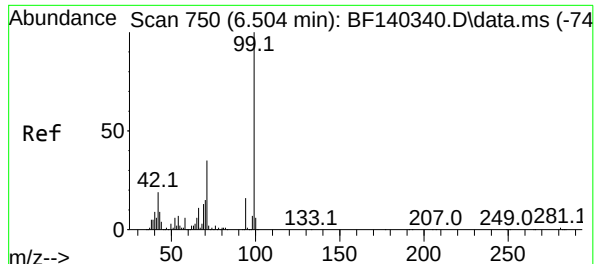
Tgt Ion:152 Resp: 127444
Ion Ratio Lower Upper
152 100
150 154.9 127.4 191.0
115 61.4 47.4 71.2



#5
2-Fluorophenol
Concen: 135.430 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.012 min
Lab File: BF140367.D
Acq: 14 Nov 2024 17:28

Tgt Ion:112 Resp: 1010890
Ion Ratio Lower Upper
112 100
64 60.8 49.2 73.8
63 31.9 25.6 38.4

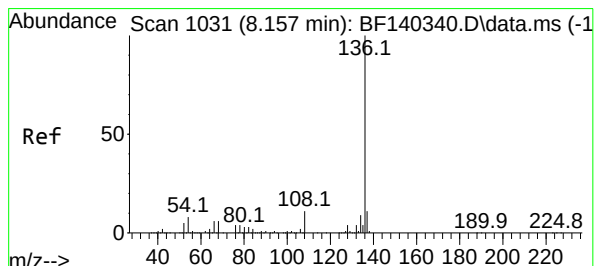
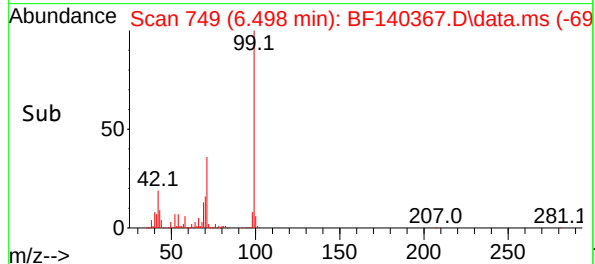
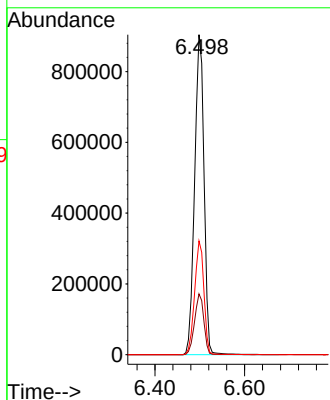
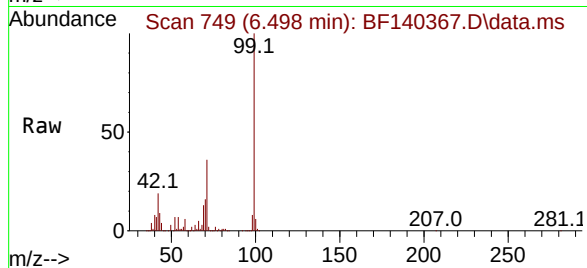




#7
Phenol-d6
Concen: 130.255 ng
RT: 6.498 min Scan# 74
Delta R.T. -0.006 min
Lab File: BF140367.D
Acq: 14 Nov 2024 17:28

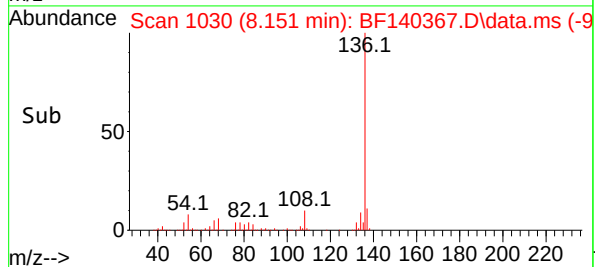
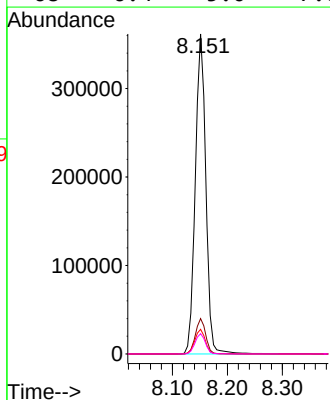
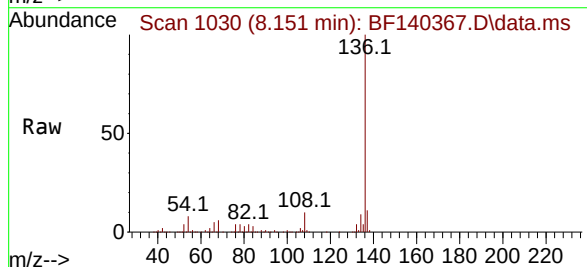
Instrument :
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ClientSampleId :
PB164846BL

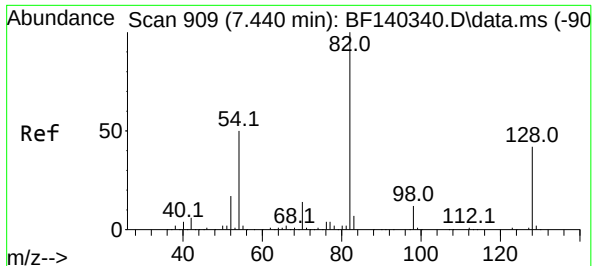
Tgt Ion: 99 Resp: 1317260
Ion Ratio Lower Upper
99 100
42 19.0 15.1 22.7
71 35.5 27.9 41.9



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140367.D
Acq: 14 Nov 2024 17:28

Tgt Ion: 136 Resp: 481597
Ion Ratio Lower Upper
136 100
137 11.1 8.7 13.1
54 7.7 6.5 9.7
68 6.4 5.0 7.6





#23

Nitrobenzene-d5

Concen: 92.359 ng

RT: 7.434 min Scan# 90

Delta R.T. -0.006 min

Lab File: BF140367.D

Acq: 14 Nov 2024 17:28

Instrument :

BNA_F

ClientSampleId :

PB164846BL

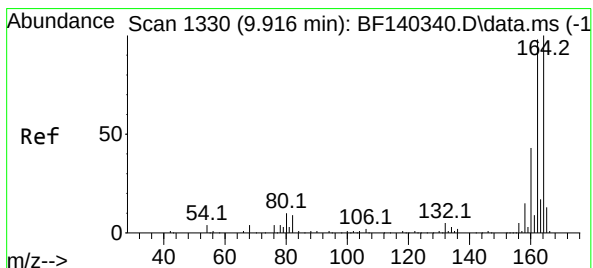
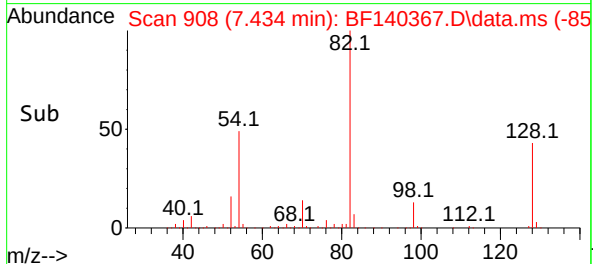
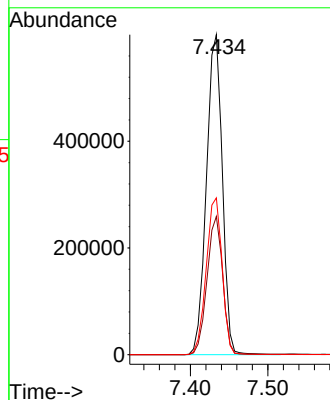
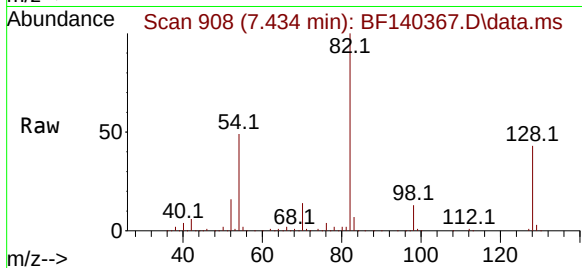
Tgt Ion: 82 Resp: 853691

Ion Ratio Lower Upper

82 100

128 43.2 33.3 49.9

54 49.0 39.8 59.8



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.904 min Scan# 1328

Delta R.T. -0.012 min

Lab File: BF140367.D

Acq: 14 Nov 2024 17:28

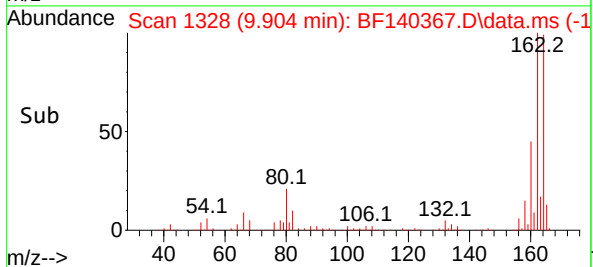
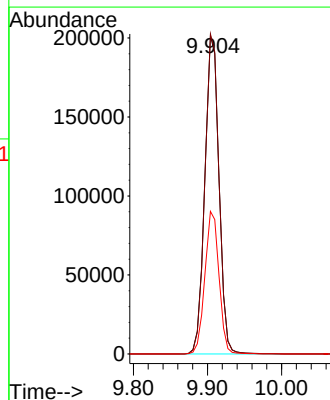
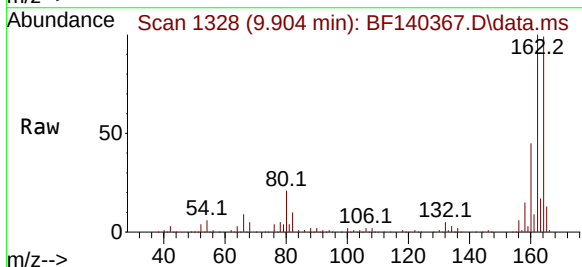
Tgt Ion: 164 Resp: 267971

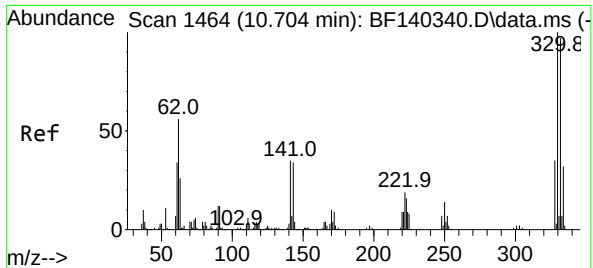
Ion Ratio Lower Upper

164 100

162 100.5 79.8 119.8

160 44.8 35.4 53.0





#42

2,4,6-Tribromophenol

Concen: 134.773 ng

RT: 10.698 min Scan# 1463

Delta R.T. -0.006 min

Lab File: BF140367.D

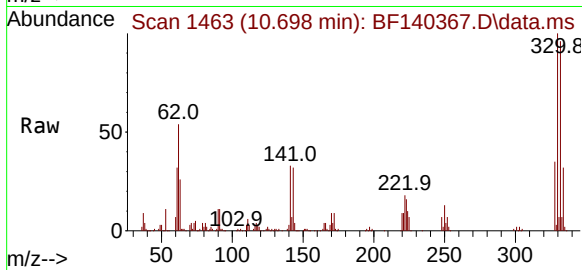
Acq: 14 Nov 2024 17:28

Instrument :

BNA_F

ClientSampleId :

PB164846BL



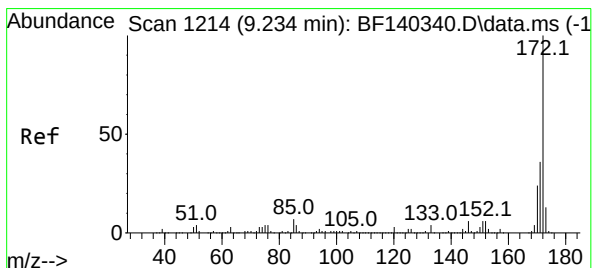
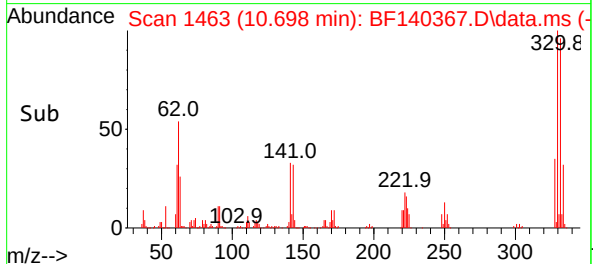
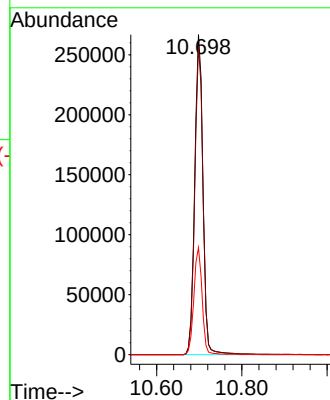
Tgt Ion:330 Resp: 359138

Ion Ratio Lower Upper

330 100

332 96.8 75.9 113.9

141 33.5 26.9 40.3



#45

2-Fluorobiphenyl

Concen: 93.611 ng

RT: 9.228 min Scan# 1213

Delta R.T. -0.006 min

Lab File: BF140367.D

Acq: 14 Nov 2024 17:28

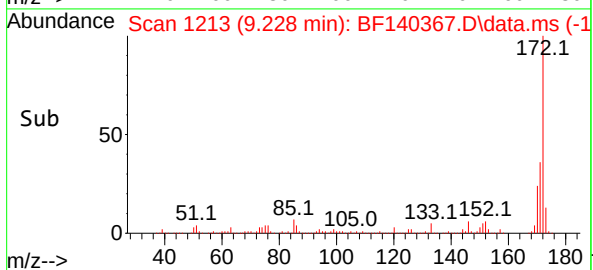
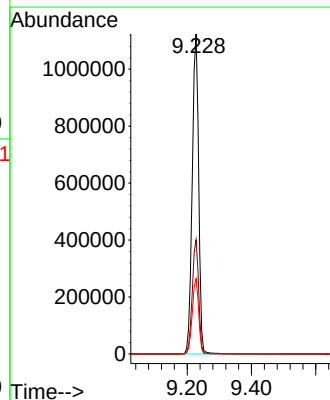
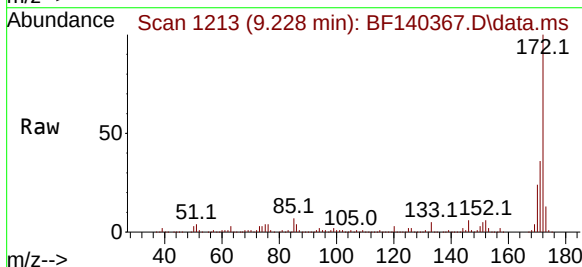
Tgt Ion:172 Resp: 1560454

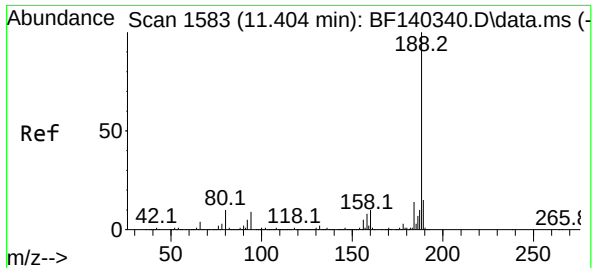
Ion Ratio Lower Upper

172 100

171 35.7 28.5 42.7

170 23.5 19.1 28.7

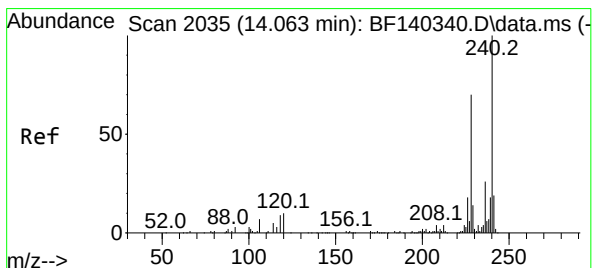
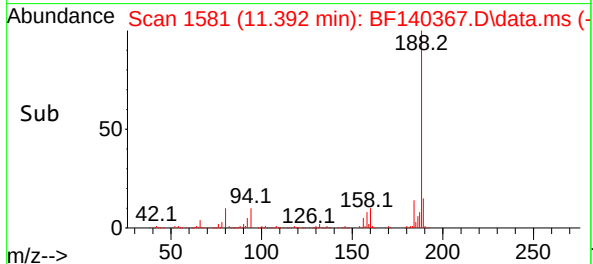
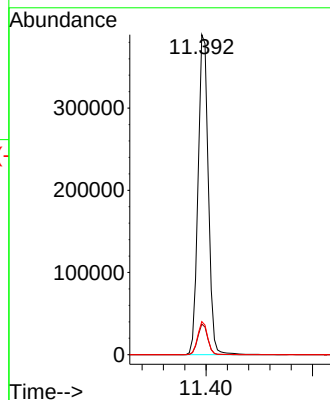
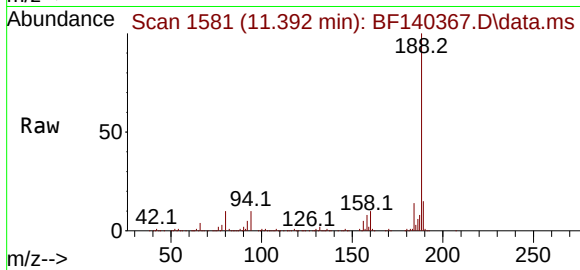




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 1581
Delta R.T. -0.012 min
Lab File: BF140367.D
Acq: 14 Nov 2024 17:28

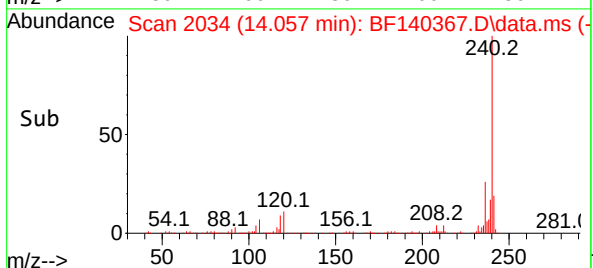
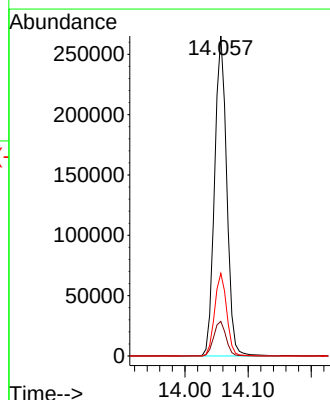
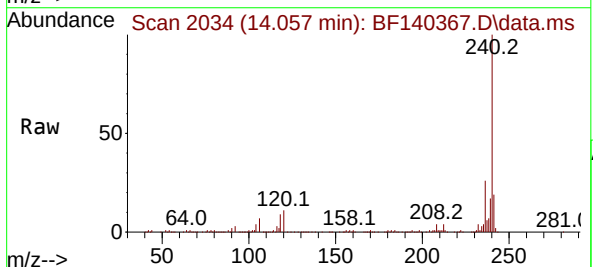
Instrument :
BNA_F
ClientSampleId :
PB164846BL

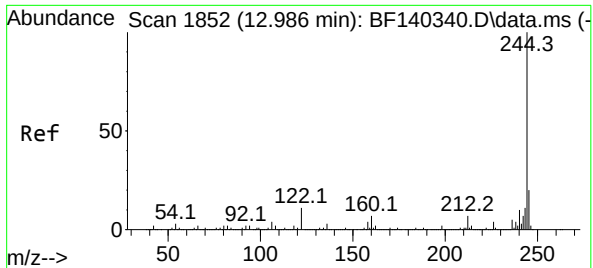
Tgt Ion:188 Resp: 519861
Ion Ratio Lower Upper
188 100
94 9.6 7.6 11.4
80 10.4 8.0 12.0



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2034
Delta R.T. 0.006 min
Lab File: BF140367.D
Acq: 14 Nov 2024 17:28

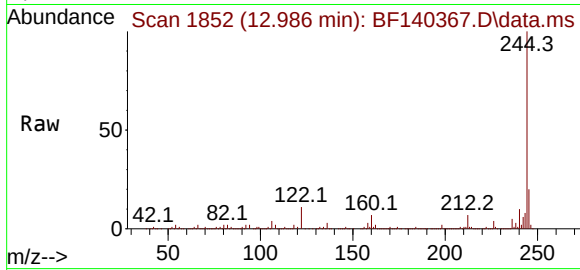
Tgt Ion:240 Resp: 353605
Ion Ratio Lower Upper
240 100
120 10.8 8.8 13.2
236 25.8 20.9 31.3



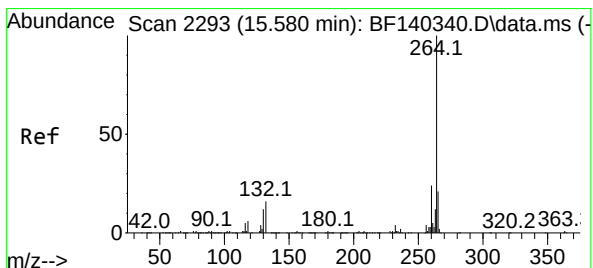
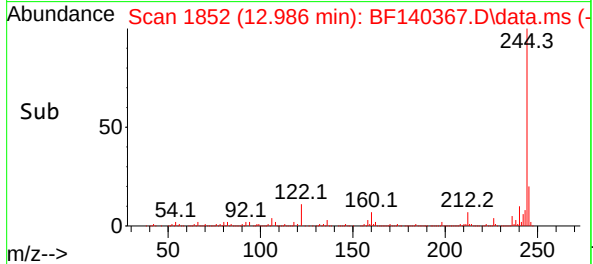
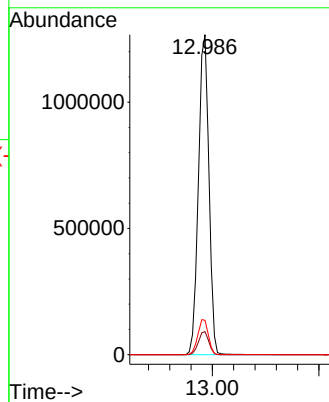


#79
 Terphenyl-d14
 Concen: 85.104 ng
 RT: 12.986 min Scan# 1852
 Delta R.T. -0.000 min
 Lab File: BF140367.D
 Acq: 14 Nov 2024 17:28

Instrument :
 BNA_F
 ClientSampleId :
 PB164846BL

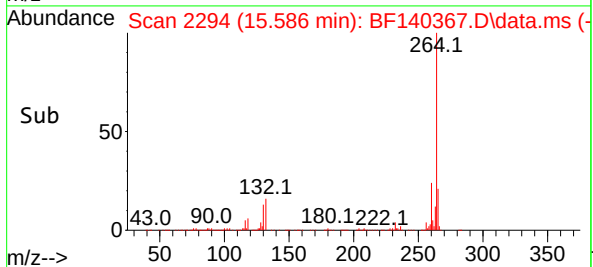
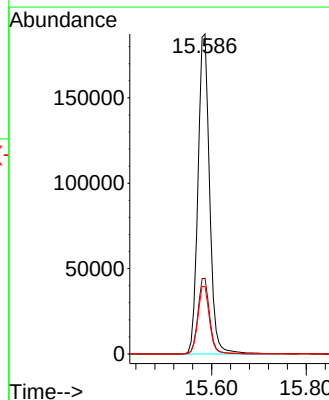
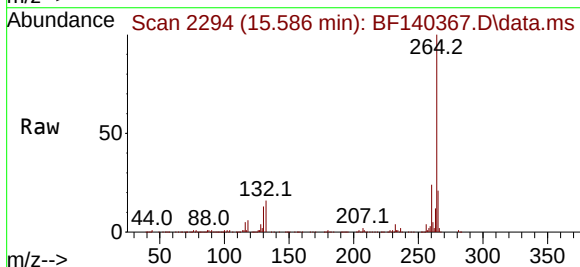


Tgt Ion:244 Resp: 1733695
 Ion Ratio Lower Upper
 244 100
 212 7.2 5.8 8.8
 122 10.8 8.8 13.2



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.586 min Scan# 2294
 Delta R.T. 0.029 min
 Lab File: BF140367.D
 Acq: 14 Nov 2024 17:28

Tgt Ion:264 Resp: 317877
 Ion Ratio Lower Upper
 264 100
 260 23.7 19.2 28.8
 265 21.1 17.1 25.7



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140367.D
Acq On : 14 Nov 2024 17:28
Operator : RC/JU
Sample : PB164846BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164846BL

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

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-BF111324.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140367.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.222	11	22	29	rVB	74186	135219	2.93%	0.482%
2	2.334	35	41	49	rBV	68828	106619	2.31%	0.380%
3	5.116	508	514	528	rBV	134773	215579	4.67%	0.769%
4	5.504	573	580	585	rBV	2606766	3611985	78.17%	12.881%
5	6.498	742	749	770	rBV	2565745	3727983	80.68%	13.295%
6	6.869	807	812	818	rBV	585530	747257	16.17%	2.665%
7	7.434	901	908	913	rBV	1720240	2432787	52.65%	8.676%
8	8.151	1024	1030	1049	rBV	736258	971791	21.03%	3.466%
9	9.228	1206	1213	1218	rBV	3281770	4514600	97.70%	16.100%
10	9.904	1322	1328	1343	rBV	861013	1133422	24.53%	4.042%
11	10.698	1457	1463	1492	rBV	2077370	2797099	60.53%	9.975%
12	11.392	1576	1581	1598	rVB	926202	1223412	26.48%	4.363%
13	12.986	1845	1852	1857	rBV	3369008	4620853	100.00%	16.479%
14	14.057	2028	2034	2046	rBV	732085	969525	20.98%	3.458%
15	15.580	2287	2293	2307	rVB	496037	832879	18.02%	2.970%

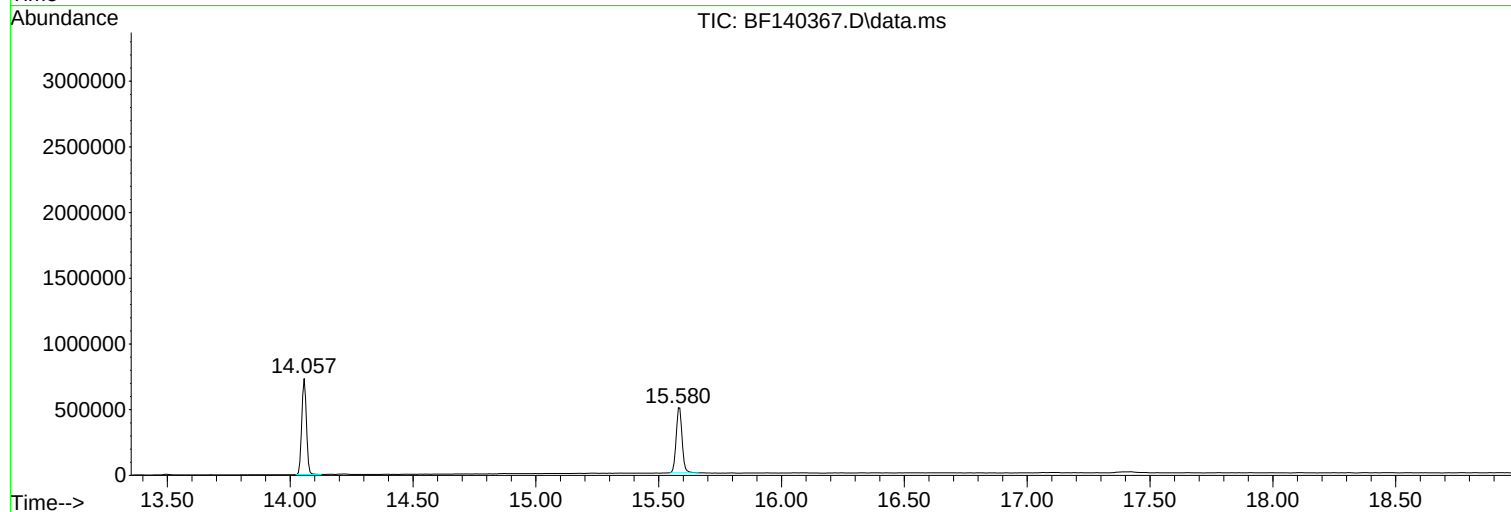
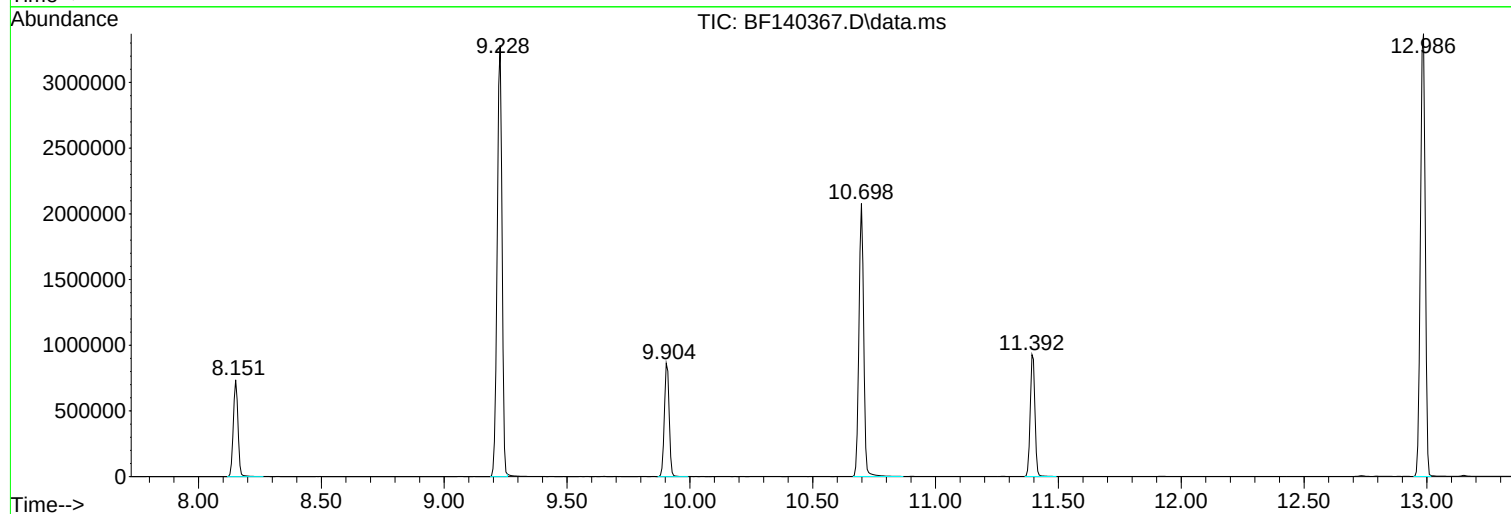
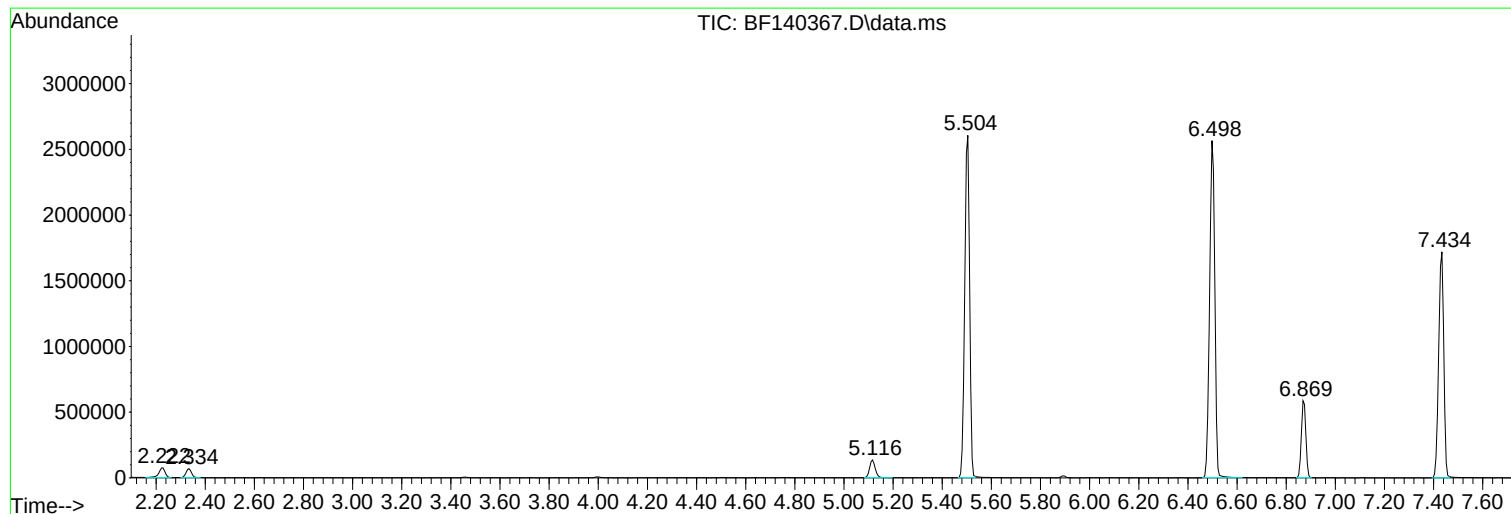
Sum of corrected areas: 28041010

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140367.D
Acq On : 14 Nov 2024 17:28
Operator : RC/JU
Sample : PB164846BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164846BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.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\BF111424\
Data File : BF140367.D
Acq On : 14 Nov 2024 17:28
Operator : RC/JU
Sample : PB164846BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164846BL

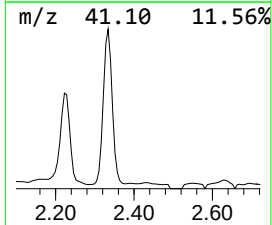
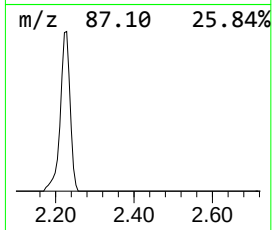
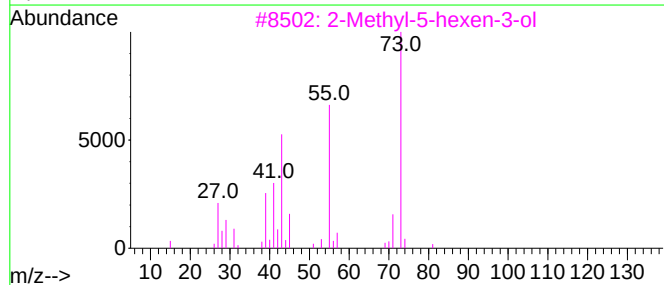
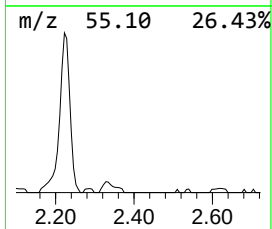
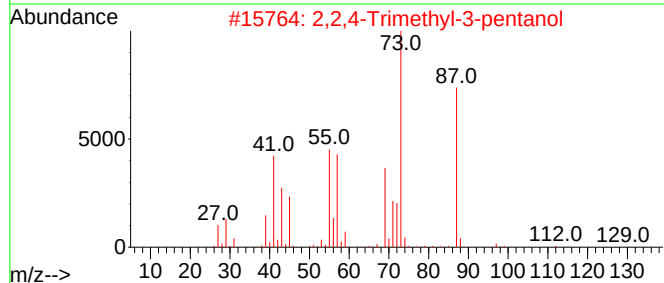
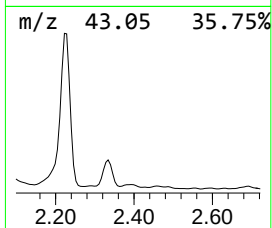
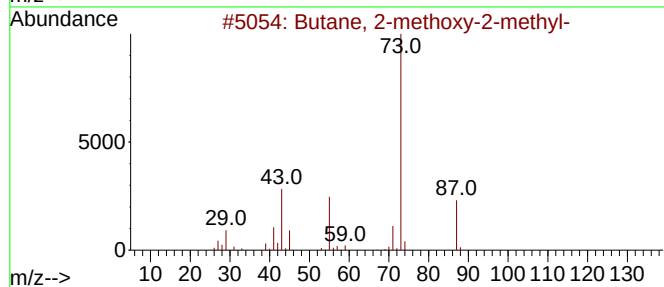
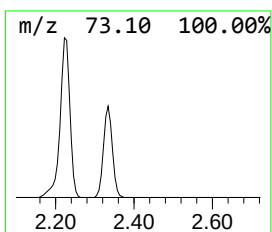
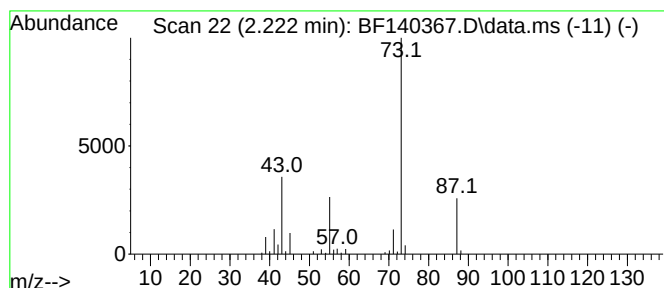
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.222	3.62 ng	135219	1,4-Dichlorobenzene-d4	6.869

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2			2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3			2-Methyl-5-hexen-3-ol	114	C7H14O	032815-70-6	40
4			Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17
5			3-Hexanol, 2-methyl-	116	C7H16O	000617-29-8	17



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140367.D
Acq On : 14 Nov 2024 17:28
Operator : RC/JU
Sample : PB164846BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164846BL

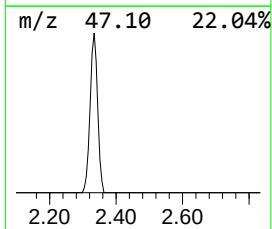
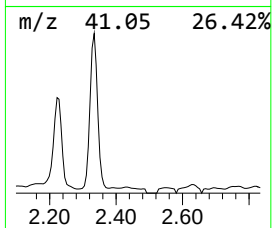
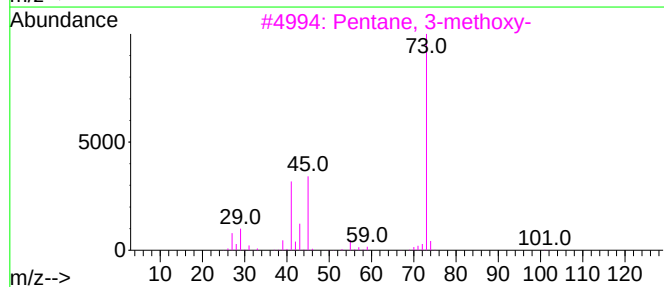
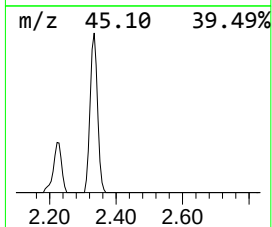
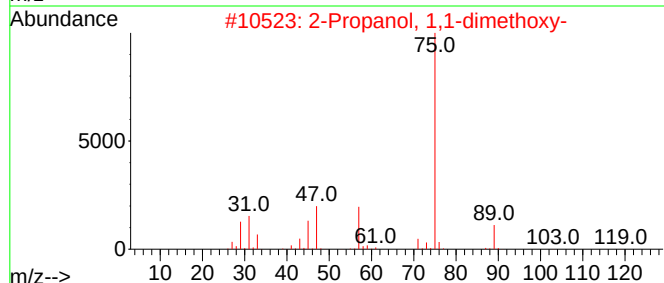
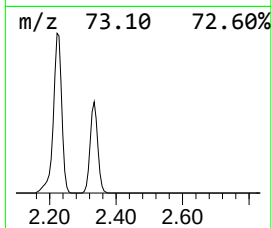
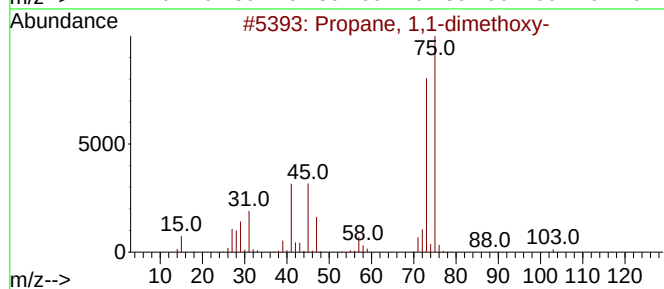
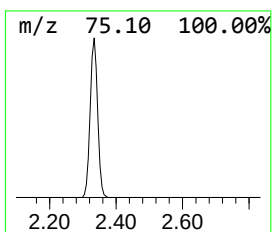
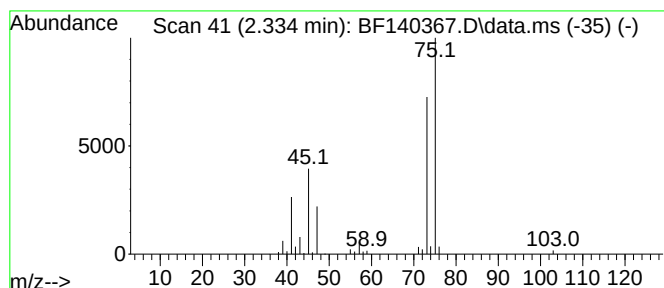
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 Propane, 1,1-dimethoxy- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.334	2.85 ng	106619	1,4-Dichlorobenzene-d4	6.869

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Propane, 1,1-dimethoxy-	104	C5H12O2	004744-10-9	78
2			2-Propanol, 1,1-dimethoxy-	120	C5H12O3	042919-42-6	36
3			Pentane, 3-methoxy-	102	C6H14O	036839-67-5	22
4			1,3-Dioxolane, 2-(1-bromoethyl)-	180	C5H9BrO2	005267-73-2	12
5			Thiocyanic acid, methyl ester	73	C2H3NS	000556-64-9	9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140367.D
Acq On : 14 Nov 2024 17:28
Operator : RC/JU
Sample : PB164846BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164846BL

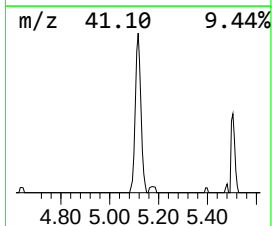
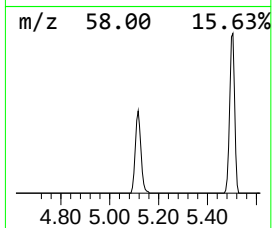
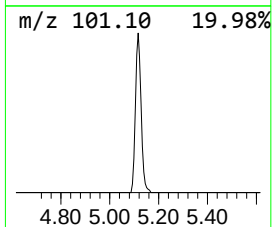
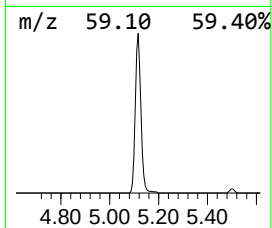
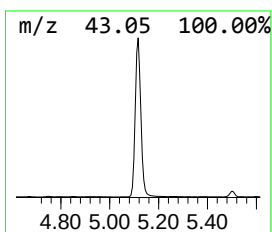
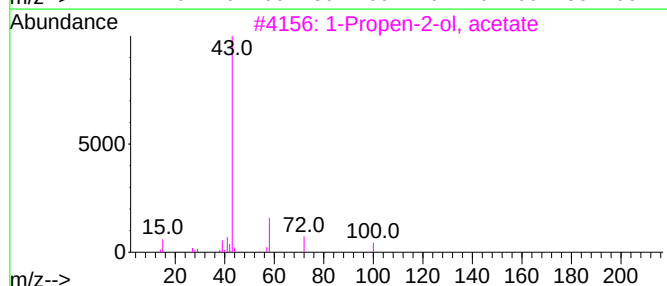
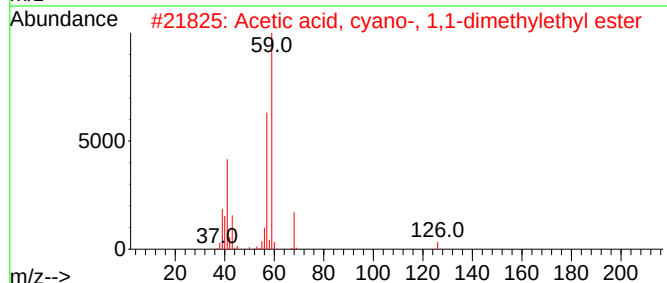
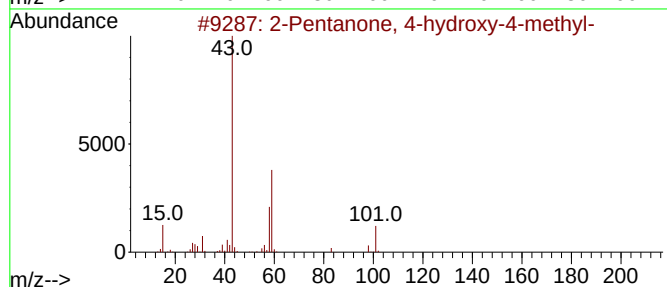
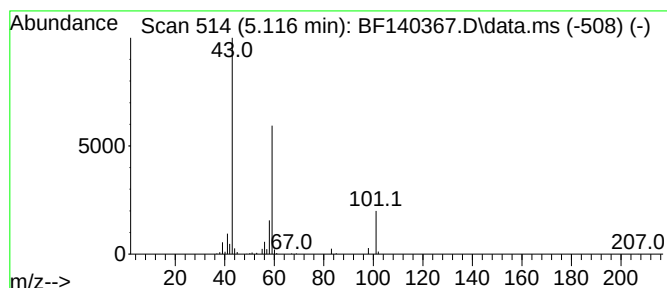
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.116	5.77 ng	215579	1,4-Dichlorobenzene-d4	6.869

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	40
2		Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	17
3		1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
4		Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9
5		2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140367.D
Acq On : 14 Nov 2024 17:28
Operator : RC/JU
Sample : PB164846BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164846BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.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
Butane, 2-metho...	2.222	3.6	ng	135219	1	6.869	747257	20.0
Propane, 1,1-di...	2.334	2.9	ng	106619	1	6.869	747257	20.0
2-Pentanone, 4-...	5.116	5.8	ng	215579	1	6.869	747257	20.0

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164702BS	SDG No.:	P4718
Lab Sample ID:	PB164702BS	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
BF140263.D	1	11/06/24 09:45	11/07/24 09:54	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	330		180	330	ug/Kg
108-95-2	Phenol	1500		82.9	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1600		83.7	170	ug/Kg
95-57-8	2-Chlorophenol	1600		83.5	170	ug/Kg
95-48-7	2-Methylphenol	1600		80.6	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1500		90.9	170	ug/Kg
98-86-2	Acetophenone	1500		86.9	170	ug/Kg
65794-96-9	3+4-Methylphenols	1500		79.8	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		40.3	80.0	ug/Kg
67-72-1	Hexachloroethane	1500		83.0	170	ug/Kg
98-95-3	Nitrobenzene	1400		90.8	170	ug/Kg
78-59-1	Isophorone	1600		84.6	170	ug/Kg
88-75-5	2-Nitrophenol	1700		94.5	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1900		93.2	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1600		85.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		75.5	170	ug/Kg
91-20-3	Naphthalene	1500		82.6	170	ug/Kg
106-47-8	4-Chloroaniline	730		82.6	170	ug/Kg
87-68-3	Hexachlorobutadiene	1500		83.3	170	ug/Kg
105-60-2	Caprolactam	1400		86.8	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1600		77.5	170	ug/Kg
91-57-6	2-Methylnaphthalene	1600		82.5	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	6600	E	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1700		71.4	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1500		74.0	170	ug/Kg
92-52-4	1,1-Biphenyl	1500		87.4	170	ug/Kg
91-58-7	2-Chloronaphthalene	1500		83.3	170	ug/Kg
88-74-4	2-Nitroaniline	1600		95.0	170	ug/Kg
131-11-3	Dimethylphthalate	1600		81.7	170	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164702BS	SDG No.:	P4718
Lab Sample ID:	PB164702BS	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
BF140263.D	1	11/06/24 09:45	11/07/24 09:54	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1600		86.5	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1600		83.2	170	ug/Kg
99-09-2	3-Nitroaniline	960		89.2	170	ug/Kg
83-32-9	Acenaphthene	1700		81.1	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3100	E	240	330	ug/Kg
100-02-7	4-Nitrophenol	3500	E	120	330	ug/Kg
132-64-9	Dibenzofuran	1600		84.4	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1600		86.2	170	ug/Kg
84-66-2	Diethylphthalate	1600		80.1	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1500		85.6	170	ug/Kg
86-73-7	Fluorene	1500		85.5	170	ug/Kg
100-01-6	4-Nitroaniline	1600		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1700		120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1600		81.6	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1600		78.9	170	ug/Kg
118-74-1	Hexachlorobenzene	1600		85.0	170	ug/Kg
1912-24-9	Atrazine	2100		91.4	170	ug/Kg
87-86-5	Pentachlorophenol	3300	E	77.3	330	ug/Kg
85-01-8	Phenanthrene	1600		84.0	170	ug/Kg
120-12-7	Anthracene	1600		84.4	170	ug/Kg
86-74-8	Carbazole	1500		80.3	170	ug/Kg
84-74-2	Di-n-butylphthalate	1600		84.3	170	ug/Kg
206-44-0	Fluoranthene	1600		81.7	170	ug/Kg
129-00-0	Pyrene	1600		83.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1800		96.8	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1200		98.6	330	ug/Kg
56-55-3	Benzo(a)anthracene	1600		80.7	170	ug/Kg
218-01-9	Chrysene	1600		79.5	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1700		91.0	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1800		110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1700		81.1	170	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164702BS	SDG No.:	P4718
Lab Sample ID:	PB164702BS	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
BF140263.D	1	11/06/24 09:45	11/07/24 09:54	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1600		82.6	170	ug/Kg
50-32-8	Benzo(a)pyrene	1700		93.0	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1700		78.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1600		81.2	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1500		80.1	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1500		86.8	170	ug/Kg
123-91-1	1,4-Dioxane	1200		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	125		30 (18) - 130 (112)	83%	SPK: 150
13127-88-3	Phenol-d6	122		30 (15) - 130 (107)	82%	SPK: 150
4165-60-0	Nitrobenzene-d5	86.5		30 (18) - 130 (107)	86%	SPK: 100
321-60-8	2-Fluorobiphenyl	86.4		30 (20) - 130 (109)	86%	SPK: 100
118-79-6	2,4,6-Tribromophenol	149		30 (10) - 130 (116)	99%	SPK: 150
1718-51-0	Terphenyl-d14	97.3		30 (10) - 130 (105)	97%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	189000	6.881			
1146-65-2	Naphthalene-d8	718000	8.157			
15067-26-2	Acenaphthene-d10	421000	9.922			
1517-22-2	Phenanthrene-d10	766000	11.41			
1719-03-5	Chrysene-d12	449000	14.063			
1520-96-3	Perylene-d12	405000	15.563			

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\BF110724\
 Data File : BF140263.D
 Acq On : 07 Nov 2024 09:54
 Operator : RC/JU
 Sample : PB164702BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

PB164702BS

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :mohammad ahmed 11/11/2024

Quant Time: Nov 07 10:52:37 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Nov 05 16:47:56 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	189444	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	717811	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	420554	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	766202	20.000	ng	0.00
76) Chrysene-d12	14.063	240	449132	20.000	ng	0.00
86) Perylene-d12	15.563	264	405153	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	1426156	124.757	ng	0.02
7) Phenol-d6	6.510	99	1800482	122.451	ng	0.00
23) Nitrobenzene-d5	7.440	82	1248338	86.465	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	619126	148.937	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	2276371	86.432	ng	0.00
79) Terphenyl-d14	12.998	244	2666837	97.268	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.793	88	191062	36.354	ng	96
3) Pyridine	3.534	79	507430	39.569	ng	97
4) n-Nitrosodimethylamine	3.499	42	315837	42.659	ng	94
6) Aniline	6.540	93	549976	41.400	ng	92
8) 2-Chlorophenol	6.663	128	579870	48.480	ng	96
9) Benzaldehyde	6.428	77	90855	10.031	ng	98
10) Phenol	6.522	94	720155	46.116	ng	99
11) bis(2-Chloroethyl)ether	6.616	93	560314	47.232	ng	98
12) 1,3-Dichlorobenzene	6.822	146	614397	43.834	ng	99
13) 1,4-Dichlorobenzene	6.898	146	622631	44.044	ng	99
14) 1,2-Dichlorobenzene	7.045	146	601259	45.539	ng	98
15) Benzyl Alcohol	7.022	79	543802	47.976	ng	97
16) 2,2'-oxybis(1-Chloropr...	7.151	45	887765	46.232	ng	98
17) 2-Methylphenol	7.128	107	480306	48.138	ng	99
18) Hexachloroethane	7.387	117	236125	44.841	ng	97
19) n-Nitroso-di-n-propyla...	7.293	70	430219	45.864	ng	97
20) 3+4-Methylphenols	7.281	107	572150	45.658	ng	97
22) Acetophenone	7.287	105	795861	44.719	ng	98
24) Nitrobenzene	7.463	77	643626	42.486	ng	96
25) Isophorone	7.698	82	1172258	47.155	ng	99
26) 2-Nitrophenol	7.775	139	299675	49.729	ng	97
27) 2,4-Dimethylphenol	7.810	122	469544	57.274	ng	97
28) bis(2-Chloroethoxy)met...	7.904	93	692092	46.522	ng	100
29) 2,4-Dichlorophenol	8.016	162	485573	47.877	ng	99
30) 1,2,4-Trichlorobenzene	8.098	180	537498	44.226	ng	99
31) Naphthalene	8.181	128	1666815	44.968	ng	100
32) Benzoic acid	7.934	122	311120	46.242	ng	95
33) 4-Chloroaniline	8.228	127	268542	22.007	ng	97
34) Hexachlorobutadiene	8.298	225	366012	44.493	ng	99
35) Caprolactam	8.610	113	132812m	43.047	ng	
36) 4-Chloro-3-methylphenol	8.710	107	543474	48.128	ng	98
37) 2-Methylnaphthalene	8.869	142	1128015	46.629	ng	99
38) 1-Methylnaphthalene	8.969	142	1036798	43.726	ng	98
40) 1,2,4,5-Tetrachloroben...	9.039	216	563138	45.740	ng	99
41) Hexachlorocyclopentadiene	9.022	237	678408	196.644	ng	98
43) 2,4,6-Trichlorophenol	9.151	196	384966	50.458	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
 Data File : BF140263.D
 Acq On : 07 Nov 2024 09:54
 Operator : RC/JU
 Sample : PB164702BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

PB164702BS

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :mohammad ahmed 11/11/2024

Quant Time: Nov 07 10:52:37 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Nov 05 16:47:56 2024

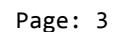
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	370500	46.186	ng	98
46) 1,1'-Biphenyl	9.339	154	1389319	45.704	ng	99
47) 2-Chloronaphthalene	9.363	162	1025026	44.802	ng	100
48) 2-Nitroaniline	9.457	65	358420	46.843	ng	98
49) Acenaphthylene	9.781	152	1595286	49.250	ng	99
50) Dimethylphthalate	9.645	163	1253758	48.407	ng	99
51) 2,6-Dinitrotoluene	9.704	165	284382	46.711	ng	98
52) Acenaphthene	9.951	154	1192905	51.921	ng	98
53) 3-Nitroaniline	9.875	138	165199	28.817	ng	96
54) 2,4-Dinitrophenol	9.981	184	279366	92.468	ng	91
55) Dibenzofuran	10.128	168	1496819	46.590	ng	100
56) 4-Nitrophenol	10.039	139	424764	105.381	ng	97
57) 2,4-Dinitrotoluene	10.110	165	385755	48.828	ng	98
58) Fluorene	10.469	166	1163758	45.506	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	339556	51.670	ng	97
60) Diethylphthalate	10.345	149	1235348	47.997	ng	99
61) 4-Chlorophenyl-phenyle...	10.463	204	589156	45.711	ng	97
62) 4-Nitroaniline	10.498	138	266296	46.745	ng	95
63) Azobenzene	10.622	77	1218001	45.651	ng	98
65) 4,6-Dinitro-2-methylph...	10.522	198	204242	50.754	ng	95
66) n-Nitrosodiphenylamine	10.581	169	1037989	47.101	ng	99
67) 4-Bromophenyl-phenylether	10.951	248	389977	47.266	ng	98
68) Hexachlorobenzene	11.022	284	438918	46.670	ng	95
69) Atrazine	11.110	200	381716	63.311	ng	98
70) Pentachlorophenol	11.216	266	503578	99.717	ng	99
71) Phenanthrene	11.433	178	1726671	47.221	ng	100
72) Anthracene	11.486	178	1737994	48.472	ng	100
73) Carbazole	11.639	167	1521462	46.440	ng	100
74) Di-n-butylphthalate	11.969	149	1867096	48.145	ng	99
75) Fluoranthene	12.622	202	1788878	46.787	ng	99
77) Benzidine	12.745	184	403658	45.968	ng	99
78) Pyrene	12.857	202	1800007	48.539	ng	100
80) Butylbenzylphthalate	13.469	149	711541	53.286	ng	99
81) Benzo(a)anthracene	14.051	228	1419222	49.239	ng	100
82) 3,3'-Dichlorobenzidine	14.010	252	329931	36.451	ng	98
83) Chrysene	14.086	228	1292706	47.893	ng	100
84) Bis(2-ethylhexyl)phtha...	14.033	149	955248	51.041	ng	99
85) Di-n-octyl phthalate	14.669	149	1485254	52.726	ng	97
87) Indeno(1,2,3-cd)pyrene	17.074	276	1200098	50.462	ng	99
88) Benzo(b)fluoranthene	15.121	252	1231890	50.267	ng	100
89) Benzo(k)fluoranthene	15.157	252	1064300	47.328	ng	99
90) Benzo(a)pyrene	15.498	252	1057870	52.355	ng	100
91) Dibenzo(a,h)anthracene	17.092	278	967859	49.465	ng	100
92) Benzo(g,h,i)perylene	17.533	276	899180	45.049	ng	99

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

Instrument :
BNA_F
ClientSampleId :
PB164702BS

Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/11/2024



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164846BS	SDG No.:	P4718
Lab Sample ID:	PB164846BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140446.D	1	11/09/24 08:38	11/18/24 11:32	PB164846

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.00	U	4.00	10.0	ug/L
108-95-2	Phenol	40.0		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	42.6		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	43.4		0.71	5.00	ug/L
95-48-7	2-Methylphenol	41.8		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	41.0		1.40	5.00	ug/L
98-86-2	Acetophenone	40.3		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	40.3		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	40.4		1.50	2.50	ug/L
67-72-1	Hexachloroethane	41.9		1.00	5.00	ug/L
98-95-3	Nitrobenzene	39.3		1.30	5.00	ug/L
78-59-1	Isophorone	41.1		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	42.9		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	50.3		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	41.0		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	42.2		0.88	5.00	ug/L
91-20-3	Naphthalene	40.5		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	32.4		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	40.4		1.30	5.00	ug/L
105-60-2	Caprolactam	41.6		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	41.8		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	41.1		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	170	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	42.2		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	41.3		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	41.5		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	40.8		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	42.8		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	43.1		0.93	5.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164846BS	SDG No.:	P4718
Lab Sample ID:	PB164846BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140446.D	1	11/09/24 08:38	11/18/24 11:32	PB164846

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	44.4		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	41.5		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	33.3		1.40	5.00	ug/L
83-32-9	Acenaphthene	47.2		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	90.8	E	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	82.6	E	2.00	10.0	ug/L
132-64-9	Dibenzofuran	42.1		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	42.2		1.50	5.00	ug/L
84-66-2	Diethylphthalate	42.3		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	41.5		0.98	5.00	ug/L
86-73-7	Fluorene	41.6		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	40.6		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	48.2		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	43.8		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	43.4		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	43.7		1.10	5.00	ug/L
1912-24-9	Atrazine	36.8		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	84.8	E	1.90	10.0	ug/L
85-01-8	Phenanthrene	43.3		0.89	5.00	ug/L
120-12-7	Anthracene	45.3		1.10	5.00	ug/L
86-74-8	Carbazole	42.1		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	44.0		1.50	5.00	ug/L
206-44-0	Fluoranthene	41.3		1.30	5.00	ug/L
129-00-0	Pyrene	49.1		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	50.2		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	38.4		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	45.2		0.94	5.00	ug/L
218-01-9	Chrysene	44.6		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	48.6		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	45.1		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	40.7		1.10	5.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164846BS	SDG No.:	P4718
Lab Sample ID:	PB164846BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140446.D	1	11/09/24 08:38	11/18/24 11:32	PB164846

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	41.3		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	47.0		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	50.0		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	49.5		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	44.8		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	42.0		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	34.4		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	45.4		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	119		15 (10) - 110 (139)	79%	SPK: 150
13127-88-3	Phenol-d6	116		15 (10) - 110 (134)	77%	SPK: 150
4165-60-0	Nitrobenzene-d5	81.8		30 (49) - 130 (133)	82%	SPK: 100
321-60-8	2-Fluorobiphenyl	83.2		30 (52) - 130 (132)	83%	SPK: 100
118-79-6	2,4,6-Tribromophenol	129		15 (44) - 110 (137)	86%	SPK: 150
1718-51-0	Terphenyl-d14	102		30 (48) - 130 (125)	102%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	165000	6.875			
1146-65-2	Naphthalene-d8	639000	8.157			
15067-26-2	Acenaphthene-d10	347000	9.916			
1517-22-2	Phenanthrene-d10	637000	11.404			
1719-03-5	Chrysene-d12	332000	14.057			
1520-96-3	Perylene-d12	310000	15.557			

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\BF111824\
 Data File : BF140446.D
 Acq On : 18 Nov 2024 11:32
 Operator : RC/JU
 Sample : PB164846BS
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

PB164846BS

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/19/2024

Supervised By :mohammad ahmed 11/19/2024

Quant Time: Nov 18 12:03:27 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Nov 13 14:40:06 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	165160	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	638782	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	347317	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	636734	20.000	ng	0.00
76) Chrysene-d12	14.057	240	331814	20.000	ng	0.00
86) Perylene-d12	15.557	264	309689	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1149536	118.836	ng	0.02
7) Phenol-d6	6.522	99	1515382	115.627	ng	0.02
23) Nitrobenzene-d5	7.439	82	1002890	81.801	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	445703	129.047	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	1797907	83.216	ng	0.00
79) Terphenyl-d14	12.986	244	1951122	102.067	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.728	88	148406	34.422	ng	99
3) Pyridine	3.487	79	373471	35.236	ng	100
4) n-Nitrosodimethylamine	3.446	42	216844	40.480	ng	100
6) Aniline	6.540	93	449644	39.440	ng	# 40
8) 2-Chlorophenol	6.663	128	450805	43.385	ng	98
9) Benzaldehyde	6.428	77	18407	2.343	ng	99
10) Phenol	6.534	94	552204	39.954	ng	# 72
11) bis(2-Chloroethyl)ether	6.610	93	445879	42.577	ng	99
12) 1,3-Dichlorobenzene	6.816	146	463969	40.469	ng	99
13) 1,4-Dichlorobenzene	6.892	146	472286	40.627	ng	99
14) 1,2-Dichlorobenzene	7.045	146	448434	41.552	ng	99
15) Benzyl Alcohol	7.022	79	416244	44.083	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.145	45	593039	40.998	ng	62
17) 2-Methylphenol	7.134	107	357192	41.787	ng	93
18) Hexachloroethane	7.387	117	180191	41.928	ng	99
19) n-Nitroso-di-n-propyla...	7.287	70	319847	40.408	ng	99
20) 3+4-Methylphenols	7.287	107	430999	40.318	ng	92
22) Acetophenone	7.281	105	598383	40.277	ng	# 99
24) Nitrobenzene	7.457	77	502108	39.335	ng	99
25) Isophorone	7.692	82	892542	41.077	ng	100
26) 2-Nitrophenol	7.775	139	242821	42.867	ng	99
27) 2,4-Dimethylphenol	7.810	122	364964	50.326	ng	98
28) bis(2-Chloroethoxy)met...	7.904	93	546901	41.048	ng	100
29) 2,4-Dichlorophenol	8.022	162	377878	42.162	ng	97
30) 1,2,4-Trichlorobenzene	8.098	180	395907	39.677	ng	99
31) Naphthalene	8.181	128	1311141	40.462	ng	100
32) Benzoic acid	7.945	122	259311	40.636	ng	95
33) 4-Chloroaniline	8.228	127	365387	32.423	ng	99
34) Hexachlorobutadiene	8.292	225	256885	40.406	ng	99
35) Caprolactam	8.598	113	124006m	41.629	ng	
36) 4-Chloro-3-methylphenol	8.716	107	415262	41.810	ng	100
37) 2-Methylnaphthalene	8.869	142	853575	41.080	ng	100
38) 1-Methylnaphthalene	8.969	142	788895	38.772	ng	100
40) 1,2,4,5-Tetrachloroben...	9.034	216	403173	41.978	ng	99
41) Hexachlorocyclopentadiene	9.022	237	411455	166.853	ng	100
43) 2,4,6-Trichlorophenol	9.151	196	265884	42.183	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
 Data File : BF140446.D
 Acq On : 18 Nov 2024 11:32
 Operator : RC/JU
 Sample : PB164846BS
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PB164846BS

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/19/2024
 Supervised By :mohammad ahmed 11/19/2024

Quant Time: Nov 18 12:03:27 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	284345	41.262	ng	99
46) 1,1'-Biphenyl	9.333	154	1049756	41.546	ng	99
47) 2-Chloronaphthalene	9.357	162	786072	40.840	ng	99
48) 2-Nitroaniline	9.457	65	272968	42.763	ng	98
49) Acenaphthylene	9.775	152	1293683	44.424	ng	100
50) Dimethylphthalate	9.633	163	976397	43.130	ng	100
51) 2,6-Dinitrotoluene	9.698	165	214166	41.497	ng	99
52) Acenaphthene	9.951	154	928998m	47.231	ng	
53) 3-Nitroaniline	9.869	138	180285	33.263	ng	99
54) 2,4-Dinitrophenol	9.980	184	241543	90.757	ng	100
55) Dibenzofuran	10.122	168	1170858	42.050	ng	100
56) 4-Nitrophenol	10.045	139	326519	82.591	ng	99
57) 2,4-Dinitrotoluene	10.110	165	286393	42.164	ng	95
58) Fluorene	10.463	166	915188	41.606	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	247144	45.420	ng	97
60) Diethylphthalate	10.333	149	978499	42.270	ng	99
61) 4-Chlorophenyl-phenyle...	10.451	204	450935	41.524	ng	99
62) 4-Nitroaniline	10.492	138	224994	40.599	ng	98
63) Azobenzene	10.616	77	965118	42.196	ng	100
65) 4,6-Dinitro-2-methylph...	10.516	198	165087	48.190	ng	99
66) n-Nitrosodiphenylamine	10.575	169	806124	43.817	ng	99
67) 4-Bromophenyl-phenylether	10.945	248	276151	43.387	ng	99
68) Hexachlorobenzene	11.016	284	312673	43.661	ng	96
69) Atrazine	11.098	200	204988	36.828	ng	99
70) Pentachlorophenol	11.210	266	327103	84.794	ng	99
71) Phenanthrene	11.427	178	1293808	43.255	ng	100
72) Anthracene	11.480	178	1327808	45.295	ng	99
73) Carbazole	11.633	167	1219658	42.137	ng	100
74) Di-n-butylphthalate	11.957	149	1526840	43.950	ng	100
75) Fluoranthene	12.616	202	1387211	41.338	ng	99
77) Benzidine	12.739	184	270508	21.241	ng	99
78) Pyrene	12.851	202	1393611	49.101	ng	100
80) Butylbenzylphthalate	13.463	149	546873	50.157	ng	97
81) Benzo(a)anthracene	14.045	228	985370	45.185	ng	99
82) 3,3'-Dichlorobenzidine	14.004	252	265978	38.372	ng	99
83) Chrysene	14.080	228	886826	44.569	ng	99
84) Bis(2-ethylhexyl)phtha...	14.021	149	707203	48.594	ng	100
85) Di-n-octyl phthalate	14.657	149	925048	45.132	ng	99
87) Indeno(1,2,3-cd)pyrene	17.068	276	955785	49.962	ng	100
88) Benzo(b)fluoranthene	15.115	252	824611	40.705	ng	100
89) Benzo(k)fluoranthene	15.145	252	683584	41.305	ng	99
90) Benzo(a)pyrene	15.492	252	739316	46.995	ng	99
91) Dibenzo(a,h)anthracene	17.080	278	783426	49.543	ng	100
92) Benzo(g,h,i)perylene	17.521	276	724191	44.797	ng	99

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

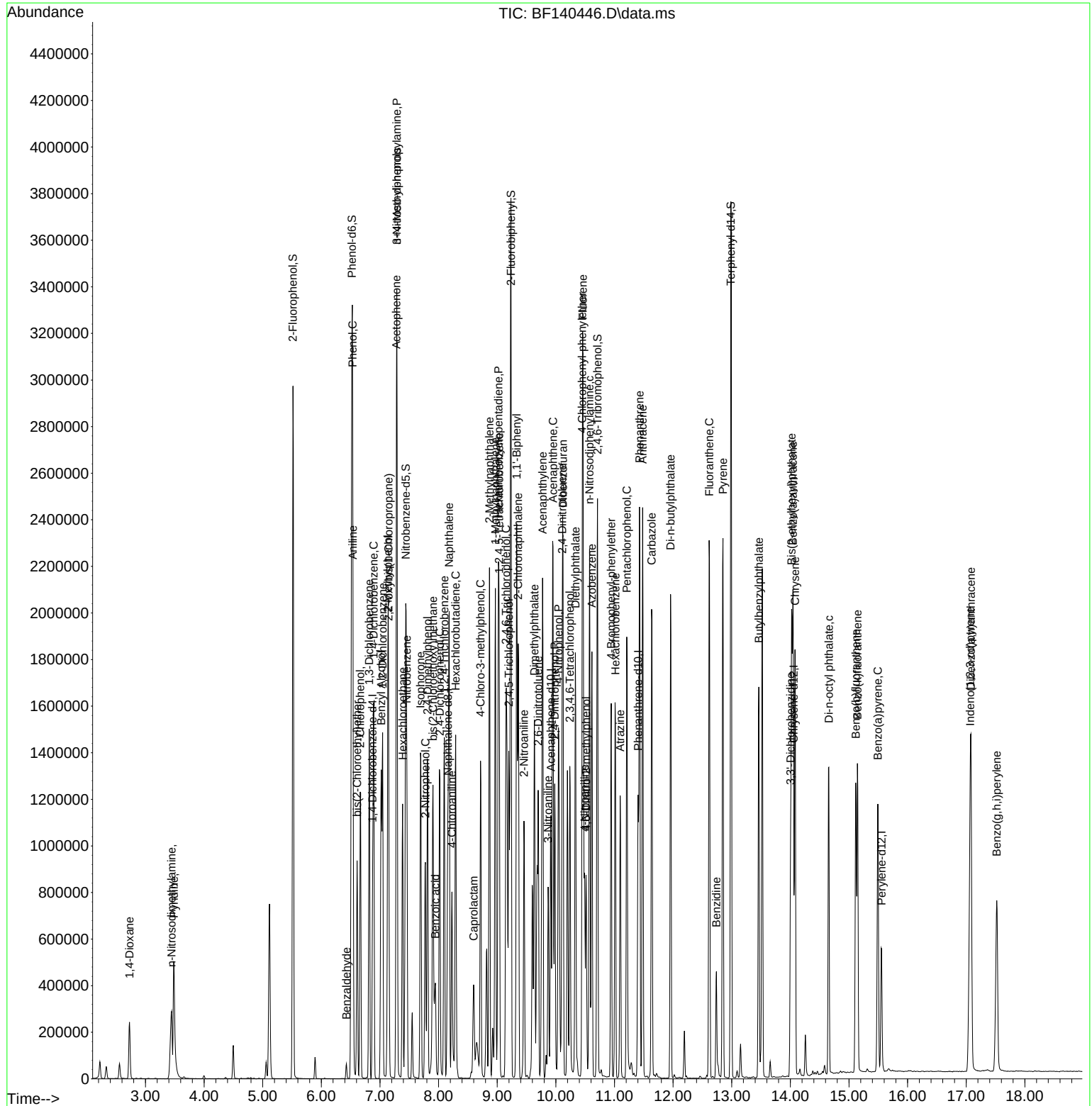
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140446.D
Acq On : 18 Nov 2024 11:32
Operator : RC/JU
Sample : PB164846BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164846BS

Manual Integrations

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :mohammad ahmed 11/19/2024

Quant Time: Nov 18 12:03:27 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164846BSD	SDG No.:	P4718
Lab Sample ID:	PB164846BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140447.D	1	11/09/24 08:38	11/18/24 11:58	PB164846

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	7.20	J	4.00	10.0	ug/L
108-95-2	Phenol	43.3		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	45.8		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	46.9		0.71	5.00	ug/L
95-48-7	2-Methylphenol	45.5		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	44.4		1.40	5.00	ug/L
98-86-2	Acetophenone	43.9		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	45.0		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	44.3		1.50	2.50	ug/L
67-72-1	Hexachloroethane	44.8		1.00	5.00	ug/L
98-95-3	Nitrobenzene	42.9		1.30	5.00	ug/L
78-59-1	Isophorone	44.8		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	46.9		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	54.8		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	45.0		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	45.5		0.88	5.00	ug/L
91-20-3	Naphthalene	43.9		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	22.3		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	43.7		1.30	5.00	ug/L
105-60-2	Caprolactam	43.8		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	44.8		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	44.8		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	180	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	45.8		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	44.3		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	45.0		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	44.1		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	45.2		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	46.0		0.93	5.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164846BSD	SDG No.:	P4718
Lab Sample ID:	PB164846BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140447.D	1	11/09/24 08:38	11/18/24 11:58	PB164846

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	48.2		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	43.2		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	28.4		1.40	5.00	ug/L
83-32-9	Acenaphthene	51.0		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	97.0	E	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	87.7	E	2.00	10.0	ug/L
132-64-9	Dibenzofuran	45.4		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	45.6		1.50	5.00	ug/L
84-66-2	Diethylphthalate	45.3		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	44.6		0.98	5.00	ug/L
86-73-7	Fluorene	44.4		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	43.8		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	50.4		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	45.9		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	45.1		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	45.4		1.10	5.00	ug/L
1912-24-9	Atrazine	51.5		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	87.7	E	1.90	10.0	ug/L
85-01-8	Phenanthrene	45.9		0.89	5.00	ug/L
120-12-7	Anthracene	47.8		1.10	5.00	ug/L
86-74-8	Carbazole	44.7		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	46.1		1.50	5.00	ug/L
206-44-0	Fluoranthene	44.4		1.30	5.00	ug/L
129-00-0	Pyrene	49.3		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	51.6		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	30.8		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	46.6		0.94	5.00	ug/L
218-01-9	Chrysene	47.4		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	50.2		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	47.9		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	40.2		1.10	5.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164846BSD	SDG No.:	P4718
Lab Sample ID:	PB164846BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140447.D	1	11/09/24 08:38	11/18/24 11:58	PB164846

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	49.2		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	49.9		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	52.0		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	51.3		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	46.8		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	45.4		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	38.4		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	47.7		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	126		15 (10) - 110 (139)	84%	SPK: 150
13127-88-3	Phenol-d6	121		15 (10) - 110 (134)	81%	SPK: 150
4165-60-0	Nitrobenzene-d5	86.0		30 (49) - 130 (133)	86%	SPK: 100
321-60-8	2-Fluorobiphenyl	87.5		30 (52) - 130 (132)	88%	SPK: 100
118-79-6	2,4,6-Tribromophenol	132		15 (44) - 110 (137)	88%	SPK: 150
1718-51-0	Terphenyl-d14	99.7		30 (48) - 130 (125)	100%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	145000	6.875			
1146-65-2	Naphthalene-d8	560000	8.157			
15067-26-2	Acenaphthene-d10	309000	9.916			
1517-22-2	Phenanthrene-d10	581000	11.404			
1719-03-5	Chrysene-d12	325000	14.051			
1520-96-3	Perylene-d12	284000	15.545			

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\BF111824\
 Data File : BF140447.D
 Acq On : 18 Nov 2024 11:58
 Operator : RC/JU
 Sample : PB164846BSD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

PB164846BSD

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/19/2024

Supervised By :mohammad ahmed 11/19/2024

Quant Time: Nov 18 12:34:29 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Nov 13 14:40:06 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	145420	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	559684	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	308958	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	581243	20.000	ng	0.00
76) Chrysene-d12	14.051	240	325114	20.000	ng	0.00
86) Perylene-d12	15.545	264	284093	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1076180	126.355	ng	0.02
7) Phenol-d6	6.516	99	1400041	121.328	ng	0.01
23) Nitrobenzene-d5	7.439	82	923338	85.956	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	404298	131.593	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	1682238	87.529	ng	0.00
79) Terphenyl-d14	12.986	244	1867800	99.722	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.734	88	145798	38.408	ng	99
3) Pyridine	3.493	79	385293	41.286	ng	99
4) n-Nitrosodimethylamine	3.446	42	205712	43.614	ng	100
6) Aniline	6.540	93	391801	39.031	ng	# 45
8) 2-Chlorophenol	6.663	128	429419	46.936	ng	98
9) Benzaldehyde	6.428	77	49583	7.169	ng	97
10) Phenol	6.534	94	526833	43.293	ng	# 75
11) bis(2-Chloroethyl)ether	6.610	93	421887	45.755	ng	99
12) 1,3-Dichlorobenzene	6.816	146	444156	44.000	ng	99
13) 1,4-Dichlorobenzene	6.892	146	447701	43.740	ng	99
14) 1,2-Dichlorobenzene	7.045	146	429290	45.178	ng	99
15) Benzyl Alcohol	7.022	79	390233	46.938	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.145	45	565533	44.404	ng	68
17) 2-Methylphenol	7.134	107	342267	45.476	ng	93
18) Hexachloroethane	7.387	117	169487	44.791	ng	99
19) n-Nitroso-di-n-propyla...	7.287	70	309024	44.341	ng	100
20) 3+4-Methylphenols	7.287	107	423581	45.003	ng	94
22) Acetophenone	7.281	105	571412	43.897	ng	99
24) Nitrobenzene	7.457	77	480035	42.921	ng	99
25) Isophorone	7.692	82	853441	44.828	ng	100
26) 2-Nitrophenol	7.775	139	232910	46.929	ng	98
27) 2,4-Dimethylphenol	7.810	122	348177	54.796	ng	97
28) bis(2-Chloroethoxy)met...	7.904	93	525211	44.991	ng	100
29) 2,4-Dichlorophenol	8.016	162	357639	45.543	ng	99
30) 1,2,4-Trichlorobenzene	8.098	180	379026	43.353	ng	99
31) Naphthalene	8.175	128	1246423	43.901	ng	100
32) Benzoic acid	7.939	122	244574	43.744	ng	97
33) 4-Chloroaniline	8.228	127	219835	22.264	ng	99
34) Hexachlorobutadiene	8.292	225	243160	43.652	ng	99
35) Caprolactam	8.598	113	114202m	43.756	ng	
36) 4-Chloro-3-methylphenol	8.716	107	389864	44.800	ng	98
37) 2-Methylnaphthalene	8.869	142	816319	44.840	ng	99
38) 1-Methylnaphthalene	8.969	142	761299	42.704	ng	99
40) 1,2,4,5-Tetrachloroben...	9.034	216	387962	45.409	ng	99
41) Hexachlorocyclopentadiene	9.022	237	398486	181.657	ng	99
43) 2,4,6-Trichlorophenol	9.151	196	257007	45.838	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
 Data File : BF140447.D
 Acq On : 18 Nov 2024 11:58
 Operator : RC/JU
 Sample : PB164846BSD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PB164846BSD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/19/2024
 Supervised By :mohammad ahmed 11/19/2024

Quant Time: Nov 18 12:34:29 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	271362	44.267	ng	98
46) 1,1'-Biphenyl	9.333	154	1010408	44.954	ng	99
47) 2-Chloronaphthalene	9.357	162	754929	44.092	ng	99
48) 2-Nitroaniline	9.457	65	256925	45.247	ng	99
49) Acenaphthylene	9.775	152	1249493	48.233	ng	100
50) Dimethylphthalate	9.633	163	927208	46.042	ng	99
51) 2,6-Dinitrotoluene	9.698	165	198478	43.232	ng	100
52) Acenaphthene	9.945	154	891897m	50.975	ng	
53) 3-Nitroaniline	9.869	138	137100	28.436	ng	99
54) 2,4-Dinitrophenol	9.980	184	229743	97.040	ng	99
55) Dibenzofuran	10.122	168	1124399	45.395	ng	100
56) 4-Nitrophenol	10.045	139	308272	87.657	ng	98
57) 2,4-Dinitrotoluene	10.104	165	275544	45.603	ng	98
58) Fluorene	10.463	166	868200	44.370	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	230652	47.652	ng	99
60) Diethylphthalate	10.333	149	933678	45.341	ng	99
61) 4-Chlorophenyl-phenyle...	10.451	204	431231	44.640	ng	100
62) 4-Nitroaniline	10.486	138	215906	43.796	ng	98
63) Azobenzene	10.616	77	914747	44.959	ng	100
65) 4,6-Dinitro-2-methylph...	10.516	198	157620	50.403	ng	98
66) n-Nitrosodiphenylamine	10.575	169	771009	45.910	ng	99
67) 4-Bromophenyl-phenylether	10.945	248	261987	45.091	ng	99
68) Hexachlorobenzene	11.010	284	296988	45.430	ng	100
69) Atrazine	11.104	200	261734	51.512	ng	100
70) Pentachlorophenol	11.210	266	308690	87.661	ng	99
71) Phenanthrene	11.427	178	1253307	45.902	ng	100
72) Anthracene	11.480	178	1280432	47.849	ng	100
73) Carbazole	11.633	167	1181642	44.721	ng	100
74) Di-n-butylphthalate	11.957	149	1462532	46.118	ng	100
75) Fluoranthene	12.621	202	1360302	44.406	ng	100
77) Benzidine	12.739	184	344154	27.581	ng	99
78) Pyrene	12.851	202	1371060	49.302	ng	100
80) Butylbenzylphthalate	13.463	149	551247	51.601	ng	96
81) Benzo(a)anthracene	14.039	228	995805	46.604	ng	99
82) 3,3'-Dichlorobenzidine	13.998	252	209137	30.794	ng	99
83) Chrysene	14.080	228	923689	47.379	ng	100
84) Bis(2-ethylhexyl)phtha...	14.021	149	715477	50.176	ng	99
85) Di-n-octyl phthalate	14.645	149	962272	47.915	ng	99
87) Indeno(1,2,3-cd)pyrene	17.057	276	911905	51.963	ng	99
88) Benzo(b)fluoranthene	15.110	252	747769	40.237	ng	99
89) Benzo(k)fluoranthene	15.139	252	746427	49.166	ng	100
90) Benzo(a)pyrene	15.480	252	719976	49.889	ng	99
91) Dibenzo(a,h)anthracene	17.068	278	743925	51.284	ng	99
92) Benzo(g,h,i)perylene	17.509	276	693632	46.772	ng	98

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

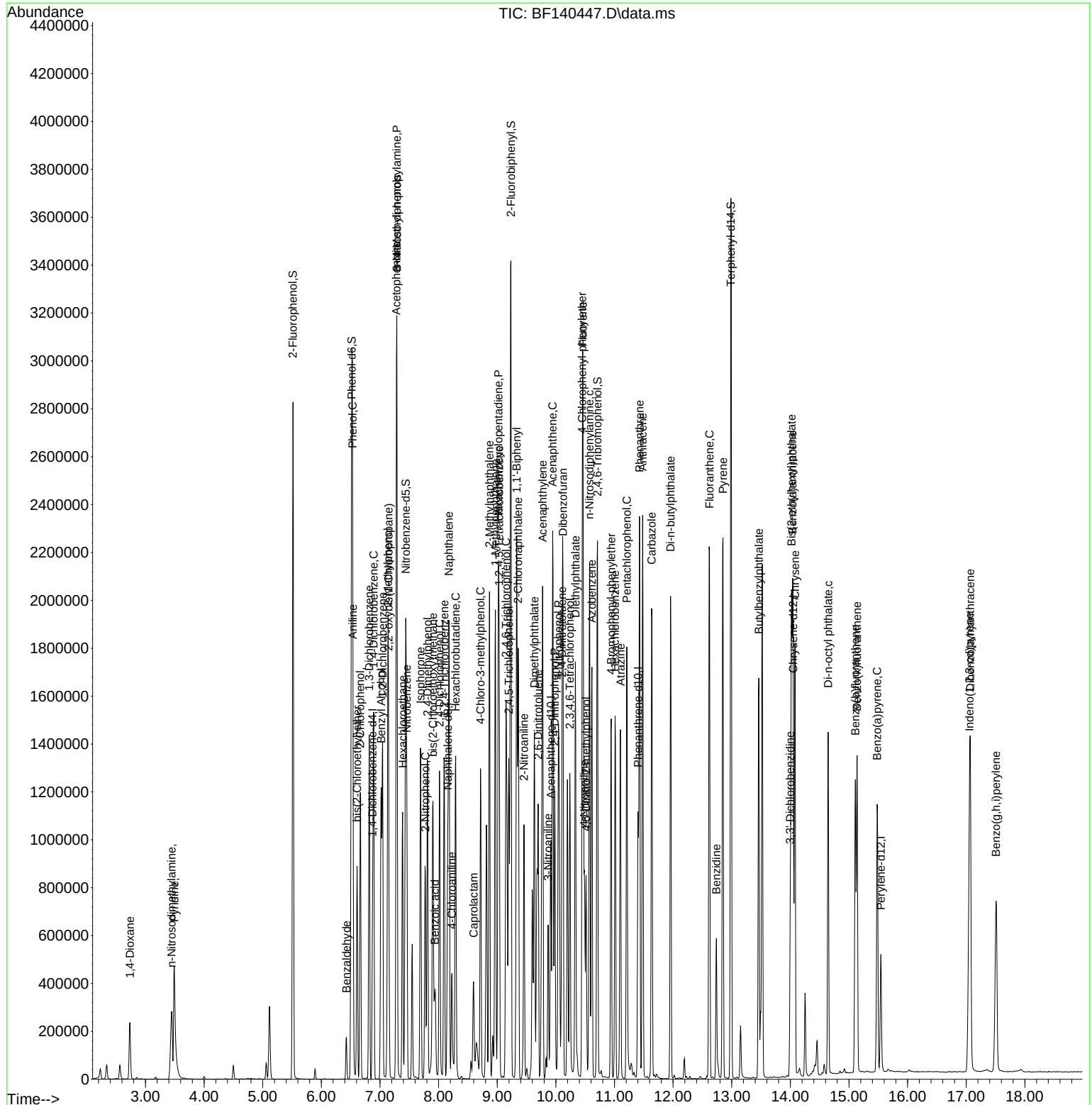
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140447.D
Acq On : 18 Nov 2024 11:58
Operator : RC/JU
Sample : PB164846BSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164846BSD

Manual Integrations

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :mohammad ahmed 11/19/2024

Quant Time: Nov 18 12:34:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02MS	SDG No.:	P4718
Lab Sample ID:	P4718-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	77.6
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
BF140272.D	1	11/06/24 09:45	11/07/24 14:00	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	440		230	420	ug/Kg
108-95-2	Phenol	2300		110	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	2200		110	220	ug/Kg
95-57-8	2-Chlorophenol	2300		110	220	ug/Kg
95-48-7	2-Methylphenol	2300		100	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	2200		120	220	ug/Kg
98-86-2	Acetophenone	2100		110	220	ug/Kg
65794-96-9	3+4-Methylphenols	2200		100	420	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	2200		51.9	100	ug/Kg
67-72-1	Hexachloroethane	2100		110	220	ug/Kg
98-95-3	Nitrobenzene	2000		120	220	ug/Kg
78-59-1	Isophorone	2200		110	220	ug/Kg
88-75-5	2-Nitrophenol	2400		120	220	ug/Kg
105-67-9	2,4-Dimethylphenol	2700		120	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	2100		110	220	ug/Kg
120-83-2	2,4-Dichlorophenol	2200		97.2	220	ug/Kg
91-20-3	Naphthalene	2100		110	220	ug/Kg
106-47-8	4-Chloroaniline	1500		110	220	ug/Kg
87-68-3	Hexachlorobutadiene	2100		110	220	ug/Kg
105-60-2	Caprolactam	2400		110	420	ug/Kg
59-50-7	4-Chloro-3-methylphenol	2200		99.8	220	ug/Kg
91-57-6	2-Methylnaphthalene	2200		110	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	8500	E	200	420	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2300		91.9	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	2300		95.3	220	ug/Kg
92-52-4	1,1-Biphenyl	2200		110	220	ug/Kg
91-58-7	2-Chloronaphthalene	2100		110	220	ug/Kg
88-74-4	2-Nitroaniline	2300		120	220	ug/Kg
131-11-3	Dimethylphthalate	2300		110	220	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02MS	SDG No.:	P4718
Lab Sample ID:	P4718-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	77.6
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
BF140272.D	1	11/06/24 09:45	11/07/24 14:00	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	2400		110	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	2200		110	220	ug/Kg
99-09-2	3-Nitroaniline	1800		110	220	ug/Kg
83-32-9	Acenaphthene	2500		100	220	ug/Kg
51-28-5	2,4-Dinitrophenol	4900	E	310	420	ug/Kg
100-02-7	4-Nitrophenol	5300	E	150	420	ug/Kg
132-64-9	Dibenzofuran	2300		110	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	2400		110	220	ug/Kg
84-66-2	Diethylphthalate	2300		100	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	2200		110	220	ug/Kg
86-73-7	Fluorene	2200		110	220	ug/Kg
100-01-6	4-Nitroaniline	2400		140	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2600		150	420	ug/Kg
86-30-6	n-Nitrosodiphenylamine	2200		110	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	2200		100	220	ug/Kg
118-74-1	Hexachlorobenzene	2200		110	220	ug/Kg
1912-24-9	Atrazine	3000		120	220	ug/Kg
87-86-5	Pentachlorophenol	4800	E	99.5	420	ug/Kg
85-01-8	Phenanthrene	2200		110	220	ug/Kg
120-12-7	Anthracene	2300		110	220	ug/Kg
86-74-8	Carbazole	2200		100	220	ug/Kg
84-74-2	Di-n-butylphthalate	2300		110	220	ug/Kg
206-44-0	Fluoranthene	2100		110	220	ug/Kg
129-00-0	Pyrene	2400		110	220	ug/Kg
85-68-7	Butylbenzylphthalate	2500		120	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	2000		130	420	ug/Kg
56-55-3	Benzo(a)anthracene	2300		100	220	ug/Kg
218-01-9	Chrysene	2300		100	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2300		120	220	ug/Kg
117-84-0	Di-n-octyl phthalate	2300		140	420	ug/Kg
205-99-2	Benzo(b)fluoranthene	2400		100	220	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02MS	SDG No.:	P4718
Lab Sample ID:	P4718-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	77.6
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
BF140272.D	1	11/06/24 09:45	11/07/24 14:00	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	2100		110	220	ug/Kg
50-32-8	Benzo(a)pyrene	2500		120	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2100		100	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2100		100	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1800		100	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	2200		110	220	ug/Kg
123-91-1	1,4-Dioxane	2000		140	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2500		96.2	220	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	108		30 (18) - 130 (112)	72%	SPK: 150
13127-88-3	Phenol-d6	109		30 (15) - 130 (107)	73%	SPK: 150
4165-60-0	Nitrobenzene-d5	71.6		30 (18) - 130 (107)	72%	SPK: 100
321-60-8	2-Fluorobiphenyl	71.9		30 (20) - 130 (109)	72%	SPK: 100
118-79-6	2,4,6-Tribromophenol	121		30 (10) - 130 (116)	81%	SPK: 150
1718-51-0	Terphenyl-d14	80.3		30 (10) - 130 (105)	80%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	124000	6.875			
1146-65-2	Naphthalene-d8	474000	8.157			
15067-26-2	Acenaphthene-d10	274000	9.916			
1517-22-2	Phenanthrene-d10	512000	11.41			
1719-03-5	Chrysene-d12	276000	14.063			
1520-96-3	Perylene-d12	287000	15.58			

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\BF110724\
 Data File : BF140272.D
 Acq On : 07 Nov 2024 14:00
 Operator : RC/JU
 Sample : P4718-02MS
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WB-307-SB02MS

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/08/2024
 Supervised By :mohammad ahmed 11/11/2024

Quant Time: Nov 07 14:42:17 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 16:47:56 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	123564	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	474391	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	274410	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	511867	20.000	ng	0.00
76) Chrysene-d12	14.063	240	275517	20.000	ng	0.00
86) Perylene-d12	15.580	264	287359	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	805163	107.986	ng	0.00
7) Phenol-d6	6.504	99	1046033	109.070	ng	0.00
23) Nitrobenzene-d5	7.439	82	683568	71.641	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	329281	121.398	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	1235148	71.874	ng	0.00
79) Terphenyl-d14	12.992	244	1350611	80.303	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.710	88	159894	46.644	ng	94
3) Pyridine	3.463	79	401853	48.044	ng	96
4) n-Nitrosodimethylamine	3.422	42	229762	47.579	ng	92
6) Aniline	6.540	93	447659	51.665	ng	99
8) 2-Chlorophenol	6.657	128	423877	54.333	ng	96
9) Benzaldehyde	6.428	77	60676	10.271	ng	93
10) Phenol	6.516	94	539287	52.946	ng	94
11) bis(2-Chloroethyl)ether	6.610	93	402349	51.999	ng	97
12) 1,3-Dichlorobenzene	6.816	146	454992	49.769	ng	99
13) 1,4-Dichlorobenzene	6.892	146	464526	50.380	ng	98
14) 1,2-Dichlorobenzene	7.045	146	443352	51.482	ng	98
15) Benzyl Alcohol	7.016	79	390494	52.818	ng	96
16) 2,2'-oxybis(1-Chloropr...	7.145	45	631690	50.436	ng	98
17) 2-Methylphenol	7.122	107	343978	52.855	ng	99
18) Hexachloroethane	7.387	117	171286	49.871	ng	98
19) n-Nitroso-di-n-propyla...	7.287	70	307934	50.330	ng	95
20) 3+4-Methylphenols	7.275	107	425056	52.004	ng	95
22) Acetophenone	7.281	105	577350	49.087	ng	98
24) Nitrobenzene	7.457	77	475696	47.513	ng	97
25) Isophorone	7.692	82	832705	50.684	ng	100
26) 2-Nitrophenol	7.775	139	218788	54.936	ng	95
27) 2,4-Dimethylphenol	7.804	122	337920	62.369	ng	96
28) bis(2-Chloroethoxy)met...	7.904	93	486262	49.458	ng	99
29) 2,4-Dichlorophenol	8.010	162	349832	52.192	ng	100
30) 1,2,4-Trichlorobenzene	8.098	180	384857	47.916	ng	99
31) Naphthalene	8.181	128	1207757	49.303	ng	100
32) Benzoic acid	7.922	122	248410	55.867	ng	97
33) 4-Chloroaniline	8.228	127	281553	34.912	ng	96
34) Hexachlorobutadiene	8.292	225	259986	47.822	ng	99
35) Caprolactam	8.592	113	114665m	56.235	ng	
36) 4-Chloro-3-methylphenol	8.704	107	387719	51.953	ng	97
37) 2-Methylnaphthalene	8.869	142	813182	50.863	ng	99
38) 1-Methylnaphthalene	8.969	142	759242	48.450	ng	100
40) 1,2,4,5-Tetrachloroben...	9.039	216	409102	50.925	ng	99
41) Hexachlorocyclopentadiene	9.022	237	444962	197.667	ng	99
43) 2,4,6-Trichlorophenol	9.151	196	267747	53.784	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
 Data File : BF140272.D
 Acq On : 07 Nov 2024 14:00
 Operator : RC/JU
 Sample : P4718-02MS
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WB-307-SB02MS

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/08/2024
 Supervised By :mohammad ahmed 11/11/2024

Quant Time: Nov 07 14:42:17 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 16:47:56 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	275023	52.543	ng	98
46) 1,1'-Biphenyl	9.339	154	993478	50.087	ng	100
47) 2-Chloronaphthalene	9.363	162	738129	49.444	ng	99
48) 2-Nitroaniline	9.457	65	262434	52.565	ng	95
49) Acenaphthylene	9.781	152	1169473	55.332	ng	99
50) Dimethylphthalate	9.639	163	897596	53.113	ng	99
51) 2,6-Dinitrotoluene	9.698	165	205237	51.665	ng	98
52) Acenaphthene	9.951	154	886215	59.116	ng	99
53) 3-Nitroaniline	9.869	138	152512	40.773	ng	97
54) 2,4-Dinitrophenol	9.980	184	227925	114.085	ng	88
55) Dibenzofuran	10.128	168	1102187	52.578	ng	99
56) 4-Nitrophenol	10.033	139	323914	123.159	ng	95
57) 2,4-Dinitrotoluene	10.104	165	285151	55.316	ng	95
58) Fluorene	10.469	166	861124	51.605	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	250027	58.310	ng	97
60) Diethylphthalate	10.339	149	886313	52.776	ng	100
61) 4-Chlorophenyl-phenyle...	10.457	204	435218	51.750	ng	98
62) 4-Nitroaniline	10.486	138	205277	55.224	ng	96
63) Azobenzene	10.622	77	991091	56.929	ng	94
65) 4,6-Dinitro-2-methylph...	10.516	198	161606	60.114	ng	94
66) n-Nitrosodiphenylamine	10.580	169	764584	51.934	ng	99
67) 4-Bromophenyl-phenylether	10.951	248	282599	51.270	ng	98
68) Hexachlorobenzene	11.016	284	316279	50.340	ng	96
69) Atrazine	11.104	200	279153	69.306	ng	99
70) Pentachlorophenol	11.210	266	375354	111.257	ng	98
71) Phenanthrene	11.433	178	1278587	52.341	ng	99
72) Anthracene	11.486	178	1310930	54.728	ng	100
73) Carbazole	11.639	167	1140760	52.121	ng	100
74) Di-n-butylphthalate	11.969	149	1387600	53.560	ng	100
75) Fluoranthene	12.621	202	1259503	49.309	ng	99
77) Benzidine	12.745	184	489668	90.901	ng	99
78) Pyrene	12.851	202	1252636	55.064	ng	99
80) Butylbenzylphthalate	13.469	149	483213	58.990	ng	97
81) Benzo(a)anthracene	14.057	228	963003	54.464	ng	99
82) 3,3'-Dichlorobenzidine	14.016	252	252806	45.530	ng	99
83) Chrysene	14.092	228	880430	53.173	ng	99
84) Bis(2-ethylhexyl)phtha...	14.039	149	613533	53.440	ng	100
85) Di-n-octyl phthalate	14.692	149	927048	53.648	ng	97
87) Indeno(1,2,3-cd)pyrene	17.098	276	834095	49.449	ng	100
88) Benzo(b)fluoranthene	15.145	252	970890	55.857	ng	99
89) Benzo(k)fluoranthene	15.174	252	781160	48.977	ng	99
90) Benzo(a)pyrene	15.521	252	821561	57.328	ng	100
91) Dibenzo(a,h)anthracene	17.115	278	688310	49.598	ng	100
92) Benzo(g,h,i)perylene	17.551	276	598771	42.296	ng	99

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

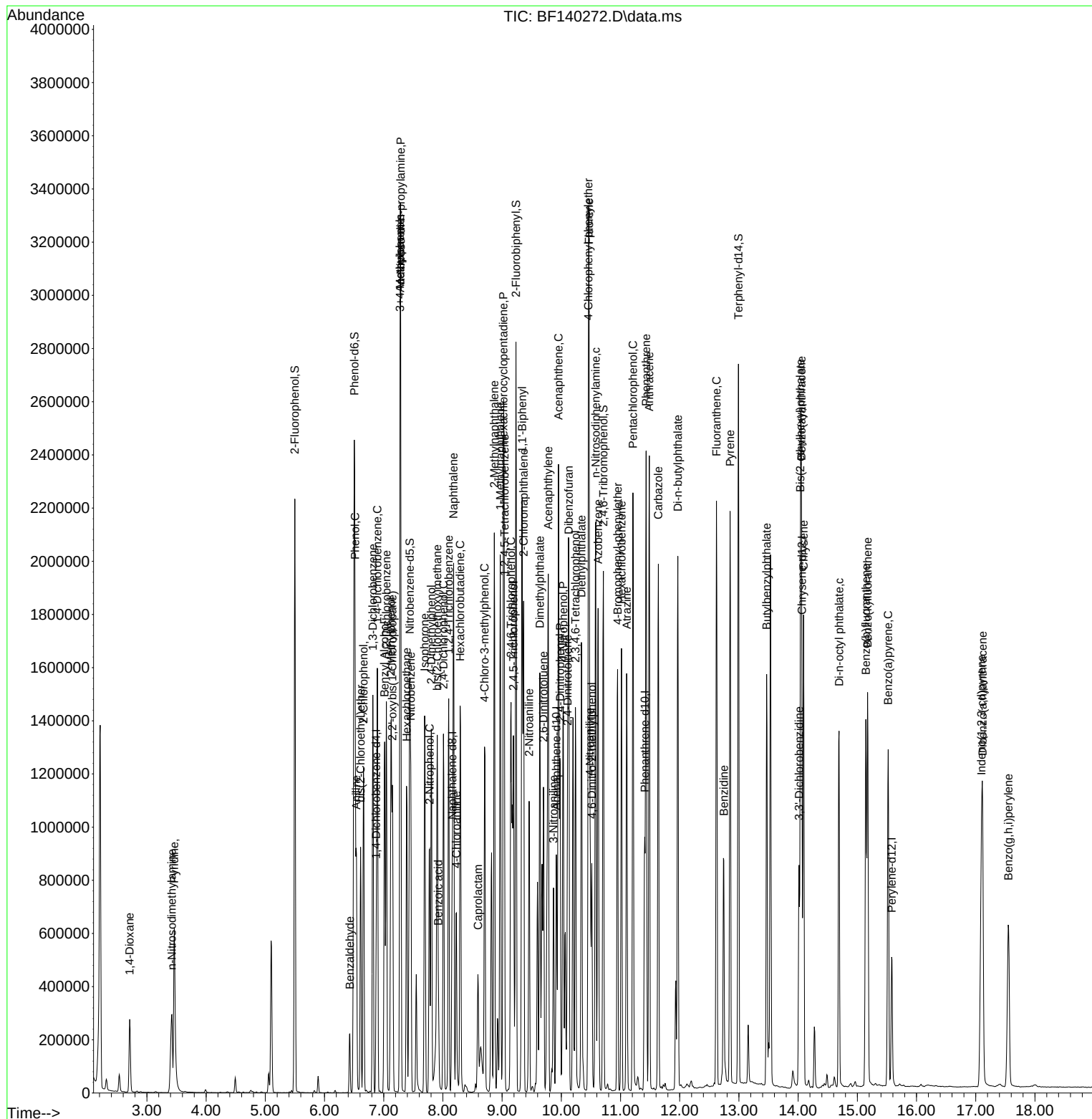
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140272.D
Acq On : 07 Nov 2024 14:00
Operator : RC/JU
Sample : P4718-02MS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/11/2024

Quant Time: Nov 07 14:42:17 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 16:47:56 2024
Response via : Initial Calibration



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02MSD	SDG No.:	P4718
Lab Sample ID:	P4718-02MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	77.6
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
BF140273.D	1	11/06/24 09:45	11/07/24 14:27	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	440		230	420	ug/Kg
108-95-2	Phenol	2200		110	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	2200		110	220	ug/Kg
95-57-8	2-Chlorophenol	2300		110	220	ug/Kg
95-48-7	2-Methylphenol	2200		100	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	2100		120	220	ug/Kg
98-86-2	Acetophenone	2100		110	220	ug/Kg
65794-96-9	3+4-Methylphenols	2200		100	420	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	2100		51.9	100	ug/Kg
67-72-1	Hexachloroethane	2100		110	220	ug/Kg
98-95-3	Nitrobenzene	2000		120	220	ug/Kg
78-59-1	Isophorone	2100		110	220	ug/Kg
88-75-5	2-Nitrophenol	2300		120	220	ug/Kg
105-67-9	2,4-Dimethylphenol	2600		120	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	2100		110	220	ug/Kg
120-83-2	2,4-Dichlorophenol	2200		97.2	220	ug/Kg
91-20-3	Naphthalene	2100		110	220	ug/Kg
106-47-8	4-Chloroaniline	1500		110	220	ug/Kg
87-68-3	Hexachlorobutadiene	2000		110	220	ug/Kg
105-60-2	Caprolactam	2400		110	420	ug/Kg
59-50-7	4-Chloro-3-methylphenol	2200		99.7	220	ug/Kg
91-57-6	2-Methylnaphthalene	2200		110	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	8100	E	200	420	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2200		91.9	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	2200		95.2	220	ug/Kg
92-52-4	1,1-Biphenyl	2100		110	220	ug/Kg
91-58-7	2-Chloronaphthalene	2100		110	220	ug/Kg
88-74-4	2-Nitroaniline	2200		120	220	ug/Kg
131-11-3	Dimethylphthalate	2200		110	220	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02MSD	SDG No.:	P4718
Lab Sample ID:	P4718-02MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	77.6
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
BF140273.D	1	11/06/24 09:45	11/07/24 14:27	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	2300		110	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	2200		110	220	ug/Kg
99-09-2	3-Nitroaniline	1700		110	220	ug/Kg
83-32-9	Acenaphthene	2500		100	220	ug/Kg
51-28-5	2,4-Dinitrophenol	5000	E	310	420	ug/Kg
100-02-7	4-Nitrophenol	5300	E	150	420	ug/Kg
132-64-9	Dibenzofuran	2200		110	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	2300		110	220	ug/Kg
84-66-2	Diethylphthalate	2200		100	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	2100		110	220	ug/Kg
86-73-7	Fluorene	2200		110	220	ug/Kg
100-01-6	4-Nitroaniline	2300		140	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2500		150	420	ug/Kg
86-30-6	n-Nitrosodiphenylamine	2200		110	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	2200		100	220	ug/Kg
118-74-1	Hexachlorobenzene	2100		110	220	ug/Kg
1912-24-9	Atrazine	2900		120	220	ug/Kg
87-86-5	Pentachlorophenol	4700	E	99.5	420	ug/Kg
85-01-8	Phenanthrene	2200		110	220	ug/Kg
120-12-7	Anthracene	2300		110	220	ug/Kg
86-74-8	Carbazole	2200		100	220	ug/Kg
84-74-2	Di-n-butylphthalate	2300		110	220	ug/Kg
206-44-0	Fluoranthene	2100		110	220	ug/Kg
129-00-0	Pyrene	2300		110	220	ug/Kg
85-68-7	Butylbenzylphthalate	2400		120	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1900		130	420	ug/Kg
56-55-3	Benzo(a)anthracene	2200		100	220	ug/Kg
218-01-9	Chrysene	2300		100	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2200		120	220	ug/Kg
117-84-0	Di-n-octyl phthalate	2200		140	420	ug/Kg
205-99-2	Benzo(b)fluoranthene	2100		100	220	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02MSD	SDG No.:	P4718
Lab Sample ID:	P4718-02MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	77.6
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
BF140273.D	1	11/06/24 09:45	11/07/24 14:27	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	2300		110	220	ug/Kg
50-32-8	Benzo(a)pyrene	2400		120	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2100		100	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2100		100	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1800		100	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	2100		110	220	ug/Kg
123-91-1	1,4-Dioxane	2000		140	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2400		96.1	220	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	106		30 (18) - 130 (112)	70%	SPK: 150
13127-88-3	Phenol-d6	106		30 (15) - 130 (107)	71%	SPK: 150
4165-60-0	Nitrobenzene-d5	69.7		30 (18) - 130 (107)	70%	SPK: 100
321-60-8	2-Fluorobiphenyl	71.3		30 (20) - 130 (109)	71%	SPK: 100
118-79-6	2,4,6-Tribromophenol	121		30 (10) - 130 (116)	81%	SPK: 150
1718-51-0	Terphenyl-d14	76.8		30 (10) - 130 (105)	77%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	125000	6.875			
1146-65-2	Naphthalene-d8	475000	8.157			
15067-26-2	Acenaphthene-d10	277000	9.916			
1517-22-2	Phenanthrene-d10	516000	11.41			
1719-03-5	Chrysene-d12	284000	14.068			
1520-96-3	Perylene-d12	294000	15.586			

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\BF110724\
 Data File : BF140273.D
 Acq On : 07 Nov 2024 14:27
 Operator : RC/JU
 Sample : P4718-02MSD
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WB-307-SB02MSD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/08/2024
 Supervised By :mohammad ahmed 11/11/2024

Quant Time: Nov 07 14:56:23 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 16:47:56 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	124801	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	475239	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	277394	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	516198	20.000	ng	0.00
76) Chrysene-d12	14.068	240	284018	20.000	ng	0.00
86) Perylene-d12	15.586	264	293574	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	795579	105.643	ng	0.00
7) Phenol-d6	6.504	99	1029384	106.271	ng	0.00
23) Nitrobenzene-d5	7.439	82	666023	69.678	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	331362	120.851	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	1238982	71.321	ng	0.00
79) Terphenyl-d14	12.992	244	1330763	76.754	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.710	88	158831	45.875	ng	95
3) Pyridine	3.463	79	403726	47.789	ng	96
4) n-Nitrosodimethylamine	3.416	42	229741	47.103	ng	92
6) Aniline	6.539	93	451956	51.644	ng	98
8) 2-Chlorophenol	6.657	128	416682	52.881	ng	96
9) Benzaldehyde	6.428	77	61562	10.318	ng	97
10) Phenol	6.516	94	534935	51.999	ng	94
11) bis(2-Chloroethyl)ether	6.610	93	396206	50.698	ng	97
12) 1,3-Dichlorobenzene	6.816	146	446908	48.400	ng	99
13) 1,4-Dichlorobenzene	6.892	146	458634	49.248	ng	99
14) 1,2-Dichlorobenzene	7.045	146	434447	49.948	ng	98
15) Benzyl Alcohol	7.016	79	386606	51.774	ng	96
16) 2,2'-oxybis(1-Chloropr...	7.145	45	622917	49.242	ng	98
17) 2-Methylphenol	7.122	107	338402	51.483	ng	99
18) Hexachloroethane	7.386	117	167570	48.306	ng	98
19) n-Nitroso-di-n-propyla...	7.286	70	305751	49.478	ng	96
20) 3+4-Methylphenols	7.275	107	425814	51.581	ng	95
22) Acetophenone	7.281	105	571898	48.537	ng	98
24) Nitrobenzene	7.457	77	467178	46.579	ng	97
25) Isophorone	7.692	82	824046	50.067	ng	99
26) 2-Nitrophenol	7.775	139	215334	53.972	ng	95
27) 2,4-Dimethylphenol	7.804	122	333993	61.534	ng	97
28) bis(2-Chloroethoxy)met...	7.904	93	480578	48.793	ng	99
29) 2,4-Dichlorophenol	8.010	162	350214	52.156	ng	99
30) 1,2,4-Trichlorobenzene	8.098	180	380621	47.304	ng	99
31) Naphthalene	8.180	128	1200857	48.933	ng	100
32) Benzoic acid	7.922	122	241676	54.255	ng	94
33) 4-Chloroaniline	8.228	127	279115	34.548	ng	97
34) Hexachlorobutadiene	8.292	225	257654	47.308	ng	99
35) Caprolactam	8.592	113	115758m	56.670	ng	
36) 4-Chloro-3-methylphenol	8.704	107	388888	52.017	ng	98
37) 2-Methylnaphthalene	8.869	142	810384	50.598	ng	99
38) 1-Methylnaphthalene	8.969	142	756765	48.206	ng	100
40) 1,2,4,5-Tetrachloroben...	9.033	216	400992	49.379	ng	99
41) Hexachlorocyclopentadiene	9.022	237	427822	188.008	ng	98
43) 2,4,6-Trichlorophenol	9.151	196	263899	52.441	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
 Data File : BF140273.D
 Acq On : 07 Nov 2024 14:27
 Operator : RC/JU
 Sample : P4718-02MSD
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WB-307-SB02MSD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/08/2024
 Supervised By :mohammad ahmed 11/11/2024

Quant Time: Nov 07 14:56:23 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 16:47:56 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	275539	52.075	ng	98
46) 1,1'-Biphenyl	9.333	154	984333	49.093	ng	100
47) 2-Chloronaphthalene	9.363	162	740269	49.054	ng	99
48) 2-Nitroaniline	9.457	65	262416	51.996	ng	93
49) Acenaphthylene	9.780	152	1154339	54.028	ng	99
50) Dimethylphthalate	9.639	163	889136	52.046	ng	100
51) 2,6-Dinitrotoluene	9.698	165	206672	51.466	ng	98
52) Acenaphthene	9.951	154	886942	58.528	ng	99
53) 3-Nitroaniline	9.869	138	151809	40.148	ng	99
54) 2,4-Dinitrophenol	9.980	184	233982	115.761	ng	86
55) Dibenzofuran	10.127	168	1096117	51.726	ng	97
56) 4-Nitrophenol	10.033	139	325881	122.574	ng	95
57) 2,4-Dinitrotoluene	10.104	165	281533	54.027	ng	96
58) Fluorene	10.469	166	866197	51.351	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	247483	57.095	ng	96
60) Diethylphthalate	10.339	149	885754	52.175	ng	99
61) 4-Chlorophenyl-phenyle...	10.457	204	425647	50.068	ng	98
62) 4-Nitroaniline	10.486	138	203943	54.275	ng	95
63) Azobenzene	10.621	77	980191	55.697	ng	95
65) 4,6-Dinitro-2-methylph...	10.516	198	161015	59.391	ng	95
66) n-Nitrosodiphenylamine	10.580	169	756153	50.930	ng	100
67) 4-Bromophenyl-phenylether	10.951	248	281694	50.677	ng	97
68) Hexachlorobenzene	11.016	284	313451	49.471	ng	97
69) Atrazine	11.104	200	276392	68.045	ng	98
70) Pentachlorophenol	11.210	266	369746	108.676	ng	98
71) Phenanthrene	11.433	178	1274979	51.755	ng	100
72) Anthracene	11.486	178	1290287	53.415	ng	100
73) Carbazole	11.639	167	1130349	51.212	ng	99
74) Di-n-butylphthalate	11.968	149	1372401	52.528	ng	99
75) Fluoranthene	12.621	202	1237839	48.055	ng	100
77) Benzidine	12.745	184	491990	88.598	ng	99
78) Pyrene	12.851	202	1234029	52.622	ng	99
80) Butylbenzylphthalate	13.474	149	475307	56.288	ng	95
81) Benzo(a)anthracene	14.057	228	943227	51.749	ng	99
82) 3,3'-Dichlorobenzidine	14.015	252	258341	45.134	ng	100
83) Chrysene	14.098	228	907486	53.167	ng	99
84) Bis(2-ethylhexyl)phtha...	14.045	149	608274	51.396	ng	100
85) Di-n-octyl phthalate	14.698	149	927876	52.089	ng	97
87) Indeno(1,2,3-cd)pyrene	17.103	276	845168	49.045	ng	100
88) Benzo(b)fluoranthene	15.151	252	865806	48.757	ng	99
89) Benzo(k)fluoranthene	15.180	252	892442	54.769	ng	100
90) Benzo(a)pyrene	15.527	252	820678	56.054	ng	99
91) Dibenzo(a,h)anthracene	17.121	278	696388	49.118	ng	99
92) Benzo(g,h,i)perylene	17.556	276	603487	41.726	ng	99

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

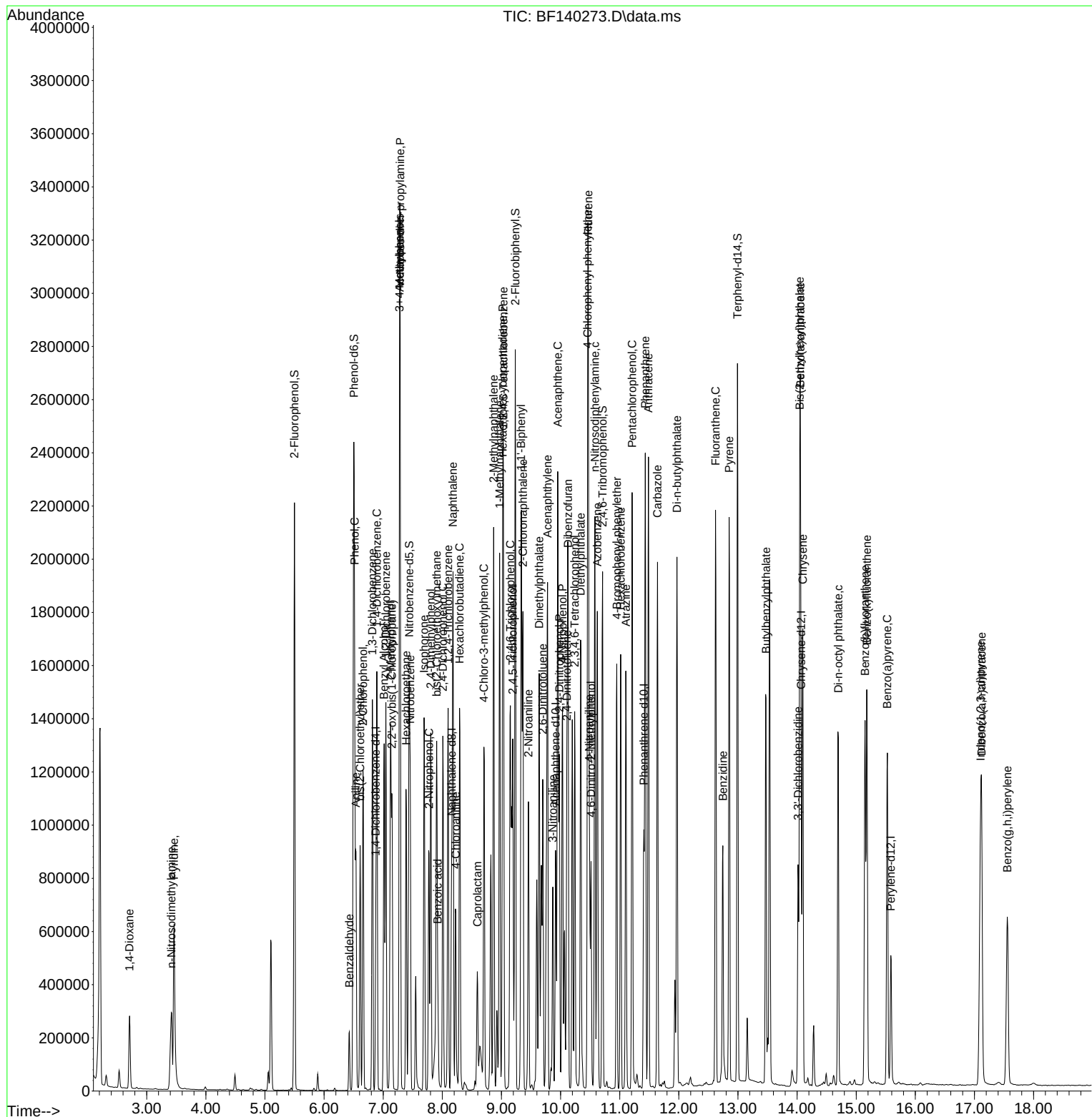

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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\  
Data File : BF140273.D  
Acq On    : 07 Nov 2024   14:27  
Operator  : RC/JU  
Sample    : P4718-02MSD  
Misc      :  
ALS Vial  : 14    Sample Multiplier: 1
```

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/11/2024

Quant Time: Nov 07 14:56:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 16:47:56 2024
Response via : Initial Calibration



Manual Integration Report

Sequence:

bf110524

Instrument

BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC050	BF140236.D	Benzoic acid	yogesh	11/6/2024 3:09:10 AM	mohammad	11/6/2024 3:16:35 AM	Peak Integrated by Software
SSTDICC080	BF140238.D	Aniline	yogesh	11/6/2024 3:09:12 AM	mohammad	11/6/2024 3:16:35 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

BF110724

Instrument

BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB164702BS	BF140263.D	Caprolactam	yogesh	11/8/2024 3:37:25 AM	mohammad	11/11/2024 12:23:52 AM	Peak Integrated by Software
P4718-02MS	BF140272.D	Caprolactam	yogesh	11/8/2024 3:37:30 AM	mohammad	11/11/2024 12:23:52 AM	Peak Integrated by Software
P4718-02MSD	BF140273.D	Caprolactam	yogesh	11/8/2024 3:37:31 AM	mohammad	11/11/2024 12:23:52 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

BF111324

Instrument

BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BF140333.D	Benzoic acid	yogesh	11/14/2024 3:08:33 AM	mohammad	11/15/2024 5:49:17 AM	Peak Integrated by Software
SSTDICC010	BF140334.D	2,3,4,6-Tetrachlorophen ol	yogesh	11/14/2024 3:08:38 AM	mohammad	11/15/2024 5:49:17 AM	Peak Integrated by Software
SSTDICC010	BF140334.D	Benzoic acid	yogesh	11/14/2024 3:08:38 AM	mohammad	11/15/2024 5:49:17 AM	Peak Integrated by Software
SSTDICC080	BF140339.D	Caprolactam	yogesh	11/14/2024 3:08:41 AM	mohammad	11/15/2024 5:49:17 AM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

bf111424

Instrument

BNA_f

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:	bf111824	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140443.D	2,4-Dimethylphenol	yogesh	11/19/2024 3:20:35 AM	mohammad	11/19/2024 3:30:54 AM	Peak Integrated by Software
PB164846BS	BF140446.D	Acenaphthene	yogesh	11/19/2024 3:20:38 AM	mohammad	11/19/2024 3:30:54 AM	Peak Integrated by Software
PB164846BS	BF140446.D	Caprolactam	yogesh	11/19/2024 3:20:38 AM	mohammad	11/19/2024 3:30:54 AM	Peak Integrated by Software
PB164846BSD	BF140447.D	Acenaphthene	yogesh	11/19/2024 3:20:40 AM	mohammad	11/19/2024 3:30:54 AM	Peak Integrated by Software
PB164846BSD	BF140447.D	Caprolactam	yogesh	11/19/2024 3:20:40 AM	mohammad	11/19/2024 3:30:54 AM	Peak Integrated by Software
SSTDCCC040	BF140456.D	2,4-Dimethylphenol	yogesh	11/19/2024 3:20:45 AM	mohammad	11/19/2024 3:30:54 AM	Peak Integrated by Software

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF110524

Review By	yogesh	Review On	11/6/2024 3:09:46 AM
Supervise By	mohammad	Supervise On	11/6/2024 3:16:35 AM
SubDirectory	BF110524	HP Acquire Method	BNA_F
		HP Processing Method	bf110524
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621		
CCC	SP6624		
Internal Standard/PEM	S12324,10ul/1000ul sample		
ICV/I.BLK	SP6559		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140230.D	05 Nov 2024 11:56	RC/JU	Ok
2	SSTDICC2.5	BF140231.D	05 Nov 2024 12:26	RC/JU	Ok
3	SSTDICC005	BF140232.D	05 Nov 2024 12:52	RC/JU	Ok
4	SSTDICC010	BF140233.D	05 Nov 2024 13:18	RC/JU	Ok
5	SSTDICC020	BF140234.D	05 Nov 2024 13:45	RC/JU	Ok
6	SSTDICCC040	BF140235.D	05 Nov 2024 14:11	RC/JU	Ok
7	SSTDICC050	BF140236.D	05 Nov 2024 14:37	RC/JU	Ok,M
8	SSTDICC060	BF140237.D	05 Nov 2024 15:03	RC/JU	Ok
9	SSTDICC080	BF140238.D	05 Nov 2024 15:30	RC/JU	Ok,M
10	SSTDICV040	BF140239.D	05 Nov 2024 16:07	RC/JU	Ok
11	PB164366BL	BF140240.D	05 Nov 2024 16:37	RC/JU	Ok
12	P4368-02	BF140241.D	05 Nov 2024 17:03	RC/JU	Ok
13	P4368-02	BF140242.D	05 Nov 2024 17:30	RC/JU	Ok,M
14	P4368-08	BF140243.D	05 Nov 2024 17:56	RC/JU	Ok,M
15	P4368-02	BF140244.D	05 Nov 2024 18:22	RC/JU	Not Ok
16	P4368-08	BF140245.D	05 Nov 2024 18:49	RC/JU	Not Ok
17	P4368-01	BF140246.D	05 Nov 2024 19:15	RC/JU	Ok
18	P4368-01	BF140247.D	05 Nov 2024 19:41	RC/JU	Ok,M
19	P4368-07	BF140248.D	05 Nov 2024 20:07	RC/JU	Ok,M
20	P4368-07	BF140249.D	05 Nov 2024 20:34	RC/JU	Ok,M
21	PB164369BL	BF140250.D	05 Nov 2024 21:00	RC/JU	Ok

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF110524

Review By	yogesh	Review On	11/6/2024 3:09:46 AM
Supervise By	mohammad	Supervise On	11/6/2024 3:16:35 AM
SubDirectory	BF110524	HP Acquire Method	BNA_F
		HP Processing Method	bf110524
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621		
CCC	SP6624		
Internal Standard/PEM	S12324,10ul/1000ul sample		
ICV/I.BLK	SP6559		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	SSTDCCC040	BF140251.D	05 Nov 2024 21:26	RC/JU	Ok

M : Manual Integration

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF110724

Review By	yogesh	Review On	11/8/2024 3:38:09 AM
Supervise By	mohammad	Supervise On	11/11/2024 12:23:52 AM
SubDirectory	BF110724	HP Acquire Method	BNA_F
		HP Processing Method	bf110524
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621		
CCC	SP6624		
Internal Standard/PEM	S12326,10ul/1000ul sample		
ICV/I.BLK	SP6559		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140260.D	07 Nov 2024 08:33	RC/JU	Ok
2	SSTDCCC040	BF140261.D	07 Nov 2024 08:59	RC/JU	Ok
3	PB164702BL	BF140262.D	07 Nov 2024 09:28	RC/JU	Ok
4	PB164702BS	BF140263.D	07 Nov 2024 09:54	RC/JU	Ok,M
5	P4701-01	BF140264.D	07 Nov 2024 10:28	RC/JU	Ok
6	P4693-05	BF140265.D	07 Nov 2024 10:55	RC/JU	Ok
7	P4693-05MS	BF140266.D	07 Nov 2024 11:21	RC/JU	Ok,M
8	P4693-05MSD	BF140267.D	07 Nov 2024 11:48	RC/JU	Ok,M
9	P4701-05	BF140268.D	07 Nov 2024 12:14	RC/JU	Ok
10	P4697-01	BF140269.D	07 Nov 2024 12:40	RC/JU	Ok
11	P4718-01	BF140270.D	07 Nov 2024 13:07	RC/JU	Ok
12	P4718-02	BF140271.D	07 Nov 2024 13:33	RC/JU	Ok
13	P4718-02MS	BF140272.D	07 Nov 2024 14:00	RC/JU	Ok,M
14	P4718-02MSD	BF140273.D	07 Nov 2024 14:27	RC/JU	Ok,M
15	P4693-01	BF140274.D	07 Nov 2024 14:53	RC/JU	Ok,M
16	P4695-01	BF140275.D	07 Nov 2024 15:20	RC/JU	Dilution
17	P4707-01	BF140276.D	07 Nov 2024 15:46	RC/JU	Ok,M
18	P4719-01	BF140277.D	07 Nov 2024 16:13	RC/JU	Ok
19	P4694-05	BF140278.D	07 Nov 2024 16:39	RC/JU	ReRun
20	P4720-01	BF140279.D	07 Nov 2024 17:06	RC/JU	Dilution
21	P4722-13	BF140280.D	07 Nov 2024 17:32	RC/JU	Ok,M

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF110724

Review By	yogesh	Review On	11/8/2024 3:38:09 AM		
Supervise By	mohammad	Supervise On	11/11/2024 12:23:52 AM		
SubDirectory	BF110724	HP Acquire Method	BNA_F	HP Processing Method	bf110524
STD. NAME		STD REF.#			
Tune/Reschk		SP6573			
Initial Calibration Stds		SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621			
CCC		SP6624			
Internal Standard/PEM		S12326,10ul/1000ul sample			
ICV/I.BLK		SP6559			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	P4695-01DL	BF140281.D	07 Nov 2024 17:59	RC/JU	Not Ok
23	P4734-01	BF140282.D	07 Nov 2024 18:25	RC/JU	Ok,M
24	P4694-01	BF140283.D	07 Nov 2024 18:51	RC/JU	Dilution
25	P4700-01	BF140284.D	07 Nov 2024 19:18	RC/JU	Ok,M

M : Manual Integration

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF111324

Review By	yogesh	Review On	11/14/2024 3:08:53 AM
Supervise By	mohammad	Supervise On	11/15/2024 5:49:17 AM
SubDirectory	BF111324	HP Acquire Method	BNA_F
		HP Processing Method	Bf111324
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621		
CCC	SP6624		
Internal Standard/PEM	S12327,10ul/1000ul sample		
ICV/I.BLK	SP6559		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140331.D	13 Nov 2024 08:35	RC/JU	Ok
2	SSTDICC2.5	BF140332.D	13 Nov 2024 09:01	RC/JU	Ok
3	SSTDICC005	BF140333.D	13 Nov 2024 09:27	RC/JU	Ok,M
4	SSTDICC010	BF140334.D	13 Nov 2024 09:53	RC/JU	Ok,M
5	SSTDICC020	BF140335.D	13 Nov 2024 10:29	RC/JU	Ok
6	SSTDICCC040	BF140336.D	13 Nov 2024 10:55	RC/JU	Not Ok
7	SSTDICC050	BF140337.D	13 Nov 2024 11:21	RC/JU	Ok
8	SSTDICC060	BF140338.D	13 Nov 2024 11:47	RC/JU	Ok
9	SSTDICC080	BF140339.D	13 Nov 2024 12:13	RC/JU	Ok,M
10	SSTDICCC040	BF140340.D	13 Nov 2024 12:48	RC/JU	Ok
11	SSTDICV040	BF140341.D	13 Nov 2024 13:19	RC/JU	Ok
12	PB164401BL	BF140342.D	13 Nov 2024 13:45	RC/JU	Ok
13	P4495-11	BF140343.D	13 Nov 2024 15:25	RC/JU	Dilution
14	P4495-11DL	BF140344.D	13 Nov 2024 16:02	RC/JU	Ok
15	P3845-03	BF140345.D	13 Nov 2024 16:40	RC/JU	Dilution
16	P3845-03DL	BF140346.D	13 Nov 2024 17:06	RC/JU	Ok
17	P3845-06	BF140347.D	13 Nov 2024 17:32	RC/JU	Dilution
18	P3845-06DL	BF140348.D	13 Nov 2024 17:58	RC/JU	Not Ok
19	SP6681	BF140349.D	13 Nov 2024 18:39	RC/JU	Ok,NR

M : Manual Integration

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF111424

Review By	yogesh	Review On	11/15/2024 5:15:55 AM
Supervise By	mohammad	Supervise On	11/15/2024 5:49:37 AM
SubDirectory	BF111424	HP Acquire Method	BNA_F
		HP Processing Method	Bf111324
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621		
CCC	SP6624		
Internal Standard/PEM	S12327,10ul/1000ul sample		
ICV/I.BLK	SP6559		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140350.D	14 Nov 2024 08:47	RC/JU	Ok
2	SSTDCCC040	BF140351.D	14 Nov 2024 09:42	RC/JU	Ok
3	PB164908BL	BF140352.D	14 Nov 2024 10:08	RC/JU	Ok
4	PB164911BS	BF140353.D	14 Nov 2024 10:34	RC/JU	Ok,M
5	PB164911BSD	BF140354.D	14 Nov 2024 11:01	RC/JU	Ok,M
6	PB164911BL	BF140355.D	14 Nov 2024 11:27	RC/JU	Ok
7	P3845-06DL	BF140356.D	14 Nov 2024 11:54	RC/JU	Ok
8	P4762-02	BF140357.D	14 Nov 2024 13:03	RC/JU	Ok
9	P4792-03	BF140358.D	14 Nov 2024 13:29	RC/JU	Ok
10	P4837-03	BF140359.D	14 Nov 2024 13:55	RC/JU	Ok
11	P4834-03	BF140360.D	14 Nov 2024 14:21	RC/JU	Ok
12	P4779-01	BF140361.D	14 Nov 2024 14:47	RC/JU	Ok
13	P4838-03	BF140362.D	14 Nov 2024 15:13	RC/JU	Ok
14	P4718-04	BF140363.D	14 Nov 2024 15:39	RC/JU	Ok
15	P4812-01	BF140364.D	14 Nov 2024 16:04	RC/JU	Ok
16	DFTPP	BF140365.D	14 Nov 2024 16:35	RC/JU	Ok
17	SSTDCCC040	BF140366.D	14 Nov 2024 17:02	RC/JU	Ok
18	PB164846BL	BF140367.D	14 Nov 2024 17:28	RC/JU	Ok
19	P4722-10	BF140368.D	14 Nov 2024 17:59	RC/JU	Ok
20	P4722-15	BF140369.D	14 Nov 2024 18:25	RC/JU	Ok
21	P4791-02	BF140370.D	14 Nov 2024 18:51	RC/JU	Ok

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF111424

Review By	yogesh	Review On	11/15/2024 5:15:55 AM
Supervise By	mohammad	Supervise On	11/15/2024 5:49:37 AM
SubDirectory	BF111424	HP Acquire Method	BNA_F
		HP Processing Method	Bf111324
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621		
CCC	SP6624		
Internal Standard/PEM	S12327,10ul/1000ul sample		
ICV/I.BLK	SP6559		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	P4792-04	BF140371.D	14 Nov 2024 19:17	RC/JU	Ok
23	P4788-01	BF140372.D	14 Nov 2024 19:43	RC/JU	Ok
24	P4788-01MS	BF140373.D	14 Nov 2024 20:09	RC/JU	Ok
25	P4788-01MSD	BF140374.D	14 Nov 2024 20:35	RC/JU	Ok
26	P4796-05RE	BF140375.D	14 Nov 2024 21:01	RC/JU	Confirms
27	P4796-01RE	BF140376.D	14 Nov 2024 21:28	RC/JU	Confirms
28	P4722-08DL	BF140377.D	14 Nov 2024 21:54	RC/JU	Ok,M
29	P4768-06DL	BF140378.D	14 Nov 2024 22:20	RC/JU	Ok,M
30	P4739-09DL	BF140379.D	14 Nov 2024 22:47	RC/JU	Ok
31	P4795-01RE	BF140380.D	14 Nov 2024 23:13	RC/JU	Confirms
32	P4811-01RE	BF140381.D	14 Nov 2024 23:39	RC/JU	Confirms
33	P4816-01RE	BF140382.D	15 Nov 2024 00:05	RC/JU	Confirms
34	P4807-05	BF140383.D	15 Nov 2024 00:32	RC/JU	Ok
35	P4807-05MS	BF140384.D	15 Nov 2024 00:58	RC/JU	Ok
36	P4807-05MSD	BF140385.D	15 Nov 2024 01:24	RC/JU	Ok
37	P4807-01	BF140386.D	15 Nov 2024 01:49	RC/JU	Ok
38	P4798-01	BF140387.D	15 Nov 2024 02:16	RC/JU	Dilution
39	P4789-01	BF140388.D	15 Nov 2024 02:42	RC/JU	Ok
40	P4793-01	BF140389.D	15 Nov 2024 03:08	RC/JU	Confirms

M : Manual Integration

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF111824

Review By	yogesh	Review On	11/19/2024 3:20:55 AM
Supervise By	mohammad	Supervise On	11/19/2024 3:30:54 AM
SubDirectory	BF111824	HP Acquire Method	BNA_F
		HP Processing Method	Bf111324
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621		
CCC	SP6624		
Internal Standard/PEM	S12327,10ul/1000ul sample		
ICV/I.BLK	SP6559		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140442.D	18 Nov 2024 09:18	RC/JU	Ok
2	SSTDCCC040	BF140443.D	18 Nov 2024 10:13	RC/JU	Ok,M
3	PB165029BL	BF140444.D	18 Nov 2024 10:39	RC/JU	Ok
4	PB165029BS	BF140445.D	18 Nov 2024 11:05	RC/JU	Ok,M
5	PB164846BS	BF140446.D	18 Nov 2024 11:32	RC/JU	Ok,M
6	PB164846BSD	BF140447.D	18 Nov 2024 11:58	RC/JU	Ok,M
7	PB164940BL	BF140448.D	18 Nov 2024 12:24	RC/JU	Ok
8	PB164940BS	BF140449.D	18 Nov 2024 12:50	RC/JU	Ok,M
9	PB164965BL	BF140450.D	18 Nov 2024 13:16	RC/JU	Ok
10	PB164965BS	BF140451.D	18 Nov 2024 13:43	RC/JU	Ok,M
11	PB164969BS	BF140452.D	18 Nov 2024 14:19	RC/JU	Ok,M
12	PB164969BL	BF140453.D	18 Nov 2024 14:45	RC/JU	Ok
13	PB164880TB	BF140454.D	18 Nov 2024 15:11	RC/JU	Ok
14	DFTPP	BF140455.D	18 Nov 2024 15:48	RC/JU	Ok
15	SSTDCCC040	BF140456.D	18 Nov 2024 16:14	RC/JU	Ok,M
16	PB164944TB	BF140457.D	18 Nov 2024 16:40	RC/JU	Ok
17	P4821-04RE	BF140458.D	18 Nov 2024 17:13	RC/JU	Confirms
18	P4861-01	BF140459.D	18 Nov 2024 17:40	RC/JU	Ok
19	P4871-01	BF140460.D	18 Nov 2024 18:06	RC/JU	Ok
20	P4848-02	BF140461.D	18 Nov 2024 18:32	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF110524

Review By	yogesh	Review On	11/6/2024 3:09:46 AM				
Supervise By	mohammad	Supervise On	11/6/2024 3:16:35 AM				
SubDirectory	BF110524	HP Acquire Method	BNA_F	HP Processing Method	bf110524		
STD. NAME		STD REF.#					
Tune/Reschk		SP6573					
Initial Calibration Stds		SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621					
CCC		SP6624					
Internal Standard/PEM		S12324,10ul/1000ul sample					
ICV/I.BLK		SP6559					
Surrogate Standard							
MS/MSD Standard							
LCS Standard							

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF140230.D	05 Nov 2024 11:56		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF140231.D	05 Nov 2024 12:26		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF140232.D	05 Nov 2024 12:52	Compound#32,54,65 Removed from 5 ppm	RC/JU	Ok
4	SSTDICC010	SSTDICC010	BF140233.D	05 Nov 2024 13:18	Compound#54 Kept on LR	RC/JU	Ok
5	SSTDICC020	SSTDICC020	BF140234.D	05 Nov 2024 13:45		RC/JU	Ok
6	SSTDICCC040	SSTDICCC040	BF140235.D	05 Nov 2024 14:11	Calibration Good for DOD & 625.1 except for Benzidine	RC/JU	Ok
7	SSTDICC050	SSTDICC050	BF140236.D	05 Nov 2024 14:37	Com#77(Benzidine) Failed in the calibration for both DOD and NON-DOD	RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BF140237.D	05 Nov 2024 15:03		RC/JU	Ok
9	SSTDICC080	SSTDICC080	BF140238.D	05 Nov 2024 15:30		RC/JU	Ok,M
10	SSTDICV040	ICVBF110524	BF140239.D	05 Nov 2024 16:07		RC/JU	Ok
11	PB164366BL	PB164366BL	BF140240.D	05 Nov 2024 16:37		RC/JU	Ok
12	P4368-02	LOQ-SOIL-02-QT4-202	BF140241.D	05 Nov 2024 17:03	LOQ-SOIL-5 ppm	RC/JU	Ok
13	P4368-02	LOQ-SOIL-02-QT4-202	BF140242.D	05 Nov 2024 17:30	LOQ-SOIL-10 PPM (Used for All compounds except compounds#54,77)	RC/JU	Ok,M
14	P4368-08	LOQ-WATER-02-QT4-2	BF140243.D	05 Nov 2024 17:56	LOQ-Water-5 ppm	RC/JU	Ok,M
15	P4368-02	LOQ-SOIL-02-QT4-202	BF140244.D	05 Nov 2024 18:22	LOQ-SOIL-5 ppm, Already Analyzed	RC/JU	Not Ok
16	P4368-08	LOQ-WATER-02-QT4-2	BF140245.D	05 Nov 2024 18:49	LOQ-Water-10 ppm, Internal Standard Fail	RC/JU	Not Ok

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF110524

Review By	yogesh	Review On	11/6/2024 3:09:46 AM		
Supervise By	mohammad	Supervise On	11/6/2024 3:16:35 AM		
SubDirectory	BF110524	HP Acquire Method	BNA_F	HP Processing Method	bf110524
STD. NAME		STD REF.#			
Tune/Reschk		SP6573			
Initial Calibration Stds		SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621			
CCC		SP6624			
Internal Standard/PEM		S12324,10ul/1000ul sample			
ICV/I.BLK		SP6559			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

17	P4368-01	LOD-MDL-SOIL-01-QT	BF140246.D	05 Nov 2024 19:15	LOD-MDL-SOIL- 4 ppm	RC/JU	Ok
18	P4368-01	LOD-MDL-SOIL-01-QT	BF140247.D	05 Nov 2024 19:41	LOD-MDL-SOIL- 8 ppm	RC/JU	Ok,M
19	P4368-07	LOD-MDL-WATER-01-QT	BF140248.D	05 Nov 2024 20:07	LOD-MDL-WATER- 4 ppm	RC/JU	Ok,M
20	P4368-07	LOD-MDL-WATER-01-QT	BF140249.D	05 Nov 2024 20:34	LOD-MDL-WATER- 8 ppm	RC/JU	Ok,M
21	PB164369BL	PB164369BL	BF140250.D	05 Nov 2024 21:00		RC/JU	Ok
22	SSTDCCC040	SSTDCCC040EC	BF140251.D	05 Nov 2024 21:26		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF110724

Review By	yogesh	Review On	11/8/2024 3:38:09 AM
Supervise By	mohammad	Supervise On	11/11/2024 12:23:52 AM
SubDirectory	BF110724	HP Acquire Method	BNA_F
		HP Processing Method	bf110524

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12326,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF140260.D	07 Nov 2024 08:33		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140261.D	07 Nov 2024 08:59		RC/JU	Ok
3	PB164702BL	PB164702BL	BF140262.D	07 Nov 2024 09:28		RC/JU	Ok
4	PB164702BS	PB164702BS	BF140263.D	07 Nov 2024 09:54		RC/JU	Ok,M
5	P4701-01	BP-F3	BF140264.D	07 Nov 2024 10:28		RC/JU	Ok
6	P4693-05	BP-G4-WC	BF140265.D	07 Nov 2024 10:55		RC/JU	Ok
7	P4693-05MS	BP-G4-WCMS	BF140266.D	07 Nov 2024 11:21		RC/JU	Ok,M
8	P4693-05MSD	BP-G4-WCMSD	BF140267.D	07 Nov 2024 11:48		RC/JU	Ok,M
9	P4701-05	BP-F4	BF140268.D	07 Nov 2024 12:14		RC/JU	Ok
10	P4697-01	TP-1	BF140269.D	07 Nov 2024 12:40		RC/JU	Ok
11	P4718-01	WB-307-SB01	BF140270.D	07 Nov 2024 13:07		RC/JU	Ok
12	P4718-02	WB-307-SB02	BF140271.D	07 Nov 2024 13:33		RC/JU	Ok
13	P4718-02MS	WB-307-SB02MS	BF140272.D	07 Nov 2024 14:00		RC/JU	Ok,M
14	P4718-02MSD	WB-307-SB02MSD	BF140273.D	07 Nov 2024 14:27		RC/JU	Ok,M
15	P4693-01	BP-G5-WC	BF140274.D	07 Nov 2024 14:53		RC/JU	Ok,M
16	P4695-01	Z-01	BF140275.D	07 Nov 2024 15:20	Need 5X Dilution.	RC/JU	Dilution
17	P4707-01	HD-02-110424	BF140276.D	07 Nov 2024 15:46		RC/JU	Ok,M
18	P4719-01	BAYAVE-STOCKPILE	BF140277.D	07 Nov 2024 16:13		RC/JU	Ok

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF110724

Review By	yogesh	Review On	11/8/2024 3:38:09 AM		
Supervise By	mohammad	Supervise On	11/11/2024 12:23:52 AM		
SubDirectory	BF110724	HP Acquire Method	BNA_F	HP Processing Method	bf110524
STD. NAME		STD REF.#			
Tune/Reschk		SP6573			
Initial Calibration Stds		SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621			
CCC		SP6624			
Internal Standard/PEM		S12326,10ul/1000ul sample			
ICV/I.BLK		SP6559			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	P4694-05	Z-04	BF140278.D	07 Nov 2024 16:39	Internal Standard Fail	RC/JU	ReRun
20	P4720-01	JC-701-COMP-01	BF140279.D	07 Nov 2024 17:06	Internal Standard and Surrogate Fail, Need 2X Dilution	RC/JU	Dilution
21	P4722-13	WC-3(0-6)	BF140280.D	07 Nov 2024 17:32	Internal Standard Fail	RC/JU	Ok,M
22	P4695-01DL	Z-01DL	BF140281.D	07 Nov 2024 17:59	Internal Standard Fail	RC/JU	Not Ok
23	P4734-01	EO-03-11062024	BF140282.D	07 Nov 2024 18:25		RC/JU	Ok,M
24	P4694-01	Z-03A	BF140283.D	07 Nov 2024 18:51	Internal Standard Fail, Need 2X Dilution	RC/JU	Dilution
25	P4700-01	MH-8	BF140284.D	07 Nov 2024 19:18	Internal Standard Fail	RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF111324

Review By	yogesh	Review On	11/14/2024 3:08:53 AM
Supervise By	mohammad	Supervise On	11/15/2024 5:49:17 AM
SubDirectory	BF111324	HP Acquire Method	BNA_F
		HP Processing Method	Bf111324

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	SP6573 SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	SP6624 S12327,10ul/1000ul sample SP6559

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF140331.D	13 Nov 2024 08:35		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF140332.D	13 Nov 2024 09:01		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF140333.D	13 Nov 2024 09:27	Compound#41,54,77 removed from 5 ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BF140334.D	13 Nov 2024 09:53		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BF140335.D	13 Nov 2024 10:29		RC/JU	Ok
6	SSTDICCC040	SSTDICCC040	BF140336.D	13 Nov 2024 10:55	Injection Error	RC/JU	Not Ok
7	SSTDICC050	SSTDICC050	BF140337.D	13 Nov 2024 11:21		RC/JU	Ok
8	SSTDICC060	SSTDICC060	BF140338.D	13 Nov 2024 11:47		RC/JU	Ok
9	SSTDICC080	SSTDICC080	BF140339.D	13 Nov 2024 12:13	Compound#09 removed from 80 ppm	RC/JU	Ok,M
10	SSTDICCC040	SSTDICCC040	BF140340.D	13 Nov 2024 12:48		RC/JU	Ok
11	SSTDICV040	ICVBF111324	BF140341.D	13 Nov 2024 13:19		RC/JU	Ok
12	PB164401BL	PB164401BL	BF140342.D	13 Nov 2024 13:45		RC/JU	Ok
13	P4495-11	PT-BNA-SOIL	BF140343.D	13 Nov 2024 15:25	PT Sample, Need 5X Dilution	RC/JU	Dilution
14	P4495-11DL	PT-BNA-SOILDL	BF140344.D	13 Nov 2024 16:02		RC/JU	Ok
15	P3845-03	PT-BN-WP	BF140345.D	13 Nov 2024 16:40	PT Sample Analyzed for confirmation - Need 5X Dilution.	RC/JU	Dilution
16	P3845-03DL	PT-BN-WPDL	BF140346.D	13 Nov 2024 17:06		RC/JU	Ok
17	P3845-06	PT-ACIDS-WP	BF140347.D	13 Nov 2024 17:32	PT Sample Analyzed for confirmation - Need 5X Dilution.	RC/JU	Dilution

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF111324

Review By	yogesh	Review On	11/14/2024 3:08:53 AM		
Supervise By	mohammad	Supervise On	11/15/2024 5:49:17 AM		
SubDirectory	BF111324	HP Acquire Method	BNA_F	HP Processing Method	Bf111324
STD. NAME		STD REF.#			
Tune/Reschk	SP6573				
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621				
CCC	SP6624				
Internal Standard/PEM	S12327,10ul/1000ul sample				
ICV/I.BLK	SP6559				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

18	P3845-06DL	PT-ACIDS-WPDL	BF140348.D	13 Nov 2024 17:58	Dilution not matching (Low results)	RC/JU	Not Ok
19	SP6681	SP6681	BF140349.D	13 Nov 2024 18:39	8270-625.1 SPIKE SOLUTION	RC/JU	Ok,NR

M : Manual Integration

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF111424

Review By	yogesh	Review On	11/15/2024 5:15:55 AM
Supervise By	mohammad	Supervise On	11/15/2024 5:49:37 AM
SubDirectory	BF111424	HP Acquire Method	BNA_F
		HP Processing Method	Bf111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF140350.D	14 Nov 2024 08:47		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140351.D	14 Nov 2024 09:42		RC/JU	Ok
3	PB164908BL	PB164908BL	BF140352.D	14 Nov 2024 10:08		RC/JU	Ok
4	PB164911BS	PB164911BS	BF140353.D	14 Nov 2024 10:34		RC/JU	Ok,M
5	PB164911BSD	PB164911BSD	BF140354.D	14 Nov 2024 11:01		RC/JU	Ok,M
6	PB164911BL	PB164911BL	BF140355.D	14 Nov 2024 11:27		RC/JU	Ok
7	P3845-06DL	PT-ACIDS-WPDL	BF140356.D	14 Nov 2024 11:54		RC/JU	Ok
8	P4762-02	EFF-WW	BF140357.D	14 Nov 2024 13:03		RC/JU	Ok
9	P4792-03	OILY-STONE-DRUM	BF140358.D	14 Nov 2024 13:29		RC/JU	Ok
10	P4837-03	3TRK-STONE	BF140359.D	14 Nov 2024 13:55		RC/JU	Ok
11	P4834-03	SLP-1-STONE	BF140360.D	14 Nov 2024 14:21		RC/JU	Ok
12	P4779-01	SOIL-01	BF140361.D	14 Nov 2024 14:47		RC/JU	Ok
13	P4838-03	T1-STONE	BF140362.D	14 Nov 2024 15:13		RC/JU	Ok
14	P4718-04	WB-307-SW	BF140363.D	14 Nov 2024 15:39		RC/JU	Ok
15	P4812-01	RBR200035	BF140364.D	14 Nov 2024 16:04		RC/JU	Ok
16	DFTPP	DFTPP	BF140365.D	14 Nov 2024 16:35		RC/JU	Ok
17	SSTDCCC040	SSTDCCC040	BF140366.D	14 Nov 2024 17:02		RC/JU	Ok
18	PB164846BL	PB164846BL	BF140367.D	14 Nov 2024 17:28		RC/JU	Ok

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF111424

Review By	yogesh	Review On	11/15/2024 5:15:55 AM
Supervise By	mohammad	Supervise On	11/15/2024 5:49:37 AM
SubDirectory	BF111424	HP Acquire Method	BNA_F
		HP Processing Method	Bf111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4722-10	WC-2(0-6)	BF140368.D	14 Nov 2024 17:59		RC/JU	Ok
20	P4722-15	WC-3(0-6)	BF140369.D	14 Nov 2024 18:25		RC/JU	Ok
21	P4791-02	HINCHMAN-OILY-WAT	BF140370.D	14 Nov 2024 18:51	Internal Standard Fail	RC/JU	Ok
22	P4792-04	MANHOLE-WASTE-DR	BF140371.D	14 Nov 2024 19:17		RC/JU	Ok
23	P4788-01	BP-G3	BF140372.D	14 Nov 2024 19:43		RC/JU	Ok
24	P4788-01MS	BP-G3MS	BF140373.D	14 Nov 2024 20:09		RC/JU	Ok
25	P4788-01MSD	BP-G3MSD	BF140374.D	14 Nov 2024 20:35		RC/JU	Ok
26	P4796-05RE	TP-3RE	BF140375.D	14 Nov 2024 21:01	Fax is already given	RC/JU	Confirms
27	P4796-01RE	TP-1RE	BF140376.D	14 Nov 2024 21:28	Fax is already given	RC/JU	Confirms
28	P4722-08DL	WC-2(0-6)DL	BF140377.D	14 Nov 2024 21:54		RC/JU	Ok,M
29	P4768-06DL	B-6-2DL	BF140378.D	14 Nov 2024 22:20		RC/JU	Ok,M
30	P4739-09DL	BP-B2DL	BF140379.D	14 Nov 2024 22:47		RC/JU	Ok
31	P4795-01RE	LAW-23-00189RE	BF140380.D	14 Nov 2024 23:13	Fax is already given	RC/JU	Confirms
32	P4811-01RE	RB24008RE	BF140381.D	14 Nov 2024 23:39	Internal Standard Fail	RC/JU	Confirms
33	P4816-01RE	331RE	BF140382.D	15 Nov 2024 00:05	Fax is already given	RC/JU	Confirms
34	P4807-05	BF-F14	BF140383.D	15 Nov 2024 00:32		RC/JU	Ok
35	P4807-05MS	BF-F14MS	BF140384.D	15 Nov 2024 00:58		RC/JU	Ok
36	P4807-05MSD	BF-F14MSD	BF140385.D	15 Nov 2024 01:24		RC/JU	Ok
37	P4807-01	TP-7	BF140386.D	15 Nov 2024 01:49		RC/JU	Ok

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF111424

Review By	yogesh	Review On	11/15/2024 5:15:55 AM			
Supervise By	mohammad	Supervise On	11/15/2024 5:49:37 AM			
SubDirectory	BF111424	HP Acquire Method	BNA_F	HP Processing Method	Bf111324	
STD. NAME		STD REF.#				
Tune/Reschk		SP6573				
Initial Calibration Stds		SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621				
CCC		SP6624				
Internal Standard/PEM		S12327,10ul/1000ul sample				
ICV/I.BLK		SP6559				
Surrogate Standard						
MS/MSD Standard						
LCS Standard						

38	P4798-01	MH-6	BF140387.D	15 Nov 2024 02:16	Need 2X Dilution	RC/JU	Dilution
39	P4789-01	BP-F21	BF140388.D	15 Nov 2024 02:42		RC/JU	Ok
40	P4793-01	M00-24-00345	BF140389.D	15 Nov 2024 03:08		RC/JU	Confirms

M : Manual Integration

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF111824

Review By	yogesh	Review On	11/19/2024 3:20:55 AM
Supervise By	mohammad	Supervise On	11/19/2024 3:30:54 AM
SubDirectory	BF111824	HP Acquire Method	BNA_F
		HP Processing Method	Bf111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTTP	DFTTP	BF140442.D	18 Nov 2024 09:18		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140443.D	18 Nov 2024 10:13		RC/JU	Ok,M
3	PB165029BL	PB165029BL	BF140444.D	18 Nov 2024 10:39		RC/JU	Ok
4	PB165029BS	PB165029BS	BF140445.D	18 Nov 2024 11:05		RC/JU	Ok,M
5	PB164846BS	PB164846BS	BF140446.D	18 Nov 2024 11:32		RC/JU	Ok,M
6	PB164846BSD	PB164846BSD	BF140447.D	18 Nov 2024 11:58		RC/JU	Ok,M
7	PB164940BL	PB164940BL	BF140448.D	18 Nov 2024 12:24		RC/JU	Ok
8	PB164940BS	PB164940BS	BF140449.D	18 Nov 2024 12:50		RC/JU	Ok,M
9	PB164965BL	PB164965BL	BF140450.D	18 Nov 2024 13:16		RC/JU	Ok
10	PB164965BS	PB164965BS	BF140451.D	18 Nov 2024 13:43		RC/JU	Ok,M
11	PB164969BS	PB164969BS	BF140452.D	18 Nov 2024 14:19		RC/JU	Ok,M
12	PB164969BL	PB164969BL	BF140453.D	18 Nov 2024 14:45		RC/JU	Ok
13	PB164880TB	PB164880TB	BF140454.D	18 Nov 2024 15:11		RC/JU	Ok
14	DFTTP	DFTTP	BF140455.D	18 Nov 2024 15:48		RC/JU	Ok
15	SSTDCCC040	SSTDCCC040	BF140456.D	18 Nov 2024 16:14		RC/JU	Ok,M
16	PB164944TB	PB164944TB	BF140457.D	18 Nov 2024 16:40		RC/JU	Ok
17	P4821-04RE	BP-F-24RE	BF140458.D	18 Nov 2024 17:13	Surrogate Fail	RC/JU	Confirms
18	P4861-01	WC-11-A-202411	BF140459.D	18 Nov 2024 17:40		RC/JU	Ok

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF111824

Review By	yogesh	Review On	11/19/2024 3:20:55 AM
Supervise By	mohammad	Supervise On	11/19/2024 3:30:54 AM
SubDirectory	BF111824	HP Acquire Method	BNA_F
		HP Processing Method	Bf111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4871-01	WC-10-A-202411	BF140460.D	18 Nov 2024 18:06		RC/JU	Ok
20	P4848-02	TP-1	BF140461.D	18 Nov 2024 18:32		RC/JU	Ok

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 11/6/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 11/05/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:00
Out Date: 11/06/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133300

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
P4452-04	ETGI-285	1	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4706-01	TR-04-110424	2	1.16	8.71	9.87	9.3	93.5	
P4706-02	TR-04-110424-E2	3	1.17	8.55	9.72	8.81	89.4	
P4707-01	HD-02-110424	4	1.18	8.57	9.75	9.21	93.7	
P4707-02	HD-02-110424-E2	5	1.14	8.40	9.54	9.07	94.4	
P4708-01	OR-02-110424	6	1.15	8.66	9.81	9.26	93.6	
P4708-02	OR-02-110424-E2	7	1.19	8.76	9.95	9.39	93.6	
P4709-01	HR-02-110424	8	1.16	8.71	9.87	8.79	87.6	
P4709-02	HR-02-110424-E2	9	1.14	8.82	9.96	8.76	86.4	
P4709-03	HR-03-110424	10	1.15	8.83	9.98	9.32	92.5	
P4709-04	HR-03-110424-E2	11	1.19	8.48	9.67	8.9	90.9	
P4718-01	WB-307-SB01	12	1.17	8.40	9.57	7.72	78.0	
P4718-02	WB-307-SB02	13	1.15	8.83	9.98	8.00	77.6	
P4719-01	BAYAVE-STOCKPILE	14	1.16	8.48	9.64	9.42	97.4	
P4719-02	BAYAVE-STOCKPILE-E2	15	1.17	8.67	9.84	9.3	93.8	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

133300

WorkList Name : %1-110524

WorkList ID : 185126

Department : Wet-Chemistry

Date : 11-05-2024 08:12:46

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4452-04	ETGI-285	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/18/2024	Chemtech -SO
P4706-01	TR-04-110424	Solid	Percent Solids	Cool 4 deg C	PSEG05	L23	11/04/2024	Chemtech -SO
P4706-02	TR-04-110424-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L23	11/04/2024	Chemtech -SO
P4707-01	HD-02-110424	Solid	Percent Solids	Cool 4 deg C	PSEG05	L23	11/04/2024	Chemtech -SO
P4707-02	HD-02-110424-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L23	11/04/2024	Chemtech -SO
P4708-01	OR-02-110424	Solid	Percent Solids	Cool 4 deg C	PSEG05	L23	11/04/2024	Chemtech -SO
P4708-02	OR-02-110424-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L23	11/04/2024	Chemtech -SO
P4709-01	HR-02-110424	Solid	Percent Solids	Cool 4 deg C	PSEG05	L23	11/04/2024	Chemtech -SO
P4709-02	HR-02-110424-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L23	11/04/2024	Chemtech -SO
P4709-03	HR-03-110424	Solid	Percent Solids	Cool 4 deg C	PSEG05	L23	11/04/2024	Chemtech -SO
P4709-04	HR-03-110424-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L23	11/04/2024	Chemtech -SO
P4718-01	WB-307-SB01	Solid	Percent Solids	Cool 4 deg C	PSEG05	L23	11/04/2024	Chemtech -SO
P4718-02	WB-307-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	L21	11/04/2024	Chemtech -SO
P4719-01	BAYAVE-STOCKPILE	Solid	Percent Solids	Cool 4 deg C	PORT06	L21	11/04/2024	Chemtech -SO
P4719-02	BAYAVE-STOCKPILE-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K21	11/05/2024	Chemtech -SO
					PSEG03	K21	11/05/2024	Chemtech -SO

Date/Time 11/05/24 15:40

Raw Sample Received by: ad woc

Raw Sample Relinquished by: ad woc

Date/Time 11/05/24

Raw Sample Received by: ad woc

Raw Sample Relinquished by: ad woc

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Extraction Start Date : 11/06/2024

Matrix : Solid

Extraction Start Time : 09:45

Weigh By: RJ

Extraction By: RJ

Extraction End Date : 11/06/2024

Balance check: RJ

Filter By: RJ

Extraction End Time : 13:00

Balance ID: EX-SC-2

pH Meter ID: N/A

Concentration By: RS

pH Strip Lot#: N/A

Hood ID: 3,7

Supervisor By : rajesh

Extraction Method: ☐ Separatory Funnel ☐ Continous 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	SP6630
Surrogate	1.0ML	100/150 PPM	SP6638
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	EP2538
Baked Na2SO4	N/A	EP2556
Sand	N/A	E2865
Methylene Chloride	N/A	E3823
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:

1.5 ML Vial lot# 2210673.

KD Bath ID: N/A

Envap ID: NEVAP-02

KD Bath Temperature: N/A

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/6/24	Re (Ext. Lab)	AC/SVOC
13:05	Preparation Group	Analysis Group

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 11/06/2024

Sample ID	Client Sample ID	Test	g/mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164702BL	SBLK702	SVOC-TCL BNA -20	30.03	N/A	ritesh	RUPESH	1			U5-1
PB164702BS	SLCS702	SVOC-TCL BNA -20	30.01	N/A	ritesh	RUPESH	1			2
P4706-01	TR-04-110424	SVOC-TCL BNA -20	50.08	N/A	ritesh	RUPESH	1	D		3
P4707-01	HD-02-110424	SVOC-TCL BNA -20	50.03	N/A	ritesh	RUPESH	1	D		4
P4708-01	OR-02-110424	SVOC-TCL BNA -20	50.01	N/A	ritesh	RUPESH	1	D		5
P4709-01	HR-02-110424	SVOC-TCL BNA -20	50.04	N/A	ritesh	RUPESH	1	D		6
P4709-03	HR-03-110424	SVOC-TCL BNA -20	50.09	N/A	ritesh	RUPESH	1	D		U6-1
P4718-01	WB-307-SB01	SVOC-TCL BNA -20	30.03	N/A	ritesh	RUPESH	1	E		2
P4718-02	WB-307-SB02	SVOC-TCL BNA -20	30.08	N/A	ritesh	RUPESH	1	E		3
P4718-02MS	WB-307-SB02MS	SVOC-TCL BNA -20	30.02	N/A	ritesh	RUPESH	1	E		4
P4718-02MS D	WB-307-SB02MSD	SVOC-TCL BNA -20	30.04	N/A	ritesh	RUPESH	1	E		5
P4719-01	BAYAVE-STOCKPILE	SVOC-TCL BNA -20	50.06	N/A	ritesh	RUPESH	1	E		6

* Extracts relinquished on the same date as received.



WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4709 WorkList ID : 185156 Department : Extraction Date : 11-06-2024 08:19:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4706-01	TR-04-110424	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	L23	11/04/2024	8270E
P4707-01	HD-02-110424	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	L23	11/04/2024	8270E
P4708-01	OR-02-110424	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	L23	11/04/2024	8270E
P4709-01	HR-02-110424	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	L23	11/04/2024	8270E
P4709-03	HR-03-110424	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	L23	11/04/2024	8270E
P4718-01	WB-307-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	L21	11/04/2024	8270E
P4718-02	WB-307-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	L21	11/04/2024	8270E
P4719-01	BAYAVE-STOCKPILE	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K21	11/05/2024	8270E

Date/Time 11/6/24 9:40
 Raw Sample Received by: Ry (Cep 104)
 Raw Sample Relinquished by: Al Sm

Date/Time 11/6/24 10:10
 Raw Sample Received by: Al Sm
 Raw Sample Relinquished by: Ry (Cep 104)

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix: Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3574

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date: 11/09/2024

Extraction Start Time: 08:38

Extraction End Date: 11/09/2024

Extraction End Time: 15:35

Concentration By: EH

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	SP6630
Surrogate	1.0ML	100/150 PPM	SP6638
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
Methylene Chloride	N/A	E3817
Baked Na2SO4	N/A	EP2551
10N NaOH	N/A	EP2550
H2SO4 1:1	N/A	EP2548
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 # 2210673. pH Adjusted <2 with 1:1 H2SO4 & >11 with 10 N NaOH. P4718-004 Limited volume recd.

KD Bath ID: Water bath -01,02

Envap ID: NE VAP-02

KD Bath Temperature: 60 °C

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/9/24	RP (Ext Lab)	RLS voc
15:40	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 11/09/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164846BL	SBLK846	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1			SEP-01
PB164846BS	SLCS846	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1			2
PB164846BS D	SLCSD846	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1			3
P4718-04	WB-307-SW	SVOC-TCL BNA -20	450	6	RUPESH	rajesh	0.5	E		4
P4791-02	HINCHMAN-OILY-WATER	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1	Q		5
P4792-04	MANHOLE-WASTE-DRUMS	SVOC-TCL BNA -20	980	6	RUPESH	rajesh	1	K		

* Extracts relinquished on the same date as received.

8.10.24

10/28/24
8:35

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4792 WorkList ID : 185307 Department : Extraction Date : 11-09-2024 08:26:59

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4718-04	WB-307-SW	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	L21	11/04/2024	8270E
P4791-02	HINCHMAN-OILY-WATER	Water	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L23	11/08/2024	8270E
P4792-04	MANHOLE-WASTE-DRUMS	Water	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L21	11/08/2024	8270E

Date/Time 11/10/24 8:35
Raw Sample Received by: RS (Ext 104)
Raw Sample Relinquished by: RS (B4-104)

Date/Time 11/10/24 9:05
Raw Sample Received by: RS (Ext 104)
Raw Sample Relinquished by: RS (Ext 104)



SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. **P4718**
QUOTE NO.
COC Number **2042034**

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Glannett Fleming
ADDRESS: 1010 Adams Avenue
CITY: Audobon STATE: PA ZIP: 19403
ATTENTION: Joe Krupowsky
PHONE: 610-801-8362 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Amtrak's sep. of SB
PROJECT NO.: 9500000218 LOCATION: Keating NJ
PROJECT MANAGER: Joe Krupowsky
e-mail: QAQC@bamays.com
PHONE: 610-801-8362 FAX:

CLIENT BILLING INFORMATION

BILL TO: Chemtech PO#:
ADDRESS: 984 Sheffield St.
CITY: Mountainside STATE: NJ ZIP: 07092
ATTENTION: Samantha PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 10 DAYS*
EDD: 10 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☒ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other _____
☐ EDD FORMAT BEN EDD.

1. TA VOC+10
2. TA PAH
3. TAH NODALS
4. PCB's
5. CAIN2, G11V
6. EPH
7. TOX
8. EVLA TCA P
9. RCRA POC

PRESERVATIVES

COMMENTS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		A		B		F						
1.	<u>WB-307-SW</u>	<u>GW</u>		<u>X</u>	<u>11/04</u>	<u>8:20</u>	<u>7</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>					
2.	<u>WB-307-SB01</u>	<u>S</u>	<u>X</u>		<u>11/04</u>	<u>9:45</u>	<u>10</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>					
3.	<u>WB-307-SB02</u>	<u>S</u>	<u>X</u>		<u>11/04</u>	<u>10:45</u>	<u>10</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
4.	<u>TB-11042024</u>																	
5.																		
6.																		
7.																		
8.																		
9.																		
10.																		

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	Conditions of bottles or coolers at receipt:	☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP	<u>4.0</u> °C
1. <u>Yvonda</u>	<u>11/6/24 11:19</u>	1. <u>[Signature]</u>	Comments:	<u>No Ice.</u>	
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:			
2. <u>[Signature]</u>		2. <u>[Signature]</u>			
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:			
3. <u>[Signature]</u>	<u>11-3-2024</u>	3. <u>[Signature]</u>			

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete
☐ YES ☐ NO



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-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4718	PORT06	Order Date : 11/5/2024 1:31:00 PM	Project Mgr :
Client Name : Portal Partners Tri-Venture		Project Name : Amtrak Sawtooth Bridges 2	Report Type : NJ Reduced
Client Contact : Joseph Krupansky		Receive DateTime : 11/5/2024 12:15:00 PM	EDD Type : EXCEL NJCLEANUP
Invoice Name : Portal Partners Tri-Venture		Purchase Order :	Hard Copy Date :
Invoice Contact : Joseph Krupansky			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4718-01	WB-307-SB01	Solid	11/04/2024	09:45					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
P4718-02	WB-307-SB02	Solid	11/04/2024	09:45					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
P4718-04	WB-307-SW	Water	11/04/2024	08:20					
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	
P4718-05	TB-11042024	Water	11/04/2024	00:00					
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	

Relinquished By :

Date / Time :

LCJ
11.5.2024 14:27

Received By :

Date / Time :

[Signature]
11.5.2024 14:27

Storage Area : VOA Refridgerator Room